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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Altamont Environmental, Inc.

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

Name: Marta A. VanDussen, EIT Phone: 828-281-3350

E-mail: mvandussen@altamontenvironmental.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Old Fort Industrial Solid Waste Landfill	State Road 1240, Old Fort McDowell County, North Carolina	56-03	.0500	October 31, 2013

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Robert W. Hastings P.G. 828-281-3350

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

Affix NC Licensed/ Professional Geologist Seal

Signature 1/22/14 Date

231 Haywood Street, Asheville, North Carolina 28801

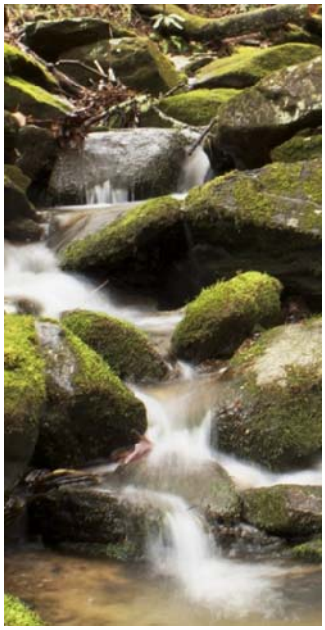
Facility Representative Address

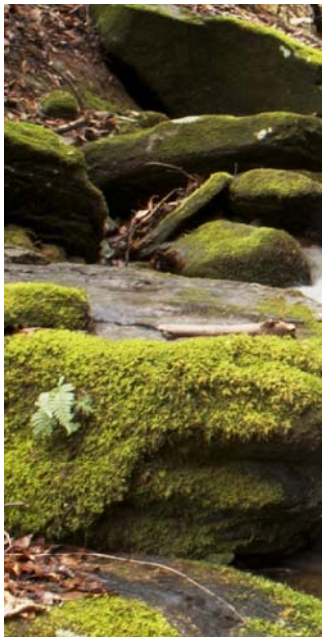
C-2185

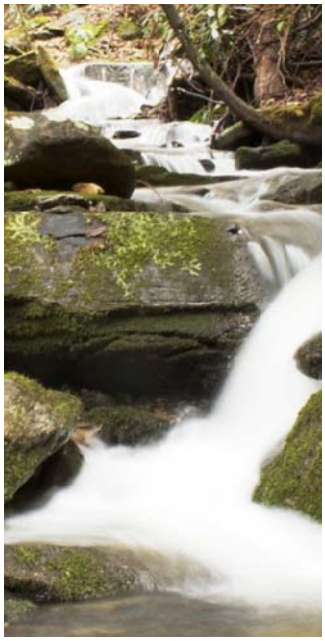
NC PE Firm License Number (if applicable effective May 1, 2009)

NORTH CAROLINA LICENSED SEAL 1906 GEOLOGIST Robert W. Hastings

Revised 6/2009







ALTAMONT ENVIRONMENTAL, INC.

ENGINEERING & HYDROGEOLOGY

Fall 2013
Water Quality Monitoring Report

Old Fort Industrial
Solid Waste Landfill

McDowell County, North Carolina
Permit #56-03

January 22, 2014

Prepared for
International Automotive Components Group North America
1506 East Main Street
Old Fort, North Carolina 28762
Project Number 2082.04

Prepared by
Altamont Environmental, Inc.
231 Haywood Street
Asheville, NC 28801
828.281.3350

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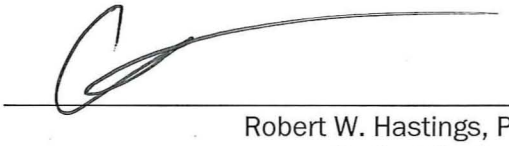


Robert W. Hastings, P.G.
Project Geologist

Table of Contents

Figures

Tables

Appendices

1.0 Introduction

The International Automotive Components (IAC) Group North America owns and manages the Old Fort Industrial Solid Waste Landfill (Old Fort Landfill) located on State Road 1240 in Old Fort, located in McDowell County, North Carolina (Figure 1). The landfill is approximately 86 acres in size and is located approximately 5 miles from the IAC plant.

Previously, the landfill was owned and operated by Collins & Aikman (C&A) for the disposal of solid waste related to carpet products. In 2007, IAC acquired the landfill and has not utilized it for waste disposal since the acquisition. As a result, a *Revised Workplan for Landfill Investigation and Closure* (dated November 4, 2010) and a *Final Investigation Report* (dated June 7, 2011) were prepared by the consulting firm RJN Environmental, Inc. to initiate landfill closure activities. The *Final Investigation Report* summarizes landfill closure investigation procedures, completed activities, and sampled media analytical results.

State regulations applicable to landfills are enforced by the North Carolina Department of Environment and Natural Resources (DENR), Division of Waste Management (DWM). The subject landfill is permitted by the DENR DWM under Permit No. 56-03. The monitoring of groundwater and surface water is conducted at the landfill on a semiannual basis according to the *Water Quality Monitoring Plan* submitted to DENR by Collins and Aikman, dated December 18, 1997. The most recent report documenting a water quality monitoring event at the landfill, *Spring 2013 Water Quality Monitoring Report,* was submitted to DENR on July 28, 2013.

This report is being submitted in accordance with: (1) monitoring requirements as stipulated in the DENR DWM Permit No. 56-03 and (2) 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).

The water quality monitoring network for the Old Fort Landfill consists of four compliance monitoring wells (MW-1, MW-2, MW-3, and MW-4) and two surface water sampling locations (SW-1 and SW-2) located upstream and downstream of the landfill, respectively, along Brevard Creek. Brevard Creek flows north/northwest near western landfill boundary through the site. The approximate sample locations at the landfill are shown on Figure 2.

This report describes the groundwater and surface water quality sampling event conducted in October 2013. Samples associated with the landfill are collected and analyzed by Pace Analytical Services, Inc. (Pace). The water quality monitoring report is prepared by Altamont Environmental, Inc. (Altamont).

2.0 Methods

2.1 Groundwater and Surface Water Sampling

Old Fort landfill monitoring wells (MW-1, MW-2, MW-3, and MW-4) and surface water sample locations (SW-1 and SW-2) were sampled by personnel of the Pace office in Asheville, North Carolina on October 31, 2013 (Table 1). Approximate sample locations are depicted on Figure 2. Table 1 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

At each monitoring well, field parameters consisting of pH, static water level, specific conductance, temperature, and turbidity were measured and recorded. Field data are recorded in the Pace *Report of Laboratory Analysis* included in Appendix A of this report. Additionally, water-level measurements and field parameters are summarized in the Electronic Data Deliverable (EDD) format in Appendix B. The well purging methods and sample collection procedures were developed and performed by Pace.

2.1.2 Surface Water Sampling Methods

Surface water samples SW-1 (upstream) and SW-2 (downstream) were collected at designated locations along Brevard Creek, which flows through the landfill parcel, adjacent to the western site-boundary in a south-to-north direction toward the Catawba River (Figure 2). The surface water sample collected at the upstream (southwest) location, SW-1, is assumed to represent surface water quality upstream of the landfill, while the surface water sample collected at the downstream (northwest) location, SW-2, is assumed to represent surface water quality downstream of the landfill. One set of field parameters, including temperature, pH, turbidity, and specific conductance were measured and recorded by Pace for each surface water sample collected (Appendix B).

2.2 Sample Handling, Documentation, and Analysis

Field parameters were measured and reported by Pace. Static water level measurements were collected and reported by Pace as well. Field parameters and water level measurements are presented in the EDD in Appendix B. Water quality samples were collected by Pace and following sample collection, groundwater and surface water samples were transported to Pace, a laboratory certified in North Carolina, by Pace staff. Pace personnel submitted the water samples collected from the monitoring wells and the surface water sampling locations for analysis as follows:

- Resource Conservation and Recovery Act (RCRA) metals using US Environmental Protection Agency (EPA) Methods 200.7 and 245.1.
- Field pH, field temperature, turbidity, static water level, and field-specific conductance.

One additional sample, a quality assurance/quality control (QA/QC), labeled equip blank, was collected and analyzed for RCRA metals.

Proper chain-of-custody documentation procedures were reportedly followed during collection and transport of each sample. The *Report of Laboratory Analysis* and chain-of-custody documentation are included in Appendix A. Laboratory analyses performed on the samples are summarized in Table 1.

3.0 Findings

3.1 Analytical Results

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

As stipulated in the DWM documents referenced above, non-detections were reported at the method detection limit (MDL), and all concentrations exceeding the MDL were reported and appropriately qualified. 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 the analyte-specific Solid Waste Section Limit (SWSL) established by the SWS. Per the DWM, 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 as estimated, and is flagged with a "J" qualifier (J-flag). The MRL is the minimum concentration of a target analyte that can be accurately determined by the referenced method. The MRL equals the PQL (Practical Quantitation Limit) in the *Report of Laboratory Analysis* issued by Pace. If the reported concentration is above the laboratory MRL and below the SWSL, the analytical result is qualified as estimated, and is flagged with an italicized "*J*" qualifier (italicized J-flag). Concentrations below the respective SWSLs are not discussed in the text of this report unless they also exceed their contaminant-specific water quality standards.

Detected concentrations of analytes in groundwater samples were compared to 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 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 15A NCAC 2B surface-water quality standards (2B standards).

Table 2 presents analytical results for analytes that were above the applicable SWSLs. Table 3 presents the concentrations of analytes detected in groundwater and/or surface water samples that exceeded their respective 2L standards (including IMACs, if applicable) or 2B standards.

In the EDD (Appendix B), the identification of a well ("WELL ID" on the table) consists of the name of the well prefaced by the un-hyphenated permit number for the facility. For example, monitoring well MW-1 is identified in the EDD as 5603-MW1. In the tables and figures of this report, however, the identification of a well consists of the name of the well without the permit number associated with the facility.

3.1.1 Groundwater Samples

The following statements summarize detections of RCRA metals and field parameters in groundwater.

3.1.1.1 RCRA Metals

Two metals (barium and chromium) were detected in the groundwater samples collected from two of the monitoring wells (MW-1 and MW-3) above SWSLs (Table 2).

Concentration of chromium was found above its 2L standard in the groundwater samples collected from monitoring wells MW-01 and MW-3 (Table 3).

3.1.1.2 Field Parameters

The field pH readings obtained from the groundwater samples collected from all monitoring wells were outside the acceptable range of 6.5 to 8.5 Standard Units (SU) specified in 15A NCAC 02L .0202[c] (Table 3).

The remaining parameters measured in the field have no established groundwater standards and are therefore not discussed in this section.

3.1.2 Surface Water Samples

The following statements summarize detections of RCRA metals and field parameters in surface water.

3.1.2.1 RCRA Metals

No metals were detected at concentrations that exceeded their respective SWSLs or 2B standards in either of the surface water samples collected (see EDD in Appendix B).

3.1.2.2 Field Parameters

The field pH readings measured in both surface water samples were within the 2B standard range established at 6.0 SU to 9.0 SU (EDD in Appendix B).

The remaining parameters measured in the field have no established groundwater standards and are therefore not discussed in this section.

3.1.3 Equipment Blank Sample

One equipment blank sample was analyzed for RCRA metals. One metal, silver, was detected at estimated concentration above the adjusted MDL and below the adjusted MRL, qualified with "J" by the laboratory (EDD in Appendix B). Detected concentrations of all metals did not exceed either their SWSLs or applicable water quality standards.

4.0 Summary

Pace collected groundwater and surface water samples on October 31, 2013 at the Old Fort Industrial Solid Waste Landfill. Altamont completed reporting of the fall 2013 water quality monitoring event results.

Tables 1, 2, and 3 of this report, the Pace *Report of Laboratory Analysis* in Appendix A, and the EDD in Appendix B provide detailed presentation of analytical results and field data representing the groundwater and surface water quality at the Old Fort Landfill.

4.1 Future Activities

Pace will continue to collect groundwater and surface water samples on a semiannual basis at the Old Fort Industrial Solid Waste Landfill. Altamont will continue to report the analytical results for groundwater and surface water monitoring on a semiannual basis. The next sampling event is scheduled for the month of April 2014.

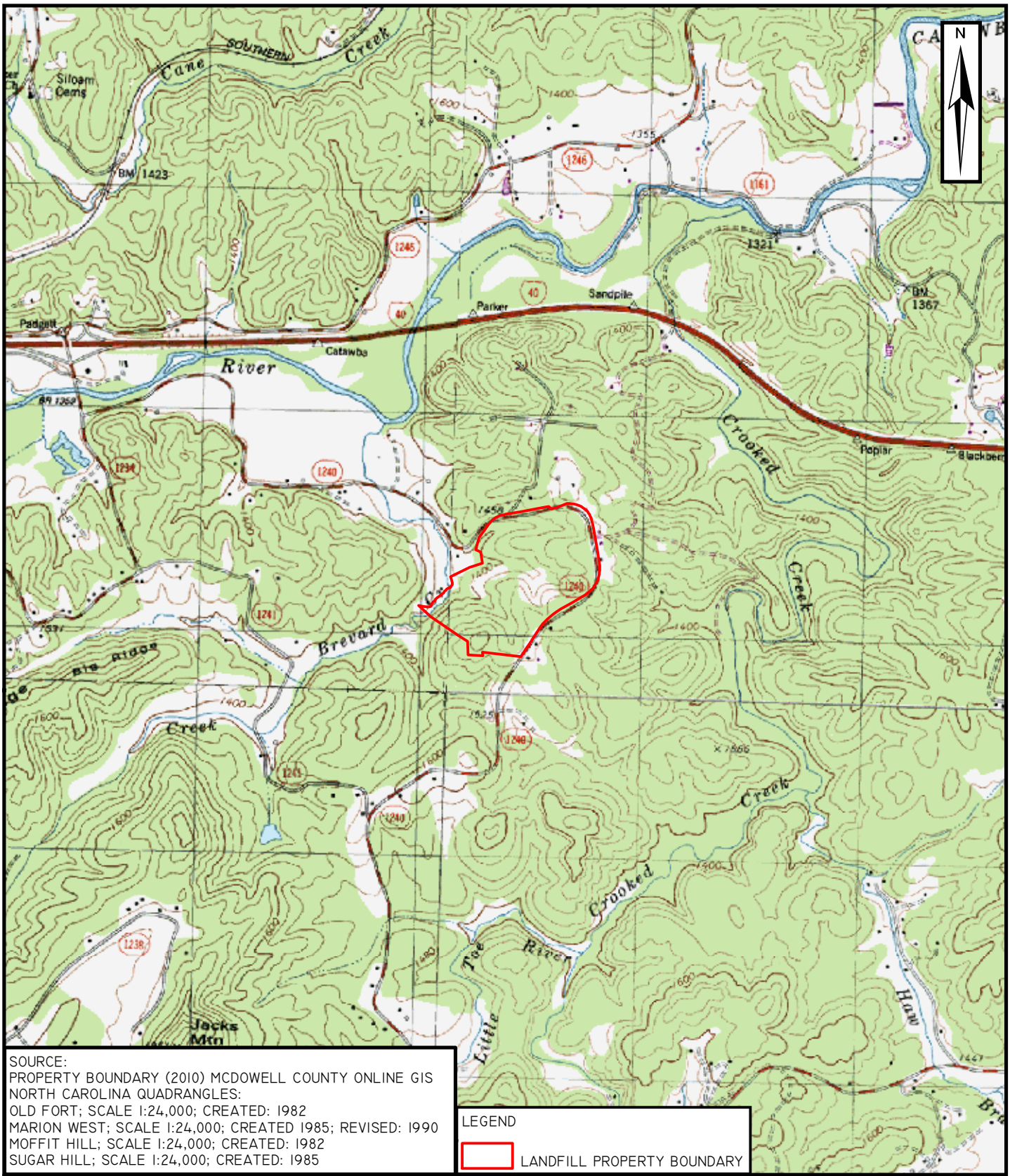
5.0 References

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

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

RJN Environmental, Inc. June 7, 2011. *Final Investigation Report*.

FIGURES



SOURCE:
PROPERTY BOUNDARY (2010) MCDOWELL COUNTY ONLINE GIS
NORTH CAROLINA QUADRANGLES:
OLD FORT; SCALE 1:24,000; CREATED: 1982
MARION WEST; SCALE 1:24,000; CREATED 1985; REVISED: 1990
MOFFIT HILL; SCALE 1:24,000; CREATED: 1982
SUGAR HILL; SCALE 1:24,000; CREATED: 1985

LEGEND

LANDFILL PROPERTY BOUNDARY

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

SITE LOCATION MAP

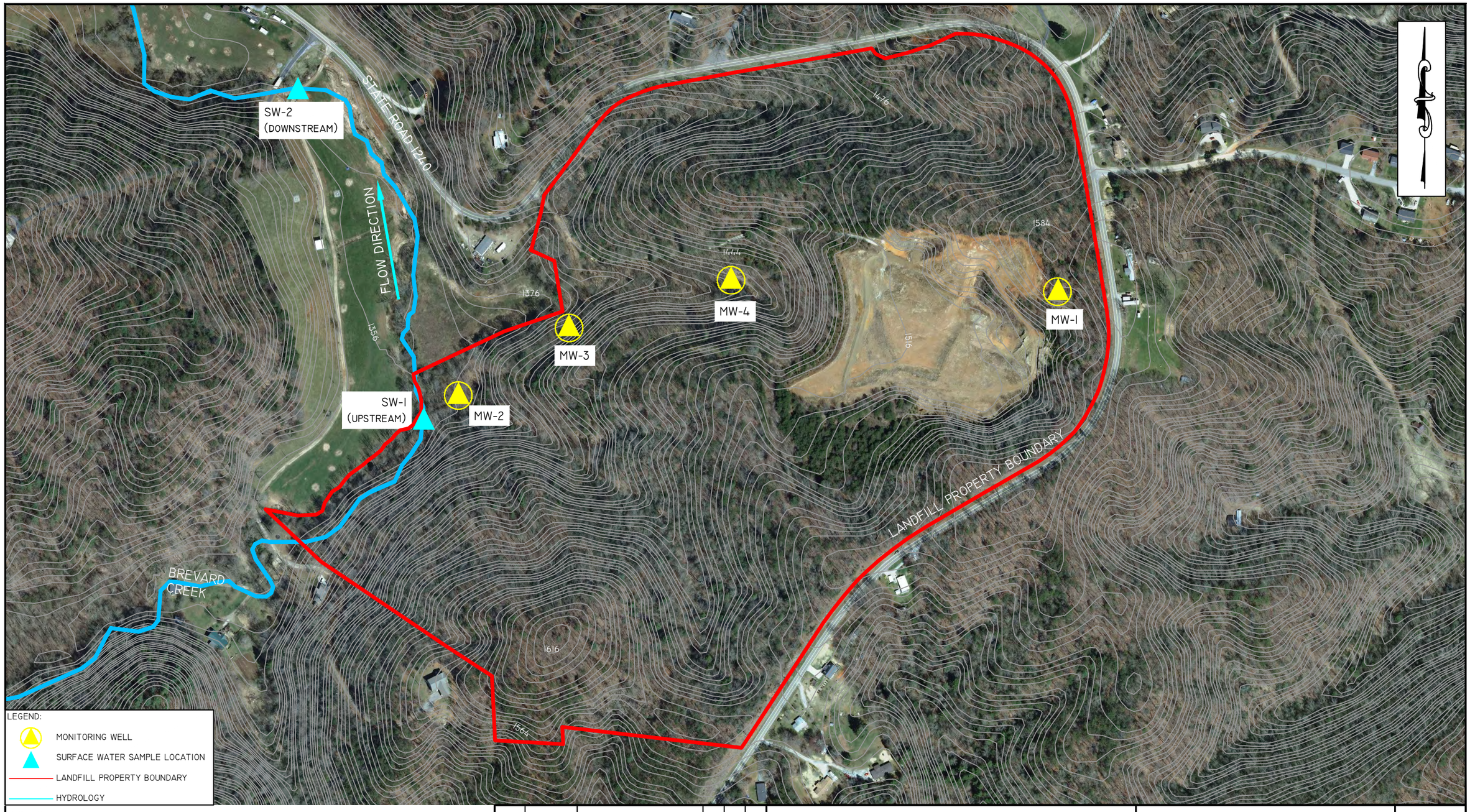
OLD FORT LANDFILL
PERMIT NUMBER 56-03
STATE ROAD 1240, OLD FORT
MCDOWELL COUNTY, NORTH CAROLINA

FIGURE
1

DRAWN BY: MARTA A. VANDUSSEN
PROJECT MANAGER: CHRIS GILBERT
CLIENT: IAC GROUP NORTH AMERICA
DATE: 12/06/2013

SCALE
0 500 1,000 2,000 FEET

FILE PATH: P:\PACE LABORATORY SERVICES\IAC GROUP\FIGURES\2013\FALL\OCT2013 FIGURE 1 SITE LOCATION MAP.MXD



NOTES:
1. LANDFILL PROPERTY BOUNDARY OBTAINED FROM MCDOWELL COUNTY ONLINE GIS (2010).
2. TOPOGRAPHY OBTAINED FROM NC DOT ONLINE GIS (MAY 2007 LIDAR).
3. AERIAL IMAGERY OBTAINED FROM NC ONE MAP DATA DOWNLOAD WEBSITE (2010).
4. STREAM AND RIVERS LAYER OBTAINED FROM NC DENR ONLINE GIS.
5. MONITORING WELL LOCATIONS ARE BASED ON THE SITE PLAN MAP PREPARED BY RJN ENVIRONMENTAL, INC. INCLUDED IN THE FINAL INVESTIGATION REPORT, DATED JUNE 7, 2011.
6. SURFACE WATER SAMPLE LOCATIONS CONFIRMED BY PACE STAFF.

REV.	DATE	DESCRIPTION	BY	CHK	APV

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

DRAWN BY: MARTA A. VANDUSSEN
PROJECT MANAGER: CHRIS GILBERT
CLIENT: IAC GROUP NORTH AMERICA
DATE: 12/13/2013

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

SAMPLE LOCATION MAP

OLD FORT LANDFILL
PERMIT NUMBER 56-03
STATE ROAD 1240, OLD FORT
MCDOWELL COUNTY. NORTH CAROLINA

FIGURE
2

P:\PACE LABORATORY SERVICES, IAC GROUP\FIGURES\2013\FALL\OCT2013 FIGURE 2 SAMPLE LOCATION MAP.DWG

TABLES

Table 1
Summary of Laboratory Analyses Performed on Samples
Old Fort Landfill, McDowell County, North Carolina

GROUNDWATER SAMPLES

FACILITY PERMIT	WELL ID	COLLECT DATE	METALS	
			EPA 200.7	EPA 245.1
56-03	MW-1	10/31/2013	X	X
56-03	MW-2	10/31/2013	X	X
56-03	MW-3	10/31/2013	X	X
56-03	MW-4	10/31/2013	X	X

SURFACE WATER SAMPLES

FACILITY PERMIT	SAMPLE ID	COLLECT DATE	METALS	
			EPA 200.7	EPA 245.1
56-03	SW-1 Upstream	10/31/2013	X	X
56-03	SW-2 Downstream	10/31/2013	X	X

QUALITY CONTROL SAMPLE

FACILITY PERMIT	SAMPLE ID	COLLECT DATE	METALS	
			EPA 200.7	EPA 245.1
56-03	EQUIP BLANK	10/31/2013	X	X

Notes:

1. Metals analysis include the following RCRA metals: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver, per December 18, 1997 *Water Quality Monitoring Plan* and permit requirements.
2. Field Parameters include the following: pH, temperature, turbidity, static water level, and specific conductance.

Table 2
Solid Waste Section Limits Exceedances Notification
Old Fort Landfill, McDowell County, North Carolina

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	RESULT	UNITS	METHOD	MDL	MRL	SWSL	COLLECT DATE
56-03	MW-1	7440-39-3	15	Barium	142	µg/L	EPA 200.7	0.20	5.0	100	10/31/2013
56-03	MW-1	7440-47-3	51	Chromium	10.9	µg/L	EPA 200.7	0.40	5.0	10	10/31/2013
56-03	MW-3	7440-39-3	15	Barium	325	µg/L	EPA 200.7	0.20	5.0	100	10/31/2013
56-03	MW-3	7440-47-3	51	Chromium	16.8	µg/L	EPA 200.7	0.40	5.0	10	10/31/2013

Notes:

1. "CAS NUMBER" is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters.
2. "SWS ID" is the Solid Waste Section Identification Number.
3. "RESULT" is the analytical data reported by the laboratory.
4. "UNITS" are micrograms per liter (µg/L) for analytical results.
5. "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. "COLLECT DATE" is the date on which the sample was collected in the field.
10. Grayed cells indicate result in exceedance of the 2L or Interim Maximum Allowable Concentration (IMAC) standards.
11. 2L Standard and IMAC are from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (Amended April 1, 2013).

Table 3
Water Quality Standards Exceedances Notification
Old Fort Landfill, McDowell County, North Carolina

FACILITY PERMIT	WELL ID	CAS NUMBER	SWS ID	PARAMETER	RESULT	UNITS	METHOD	MDL	MRL	SWSL	GROUNDWATER QUALITY STANDARD	COLLECT DATE	CAUSE AND SIGNIFICANCE
56-03	MW-1	7440-47-3	51	Chromium	10.9	µg/L	EPA 200.7	0.40	5.0	10	10	10/31/2013	Naturally occurring.
56-03	MW-1	SW320	320	Field pH	5.9	SU		0.10	0.10	NE	6.5 - 8.5	10/31/2013	Consistent with historical pH readings.
56-03	MW-2	SW320	320	Field pH	6.2	SU		0.10	0.10	NE	6.5 - 8.5	10/31/2013	Consistent with historical pH readings.
56-03	MW-3	7440-47-3	51	Chromium	16.8	µg/L	EPA 200.7	0.40	5.0	10	10	10/31/2013	Naturally occurring.
56-03	MW-3	SW320	320	Field pH	5.9	SU		0.10	0.10	NE	6.5 - 8.5	10/31/2013	Consistent with historical pH readings.
56-03	MW-4	SW320	320	Field pH	5.3	SU		0.10	0.10	NE	6.5 - 8.5	10/31/2013	Consistent with historical pH readings.

Notes:

1. "CAS NUMBER" is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters.
2. "SWS ID" is the Solid Waste Section Identification Number.
3. "RESULT" is the analytical data reported by the laboratory.
4. "UNITS" are micrograms per liter (µg/L) for analytical results, and Standard Units (SU) for pH.
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. "GROUNDWATER QUALITY STANDARD" refers to the 2L Standard or Interim Maximum Allowable Concentration (IMAC).
10. "COLLECT DATE" is the date on which the sample was collected in the field.
11. "NE" means Not Established.
12. 2L Standard and IMAC are from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," DENR (Amended April 1, 2013).

APPENDICES

APPENDIX A

Report of Laboratory Analysis
and
Chain-of-Custody Documentation

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

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

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

November 15, 2013

Ms. Carolyn Bradley
IAC of North America
Hwy 70 E
Old Fort, NC 28762

RE: Project: Landfill MWs 10/31/13
Pace Project No.: 92177829

Dear Ms. Bradley:
Enclosed are the analytical results for sample(s) received by the laboratory on October 31, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,

Tom Williams

tom.williams@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: Landfill MWs 10/31/13
Pace Project No.: 92177829

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
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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

SAMPLE SUMMARY

Project: Landfill MWs 10/31/13
Pace Project No.: 92177829

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92177829001	**MW-1**	Water	10/31/13 13:45	10/31/13 16:22
92177829002	**MW-2**	Water	10/31/13 13:00	10/31/13 16:22
92177829003	**MW-3**	Water	10/31/13 13:10	10/31/13 16:22
92177829004	**MW-4**	Water	10/31/13 13:25	10/31/13 16:22
92177829005	**SW-1 UPSTREAM**	Water	10/31/13 12:50	10/31/13 16:22
92177829006	**SW-2 DOWNSTREAM**	Water	10/31/13 13:55	10/31/13 16:22
92177829007	**EQUIP BLANK**	Water	10/31/13 00:00	10/31/13 16:22

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SAMPLE ANALYTE COUNT

Project: Landfill MWs 10/31/13
Pace Project No.: 92177829

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92177829001	**MW-1**	EPA 200.7	JMW	7	PASI-A
		EPA 245.1	MTS	1	PASI-A
92177829002	**MW-2**	EPA 200.7	JMW	7	PASI-A
		EPA 245.1	MTS	1	PASI-A
92177829003	**MW-3**	EPA 200.7	JMW	7	PASI-A
		EPA 245.1	MTS	1	PASI-A
92177829004	**MW-4**	EPA 200.7	JMW	7	PASI-A
		EPA 245.1	MTS	1	PASI-A
92177829005	**SW-1 UPSTREAM**	EPA 200.7	JMW	7	PASI-A
		EPA 245.1	MTS	1	PASI-A
92177829006	**SW-2 DOWNSTREAM**	EPA 200.7	JMW	7	PASI-A
		EPA 245.1	MTS	1	PASI-A
92177829007	**EQUIP BLANK**	EPA 200.7	JMW	7	PASI-A
		EPA 245.1	MTS	1	PASI-A

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ANALYTICAL RESULTS

Project: Landfill MWs 10/31/13
Pace Project No.: 92177829

Sample: MW-1 **Lab ID: 92177829001** Collected: 10/31/13 13:45 Received: 10/31/13 16:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:								
Collected By	**MPS**				1		11/14/13 08:39		
Collected Date	**10/31/13**				1		11/14/13 08:39		
Collected Time	**13:45**				1		11/14/13 08:39		
Field pH	**5.9**	Std. Units	0.10	0.10	1		11/14/13 08:39		
Field Temperature	**14.5**	deg C	0.50	0.50	1		11/14/13 08:39		
Static Water Level	**45.57**	feet			1		11/14/13 08:39		
Field Specific Conductance	**18**	umhos/cm	1.0	1.0	1		11/14/13 08:39		
Turbidity	**229**	NTU	1.0	1.0	1		11/14/13 08:39		
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	10.0	2.7	1	11/01/13 08:45	11/02/13 04:26	7440-38-2	
Barium	**142**	ug/L	5.0	0.20	1	11/01/13 08:45	11/02/13 04:26	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	11/01/13 08:45	11/02/13 04:26	7440-43-9	
Chromium	**10.9**	ug/L	5.0	0.40	1	11/01/13 08:45	11/02/13 04:26	7440-47-3	
Lead	**7.5**	ug/L	5.0	4.0	1	11/01/13 08:45	11/02/13 04:26	7439-92-1	
Selenium	ND	ug/L	10.0	3.8	1	11/01/13 08:45	11/02/13 04:26	7782-49-2	
Silver	**0.38J**	ug/L	5.0	0.10	1	11/01/13 08:45	11/02/13 04:26	7440-22-4	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	ND	ug/L	0.20	0.070	1	11/01/13 16:25	11/04/13 19:42	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Landfill MWs 10/31/13
Pace Project No.: 92177829

Sample: MW-2 **Lab ID: 92177829002** Collected: 10/31/13 13:00 Received: 10/31/13 16:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:								
Collected By	**MPS**				1		11/14/13 08:39		
Collected Date	**10/31/13**				1		11/14/13 08:39		
Collected Time	**13:00**				1		11/14/13 08:39		
Field pH	**6.2**	Std. Units	0.10	0.10	1		11/14/13 08:39		
Field Temperature	**14.4**	deg C	0.50	0.50	1		11/14/13 08:39		
Static Water Level	**11.38**	feet			1		11/14/13 08:39		
Field Specific Conductance	**114**	umhos/cm	1.0	1.0	1		11/14/13 08:39		
Turbidity	**1.26**	NTU	1.0	1.0	1		11/14/13 08:39		
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	10.0	2.7	1	11/01/13 08:45	11/02/13 04:29	7440-38-2	
Barium	**43.3**	ug/L	5.0	0.20	1	11/01/13 08:45	11/02/13 04:29	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	11/01/13 08:45	11/02/13 04:29	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	11/01/13 08:45	11/02/13 04:29	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	11/01/13 08:45	11/02/13 04:29	7439-92-1	
Selenium	ND	ug/L	10.0	3.8	1	11/01/13 08:45	11/02/13 04:29	7782-49-2	
Silver	**0.50J**	ug/L	5.0	0.10	1	11/01/13 08:45	11/02/13 04:29	7440-22-4	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	**0.085J**	ug/L	0.20	0.070	1	11/01/13 16:25	11/04/13 19:44	7439-97-6	

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ANALYTICAL RESULTS

Project: Landfill MWs 10/31/13
Pace Project No.: 92177829

Sample: MW-3 **Lab ID: 92177829003** Collected: 10/31/13 13:10 Received: 10/31/13 16:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:								
Collected By	**MPS**				1		11/14/13 08:41		
Collected Date	**10/31/13**				1		11/14/13 08:41		
Collected Time	**13:10**				1		11/14/13 08:41		
Field pH	**5.9**	Std. Units	0.10	0.10	1		11/14/13 08:41		
Field Temperature	**14.3**	deg C	0.50	0.50	1		11/14/13 08:41		
Static Water Level	**16.85**	feet			1		11/14/13 08:41		
Field Specific Conductance	**75**	umhos/cm	1.0	1.0	1		11/14/13 08:41		
Turbidity	**688**	NTU	1.0	1.0	1		11/14/13 08:41		
Odor	**NONE**				1		11/14/13 08:41		
Appearance	**MUDDY**				1		11/14/13 08:41		
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	10.0	2.7	1	11/01/13 08:45	11/02/13 04:33	7440-38-2	
Barium	**325**	ug/L	5.0	0.20	1	11/01/13 08:45	11/02/13 04:33	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	11/01/13 08:45	11/02/13 04:33	7440-43-9	
Chromium	**16.8**	ug/L	5.0	0.40	1	11/01/13 08:45	11/02/13 04:33	7440-47-3	
Lead	**8.6**	ug/L	5.0	4.0	1	11/01/13 08:45	11/02/13 04:33	7439-92-1	
Selenium	ND	ug/L	10.0	3.8	1	11/01/13 08:45	11/02/13 04:33	7782-49-2	
Silver	**0.58J**	ug/L	5.0	0.10	1	11/01/13 08:45	11/02/13 04:33	7440-22-4	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	ND	ug/L	0.20	0.070	1	11/01/13 16:25	11/04/13 19:47	7439-97-6	

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ANALYTICAL RESULTS

Project: Landfill MWs 10/31/13
Pace Project No.: 92177829

Sample: MW-4 **Lab ID: 92177829004** Collected: 10/31/13 13:25 Received: 10/31/13 16:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:								
Collected By	**MPS**				1		11/14/13 08:43		
Collected Date	**10/31/13**				1		11/14/13 08:43		
Collected Time	**13:25**				1		11/14/13 08:43		
Field pH	**5.3**	Std. Units	0.10	0.10	1		11/14/13 08:43		
Field Temperature	**16.1**	deg C	0.50	0.50	1		11/14/13 08:43		
Static Water Level	**11.85**	feet			1		11/14/13 08:43		
Field Specific Conductance	**32**	umhos/cm	1.0	1.0	1		11/14/13 08:43		
Turbidity	**11.6**	NTU	1.0	1.0	1		11/14/13 08:43		
Odor	**NONE**				1		11/14/13 08:43		
Appearance	**CLEAR**				1		11/14/13 08:43		
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	10.0	2.7	1	11/01/13 08:45	11/02/13 04:36	7440-38-2	
Barium	**38.1**	ug/L	5.0	0.20	1	11/01/13 08:45	11/02/13 04:36	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	11/01/13 08:45	11/02/13 04:36	7440-43-9	
Chromium	**2.0J**	ug/L	5.0	0.40	1	11/01/13 08:45	11/02/13 04:36	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	11/01/13 08:45	11/02/13 04:36	7439-92-1	
Selenium	ND	ug/L	10.0	3.8	1	11/01/13 08:45	11/02/13 04:36	7782-49-2	
Silver	**0.38J**	ug/L	5.0	0.10	1	11/01/13 08:45	11/02/13 04:36	7440-22-4	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	ND	ug/L	0.20	0.070	1	11/01/13 16:25	11/04/13 19:50	7439-97-6	

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ANALYTICAL RESULTS

Project: Landfill MWs 10/31/13
Pace Project No.: 92177829

Sample: SW-1 UPSTREAM **Lab ID: 92177829005** Collected: 10/31/13 12:50 Received: 10/31/13 16:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:								
Collected By	**MPS**				1		11/14/13 08:56		
Collected Date	**10/31/13**				1		11/14/13 08:56		
Collected Time	**12:50**				1		11/14/13 08:56		
Field pH	**6.8**	Std. Units	0.10	0.10	1		11/14/13 08:56		
Field Temperature	**13.8**	deg C	0.50	0.50	1		11/14/13 08:56		
Field Specific Conductance	**47**	umhos/cm	1.0	1.0	1		11/14/13 08:56		
Turbidity	**2.48**	NTU	1.0	1.0	1		11/14/13 08:56		
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	10.0	2.7	1	11/01/13 08:45	11/02/13 04:56	7440-38-2	
Barium	**18.5**	ug/L	5.0	0.20	1	11/01/13 08:45	11/02/13 04:56	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	11/01/13 08:45	11/02/13 04:56	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	11/01/13 08:45	11/02/13 04:56	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	11/01/13 08:45	11/02/13 04:56	7439-92-1	
Selenium	ND	ug/L	10.0	3.8	1	11/01/13 08:45	11/02/13 04:56	7782-49-2	
Silver	**0.39J**	ug/L	5.0	0.10	1	11/01/13 08:45	11/02/13 04:56	7440-22-4	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	ND	ug/L	0.20	0.070	1	11/01/13 16:25	11/04/13 19:52	7439-97-6	

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ANALYTICAL RESULTS

Project: Landfill MWs 10/31/13
Pace Project No.: 92177829

Sample: SW-2 DOWNSTREAM **Lab ID: 92177829006** Collected: 10/31/13 13:55 Received: 10/31/13 16:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Monitoring Well Data	Analytical Method:								
Collected By	**MPS**				1		11/14/13 08:57		
Collected Date	**10/31/13**				1		11/14/13 08:57		
Collected Time	**13:55**				1		11/14/13 08:57		
Field pH	**6.7**	Std. Units	0.10	0.10	1		11/14/13 08:57		
Field Temperature	**14.0**	deg C	0.50	0.50	1		11/14/13 08:57		
Field Specific Conductance	**52**	umhos/cm	1.0	1.0	1		11/14/13 08:57		
Turbidity	**0.95**	NTU	1.0	1.0	1		11/14/13 08:57		
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	10.0	2.7	1	11/01/13 08:45	11/02/13 05:00	7440-38-2	
Barium	**25.4**	ug/L	5.0	0.20	1	11/01/13 08:45	11/02/13 05:00	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	11/01/13 08:45	11/02/13 05:00	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	11/01/13 08:45	11/02/13 05:00	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	11/01/13 08:45	11/02/13 05:00	7439-92-1	
Selenium	ND	ug/L	10.0	3.8	1	11/01/13 08:45	11/02/13 05:00	7782-49-2	
Silver	**0.33J**	ug/L	5.0	0.10	1	11/01/13 08:45	11/02/13 05:00	7440-22-4	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	ND	ug/L	0.20	0.070	1	11/01/13 16:25	11/04/13 19:55	7439-97-6	

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ANALYTICAL RESULTS

Project: Landfill MWs 10/31/13
Pace Project No.: 92177829

Sample: EQUIP BLANK **Lab ID: 92177829007** Collected: 10/31/13 00:00 Received: 10/31/13 16:22 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Arsenic	ND	ug/L	10.0	2.7	1	11/01/13 08:45	11/02/13 05:03	7440-38-2	
Barium	ND	ug/L	5.0	0.20	1	11/01/13 08:45	11/02/13 05:03	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	11/01/13 08:45	11/02/13 05:03	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	11/01/13 08:45	11/02/13 05:03	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	11/01/13 08:45	11/02/13 05:03	7439-92-1	
Selenium	ND	ug/L	10.0	3.8	1	11/01/13 08:45	11/02/13 05:03	7782-49-2	
Silver	**0.37J**	ug/L	5.0	0.10	1	11/01/13 08:45	11/02/13 05:03	7440-22-4	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	ND	ug/L	0.20	0.070	1	11/01/13 16:25	11/04/13 19:58	7439-97-6	

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QUALITY CONTROL DATA

Project: Landfill MWs 10/31/13
Pace Project No.: 92177829

QC Batch: MERP/5767 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 92177829001, 92177829002, 92177829003, 92177829004, 92177829005, 92177829006, 92177829007

METHOD BLANK: 1077874 Matrix: Water
Associated Lab Samples: 92177829001, 92177829002, 92177829003, 92177829004, 92177829005, 92177829006, 92177829007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	0.077J	0.20	11/04/13 19:02	

LABORATORY CONTROL SAMPLE: 1077875

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.4	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1077876 1077877

Parameter	Units	92177524001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	6.8	2.5	2.5	8.8	8.7	79	77	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1077878 1077879

Parameter	Units	92177698003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.4	2.4	92	92	70-130	1	20	

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QUALITY CONTROL DATA

Project: Landfill MWs 10/31/13
Pace Project No.: 92177829

QC Batch: MPRP/14557 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET
Associated Lab Samples: 92177829001, 92177829002, 92177829003, 92177829004, 92177829005, 92177829006, 92177829007

METHOD BLANK: 1077215 Matrix: Water
Associated Lab Samples: 92177829001, 92177829002, 92177829003, 92177829004, 92177829005, 92177829006, 92177829007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	11/02/13 03:38	
Barium	ug/L	0.21J	5.0	11/02/13 03:38	
Cadmium	ug/L	ND	1.0	11/02/13 03:38	
Chromium	ug/L	ND	5.0	11/02/13 03:38	
Lead	ug/L	ND	5.0	11/02/13 03:38	
Selenium	ug/L	ND	10.0	11/03/13 16:03	
Silver	ug/L	0.26J	5.0	11/02/13 03:38	

LABORATORY CONTROL SAMPLE: 1077216

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	476	95	85-115	
Barium	ug/L	500	470	94	85-115	
Cadmium	ug/L	500	474	95	85-115	
Chromium	ug/L	500	472	94	85-115	
Lead	ug/L	500	467	93	85-115	
Selenium	ug/L	500	485	97	85-115	
Silver	ug/L	250	231	92	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1077217 1077218

Parameter	Units	92177684003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	500	500	485	477	97	95	70-130	2	20	
Barium	ug/L	44.5	500	500	523	517	96	94	70-130	1	20	
Cadmium	ug/L	ND	500	500	474	466	95	93	70-130	2	20	
Chromium	ug/L	ND	500	500	482	472	96	94	70-130	2	20	
Lead	ug/L	ND	500	500	459	454	92	91	70-130	1	20	
Selenium	ug/L	ND	500	500	469	467	94	93	70-130	0	20	
Silver	ug/L	ND	250	250	233	229	93	91	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1077219 1077220

Parameter	Units	92177829004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	500	500	470	483	94	97	70-130	3	20	
Barium	ug/L	38.1	500	500	503	508	93	94	70-130	1	20	
Cadmium	ug/L	ND	500	500	467	475	93	95	70-130	2	20	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Landfill MWs 10/31/13
Pace Project No.: 92177829

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1077219 1077220

Parameter	Units	92177829004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	ug/L	2.0J	500	500	473	472	94	94	70-130	0	20	
Lead	ug/L	ND	500	500	456	465	91	93	70-130	2	20	
Selenium	ug/L	ND	500	500	464	481	93	96	70-130	4	20	
Silver	ug/L	0.38J	250	250	230	233	92	93	70-130	1	20	

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALIFIERS

Project: Landfill MWs 10/31/13
Pace Project No.: 92177829

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.

PRL - Pace Reporting Limit.

RL - Reporting 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.

TNI - The NELAC Institute.

LABORATORIES

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

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

Pace Analytical Services, Inc.
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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 CROSS REFERENCE TABLE

Project: Landfill MWs 10/31/13
Pace Project No.: 92177829

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92177829001	**MW-1**		FLD/		
92177829002	**MW-2**		FLD/		
92177829003	**MW-3**		FLD/		
92177829004	**MW-4**		FLD/		
92177829005	**SW-1 UPSTREAM**		FLD/		
92177829006	**SW-2 DOWNSTREAM**		FLD/		
92177829001	**MW-1**	EPA 200.7	MPRP/14557	EPA 200.7	ICP/13233
92177829002	**MW-2**	EPA 200.7	MPRP/14557	EPA 200.7	ICP/13233
92177829003	**MW-3**	EPA 200.7	MPRP/14557	EPA 200.7	ICP/13233
92177829004	**MW-4**	EPA 200.7	MPRP/14557	EPA 200.7	ICP/13233
92177829005	**SW-1 UPSTREAM**	EPA 200.7	MPRP/14557	EPA 200.7	ICP/13233
92177829006	**SW-2 DOWNSTREAM**	EPA 200.7	MPRP/14557	EPA 200.7	ICP/13233
92177829007	**EQUIP BLANK**	EPA 200.7	MPRP/14557	EPA 200.7	ICP/13233
92177829001	**MW-1**	EPA 245.1	MERP/5767	EPA 245.1	MERC/5580
92177829002	**MW-2**	EPA 245.1	MERP/5767	EPA 245.1	MERC/5580
92177829003	**MW-3**	EPA 245.1	MERP/5767	EPA 245.1	MERC/5580
92177829004	**MW-4**	EPA 245.1	MERP/5767	EPA 245.1	MERC/5580
92177829005	**SW-1 UPSTREAM**	EPA 245.1	MERP/5767	EPA 245.1	MERC/5580
92177829006	**SW-2 DOWNSTREAM**	EPA 245.1	MERP/5767	EPA 245.1	MERC/5580
92177829007	**EQUIP BLANK**	EPA 245.1	MERP/5767	EPA 245.1	MERC/5580

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1748336

Section A
Required Client Information:

Company: ~~IEA~~ IAC	
Address: Old Fort NC	
Email To:	
Phone: 668-7601	Fax:
Requested Due Date/TAT:	

Section B
Required Project Information:

Report To: Steve Davis	
Copy To:	
Purchase Order No.:	
Project Name: LANDFILL	
Project Number:	

Section C
Invoice Information:

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

REGULATORY AGENCY

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

Site Location STATE: NC

Section D
Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	pH Tmp / Sp Cond	Turb	Static H2O	Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92177829
1	MW-1					10-31-13	1345		1			1							X	X	X	X		-001
2	MW-2					10-31	1300		1			1							X	X	X	X		-002
3	MW-3					10-31	1310		1			1							X	X	X	X		-003
4	MW-4					10-31	1325		1			1							X	X	X	X		-004
5	SW-1 UPSTREAM					10-31	1250		1			1							X	X		X		-005
6	SW-2 DOWNSTREAM					10-31	1355		1			1							X	X		✓		-006
7	EQUIP BLK					10-31			1			1												
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Carolyn Bradley	10-31-13	1410	[signature] Pace	10-31-13	1410				
	[signature] Pace	10-31-13	1622	[signature]	10/31	1622	3.1	Y	✓	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: Mark P. Swann
SIGNATURE of SAMPLER: [signature] Pace
DATE Signed (MM/DD/YY): 10-31-13

*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: June 4, 2013 Page 1 of 2
	Document No.: F-ASV-CS-003-rev.11	Issuing Authorities: Pace Asheville Quality Office

Client Name: IAC

Where Received: ☐ Huntersville ☒ Asheville ☐ Eden ☐ Raleigh

Courier (Circle): 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_____

Circle Thermometer Used: IR Gun#3 -130265963 IR Gun #2- 80344039 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract 0.1 C

Corrected Cooler Temp.: 3.1 C **Biological Tissue is Frozen:** Yes No N/A

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

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

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

SRF Review: DW **Date:** 11/8

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)

Place label here

WO# : 92177829

92177829

APPENDIX B

Environmental Monitoring Reporting Form and Electronic Submittal of Environmental Monitoring Data 5603Oct2013

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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Altamont Environmental, Inc.

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

Name: Marta A. VanDussen, EIT Phone: 828-281-3350

E-mail: mvandussen@altamontenvironmental.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Old Fort Industrial Solid Waste Landfill	State Road 1240, Old Fort McDowell County, North Carolina	56-03	.0500	October 31, 2013

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Robert W. Hastings P.G. 828-281-3350

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

Affix NC Licensed/ Professional Geologist Seal

Signature 1/22/14 Date

231 Haywood Street, Asheville, North Carolina 28801

Facility Representative Address

C-2185

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

Revised 6/2009

56030ct2013EDD

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
56-03	5603-MW1	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 200.7	2.7	10.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW1	7440-39-3	15	Barium	142	ug/L		EPA 200.7	0.20	5.0	100	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW1	7440-43-9	34	Cadmium	0.50	ug/L	U	EPA 200.7	0.50	1.0	1	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW1	7440-47-3	51	Chromium	10.9	ug/L		EPA 200.7	0.40	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW1	7439-92-1	131	Lead	7.5	ug/L	J	EPA 200.7	4.0	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW1	7439-97-6	132	Mercury	0.070	ug/L	U	EPA 245.1	0.070	0.20	0.2	1	10/31/2013	11/01/2013	11/04/2013	40
56-03	5603-MW1	7782-49-2	183	Selenium	3.8	ug/L	U	EPA 200.7	3.8	10.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW1	7440-22-4	184	Silver	0.38	ug/L	J	EPA 200.7	0.10	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW1	SW320	320	Field pH	5.9	SU			0.10	0.10	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-MW1	SW323	323	Field Specific Conductance	18	umhos/cm			1.0	1.0	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-MW1	SW325	325	Field Temperature	14.5	deg C			0.50	0.50	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-MW1	SW318	318	Static Water Level	45.57	feet					NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-MW1	SW330	330	Turbidity	229	NTU			1.0	1.0	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-MW2	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 200.7	2.7	10.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW2	7440-39-3	15	Barium	43.3	ug/L	J	EPA 200.7	0.20	5.0	100	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW2	7440-43-9	34	Cadmium	0.50	ug/L	U	EPA 200.7	0.50	1.0	1	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW2	7440-47-3	51	Chromium	0.40	ug/L	U	EPA 200.7	0.40	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW2	7439-92-1	131	Lead	4.0	ug/L	U	EPA 200.7	4.0	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW2	7439-97-6	132	Mercury	0.085	ug/L	J	EPA 245.1	0.070	0.20	0.2	1	10/31/2013	11/01/2013	11/04/2013	40
56-03	5603-MW2	7782-49-2	183	Selenium	3.8	ug/L	U	EPA 200.7	3.8	10.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW2	7440-22-4	184	Silver	0.50	ug/L	J	EPA 200.7	0.10	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW2	SW320	320	Field pH	6.2	SU			0.10	0.10	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-MW2	SW323	323	Field Specific Conductance	114	umhos/cm			1.0	1.0	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-MW2	SW325	325	Field Temperature	14.4	deg C			0.50	0.50	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-MW2	SW318	318	Static Water Level	11.38	feet					NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-MW2	SW330	330	Turbidity	1.26	NTU			1.0	1.0	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-MW3	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 200.7	2.7	10.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW3	7440-39-3	15	Barium	325	ug/L		EPA 200.7	0.20	5.0	100	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW3	7440-43-9	34	Cadmium	0.50	ug/L	U	EPA 200.7	0.50	1.0	1	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW3	7440-47-3	51	Chromium	16.8	ug/L		EPA 200.7	0.40	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW3	7439-92-1	131	Lead	8.6	ug/L	J	EPA 200.7	4.0	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW3	7439-97-6	132	Mercury	0.070	ug/L	U	EPA 245.1	0.070	0.20	0.2	1	10/31/2013	11/01/2013	11/04/2013	40
56-03	5603-MW3	7782-49-2	183	Selenium	3.8	ug/L	U	EPA 200.7	3.8	10.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW3	7440-22-4	184	Silver	0.58	ug/L	J	EPA 200.7	0.10	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW3	SW320	320	Field pH	5.9	SU			0.10	0.10	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-MW3	SW323	323	Field Specific Conductance	75	umhos/cm			1.0	1.0	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-MW3	SW325	325	Field Temperature	14.3	deg C			0.50	0.50	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-MW3	SW318	318	Static Water Level	16.85	feet					NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-MW3	SW330	330	Turbidity	688	NTU			1.0	1.0	NE	1	10/31/2013	11/14/2013	11/14/2013	

56030ct2013EDD

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
56-03	5603-MW4	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 200.7	2.7	10.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW4	7440-39-3	15	Barium	38.1	ug/L	J	EPA 200.7	0.20	5.0	100	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW4	7440-43-9	34	Cadmium	0.50	ug/L	U	EPA 200.7	0.50	1.0	1	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW4	7440-47-3	51	Chromium	2.0	ug/L	J	EPA 200.7	0.40	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW4	7439-92-1	131	Lead	4.0	ug/L	U	EPA 200.7	4.0	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW4	7439-97-6	132	Mercury	0.070	ug/L	U	EPA 245.1	0.070	0.20	0.2	1	10/31/2013	11/01/2013	11/04/2013	40
56-03	5603-MW4	7782-49-2	183	Selenium	3.8	ug/L	U	EPA 200.7	3.8	10.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW4	7440-22-4	184	Silver	0.38	ug/L	J	EPA 200.7	0.10	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-MW4	SW320	320	Field pH	5.3	SU			0.10	0.10	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-MW4	SW323	323	Field Specific Conductance	32	umhos/cm			1.0	1.0	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-MW4	SW325	325	Field Temperature	16.1	deg C			0.50	0.50	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-MW4	SW318	318	Static Water Level	11.85	feet					NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-MW4	SW330	330	Turbidity	11.6	NTU			1.0	1.0	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-SW1UPSTREAM	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 200.7	2.7	10.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-SW1UPSTREAM	7440-39-3	15	Barium	18.5	ug/L	J	EPA 200.7	0.20	5.0	100	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-SW1UPSTREAM	7440-43-9	34	Cadmium	0.50	ug/L	U	EPA 200.7	0.50	1.0	1	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-SW1UPSTREAM	7440-47-3	51	Chromium	0.40	ug/L	U	EPA 200.7	0.40	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-SW1UPSTREAM	7439-92-1	131	Lead	4.0	ug/L	U	EPA 200.7	4.0	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-SW1UPSTREAM	7439-97-6	132	Mercury	0.070	ug/L	U	EPA 245.1	0.070	0.20	0.2	1	10/31/2013	11/01/2013	11/04/2013	40
56-03	5603-SW1UPSTREAM	7782-49-2	183	Selenium	3.8	ug/L	U	EPA 200.7	3.8	10.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-SW1UPSTREAM	7440-22-4	184	Silver	0.39	ug/L	J	EPA 200.7	0.10	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-SW1UPSTREAM	SW320	320	Field pH	6.8	SU			0.10	0.10	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-SW1UPSTREAM	SW323	323	Field Specific Conductance	47	umhos/cm			1.0	1.0	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-SW1UPSTREAM	SW325	325	Field Temperature	13.8	deg C			0.50	0.50	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-SW1UPSTREAM	SW330	330	Turbidity	2.48	NTU			1.0	1.0	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-SW2DOWNSTREAM	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 200.7	2.7	10.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-SW2DOWNSTREAM	7440-39-3	15	Barium	25.4	ug/L	J	EPA 200.7	0.20	5.0	100	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-SW2DOWNSTREAM	7440-43-9	34	Cadmium	0.50	ug/L	U	EPA 200.7	0.50	1.0	1	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-SW2DOWNSTREAM	7440-47-3	51	Chromium	0.40	ug/L	U	EPA 200.7	0.40	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-SW2DOWNSTREAM	7439-92-1	131	Lead	4.0	ug/L	U	EPA 200.7	4.0	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-SW2DOWNSTREAM	7439-97-6	132	Mercury	0.070	ug/L	U	EPA 245.1	0.070	0.20	0.2	1	10/31/2013	11/01/2013	11/04/2013	40
56-03	5603-SW2DOWNSTREAM	7782-49-2	183	Selenium	3.8	ug/L	U	EPA 200.7	3.8	10.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-SW2DOWNSTREAM	7440-22-4	184	Silver	0.33	ug/L	J	EPA 200.7	0.10	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-SW2DOWNSTREAM	SW320	320	Field pH	6.7	SU			0.10	0.10	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-SW2DOWNSTREAM	SW323	323	Field Specific Conductance	52	umhos/cm			1.0	1.0	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-SW2DOWNSTREAM	SW325	325	Field Temperature	14.0	deg C			0.50	0.50	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-SW2DOWNSTREAM	SW330	330	Turbidity	0.95	NTU			1.0	1.0	NE	1	10/31/2013	11/14/2013	11/14/2013	
56-03	5603-EQUIPBLANK	7440-38-2	14	Arsenic	2.7	ug/L	U	EPA 200.7	2.7	10.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-EQUIPBLANK	7440-39-3	15	Barium	0.20	ug/L	U	EPA 200.7	0.20	5.0	100	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-EQUIPBLANK	7440-43-9	34	Cadmium	0.50	ug/L	U	EPA 200.7	0.50	1.0	1	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-EQUIPBLANK	7440-47-3	51	Chromium	0.40	ug/L	U	EPA 200.7	0.40	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-EQUIPBLANK	7439-92-1	131	Lead	4.0	ug/L	U	EPA 200.7	4.0	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-EQUIPBLANK	7439-97-6	132	Mercury	0.070	ug/L	U	EPA 245.1	0.070	0.20	0.2	1	10/31/2013	11/01/2013	11/04/2013	40
56-03	5603-EQUIPBLANK	7782-49-2	183	Selenium	3.8	ug/L	U	EPA 200.7	3.8	10.0	10	1	10/31/2013	11/01/2013	11/02/2013	40
56-03	5603-EQUIPBLANK	7440-22-4	184	Silver	0.37	ug/L	J	EPA 200.7	0.10	5.0	10	1	10/31/2013	11/01/2013	11/02/2013	40