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):

Richardson Smith Gardner and Associates, Inc.

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

Name: Joan A. Smyth, P.G. Phone: 919-828-0577 x 221

E-mail: joan@rsgengineers.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Avery Co. Closed MSW Landfill	Brushy Creek Rd Spruce Pine, NC	06-01	.0500	October 26, 2010

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Joan A. Smyth, P.G. — Facility Representative Name (Print)

Senior Hydrogeologist — Title

919-828-0577 x 221 — (Area Code) Telephone Number

Joan A. Smyth — Signature

12/23/10 — Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1369 GEOLOGIST JOAN A. SMYTH

12/23/10

14 N. Boylan Avenue Raleigh, NC 27603

Facility Representative Address

C0828

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

Revised 6/2009

Closed Avery County MSW Landfill

Ground Water Monitoring Report

Fall 2010 Semi-annual Monitoring Event

Avery County Landfill
Newland, North Carolina
NC Solid Waste Permit # 06-01

Prepared for:
Avery County Solid Waste
175 Linville St.
Newland, North Carolina 28657

December 2010

RICHARDSON SMITH GARDNER
& ASSOCIATES
ENGINEERING & GEOLOGICAL
SERVICES

PRINTED ON 100% RECYCLED PAPER

Fall 2010 Ground Water Monitoring Report

Avery County Closed MSW Landfill
Newland, North Carolina
NC Solid Waste Permit # 06-01

Prepared for:

Avery County Solid Waste
175 Linville st.
Newland, North Carolina 28657

RSG Project No. **Avery 10-1**

Joan A. Smyth, P.G.
Senior Hydrogeologist

NORTH CAROLINA LICENSED SEAL 1369 GEOLOGIST JOAN A. SMYTH

December 2010

RICHARDSON SMITH GARDNER & ASSOCIATES
ENGINEERING & GEOLOGICAL SERVICES

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Avery County – MSW Landfill
Semi-annual Ground Water Monitoring Report
Fall 2010 Sampling Event

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Appendix B – Monitoring Well Information
Appendix C – Laboratory Analytical Report

1.0 Introduction

Avery County is required to submit semi-annual ground water monitoring reports for the closed MSW landfill (permit # 06-01). This report, prepared by Richardson Smith Gardner and Associates, Inc (RSG), presents the results of the second semi-annual monitoring event for 2010. This event was performed to comply with the semi-annual monitoring schedule required by NC Solid Waste Regulations.

The ground water monitoring network for the MSW landfill includes three (3) ground water monitoring wells (MW-1, MW-2 & MW-3) and two surface water locations (SW-1 & SW-2). This report includes summaries of the field procedures and laboratory analyses for the MSW site. Also included are summary tables of the results and laboratory analytical reports.

2.0 Site Geology

The principal geologic units mapped in the immediate vicinity of the site include a mix of metamorphosed sedimentary and igneous rocks – termed *paragneiss* and *orthogneiss*, respectively – interlayered with contemporaneous schist, phyllite, and marble, later injected with various granitic intrusions, including plutons, pegmatites, and hydrothermal veins. Regional metamorphic grades in the region include kyanite-grade (high grade) and retrograde chlorite-biotite metamorphism (low grade). Major lithologic units near the site, from youngest to oldest, are:

Dqd - quartz diorite to granodiorite intrusive; contains biotite, muscovite and xenocrysts (included fragments of older rock units); Devonian age (390 MY); associated pegmatite veins are the target of the well-documented Spruce Pine mining district, which produced feldspars, mica, and quartz for various industries, along with emeralds and other gem stones;

Zabg - Gneiss of Alligator Back Formation; finely laminated to thin layered, contains massive gneiss and micaceous conglomerate; includes schist and phyllite; late Proterozoic age (750 MY);

Zaba - Amphibolite of Alligator Back Formation; equigranular, massive to well foliated, chiefly metaphosed mafic rock; late Proterozoic age (750 MY); often occurring as large circular or elliptical areas marking plutonic stocks,[1] associated with pre-Appalachian rifting that formed an earlier ocean called Iapetus.[2]

Ybgg - biotite granitic gneiss; pinkish gray to light gray massive to well foliated; late to mid Proterozoic age (950-1250 my); associated with the Grenville *orogeny*.
RSG has not performed any geologic investigation activities at this site, nor have we been able to locate any previous geologic studies for the site; therefore we can not provide more

[1] http://www.1911encyclopedia.org/Amphibolite

[2] Stewart and Roberson, Exploring the Geology of the Carolinas, University of North Carolina Press, 2007

detail regarding site geology.

3.0 Sampling Procedures

The sampling event was performed by trained personnel from RSG on October 27, 2010, and consisted of collecting samples from three (3) ground water wells, shown in **Figure 1**. Surface water samples were collected from two locations (SW-1 and SW-2) adjacent to the landfill. Field data sheets for the monitoring wells are included in **Appendix A** and a table of well information is available in **Appendix B**. No boring logs for these monitoring wells could be located during a file search at NCDENR.

Sampling methods followed the protocol outlined in the North Carolina Water Quality Monitoring Guidance Document for Solid Waste Facilities (NCDENR, DWM). The depth to water in each well was gauged prior to purging and sampling. Field measurements of pH, specific conductivity, turbidity, and temperature were obtained from each well. Water table elevations and field parameter results are included in **Tables 1 and 2,** respectively.

All samples were collected by RSG personnel in laboratory prepared containers for the specified analytical procedures. Samples were collected using new factory sealed teflon bailers. Ground water samples were properly preserved, placed on ice, and transported to the laboratory facility (Environment 1, Inc.), within the specified holding times for each analysis.

4.0 Field and Laboratory Results

4.1 Laboratory Analysis

All samples were transported to the laboratory facility under proper chain of custody analyzed at the specified DWM Solid Waste Quantitation Limits[3] for Appendix I constituents. The laboratory report is attached for your review as **Appendix C.**

4.2 Field and Laboratory Results

Ground water and field measurements are included in **Tables 1 & 2**. Detected constituents are presented in **Table 3**.

Three (3) inorganic constituents were detected in two (2) wells (MW-1, MW-2) above the SWSL, but below 2L or ground water protection (GWP) standards. Two (2) inorganic constituents, cadmium (MW-1) and cobalt (MW-1, MW-3) were detected above 2L or ground water protection (GWP) standards. No constituents were detected in the surface water samples. Additionally, no organic constituents were detected.

Table 3 summarizes the list of constituents detected.

[3] New Guidelines for Electronic Submittal of Environmental Monitoring Data Memo, NCDENR – Solid Waste Section, October 27, 2006

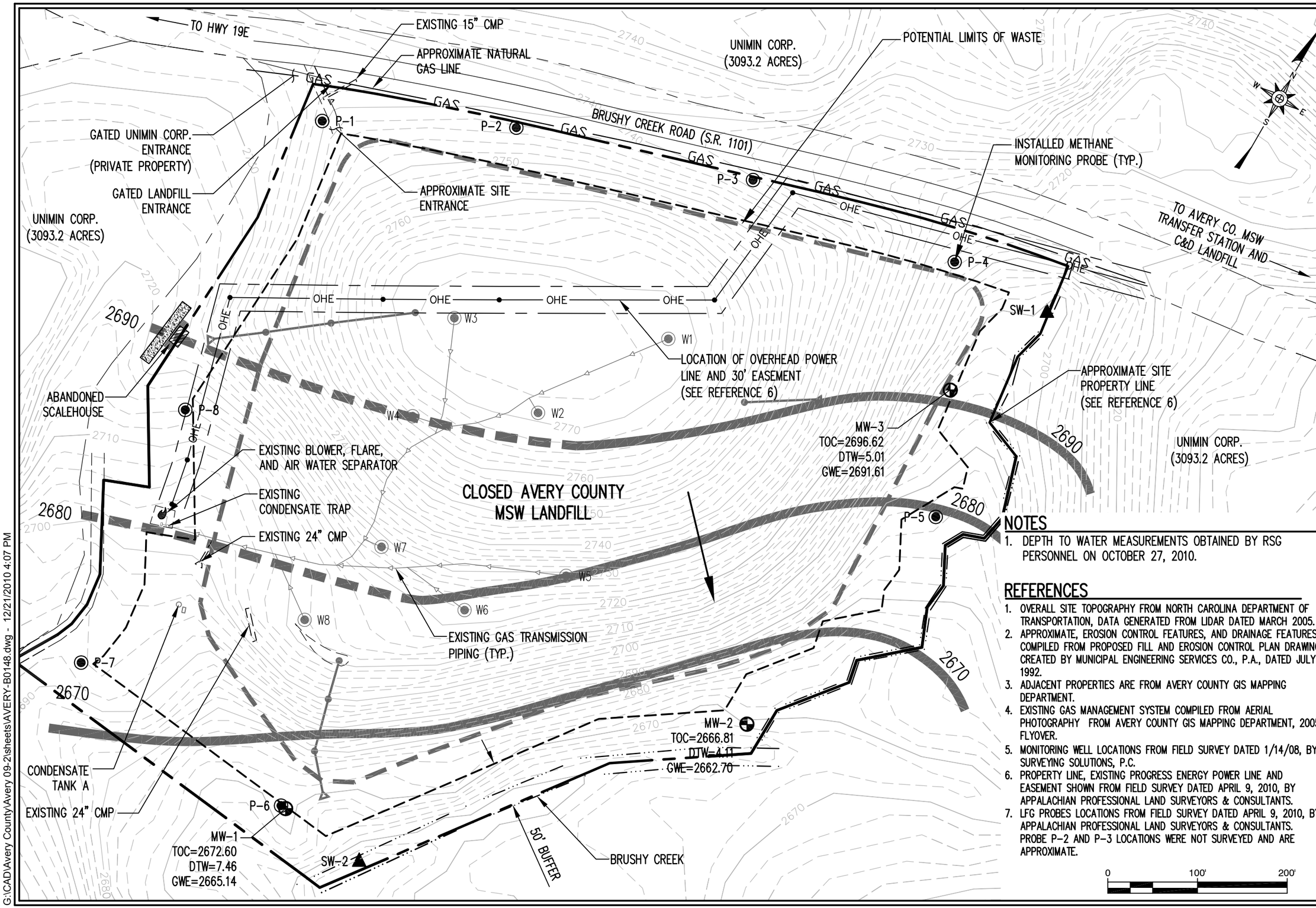
5.0 Ground Water Characterization

A potentiometric surface map was prepared from ground water elevation data collected during this sampling event. The data indicates that ground water is flowing generally to the south and southeast across most of the site. Hydraulic conductivity data was not available for these wells so ground water velocities could not be calculated. The potentiometric surface map (**Figure 1**) is also attached for your review.

6.0 Conclusions

The results of this monitoring event indicate two (2) inorganic constituents at concentrations above the 2L or GWP standards. This is likely due to naturally occurring concentrations of these constituents as they are detected in the background well for the site. The next groundwater monitoring event is scheduled for April 2011.

Figures



NOTES

1. DEPTH TO WATER MEASUREMENTS OBTAINED BY RSG PERSONNEL ON OCTOBER 27, 2010.

REFERENCES

1. OVERALL SITE TOPOGRAPHY FROM NORTH CAROLINA DEPARTMENT OF TRANSPORTATION, DATA GENERATED FROM LIDAR DATED MARCH 2005.
2. APPROXIMATE, EROSION CONTROL FEATURES, AND DRAINAGE FEATURES COMPILED FROM PROPOSED FILL AND EROSION CONTROL PLAN DRAWING CREATED BY MUNICIPAL ENGINEERING SERVICES CO., P.A., DATED JULY 1992.
3. ADJACENT PROPERTIES ARE FROM AVERY COUNTY GIS MAPPING DEPARTMENT.
4. EXISTING GAS MANAGEMENT SYSTEM COMPILED FROM AERIAL PHOTOGRAPHY FROM AVERY COUNTY GIS MAPPING DEPARTMENT, 2005 FLYOVER.
5. MONITORING WELL LOCATIONS FROM FIELD SURVEY DATED 1/14/08, BY SURVEYING SOLUTIONS, P.C.
6. PROPERTY LINE, EXISTING PROGRESS ENERGY POWER LINE AND EASEMENT SHOWN FROM FIELD SURVEY DATED APRIL 9, 2010, BY APPALACHIAN PROFESSIONAL LAND SURVEYORS & CONSULTANTS.
7. LFG PROBES LOCATIONS FROM FIELD SURVEY DATED APRIL 9, 2010, BY APPALACHIAN PROFESSIONAL LAND SURVEYORS & CONSULTANTS. PROBE P-2 AND P-3 LOCATIONS WERE NOT SURVEYED AND ARE APPROXIMATE.

RICHARDSON SMITH GARDNER & ASSOCIATES
14 N. Boylan Ave. Raleigh, N.C. 27603
ph: 919-828-0577
fax: 919-828-3899
NC LIC. NO. C-0205 (Engineering)
www.rsgengineers.com

FIGURE NO.	1
FILE NAME	AVERY-B0148
SCALE:	AS NOTED
PROJECT NO.	AVER 09-2
CHECKED BY:	J.A.S
DRAWN BY:	W.R.B.
DATE:	Dec. 2010

TITLE:
AVERY COUNTY
SOLID WASTE DEPARTMENT
AVERY COUNTY CLOSED MSWLF
POTENTIOMETRIC MAP FALL '10

G:\CAD\Avery County\Avery 09-2\sheets\AVERY-B0148.dwg - 12/21/2010 4:07 PM

Tables

By: JAS

Date: 11/1/2010

Table 1
Avery County MSW Landfill
Ground Water Elevation Data
10/27/2010

Well	Well location Northing	Well location Easting	TOC Elevation (feet)	Depth to Water (feet)	GW Elev (feet)
MW-1	812705.6749	1114262.085	2672.6	8.77	2663.83
MW-2	813030.7307	1114625.494	2666.81	5.12	2661.69
MW-3	813531.8988	1114643.917	2696.62	5.57	2691.05

Water level measurements by RSG personnel.

By: JAS
Date: 11/1/2010

Table 2
Avery County MSW Landfill
Field Parameters
10/27/2010

Well Identification #	Temperature (°Celsius)	Turbidity (NTU)	Specific Conductivity (uS/cm)	pH
MW-1	15	110	150	6.4
MW-2	14	22	60	6.2
MW-3	14	58	140	7.5
SW-1	14	23	60	6.5
SW-2	15	19	40	6.3

Note: 1. pH measured with a 'Hanna" pH/EC/TDS Meter, type HI9811
2. Water Levels measured with a Slope Indicator Water Level Meter
3. Turbidity measured with a Hach 2100P turbidimeter
4. Temperature measured with a laboratory grade thermometer.
5. Data Collected by Joan Smyth of RSG Engineers Inc.

By: LAQ
Date: 12/22/2010

Table 3
Avery County MSW Landfill
Detected Inorganic and Organic Constituents
10/27/2010

Constituents	SWSL	2L or GWP Standards	MW-1	MW-2	MW-3	SW-1	SW-2
Barium	100	700	**176**	ND	ND	ND	ND
Cadmium	1	2	**22.4**	ND	ND	ND	ND
Cobalt	10	1	**22.4**	ND	**30.9**	ND	ND
Copper	10	1000	**13.3**	**150**	ND	ND	ND
Zinc	10	1000	**37.5**	ND	ND	ND	ND

SWSL	-	Solid Waste Quantitation Limit
ND	-	Not detected at or above SWSL
Shading	-	Levels above 2L standard or no 2L standard
Bold Letters	-	Constituent detected above SWSL
J	-	Detected constituents below SWSL limit

All SWSLs, 2L Standards and Results are in ug/l.

Data reported by Pace Analytical Laboratory..

Appendix A

Field Data Sheets

Appendix B

Monitoring Well Information

By: JAS

Date: 11/1/2010

Appendix B
Avery County MSW Landfill
Monitoring Well Information

Well	Well location Northing	Well location Easting	TOC Elevation (feet)	Depth to Water (feet)	Depth to Bottom (feet)	Assumed Screen Interval
MW-1	812705.6749	1114262.085	2672.6	8.77	23.3	10' - 20'
MW-2	813030.7307	1114625.494	2666.81	5.12	14.41	4' - 14'
MW-3	813531.8988	1114643.917	2696.62	5.57	15.2	4' - 14'

Depth to Water and Depth to Bottom measured from the Top of Casing.

No boring logs or well records for these wells are available, therefore, the screened interval is assumed based upon field measurements.

Appendix C

Laboratory Analytical Report

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 11, 2010

Ms. Joan Smyth
RSG&A
14 N. Boylan Ave
Raleigh, NC 27603

RE: Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

Dear Ms. Smyth:
Enclosed are the analytical results for sample(s) received by the laboratory on October 28, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

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

Sincerely,

Bonnie McKee

Bonnie McKee

bonnie.mckee@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

Charlotte Certification IDs

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

Asheville Certification IDs

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

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(704)875-9092

SAMPLE ANALYTE COUNT

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9280914001	**MW-1**	EPA 6010	SHB	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9280914002	**MW-2**	EPA 6010	SHB	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9280914003	**MW-3**	EPA 6010	SHB	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9280914004	**SW-1**	EPA 6010	SHB	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9280914005	**SW-2**	EPA 6010	SHB	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9280914006	**Trip Blank**	EPA 8260	MCK	52	PASI-C

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Pace Analytical
www.pacelabs.com

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

ANALYTICAL RESULTS

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

Sample: MW-1 **Lab ID: 9280914001** Collected: 10/27/10 10:45 Received: 10/28/10 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	11/08/10 11:10	11/10/10 05:31	7440-36-0	
Arsenic	ND	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:31	7440-38-2	
Barium	**176**	ug/L	100	1	11/08/10 11:10	11/10/10 05:31	7440-39-3	
Beryllium	ND	ug/L	1.0	1	11/08/10 11:10	11/10/10 05:31	7440-41-7	
Cadmium	**22.4**	ug/L	1.0	1	11/08/10 11:10	11/10/10 05:31	7440-43-9	
Chromium	ND	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:31	7440-47-3	
Cobalt	**22.4**	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:31	7440-48-4	
Copper	**13.3**	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:31	7440-50-8	
Lead	ND	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:31	7439-92-1	
Nickel	ND	ug/L	50.0	1	11/08/10 11:10	11/10/10 05:31	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:31	7782-49-2	
Silver	ND	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:31	7440-22-4	
Thallium	ND	ug/L	5.5	1	11/08/10 11:10	11/10/10 05:31	7440-28-0	
Vanadium	ND	ug/L	25.0	1	11/08/10 11:10	11/10/10 05:31	7440-62-2	
Zinc	**37.5**	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:31	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/31/10 17:22	67-64-1	
Acrylonitrile	ND	ug/L	200	1		10/31/10 17:22	107-13-1	
Benzene	ND	ug/L	1.0	1		10/31/10 17:22	71-43-2	
Bromochloromethane	ND	ug/L	3.0	1		10/31/10 17:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/31/10 17:22	75-27-4	
Bromoform	ND	ug/L	3.0	1		10/31/10 17:22	75-25-2	
Bromomethane	ND	ug/L	10.0	1		10/31/10 17:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		10/31/10 17:22	78-93-3	
Carbon disulfide	ND	ug/L	100	1		10/31/10 17:22	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/31/10 17:22	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		10/31/10 17:22	108-90-7	
Chloroethane	ND	ug/L	10.0	1		10/31/10 17:22	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/31/10 17:22	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/10 17:22	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		10/31/10 17:22	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		10/31/10 17:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/31/10 17:22	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		10/31/10 17:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/31/10 17:22	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/31/10 17:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/31/10 17:22	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/31/10 17:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/31/10 17:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/31/10 17:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/10 17:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/10 17:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/31/10 17:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/31/10 17:22	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/10 17:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/10 17:22	10061-02-6	

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ACCREDITED IN ACCORDANCE WITH nelac

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Pace Analytical Services, Inc.
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Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

Sample: MW-1 **Lab ID: 9280914001** Collected: 10/27/10 10:45 Received: 10/28/10 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	1.0	1		10/31/10 17:22	100-41-4	
2-Hexanone	ND	ug/L	50.0	1		10/31/10 17:22	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/31/10 17:22	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		10/31/10 17:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		10/31/10 17:22	108-10-1	
Styrene	ND	ug/L	1.0	1		10/31/10 17:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/31/10 17:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		10/31/10 17:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/31/10 17:22	127-18-4	
Toluene	ND	ug/L	1.0	1		10/31/10 17:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/31/10 17:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/31/10 17:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/31/10 17:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/10 17:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/31/10 17:22	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		10/31/10 17:22	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/31/10 17:22	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		10/31/10 17:22	1330-20-7	
4-Bromofluorobenzene (S)	91	%	70-130	1		10/31/10 17:22	460-00-4	
Dibromofluoromethane (S)	105	%	70-130	1		10/31/10 17:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		10/31/10 17:22	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		10/31/10 17:22	2037-26-5	

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ANALYTICAL RESULTS

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

Sample: MW-2 **Lab ID: 9280914002** Collected: 10/27/10 09:30 Received: 10/28/10 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	11/08/10 11:10	11/10/10 05:35	7440-36-0	
Arsenic	ND	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:35	7440-38-2	
Barium	ND	ug/L	100	1	11/08/10 11:10	11/10/10 05:35	7440-39-3	
Beryllium	ND	ug/L	1.0	1	11/08/10 11:10	11/10/10 05:35	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/08/10 11:10	11/10/10 05:35	7440-43-9	
Chromium	ND	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:35	7440-47-3	
Cobalt	ND	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:35	7440-48-4	
Copper	**150**	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:35	7440-50-8	
Lead	ND	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:35	7439-92-1	
Nickel	ND	ug/L	50.0	1	11/08/10 11:10	11/10/10 05:35	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:35	7782-49-2	
Silver	ND	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:35	7440-22-4	
Thallium	ND	ug/L	5.5	1	11/08/10 11:10	11/10/10 05:35	7440-28-0	
Vanadium	ND	ug/L	25.0	1	11/08/10 11:10	11/10/10 05:35	7440-62-2	
Zinc	ND	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:35	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/31/10 17:48	67-64-1	
Acrylonitrile	ND	ug/L	200	1		10/31/10 17:48	107-13-1	
Benzene	ND	ug/L	1.0	1		10/31/10 17:48	71-43-2	
Bromochloromethane	ND	ug/L	3.0	1		10/31/10 17:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/31/10 17:48	75-27-4	
Bromoform	ND	ug/L	3.0	1		10/31/10 17:48	75-25-2	
Bromomethane	ND	ug/L	10.0	1		10/31/10 17:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		10/31/10 17:48	78-93-3	
Carbon disulfide	ND	ug/L	100	1		10/31/10 17:48	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/31/10 17:48	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		10/31/10 17:48	108-90-7	
Chloroethane	ND	ug/L	10.0	1		10/31/10 17:48	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/31/10 17:48	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/10 17:48	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		10/31/10 17:48	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		10/31/10 17:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/31/10 17:48	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		10/31/10 17:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/31/10 17:48	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/31/10 17:48	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/31/10 17:48	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/31/10 17:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/31/10 17:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/31/10 17:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/10 17:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/10 17:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/31/10 17:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/31/10 17:48	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/10 17:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/10 17:48	10061-02-6	

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ANALYTICAL RESULTS

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

Sample: MW-2 **Lab ID: 9280914002** Collected: 10/27/10 09:30 Received: 10/28/10 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	1.0	1		10/31/10 17:48	100-41-4	
2-Hexanone	ND	ug/L	50.0	1		10/31/10 17:48	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/31/10 17:48	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		10/31/10 17:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		10/31/10 17:48	108-10-1	
Styrene	ND	ug/L	1.0	1		10/31/10 17:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/31/10 17:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		10/31/10 17:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/31/10 17:48	127-18-4	
Toluene	ND	ug/L	1.0	1		10/31/10 17:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/31/10 17:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/31/10 17:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/31/10 17:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/10 17:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/31/10 17:48	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		10/31/10 17:48	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/31/10 17:48	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		10/31/10 17:48	1330-20-7	
4-Bromofluorobenzene (S)	91	%	70-130	1		10/31/10 17:48	460-00-4	
Dibromofluoromethane (S)	104	%	70-130	1		10/31/10 17:48	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		10/31/10 17:48	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		10/31/10 17:48	2037-26-5	

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ANALYTICAL RESULTS

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

Sample: MW-3 **Lab ID: 9280914003** Collected: 10/27/10 08:45 Received: 10/28/10 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	11/08/10 11:10	11/10/10 05:49	7440-36-0	
Arsenic	ND	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:49	7440-38-2	
Barium	ND	ug/L	100	1	11/08/10 11:10	11/10/10 05:49	7440-39-3	
Beryllium	ND	ug/L	1.0	1	11/08/10 11:10	11/10/10 05:49	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/08/10 11:10	11/10/10 05:49	7440-43-9	
Chromium	ND	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:49	7440-47-3	
Cobalt	**30.9**	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:49	7440-48-4	
Copper	ND	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:49	7440-50-8	
Lead	ND	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:49	7439-92-1	
Nickel	ND	ug/L	50.0	1	11/08/10 11:10	11/10/10 05:49	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:49	7782-49-2	
Silver	ND	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:49	7440-22-4	
Thallium	ND	ug/L	5.5	1	11/08/10 11:10	11/10/10 05:49	7440-28-0	
Vanadium	ND	ug/L	25.0	1	11/08/10 11:10	11/10/10 05:49	7440-62-2	
Zinc	ND	ug/L	10.0	1	11/08/10 11:10	11/10/10 05:49	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/31/10 18:13	67-64-1	
Acrylonitrile	ND	ug/L	200	1		10/31/10 18:13	107-13-1	
Benzene	ND	ug/L	1.0	1		10/31/10 18:13	71-43-2	
Bromochloromethane	ND	ug/L	3.0	1		10/31/10 18:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/31/10 18:13	75-27-4	
Bromoform	ND	ug/L	3.0	1		10/31/10 18:13	75-25-2	
Bromomethane	ND	ug/L	10.0	1		10/31/10 18:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		10/31/10 18:13	78-93-3	
Carbon disulfide	ND	ug/L	100	1		10/31/10 18:13	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/31/10 18:13	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		10/31/10 18:13	108-90-7	
Chloroethane	ND	ug/L	10.0	1		10/31/10 18:13	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/31/10 18:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/10 18:13	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		10/31/10 18:13	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		10/31/10 18:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/31/10 18:13	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		10/31/10 18:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/31/10 18:13	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/31/10 18:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/31/10 18:13	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/31/10 18:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/31/10 18:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/31/10 18:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/10 18:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/10 18:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/31/10 18:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/31/10 18:13	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/10 18:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/10 18:13	10061-02-6	

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ANALYTICAL RESULTS

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

Sample: MW-3 **Lab ID: 9280914003** Collected: 10/27/10 08:45 Received: 10/28/10 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	1.0	1		10/31/10 18:13	100-41-4	
2-Hexanone	ND	ug/L	50.0	1		10/31/10 18:13	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/31/10 18:13	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		10/31/10 18:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		10/31/10 18:13	108-10-1	
Styrene	ND	ug/L	1.0	1		10/31/10 18:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/31/10 18:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		10/31/10 18:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/31/10 18:13	127-18-4	
Toluene	ND	ug/L	1.0	1		10/31/10 18:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/31/10 18:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/31/10 18:13	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/31/10 18:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/10 18:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/31/10 18:13	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		10/31/10 18:13	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/31/10 18:13	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		10/31/10 18:13	1330-20-7	
4-Bromofluorobenzene (S)	87	%	70-130	1		10/31/10 18:13	460-00-4	
Dibromofluoromethane (S)	101	%	70-130	1		10/31/10 18:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		10/31/10 18:13	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		10/31/10 18:13	2037-26-5	

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ANALYTICAL RESULTS

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

Sample: SW-1 **Lab ID: 9280914004** Collected: 10/27/10 16:30 Received: 10/28/10 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	11/09/10 10:20	11/10/10 18:24	7440-36-0	
Arsenic	ND	ug/L	10.0	1	11/09/10 10:20	11/10/10 18:24	7440-38-2	
Barium	ND	ug/L	100	1	11/09/10 10:20	11/10/10 18:24	7440-39-3	
Beryllium	ND	ug/L	1.0	1	11/09/10 10:20	11/10/10 18:24	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/09/10 10:20	11/10/10 18:24	7440-43-9	
Chromium	ND	ug/L	10.0	1	11/09/10 10:20	11/10/10 18:24	7440-47-3	
Cobalt	ND	ug/L	10.0	1	11/09/10 10:20	11/10/10 18:24	7440-48-4	
Copper	ND	ug/L	10.0	1	11/09/10 10:20	11/10/10 18:24	7440-50-8	
Lead	ND	ug/L	10.0	1	11/09/10 10:20	11/10/10 18:24	7439-92-1	
Nickel	ND	ug/L	50.0	1	11/09/10 10:20	11/10/10 18:24	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/09/10 10:20	11/10/10 18:24	7782-49-2	
Silver	ND	ug/L	10.0	1	11/09/10 10:20	11/10/10 18:24	7440-22-4	
Thallium	ND	ug/L	5.5	1	11/09/10 10:20	11/10/10 18:24	7440-28-0	
Vanadium	ND	ug/L	25.0	1	11/09/10 10:20	11/10/10 18:24	7440-62-2	
Zinc	ND	ug/L	10.0	1	11/09/10 10:20	11/10/10 18:24	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/31/10 18:39	67-64-1	
Acrylonitrile	ND	ug/L	200	1		10/31/10 18:39	107-13-1	
Benzene	ND	ug/L	1.0	1		10/31/10 18:39	71-43-2	
Bromochloromethane	ND	ug/L	3.0	1		10/31/10 18:39	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/31/10 18:39	75-27-4	
Bromoform	ND	ug/L	3.0	1		10/31/10 18:39	75-25-2	
Bromomethane	ND	ug/L	10.0	1		10/31/10 18:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		10/31/10 18:39	78-93-3	
Carbon disulfide	ND	ug/L	100	1		10/31/10 18:39	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/31/10 18:39	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		10/31/10 18:39	108-90-7	
Chloroethane	ND	ug/L	10.0	1		10/31/10 18:39	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/31/10 18:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/10 18:39	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		10/31/10 18:39	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		10/31/10 18:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/31/10 18:39	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		10/31/10 18:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/31/10 18:39	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/31/10 18:39	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/31/10 18:39	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/31/10 18:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/31/10 18:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/31/10 18:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/10 18:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/10 18:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/31/10 18:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/31/10 18:39	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/10 18:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/10 18:39	10061-02-6	

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ANALYTICAL RESULTS

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

Sample: SW-1 **Lab ID: 9280914004** Collected: 10/27/10 16:30 Received: 10/28/10 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	1.0	1		10/31/10 18:39	100-41-4	
2-Hexanone	ND	ug/L	50.0	1		10/31/10 18:39	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/31/10 18:39	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		10/31/10 18:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		10/31/10 18:39	108-10-1	
Styrene	ND	ug/L	1.0	1		10/31/10 18:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/31/10 18:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		10/31/10 18:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/31/10 18:39	127-18-4	
Toluene	ND	ug/L	1.0	1		10/31/10 18:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/31/10 18:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/31/10 18:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/31/10 18:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/10 18:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/31/10 18:39	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		10/31/10 18:39	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/31/10 18:39	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		10/31/10 18:39	1330-20-7	
4-Bromofluorobenzene (S)	89	%	70-130	1		10/31/10 18:39	460-00-4	
Dibromofluoromethane (S)	103	%	70-130	1		10/31/10 18:39	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		10/31/10 18:39	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		10/31/10 18:39	2037-26-5	

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ANALYTICAL RESULTS

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

Sample: SW-2 **Lab ID: 9280914005** Collected: 10/27/10 11:00 Received: 10/28/10 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	ND	ug/L	6.0	1	11/09/10 10:20	11/10/10 18:40	7440-36-0	
Arsenic	ND	ug/L	10.0	1	11/09/10 10:20	11/10/10 18:40	7440-38-2	
Barium	ND	ug/L	100	1	11/09/10 10:20	11/10/10 18:40	7440-39-3	
Beryllium	ND	ug/L	1.0	1	11/09/10 10:20	11/10/10 18:40	7440-41-7	
Cadmium	ND	ug/L	1.0	1	11/09/10 10:20	11/10/10 18:40	7440-43-9	
Chromium	ND	ug/L	10.0	1	11/09/10 10:20	11/10/10 18:40	7440-47-3	
Cobalt	ND	ug/L	10.0	1	11/09/10 10:20	11/10/10 18:40	7440-48-4	
Copper	ND	ug/L	10.0	1	11/09/10 10:20	11/10/10 18:40	7440-50-8	
Lead	ND	ug/L	10.0	1	11/09/10 10:20	11/10/10 18:40	7439-92-1	
Nickel	ND	ug/L	50.0	1	11/09/10 10:20	11/10/10 18:40	7440-02-0	
Selenium	ND	ug/L	10.0	1	11/09/10 10:20	11/10/10 18:40	7782-49-2	
Silver	ND	ug/L	10.0	1	11/09/10 10:20	11/10/10 18:40	7440-22-4	
Thallium	ND	ug/L	5.5	1	11/09/10 10:20	11/10/10 18:40	7440-28-0	
Vanadium	ND	ug/L	25.0	1	11/09/10 10:20	11/10/10 18:40	7440-62-2	
Zinc	ND	ug/L	10.0	1	11/09/10 10:20	11/10/10 18:40	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/31/10 19:04	67-64-1	
Acrylonitrile	ND	ug/L	200	1		10/31/10 19:04	107-13-1	
Benzene	ND	ug/L	1.0	1		10/31/10 19:04	71-43-2	
Bromochloromethane	ND	ug/L	3.0	1		10/31/10 19:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/31/10 19:04	75-27-4	
Bromoform	ND	ug/L	3.0	1		10/31/10 19:04	75-25-2	
Bromomethane	ND	ug/L	10.0	1		10/31/10 19:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		10/31/10 19:04	78-93-3	
Carbon disulfide	ND	ug/L	100	1		10/31/10 19:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/31/10 19:04	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		10/31/10 19:04	108-90-7	
Chloroethane	ND	ug/L	10.0	1		10/31/10 19:04	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/31/10 19:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/10 19:04	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		10/31/10 19:04	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		10/31/10 19:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/31/10 19:04	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		10/31/10 19:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/31/10 19:04	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/31/10 19:04	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/31/10 19:04	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/31/10 19:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/31/10 19:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/31/10 19:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/10 19:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/10 19:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/31/10 19:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/31/10 19:04	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/10 19:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/10 19:04	10061-02-6	

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ANALYTICAL RESULTS

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

Sample: SW-2 **Lab ID: 9280914005** Collected: 10/27/10 11:00 Received: 10/28/10 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	1.0	1		10/31/10 19:04	100-41-4	
2-Hexanone	ND	ug/L	50.0	1		10/31/10 19:04	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/31/10 19:04	74-88-4	
Methylene Chloride	ND	ug/L	1.0	1		10/31/10 19:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		10/31/10 19:04	108-10-1	
Styrene	ND	ug/L	1.0	1		10/31/10 19:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/31/10 19:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		10/31/10 19:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/31/10 19:04	127-18-4	
Toluene	ND	ug/L	1.0	1		10/31/10 19:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/31/10 19:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/31/10 19:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/31/10 19:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/10 19:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/31/10 19:04	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		10/31/10 19:04	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/31/10 19:04	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		10/31/10 19:04	1330-20-7	
4-Bromofluorobenzene (S)	88	%	70-130	1		10/31/10 19:04	460-00-4	
Dibromofluoromethane (S)	105	%	70-130	1		10/31/10 19:04	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		10/31/10 19:04	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		10/31/10 19:04	2037-26-5	

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ANALYTICAL RESULTS

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

Sample: Trip Blank **Lab ID: 9280914006** Collected: 10/27/10 00:00 Received: 10/28/10 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		10/31/10 19:30	67-64-1	
Acrylonitrile	ND	ug/L	200	1		10/31/10 19:30	107-13-1	
Benzene	ND	ug/L	1.0	1		10/31/10 19:30	71-43-2	
Bromochloromethane	ND	ug/L	3.0	1		10/31/10 19:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		10/31/10 19:30	75-27-4	
Bromoform	ND	ug/L	3.0	1		10/31/10 19:30	75-25-2	
Bromomethane	ND	ug/L	10.0	1		10/31/10 19:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		10/31/10 19:30	78-93-3	
Carbon disulfide	ND	ug/L	100	1		10/31/10 19:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		10/31/10 19:30	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		10/31/10 19:30	108-90-7	
Chloroethane	ND	ug/L	10.0	1		10/31/10 19:30	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/31/10 19:30	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/10 19:30	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		10/31/10 19:30	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		10/31/10 19:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		10/31/10 19:30	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		10/31/10 19:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/31/10 19:30	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		10/31/10 19:30	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		10/31/10 19:30	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/31/10 19:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		10/31/10 19:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/31/10 19:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/10 19:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/10 19:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		10/31/10 19:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		10/31/10 19:30	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/10 19:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		10/31/10 19:30	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		10/31/10 19:30	100-41-4	
2-Hexanone	ND	ug/L	50.0	1		10/31/10 19:30	591-78-6	
Iodomethane	ND	ug/L	10.0	1		10/31/10 19:30	74-88-4	
Methylene Chloride	**1.0**	ug/L	1.0	1		10/31/10 19:30	75-09-2	C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		10/31/10 19:30	108-10-1	
Styrene	ND	ug/L	1.0	1		10/31/10 19:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		10/31/10 19:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		10/31/10 19:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		10/31/10 19:30	127-18-4	
Toluene	ND	ug/L	1.0	1		10/31/10 19:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		10/31/10 19:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		10/31/10 19:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		10/31/10 19:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/10 19:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		10/31/10 19:30	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		10/31/10 19:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		10/31/10 19:30	75-01-4	

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ANALYTICAL RESULTS

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

Sample: Trip Blank **Lab ID: 9280914006** Collected: 10/27/10 00:00 Received: 10/28/10 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	5.0	1		10/31/10 19:30	1330-20-7	
4-Bromofluorobenzene (S)	90	%	70-130	1		10/31/10 19:30	460-00-4	
Dibromofluoromethane (S)	107	%	70-130	1		10/31/10 19:30	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		10/31/10 19:30	17060-07-0	
Toluene-d8 (S)	106	%	70-130	1		10/31/10 19:30	2037-26-5	

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QUALITY CONTROL DATA

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

QC Batch: MPRP/7381 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9280914001, 9280914002, 9280914003

METHOD BLANK: 524374 Matrix: Water
Associated Lab Samples: 9280914001, 9280914002, 9280914003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	11/10/10 03:47	
Arsenic	ug/L	ND	10.0	11/10/10 03:47	
Barium	ug/L	ND	100	11/10/10 03:47	
Beryllium	ug/L	ND	1.0	11/10/10 03:47	
Cadmium	ug/L	ND	1.0	11/10/10 03:47	
Chromium	ug/L	ND	10.0	11/10/10 03:47	
Cobalt	ug/L	ND	10.0	11/10/10 03:47	
Copper	ug/L	ND	10.0	11/10/10 03:47	
Lead	ug/L	ND	10.0	11/10/10 03:47	
Nickel	ug/L	ND	50.0	11/10/10 03:47	
Selenium	ug/L	ND	10.0	11/10/10 03:47	
Silver	ug/L	ND	10.0	11/10/10 03:47	
Thallium	ug/L	ND	5.5	11/10/10 03:47	
Vanadium	ug/L	ND	25.0	11/10/10 03:47	
Zinc	ug/L	ND	10.0	11/10/10 03:47	

LABORATORY CONTROL SAMPLE: 524375

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	489	98	80-120	
Arsenic	ug/L	500	498	100	80-120	
Barium	ug/L	500	495	99	80-120	
Beryllium	ug/L	500	491	98	80-120	
Cadmium	ug/L	500	490	98	80-120	
Chromium	ug/L	500	493	99	80-120	
Cobalt	ug/L	500	494	99	80-120	
Copper	ug/L	500	499	100	80-120	
Lead	ug/L	500	499	100	80-120	
Nickel	ug/L	500	490	98	80-120	
Selenium	ug/L	500	491	98	80-120	
Silver	ug/L	250	226	90	80-120	
Thallium	ug/L	500	468	94	80-120	
Vanadium	ug/L	500	498	100	80-120	
Zinc	ug/L	500	491	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 524376 524377

Parameter	Units	9280910001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Antimony	ug/L	ND	500	500	488	490	97	98	75-125	0	

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(704)875-9092

QUALITY CONTROL DATA

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 524376 524377

Parameter	Units	9280910001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic	ug/L	3.0J	500	500	501	506	100	101	75-125	1	
Barium	ug/L	83.4J	500	500	571	573	98	98	75-125	0	
Beryllium	ug/L	0.36J	500	500	493	493	99	99	75-125	0	
Cadmium	ug/L	ND	500	500	482	482	96	96	75-125	0	
Chromium	ug/L	1.5J	500	500	489	488	97	97	75-125	0	
Cobalt	ug/L	18.0	500	500	494	497	95	96	75-125	1	
Copper	ug/L	1.6J	500	500	504	507	100	101	75-125	1	
Lead	ug/L	7.9J	500	500	491	492	97	97	75-125	0	
Nickel	ug/L	ND	500	500	480	481	96	96	75-125	0	
Selenium	ug/L	ND	500	500	491	494	98	99	75-125	1	
Silver	ug/L	ND	250	250	224	226	90	90	75-125	1	
Thallium	ug/L	3.1J	500	500	457	459	91	91	75-125	0	
Vanadium	ug/L	5.6J	500	500	499	500	99	99	75-125	0	
Zinc	ug/L	84.4	500	500	582	581	100	99	75-125	0	

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QUALITY CONTROL DATA

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

QC Batch: MPRP/7393
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9280914004, 9280914005

METHOD BLANK: 524737
Matrix: Water
Associated Lab Samples: 9280914004, 9280914005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	11/10/10 18:18	
Arsenic	ug/L	ND	10.0	11/10/10 18:18	
Barium	ug/L	ND	100	11/10/10 18:18	
Beryllium	ug/L	ND	1.0	11/10/10 18:18	
Cadmium	ug/L	ND	1.0	11/10/10 18:18	
Chromium	ug/L	ND	10.0	11/10/10 18:18	
Cobalt	ug/L	ND	10.0	11/10/10 18:18	
Copper	ug/L	ND	10.0	11/10/10 18:18	
Lead	ug/L	ND	10.0	11/10/10 18:18	
Nickel	ug/L	ND	50.0	11/10/10 18:18	
Selenium	ug/L	ND	10.0	11/10/10 18:18	
Silver	ug/L	ND	10.0	11/10/10 18:18	
Thallium	ug/L	ND	5.5	11/10/10 18:18	
Vanadium	ug/L	ND	25.0	11/10/10 18:18	
Zinc	ug/L	ND	10.0	11/10/10 18:18	

LABORATORY CONTROL SAMPLE: 524738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	487	97	80-120	
Arsenic	ug/L	500	493	99	80-120	
Barium	ug/L	500	485	97	80-120	
Beryllium	ug/L	500	505	101	80-120	
Cadmium	ug/L	500	501	100	80-120	
Chromium	ug/L	500	505	101	80-120	
Cobalt	ug/L	500	505	101	80-120	
Copper	ug/L	500	488	98	80-120	
Lead	ug/L	500	494	99	80-120	
Nickel	ug/L	500	497	99	80-120	
Selenium	ug/L	500	490	98	80-120	
Silver	ug/L	250	226	90	80-120	
Thallium	ug/L	500	473	95	80-120	
Vanadium	ug/L	500	498	100	80-120	
Zinc	ug/L	500	503	101	80-120	

MATRIX SPIKE SAMPLE: 524739

Parameter	Units	9280914004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	483	97	75-125	
Arsenic	ug/L	ND	500	495	99	75-125	

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QUALITY CONTROL DATA

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

MATRIX SPIKE SAMPLE: 524739

Parameter	Units	9280914004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	ND	500	492	95	75-125	
Beryllium	ug/L	ND	500	503	101	75-125	
Cadmium	ug/L	ND	500	493	99	75-125	
Chromium	ug/L	ND	500	501	100	75-125	
Cobalt	ug/L	ND	500	494	99	75-125	
Copper	ug/L	ND	500	484	97	75-125	
Lead	ug/L	ND	500	482	96	75-125	
Nickel	ug/L	ND	500	485	97	75-125	
Selenium	ug/L	ND	500	486	97	75-125	
Silver	ug/L	ND	250	223	89	75-125	
Thallium	ug/L	ND	500	461	91	75-125	
Vanadium	ug/L	ND	500	494	99	75-125	
Zinc	ug/L	ND	500	501	100	75-125	

SAMPLE DUPLICATE: 524740

Parameter	Units	9280914005 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	ND		
Arsenic	ug/L	ND	ND		
Barium	ug/L	ND	13.6J	1	
Beryllium	ug/L	ND	ND		
Cadmium	ug/L	ND	ND		
Chromium	ug/L	ND	ND		
Cobalt	ug/L	ND	2.4J		
Copper	ug/L	ND	ND		
Lead	ug/L	ND	ND		
Nickel	ug/L	ND	ND		
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		
Thallium	ug/L	ND	ND		
Vanadium	ug/L	ND	.82J		
Zinc	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

QC Batch: MSV/12860 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 9280914001, 9280914002, 9280914003, 9280914004, 9280914005, 9280914006

METHOD BLANK: 520473 Matrix: Water
Associated Lab Samples: 9280914001, 9280914002, 9280914003, 9280914004, 9280914005, 9280914006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	10/31/10 10:59	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/31/10 10:59	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	10/31/10 10:59	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/31/10 10:59	
1,1-Dichloroethane	ug/L	ND	5.0	10/31/10 10:59	
1,1-Dichloroethene	ug/L	ND	5.0	10/31/10 10:59	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/31/10 10:59	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	10/31/10 10:59	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/31/10 10:59	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/31/10 10:59	
1,2-Dichloroethane	ug/L	ND	1.0	10/31/10 10:59	
1,2-Dichloropropane	ug/L	ND	1.0	10/31/10 10:59	
1,3-Dichloropropane	ug/L	ND	1.0	10/31/10 10:59	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/31/10 10:59	
2-Butanone (MEK)	ug/L	ND	100	10/31/10 10:59	
2-Hexanone	ug/L	ND	50.0	10/31/10 10:59	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	10/31/10 10:59	
Acetone	ug/L	ND	100	10/31/10 10:59	
Acrylonitrile	ug/L	ND	200	10/31/10 10:59	
Benzene	ug/L	ND	1.0	10/31/10 10:59	
Bromochloromethane	ug/L	ND	3.0	10/31/10 10:59	
Bromodichloromethane	ug/L	ND	1.0	10/31/10 10:59	
Bromoform	ug/L	ND	3.0	10/31/10 10:59	
Bromomethane	ug/L	ND	10.0	10/31/10 10:59	
Carbon disulfide	ug/L	ND	100	10/31/10 10:59	
Carbon tetrachloride	ug/L	ND	1.0	10/31/10 10:59	
Chlorobenzene	ug/L	ND	3.0	10/31/10 10:59	
Chloroethane	ug/L	ND	10.0	10/31/10 10:59	
Chloroform	ug/L	ND	5.0	10/31/10 10:59	
Chloromethane	ug/L	ND	1.0	10/31/10 10:59	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/31/10 10:59	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/31/10 10:59	
Dibromochloromethane	ug/L	ND	3.0	10/31/10 10:59	
Dibromomethane	ug/L	ND	10.0	10/31/10 10:59	
Ethylbenzene	ug/L	ND	1.0	10/31/10 10:59	
Iodomethane	ug/L	ND	10.0	10/31/10 10:59	
Methylene Chloride	ug/L	ND	1.0	10/31/10 10:59	
Styrene	ug/L	ND	1.0	10/31/10 10:59	
Tetrachloroethene	ug/L	ND	1.0	10/31/10 10:59	
Toluene	ug/L	ND	1.0	10/31/10 10:59	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/31/10 10:59	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/31/10 10:59	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	10/31/10 10:59	

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QUALITY CONTROL DATA

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

METHOD BLANK: 520473 Matrix: Water

Associated Lab Samples: 9280914001, 9280914002, 9280914003, 9280914004, 9280914005, 9280914006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	10/31/10 10:59	
Trichlorofluoromethane	ug/L	ND	1.0	10/31/10 10:59	
Vinyl acetate	ug/L	ND	50.0	10/31/10 10:59	
Vinyl chloride	ug/L	ND	1.0	10/31/10 10:59	
Xylene (Total)	ug/L	ND	5.0	10/31/10 10:59	
1,2-Dichloroethane-d4 (S)	%	103	70-130	10/31/10 10:59	
4-Bromofluorobenzene (S)	%	87	70-130	10/31/10 10:59	
Dibromofluoromethane (S)	%	96	70-130	10/31/10 10:59	
Toluene-d8 (S)	%	103	70-130	10/31/10 10:59	

LABORATORY CONTROL SAMPLE: 520474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.7	91	70-130	
1,1,1-Trichloroethane	ug/L	50	44.0	88	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.3	105	70-130	
1,1,2-Trichloroethane	ug/L	50	45.6	91	70-130	
1,1-Dichloroethane	ug/L	50	46.3	93	70-130	
1,1-Dichloroethene	ug/L	50	42.7	85	70-132	
1,2,3-Trichloropropane	ug/L	50	43.5	87	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.0	96	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	45.7	91	70-130	
1,2-Dichlorobenzene	ug/L	50	47.1	94	70-130	
1,2-Dichloroethane	ug/L	50	48.1	96	70-130	
1,2-Dichloropropane	ug/L	50	46.8	94	70-130	
1,3-Dichloropropane	ug/L	50	47.4	95	70-130	
1,4-Dichlorobenzene	ug/L	50	45.7	91	70-130	
2-Butanone (MEK)	ug/L	100	104	104	70-145	
2-Hexanone	ug/L	100	103	103	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	70-140	
Acetone	ug/L	100	122	122	50-175	
Acrylonitrile	ug/L	250	234	94	70-143	
Benzene	ug/L	50	44.6	89	70-130	
Bromochloromethane	ug/L	50	45.3	91	70-130	
Bromodichloromethane	ug/L	50	43.6	87	70-130	
Bromoform	ug/L	50	49.1	98	70-130	
Bromomethane	ug/L	50	47.9	96	54-130	
Carbon disulfide	ug/L	50	48J	96	70-131	
Carbon tetrachloride	ug/L	50	44.1	88	70-132	
Chlorobenzene	ug/L	50	44.6	89	70-130	
Chloroethane	ug/L	50	45.0	90	64-134	
Chloroform	ug/L	50	45.5	91	70-130	
Chloromethane	ug/L	50	44.8	90	64-130	
cis-1,2-Dichloroethene	ug/L	50	44.4	89	70-131	
cis-1,3-Dichloropropene	ug/L	50	43.7	87	70-130	

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QUALITY CONTROL DATA

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

LABORATORY CONTROL SAMPLE: 520474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	46.0	92	70-130	
Dibromomethane	ug/L	50	44.2	88	70-131	
Ethylbenzene	ug/L	50	44.7	89	70-130	
Iodomethane	ug/L	100	88.8	89	49-180	
Methylene Chloride	ug/L	50	37.2	74	63-130	
Styrene	ug/L	50	42.0	84	70-130	
Tetrachloroethene	ug/L	50	45.4	91	70-130	
Toluene	ug/L	50	42.6	85	70-130	
trans-1,2-Dichloroethene	ug/L	50	43.8	88	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.5	97	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	47.3J	95	70-141	
Trichloroethene	ug/L	50	45.3	91	70-130	
Trichlorofluoromethane	ug/L	50	40.1	80	62-133	
Vinyl acetate	ug/L	100	102	102	66-157	
Vinyl chloride	ug/L	50	49.2	98	69-130	
Xylene (Total)	ug/L	150	121	81	70-130	
1,2-Dichloroethane-d4 (S)	%			109	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALIFIERS

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

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.

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.

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LABORATORIES

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

ANALYTE QUALIFIERS

C9	Common Laboratory Contaminant.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Avery Co MSW LF (OLD)
Pace Project No.: 9280914

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9280914001	**MW-1**	EPA 3010	MPRP/7381	EPA 6010	ICP/6806
9280914002	**MW-2**	EPA 3010	MPRP/7381	EPA 6010	ICP/6806
9280914003	**MW-3**	EPA 3010	MPRP/7381	EPA 6010	ICP/6806
9280914004	**SW-1**	EPA 3010	MPRP/7393	EPA 6010	ICP/6816
9280914005	**SW-2**	EPA 3010	MPRP/7393	EPA 6010	ICP/6816
9280914001	**MW-1**	EPA 8260	MSV/12860		
9280914002	**MW-2**	EPA 8260	MSV/12860		
9280914003	**MW-3**	EPA 8260	MSV/12860		
9280914004	**SW-1**	EPA 8260	MSV/12860		
9280914005	**SW-2**	EPA 8260	MSV/12860		
9280914006	**Trip Blank**	EPA 8260	MSV/12860		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of

Section A
Required Client Information:

Company:	RSG&A
Address:	14 N. Boylan Ave.
	Raleigh, NC 27603
Email To:	joan@rsgengineers.com
Phone: 919-282-0577	Fax:
Requested Due Date/TAT:	

Section B
Required Project Information:

Report To:	Same
Copy To:	
Purchase Order No.:	
Project Name:	Avery County MSW Landfill (OLD)
Project Number:	

Section C
Invoice Information:

Attention:	Same
Company Name:	
Address:	
Pace Quote Reference:	Kelly Dillon
Pace Project Manager:	Kevin Godwin
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: NC

Section D
Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: Metals	8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	W	G	10/27/10														X	X		001
2	MW-2	W																X	X		002
3	MW-3	W																X	X		003
4	SW-1	W																X	X		004
5	SW-2	W																X	X		005
6	TRIP BLANK	W																	X		006
7																					
8																					
9																					
10																					
11																					
12																					

Requested Analysis Filtered (Y/N)

9280914

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Joan Smyth RSG	10/28/10	1610	pace dH	10/28/10	11:05				
	pace dH	10/28/10	1600		10/28/10	1600	2.9	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joan Smyth

SIGNATURE of SAMPLER: Joan Smyth

DATE Signed (MM/DD/YY): 10/28/10

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

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: RSG&A Project # 9280914

Where Received: [X] Huntersville [ ] Asheville [ ] Eden

Courier: [ ] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [X] Pace Other_____

Custody Seal on Cooler/Box Present: [ ] yes [X] no Seals intact: [ ] yes [ ] no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: [ ] Bubble Wrap [X] Bubble Bags [ ] None [ ] Other_____

Thermometer Used: IR Gun : T809 **Type of Ice:** (Wet) Blue None [X] Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract _____0_____C

Corrected Cooler Temp.: 2.9 C **Biological Tissue is Frozen:** Yes (No)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: JEH 10/28/10

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

CURF Review: BKM **Date:** 10/28/10 **SRF Review:** BMH **Date:** 10/28/10

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