ENVIRO-PRO
PROFESSIONAL CORPORATION

January 15, 2013

Mr. Mike Griffin
Griffin Brothers Companies
19109 West Catawba Avenue, Suite 200
Cornelius, North Carolina 28078-5613

Subject: Semi-Annual Groundwater Sampling Report (26)
Highway 49 C&D Landfill
Harrisburg, North Carolina
Project No. EP-1271

Dear Mr. Griffin:

In accordance with the Water Quality Monitoring Plan approved by the North Carolina DENR-Solid Waste Section as part of the Site Plan Application Report, Enviro-Pro, P.C. (EP) personnel have completed the second semi-annual 2012 sampling event for the subject site.

Please contact me at (803) 547-4955 if you have any questions concerning the data submitted herein. Thank you for the opportunity to continue to provide our environmental services on this project.

Sincerely,
ENVIRO-PRO, P.C.

Thomas H. Bolyard

Thomas H. Bolyard, P.G.
Senior Hydrogeologist

2646 Farmlake Lane • Fort Mill, SC 29708 • (803) 547-4955 • Fax (803) 548-2233

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).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- 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):

Enviro-Pro, P.C.

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

Name: Mr. Tom Bolyard, P.G. Phone: (803) 547-4955

E-mail: enviropro@comporium.net

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Highway 49 C&D Landfill	2105 Speedrail Court, Harrisburg, NC	13.06	.0500	October 23, 2012

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.

Mr. Tom Bolyard, P.G. Senior Hydrogeologist (803) 547-4955

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

Thomas H. Bolyard 1/2/13

Signature Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 492 GEOLOGIST THOMAS H. BOLYARD

Revised 01/2007

MONITORING REPORT (26)

Highway 49 C&D Landfill
Harrisburg, North Carolina

Prepared for:
Mr. Mike Griffin
Griffin Brothers Companies
19109 West Catawba Avenue, Suite 200
Cornelius, North Carolina 28031-5613

Prepared by:
Enviro-Pro, P.C.
2646 Farmlake Lane
Fort Mill, South Carolina

Project Number EP-1271

January 15, 2013

Monitor well purging and sampling were completed by Enviro-Pro, P.C. (EP) personnel on October 23, 2012. This sampling event included upstream and downstream samples of Coddle Creek (SW-1 and SW-2) and groundwater monitor wells MW-21, MW-55, MW-56, and MW-57.

All samples were collected as described in the approved Water Quality Monitoring Plan and were then transported to Pace Analytical Services, Inc. in Huntersville, North Carolina for analysis of Appendix I volatile organic compounds (VOCs) (Method 8260B), Appendix I metals with mercury, and alkalinity, chloride, sulfate, and total dissolved solids (TDS). The completed Chain of Custody Record and the Report of Analysis for these samples are included as Appendix A. A summary of the field parameters recorded during well purging and the Well Development, Purge, and Sample Record are included in Appendix B. At least three well volumes were removed from each well to purge stagnant water and to ensure that fresh formation water would be sampled. All purging and sampling activities were conducted using dedicated bailers and disposable sampling gloves were changed between each sampling location to minimize the potential for any cross-contamination to occur. Analytical QA/QC measures included a field (bailer rinse) blank and a laboratory-prepared trip blank analyzed for volatile organic compounds (VOCs) by Method 8260B.

The field information recorded in Appendix B indicates that the groundwater levels decreased in two monitor wells and increased in two monitor well since the previous sampling event on June 11, 2012.

Laboratory test results indicate low concentrations of the metal barium in all the monitor wells sampled. Low levels of barium were also present in samples SW-1 and SW-2 from Coddle Creek, providing further evidence that these levels are representative of this naturally-occurring metal in the bedrock, soil, and groundwater in this area. Cobalt, nickel, zinc, copper, and vanadium were detected in several of the monitor wells sampled. TDS was detected in well MW-57 at a concentration above its 2L Standard. No VOCs or Appendix I metals were detected above their respective 2L Standards in any of the remaining monitor wells or stream samples analyzed from this site. Table 1 provides a summary of the laboratory test results obtained during this sampling event.

The next sampling event for the Highway 49 C&D Landfill site is scheduled for April 2013.

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
Highway 49 C&D Landfill
Harrisburg, North Carolina
November 30, 2012

Analytical Method →	6010	6010	6010	6010	6010	6010	2320B	2540C	300.0	4500-CL-E
Contaminant of Concern → / Sample ID	Barium	Nickel	Cobalt	Zinc	Copper	Vanadium	Alkalinity	TDS	Sulfate	Chloride
MW-21	0.137	0.0154	BDL	BDL	BDL	BDL	156	242	30.9	14.8
MW-55	0.150	0.0212	0.0096	0.0105	0.0261	0.0155	145	249	29.4	14.9
MW-56	0.145	0.0155	0.0072	0.0104	0.0324	0.0151	152	284	32.0	14.9
MW-57	0.152	BDL	BDL	BDL	BDL	0.0062	692	**1,020**	31.4	15.4
SW-1	0.0423	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SW-2	0.0421	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Field Blank	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trip Blank	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2L Standard	**0.7**	**0.1**	**NE**	**1**	**1**	**NE**	**NE**	**500**	**250**	**250**

Notes: All metals/Inorganic compounds are presented in milligrams per liter (mg/l)
BDL = Below detection limit
All VOCs are presented in micrograms per liter (ug/l)
NE = None Established
Shaded areas represents parameters over the 2L Standard
TDS = Total Dissolved Solids

APPENDIX A

Pace Analytical®
www.pacelabs.com

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 09, 2012

Tom Bolyard
Enviro Pro
2646 Farm Lake Lane
Fort Mill, SC 29708

RE: Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

Dear Tom Bolyard:
Enclosed are the analytical results for sample(s) received by the laboratory on October 25, 2012. 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,

Charles Hardin

tripp.hardin@pacelabs.com
Project Manager

Enclosures

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Eden, NC 27288
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(828)254-7176

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Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

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

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

SAMPLE SUMMARY

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92136549001	1271 MW21	Water	10/23/12 09:00	10/25/12 16:00
92136549002	1271 MW55	Water	10/23/12 09:30	10/25/12 16:00
92136549003	1271 MW56	Water	10/23/12 10:00	10/25/12 16:00
92136549004	1271 MW57	Water	10/23/12 10:30	10/25/12 16:00
92136549005	1271 SW1	Water	10/23/12 11:00	10/25/12 16:00
92136549006	1271 SW2	Water	10/23/12 11:15	10/25/12 16:00
92136549007	1271 Field Blank	Water	10/23/12 10:15	10/25/12 16:00
92136549008	1271 Trip Blank	Water	10/23/12 00:00	10/25/12 16:00

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SAMPLE ANALYTE COUNT

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92136549001	1271 MW21	EPA 6010	JMW	15	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	54	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 2540C	LMD	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
92136549002	1271 MW55	EPA 6010	JMW	15	PASI-A
		EPA 7470	SH1	1	PASI-A
		EPA 8260	MCK	54	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 2540C	LMD	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
92136549003	1271 MW56	EPA 6010	JMW	15	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	MCK	54	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 2540C	LMD	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
92136549004	1271 MW57	EPA 6010	JMW	15	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	MCK	54	PASI-C
		SM 2320B	KCS	1	PASI-A
		SM 2540C	LMD	1	PASI-A
		EPA 300.0	AES	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
92136549005	1271 SW1	EPA 6010	JMW	15	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	MCK	54	PASI-C
92136549006	1271 SW2	EPA 6010	JMW	15	PASI-A
		EPA 7470	DMB	1	PASI-A
		EPA 8260	MCK	54	PASI-C
92136549007	1271 Field Blank	EPA 8260	MCK	54	PASI-C
92136549008	1271 Trip Blank	EPA 8260	MCK	54	PASI-C

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ANALYTICAL RESULTS

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

Sample: 1271 MW21 **Lab ID: 92136549001** Collected: 10/23/12 09:00 Received: 10/25/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	10/26/12 18:50	11/07/12 20:26	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:26	7440-38-2	
Barium	**137**	ug/L	100	5.0	1	10/26/12 18:50	11/07/12 20:26	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	10/26/12 18:50	11/07/12 20:26	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	10/26/12 18:50	11/07/12 20:26	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:26	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:26	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:26	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:26	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	10/26/12 18:50	11/07/12 20:26	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	10/26/12 18:50	11/07/12 20:26	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:26	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	10/26/12 18:50	11/07/12 20:26	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	10/26/12 18:50	11/07/12 20:26	7440-62-2	
Zinc	**15.4**	ug/L	10.0	10.0	1	10/26/12 18:50	11/07/12 20:26	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	11/02/12 16:20	11/05/12 13:30	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/29/12 05:52	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/29/12 05:52	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/29/12 05:52	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/29/12 05:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/29/12 05:52	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/29/12 05:52	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/29/12 05:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/29/12 05:52	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/29/12 05:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/29/12 05:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/29/12 05:52	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/29/12 05:52	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/29/12 05:52	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/29/12 05:52	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/29/12 05:52	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/29/12 05:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/29/12 05:52	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/29/12 05:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/29/12 05:52	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/29/12 05:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/29/12 05:52	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/29/12 05:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/29/12 05:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/29/12 05:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/29/12 05:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/29/12 05:52	156-60-5	

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Eden, NC 27288
(336)623-8921

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

Sample: 1271 MW21 **Lab ID: 92136549001** Collected: 10/23/12 09:00 Received: 10/25/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/29/12 05:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/29/12 05:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/29/12 05:52	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/29/12 05:52	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/29/12 05:52	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/29/12 05:52	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/29/12 05:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/29/12 05:52	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/29/12 05:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/29/12 05:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/29/12 05:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/29/12 05:52	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		10/29/12 05:52	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		10/29/12 05:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/29/12 05:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/29/12 05:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/29/12 05:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/29/12 05:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/29/12 05:52	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/29/12 05:52	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/29/12 05:52	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/29/12 05:52	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/29/12 05:52	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/29/12 05:52	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/29/12 05:52	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		10/29/12 05:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		10/29/12 05:52	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/29/12 05:52	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**156000**	ug/L	5000	1000	1		11/02/12 18:31		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**242000**	ug/L	25000	25000	1		10/29/12 16:47		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**30900J**	ug/L	250000	2000	1		11/07/12 23:13	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**14800**	ug/L	1000	1000	1		11/08/12 19:42	16887-00-6	

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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

ANALYTICAL RESULTS

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

Sample: 1271 MW55 **Lab ID: 92136549002** Collected: 10/23/12 09:30 Received: 10/25/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	10/26/12 18:50	11/07/12 20:40	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:40	7440-38-2	
Barium	**150**	ug/L	100	5.0	1	10/26/12 18:50	11/07/12 20:40	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	10/26/12 18:50	11/07/12 20:40	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	10/26/12 18:50	11/07/12 20:40	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:40	7440-47-3	
Cobalt	**9.6J**	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:40	7440-48-4	
Copper	**26.1**	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:40	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:40	7439-92-1	
Nickel	**21.2J**	ug/L	50.0	5.0	1	10/26/12 18:50	11/07/12 20:40	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	10/26/12 18:50	11/07/12 20:40	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:40	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	10/26/12 18:50	11/07/12 20:40	7440-28-0	
Vanadium	**15.5J**	ug/L	25.0	5.0	1	10/26/12 18:50	11/07/12 20:40	7440-62-2	
Zinc	**10.5**	ug/L	10.0	10.0	1	10/26/12 18:50	11/07/12 20:40	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	11/02/12 16:20	11/05/12 13:32	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/29/12 06:08	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/29/12 06:08	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/29/12 06:08	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/29/12 06:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/29/12 06:08	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/29/12 06:08	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/29/12 06:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/29/12 06:08	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/29/12 06:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/29/12 06:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/29/12 06:08	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/29/12 06:08	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/29/12 06:08	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/29/12 06:08	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/29/12 06:08	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/29/12 06:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/29/12 06:08	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/29/12 06:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/29/12 06:08	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/29/12 06:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/29/12 06:08	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/29/12 06:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/29/12 06:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/29/12 06:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/29/12 06:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/29/12 06:08	156-60-5	

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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

ANALYTICAL RESULTS

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

Sample: 1271 MW55 **Lab ID: 92136549002** Collected: 10/23/12 09:30 Received: 10/25/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/29/12 06:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/29/12 06:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/29/12 06:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/29/12 06:08	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/29/12 06:08	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/29/12 06:08	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/29/12 06:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/29/12 06:08	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/29/12 06:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/29/12 06:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/29/12 06:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/29/12 06:08	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		10/29/12 06:08	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		10/29/12 06:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/29/12 06:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/29/12 06:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/29/12 06:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/29/12 06:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/29/12 06:08	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/29/12 06:08	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/29/12 06:08	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/29/12 06:08	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/29/12 06:08	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/29/12 06:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/29/12 06:08	460-00-4	
Dibromofluoromethane (S)	90	%	70-130		1		10/29/12 06:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		10/29/12 06:08	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		10/29/12 06:08	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**145000**	ug/L	5000	1000	1		11/02/12 18:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**249000**	ug/L	25000	25000	1		10/29/12 16:47		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**29400J**	ug/L	250000	2000	1		11/07/12 23:54	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**14900**	ug/L	1000	1000	1		11/08/12 19:43	16887-00-6	

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(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

ANALYTICAL RESULTS

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

Sample: 1271 MW56 **Lab ID: 92136549003** Collected: 10/23/12 10:00 Received: 10/25/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	10/26/12 18:50	11/07/12 20:44	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:44	7440-38-2	
Barium	**145**	ug/L	100	5.0	1	10/26/12 18:50	11/07/12 20:44	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	10/26/12 18:50	11/07/12 20:44	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	10/26/12 18:50	11/07/12 20:44	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:44	7440-47-3	
Cobalt	**7.2J**	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:44	7440-48-4	
Copper	**32.4**	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:44	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:44	7439-92-1	
Nickel	**15.5J**	ug/L	50.0	5.0	1	10/26/12 18:50	11/07/12 20:44	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	10/26/12 18:50	11/07/12 20:44	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:44	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	10/26/12 18:50	11/07/12 20:44	7440-28-0	
Vanadium	**15.1J**	ug/L	25.0	5.0	1	10/26/12 18:50	11/07/12 20:44	7440-62-2	
Zinc	**10.4**	ug/L	10.0	10.0	1	10/26/12 18:50	11/07/12 20:44	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	11/06/12 17:20	11/07/12 12:50	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/29/12 06:24	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/29/12 06:24	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/29/12 06:24	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/29/12 06:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/29/12 06:24	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/29/12 06:24	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/29/12 06:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/29/12 06:24	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/29/12 06:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/29/12 06:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/29/12 06:24	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/29/12 06:24	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/29/12 06:24	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/29/12 06:24	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/29/12 06:24	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/29/12 06:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/29/12 06:24	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/29/12 06:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/29/12 06:24	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/29/12 06:24	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/29/12 06:24	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/29/12 06:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/29/12 06:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/29/12 06:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/29/12 06:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/29/12 06:24	156-60-5	

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(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

ANALYTICAL RESULTS

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

Sample: 1271 MW56 **Lab ID: 92136549003** Collected: 10/23/12 10:00 Received: 10/25/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/29/12 06:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/29/12 06:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/29/12 06:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/29/12 06:24	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/29/12 06:24	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/29/12 06:24	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/29/12 06:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/29/12 06:24	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/29/12 06:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/29/12 06:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/29/12 06:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/29/12 06:24	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		10/29/12 06:24	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		10/29/12 06:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/29/12 06:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/29/12 06:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/29/12 06:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/29/12 06:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/29/12 06:24	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/29/12 06:24	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/29/12 06:24	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/29/12 06:24	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/29/12 06:24	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/29/12 06:24	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/29/12 06:24	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		10/29/12 06:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		10/29/12 06:24	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		10/29/12 06:24	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**152000**	ug/L	5000	1000	1		11/02/12 18:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**284000**	ug/L	25000	25000	1		10/29/12 16:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**32000J**	ug/L	250000	2000	1		11/08/12 00:08	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**14900**	ug/L	1000	1000	1		11/08/12 19:43	16887-00-6	

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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

ANALYTICAL RESULTS

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

Sample: 1271 MW57 **Lab ID: 92136549004** Collected: 10/23/12 10:30 Received: 10/25/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	10/26/12 18:50	11/07/12 20:48	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:48	7440-38-2	
Barium	**152**	ug/L	100	5.0	1	10/26/12 18:50	11/07/12 20:48	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	10/26/12 18:50	11/07/12 20:48	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	10/26/12 18:50	11/07/12 20:48	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:48	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:48	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:48	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:48	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	10/26/12 18:50	11/07/12 20:48	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	10/26/12 18:50	11/07/12 20:48	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:48	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	10/26/12 18:50	11/07/12 20:48	7440-28-0	
Vanadium	**6.2J**	ug/L	25.0	5.0	1	10/26/12 18:50	11/07/12 20:48	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	10/26/12 18:50	11/07/12 20:48	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	11/06/12 17:20	11/07/12 12:53	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/29/12 06:40	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/29/12 06:40	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/29/12 06:40	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/29/12 06:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/29/12 06:40	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/29/12 06:40	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/29/12 06:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/29/12 06:40	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/29/12 06:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/29/12 06:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/29/12 06:40	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/29/12 06:40	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/29/12 06:40	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/29/12 06:40	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/29/12 06:40	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/29/12 06:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/29/12 06:40	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/29/12 06:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/29/12 06:40	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/29/12 06:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/29/12 06:40	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/29/12 06:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/29/12 06:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/29/12 06:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/29/12 06:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/29/12 06:40	156-60-5	

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(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

ANALYTICAL RESULTS

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

Sample: 1271 MW57 **Lab ID: 92136549004** Collected: 10/23/12 10:30 Received: 10/25/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/29/12 06:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/29/12 06:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/29/12 06:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/29/12 06:40	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/29/12 06:40	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/29/12 06:40	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/29/12 06:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/29/12 06:40	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/29/12 06:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/29/12 06:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/29/12 06:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/29/12 06:40	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		10/29/12 06:40	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		10/29/12 06:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/29/12 06:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/29/12 06:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/29/12 06:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/29/12 06:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/29/12 06:40	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/29/12 06:40	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/29/12 06:40	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/29/12 06:40	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/29/12 06:40	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/29/12 06:40	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/29/12 06:40	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		10/29/12 06:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		10/29/12 06:40	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		10/29/12 06:40	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**692000**	ug/L	5000	1000	1		11/02/12 18:55		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1020000**	ug/L	25000	25000	1		10/29/12 16:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**31400J**	ug/L	250000	2000	1		11/08/12 00:21	14808-79-8	
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**15400**	ug/L	1000	1000	1		11/08/12 19:44	16887-00-6	

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(828)254-7176

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

ANALYTICAL RESULTS

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

Sample: 1271 SW1 **Lab ID: 92136549005** Collected: 10/23/12 11:00 Received: 10/25/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	10/26/12 18:50	11/07/12 20:52	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:52	7440-38-2	
Barium	**42.3J**	ug/L	100	5.0	1	10/26/12 18:50	11/07/12 20:52	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	10/26/12 18:50	11/07/12 20:52	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	10/26/12 18:50	11/07/12 20:52	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:52	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:52	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:52	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:52	7439-92-1	
Nickel	ND	ug/L	50.0	5.0	1	10/26/12 18:50	11/07/12 20:52	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	10/26/12 18:50	11/07/12 20:52	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:52	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	10/26/12 18:50	11/07/12 20:52	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	10/26/12 18:50	11/07/12 20:52	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	10/26/12 18:50	11/07/12 20:52	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	11/06/12 17:20	11/07/12 12:56	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/29/12 06:56	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/29/12 06:56	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/29/12 06:56	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/29/12 06:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/29/12 06:56	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/29/12 06:56	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/29/12 06:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/29/12 06:56	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/29/12 06:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/29/12 06:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/29/12 06:56	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/29/12 06:56	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/29/12 06:56	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/29/12 06:56	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/29/12 06:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/29/12 06:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/29/12 06:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/29/12 06:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/29/12 06:56	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/29/12 06:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/29/12 06:56	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/29/12 06:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/29/12 06:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/29/12 06:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/29/12 06:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/29/12 06:56	156-60-5	

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(336)623-8921

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(828)254-7176

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

ANALYTICAL RESULTS

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

Sample: 1271 SW1 **Lab ID: 92136549005** Collected: 10/23/12 11:00 Received: 10/25/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/29/12 06:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/29/12 06:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/29/12 06:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/29/12 06:56	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/29/12 06:56	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/29/12 06:56	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/29/12 06:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/29/12 06:56	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/29/12 06:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/29/12 06:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/29/12 06:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/29/12 06:56	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		10/29/12 06:56	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		10/29/12 06:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/29/12 06:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/29/12 06:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/29/12 06:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/29/12 06:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/29/12 06:56	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/29/12 06:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/29/12 06:56	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/29/12 06:56	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/29/12 06:56	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/29/12 06:56	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/29/12 06:56	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		10/29/12 06:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		10/29/12 06:56	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/29/12 06:56	2037-26-5	

Sample: 1271 SW2 **Lab ID: 92136549006** Collected: 10/23/12 11:15 Received: 10/25/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	5.0	1	10/26/12 18:50	11/07/12 20:56	7440-36-0	
Arsenic	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:56	7440-38-2	
Barium	**42.1J**	ug/L	100	5.0	1	10/26/12 18:50	11/07/12 20:56	7440-39-3	
Beryllium	ND	ug/L	1.0	1.0	1	10/26/12 18:50	11/07/12 20:56	7440-41-7	
Cadmium	ND	ug/L	1.0	1.0	1	10/26/12 18:50	11/07/12 20:56	7440-43-9	
Chromium	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:56	7440-47-3	
Cobalt	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:56	7440-48-4	
Copper	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:56	7440-50-8	
Lead	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:56	7439-92-1	

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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

ANALYTICAL RESULTS

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

Sample: 1271 SW2 **Lab ID: 92136549006** Collected: 10/23/12 11:15 Received: 10/25/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Nickel	ND	ug/L	50.0	5.0	1	10/26/12 18:50	11/07/12 20:56	7440-02-0	
Selenium	ND	ug/L	10.0	10.0	1	10/26/12 18:50	11/07/12 20:56	7782-49-2	
Silver	ND	ug/L	10.0	5.0	1	10/26/12 18:50	11/07/12 20:56	7440-22-4	
Thallium	ND	ug/L	5.5	5.4	1	10/26/12 18:50	11/07/12 20:56	7440-28-0	
Vanadium	ND	ug/L	25.0	5.0	1	10/26/12 18:50	11/07/12 20:56	7440-62-2	
Zinc	ND	ug/L	10.0	10.0	1	10/26/12 18:50	11/07/12 20:56	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.10	1	11/06/12 17:20	11/07/12 12:58	7439-97-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/29/12 07:12	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/29/12 07:12	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/29/12 07:12	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/29/12 07:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/29/12 07:12	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/29/12 07:12	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/29/12 07:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/29/12 07:12	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/29/12 07:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/29/12 07:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/29/12 07:12	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/29/12 07:12	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/29/12 07:12	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/29/12 07:12	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/29/12 07:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/29/12 07:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/29/12 07:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/29/12 07:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/29/12 07:12	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/29/12 07:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/29/12 07:12	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/29/12 07:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/29/12 07:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/29/12 07:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/29/12 07:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/29/12 07:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/29/12 07:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/29/12 07:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/29/12 07:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/29/12 07:12	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/29/12 07:12	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/29/12 07:12	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/29/12 07:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/29/12 07:12	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/29/12 07:12	100-42-5	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

Sample: 1271 SW2 **Lab ID: 92136549006** Collected: 10/23/12 11:15 Received: 10/25/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/29/12 07:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/29/12 07:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/29/12 07:12	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		10/29/12 07:12	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		10/29/12 07:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/29/12 07:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/29/12 07:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/29/12 07:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/29/12 07:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/29/12 07:12	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/29/12 07:12	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/29/12 07:12	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/29/12 07:12	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/29/12 07:12	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/29/12 07:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		10/29/12 07:12	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		10/29/12 07:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		10/29/12 07:12	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/29/12 07:12	2037-26-5	

Sample: 1271 Field Blank **Lab ID: 92136549007** Collected: 10/23/12 10:15 Received: 10/25/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/29/12 07:28	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/29/12 07:28	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/29/12 07:28	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/29/12 07:28	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/29/12 07:28	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/29/12 07:28	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/29/12 07:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/29/12 07:28	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/29/12 07:28	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/29/12 07:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/29/12 07:28	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/29/12 07:28	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/29/12 07:28	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/29/12 07:28	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/29/12 07:28	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/29/12 07:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/29/12 07:28	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/29/12 07:28	74-95-3	

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

ANALYTICAL RESULTS

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

Sample: 1271 Field Blank **Lab ID: 92136549007** Collected: 10/23/12 10:15 Received: 10/25/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/29/12 07:28	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/29/12 07:28	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/29/12 07:28	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/29/12 07:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/29/12 07:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/29/12 07:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/29/12 07:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/29/12 07:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/29/12 07:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/29/12 07:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/29/12 07:28	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/29/12 07:28	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/29/12 07:28	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/29/12 07:28	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/29/12 07:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/29/12 07:28	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/29/12 07:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/29/12 07:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/29/12 07:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/29/12 07:28	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		10/29/12 07:28	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		10/29/12 07:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/29/12 07:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/29/12 07:28	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/29/12 07:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/29/12 07:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/29/12 07:28	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/29/12 07:28	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/29/12 07:28	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/29/12 07:28	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/29/12 07:28	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/29/12 07:28	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/29/12 07:28	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		10/29/12 07:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		10/29/12 07:28	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/29/12 07:28	2037-26-5	

Sample: 1271 Trip Blank **Lab ID: 92136549008** Collected: 10/23/12 00:00 Received: 10/25/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/29/12 07:44	67-64-1	

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(704)875-9092

ANALYTICAL RESULTS

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

Sample: 1271 Trip Blank **Lab ID: 92136549008** Collected: 10/23/12 00:00 Received: 10/25/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/29/12 07:44	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/29/12 07:44	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/29/12 07:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/29/12 07:44	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/29/12 07:44	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/29/12 07:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/29/12 07:44	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/29/12 07:44	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/29/12 07:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/29/12 07:44	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/29/12 07:44	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/29/12 07:44	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/29/12 07:44	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/29/12 07:44	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/29/12 07:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/29/12 07:44	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/29/12 07:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/29/12 07:44	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/29/12 07:44	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/29/12 07:44	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/29/12 07:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/29/12 07:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/29/12 07:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/29/12 07:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/29/12 07:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/29/12 07:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/29/12 07:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/29/12 07:44	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/29/12 07:44	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/29/12 07:44	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/29/12 07:44	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		10/29/12 07:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/29/12 07:44	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/29/12 07:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/29/12 07:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/29/12 07:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/29/12 07:44	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	3.1	1		10/29/12 07:44	109-99-9	
Toluene	ND	ug/L	1.0	0.26	1		10/29/12 07:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/29/12 07:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/29/12 07:44	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/29/12 07:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/29/12 07:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/29/12 07:44	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/29/12 07:44	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/29/12 07:44	75-01-4	

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(336)623-8921

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

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

ANALYTICAL RESULTS

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

Sample: 1271 Trip Blank **Lab ID: 92136549008** Collected: 10/23/12 00:00 Received: 10/25/12 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/29/12 07:44	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/29/12 07:44	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/29/12 07:44	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/29/12 07:44	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		10/29/12 07:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		10/29/12 07:44	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		10/29/12 07:44	2037-26-5	

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QUALITY CONTROL DATA

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

QC Batch: MERP/4646
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 92136549001, 92136549002

METHOD BLANK: 865435
Matrix: Water
Associated Lab Samples: 92136549001, 92136549002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/05/12 12:21	

LABORATORY CONTROL SAMPLE: 865436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 865437 865438

Parameter	Units	92135946002 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	2.5	2.5	97	97	75-125	1	25	

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QUALITY CONTROL DATA

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

QC Batch: MERP/4654 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92136549003, 92136549004, 92136549005, 92136549006

METHOD BLANK: 866354 Matrix: Water
Associated Lab Samples: 92136549003, 92136549004, 92136549005, 92136549006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/07/12 12:45	

LABORATORY CONTROL SAMPLE: 866355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.1	84	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 866356 866357

Parameter	Units	92136578003 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	2.1	2.1	83	81	75-125	3	25	

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QUALITY CONTROL DATA

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

QC Batch: MPRP/11830 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92136549001, 92136549002, 92136549003, 92136549004, 92136549005, 92136549006

METHOD BLANK: 861308 Matrix: Water
Associated Lab Samples: 92136549001, 92136549002, 92136549003, 92136549004, 92136549005, 92136549006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	11/07/12 19:54	
Arsenic	ug/L	ND	10.0	11/07/12 19:54	
Barium	ug/L	ND	100	11/07/12 19:54	
Beryllium	ug/L	ND	1.0	11/07/12 19:54	
Cadmium	ug/L	ND	1.0	11/07/12 19:54	
Chromium	ug/L	ND	10.0	11/07/12 19:54	
Cobalt	ug/L	ND	10.0	11/07/12 19:54	
Copper	ug/L	ND	10.0	11/07/12 19:54	
Lead	ug/L	ND	10.0	11/07/12 19:54	
Nickel	ug/L	ND	50.0	11/07/12 19:54	
Selenium	ug/L	ND	10.0	11/07/12 19:54	
Silver	ug/L	ND	10.0	11/07/12 19:54	
Thallium	ug/L	ND	5.5	11/07/12 19:54	
Vanadium	ug/L	ND	25.0	11/07/12 19:54	
Zinc	ug/L	ND	10.0	11/07/12 19:54	

LABORATORY CONTROL SAMPLE: 861309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	505	101	80-120	
Arsenic	ug/L	500	497	99	80-120	
Barium	ug/L	500	496	99	80-120	
Beryllium	ug/L	500	519	104	80-120	
Cadmium	ug/L	500	505	101	80-120	
Chromium	ug/L	500	502	100	80-120	
Cobalt	ug/L	500	495	99	80-120	
Copper	ug/L	500	497	99	80-120	
Lead	ug/L	500	505	101	80-120	
Nickel	ug/L	500	493	99	80-120	
Selenium	ug/L	500	506	101	80-120	
Silver	ug/L	250	255	102	80-120	
Thallium	ug/L	500	493	99	80-120	
Vanadium	ug/L	500	496	99	80-120	
Zinc	ug/L	500	501	100	80-120	

MATRIX SPIKE SAMPLE: 861310

Parameter	Units	92136379006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	512	102	75-125	
Arsenic	ug/L	ND	500	506	101	75-125	

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QUALITY CONTROL DATA

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

MATRIX SPIKE SAMPLE: 861310

Parameter	Units	92136379006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	41.7J	500	540	100	75-125	
Beryllium	ug/L	ND	500	523	105	75-125	
Cadmium	ug/L	ND	500	507	101	75-125	
Chromium	ug/L	ND	500	509	102	75-125	
Cobalt	ug/L	ND	500	502	99	75-125	
Copper	ug/L	ND	500	511	101	75-125	
Lead	ug/L	ND	500	504	100	75-125	
Nickel	ug/L	ND	500	494	99	75-125	
Selenium	ug/L	ND	500	506	101	75-125	
Silver	ug/L	ND	250	257	103	75-125	
Thallium	ug/L	ND	500	491	98	75-125	
Vanadium	ug/L	ND	500	508	101	75-125	
Zinc	ug/L	16.4	500	520	101	75-125	

SAMPLE DUPLICATE: 861311

Parameter	Units	92136379007 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	18.5J	18.2J	2	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND		25	
Cobalt	ug/L	ND	ND		25	
Copper	ug/L	ND	ND		25	
Lead	ug/L	ND	ND		25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	ND		25	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

QC Batch: MSV/20880 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92136549001, 92136549002, 92136549003, 92136549004, 92136549005, 92136549006, 92136549007, 92136549008

METHOD BLANK: 861761 Matrix: Water
Associated Lab Samples: 92136549001, 92136549002, 92136549003, 92136549004, 92136549005, 92136549006, 92136549007, 92136549008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/29/12 00:20	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/29/12 00:20	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/29/12 00:20	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/29/12 00:20	
1,1-Dichloroethane	ug/L	ND	1.0	10/29/12 00:20	
1,1-Dichloroethene	ug/L	ND	1.0	10/29/12 00:20	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/29/12 00:20	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	10/29/12 00:20	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/29/12 00:20	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/29/12 00:20	
1,2-Dichloroethane	ug/L	ND	1.0	10/29/12 00:20	
1,2-Dichloropropane	ug/L	ND	1.0	10/29/12 00:20	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/29/12 00:20	
2-Butanone (MEK)	ug/L	ND	5.0	10/29/12 00:20	
2-Hexanone	ug/L	ND	5.0	10/29/12 00:20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/29/12 00:20	
Acetone	ug/L	ND	25.0	10/29/12 00:20	
Acrylonitrile	ug/L	ND	10.0	10/29/12 00:20	
Benzene	ug/L	ND	1.0	10/29/12 00:20	
Bromochloromethane	ug/L	ND	1.0	10/29/12 00:20	
Bromodichloromethane	ug/L	ND	1.0	10/29/12 00:20	
Bromoform	ug/L	ND	1.0	10/29/12 00:20	
Bromomethane	ug/L	ND	2.0	10/29/12 00:20	
Carbon disulfide	ug/L	ND	2.0	10/29/12 00:20	
Carbon tetrachloride	ug/L	ND	1.0	10/29/12 00:20	
Chlorobenzene	ug/L	ND	1.0	10/29/12 00:20	
Chloroethane	ug/L	ND	1.0	10/29/12 00:20	
Chloroform	ug/L	ND	1.0	10/29/12 00:20	
Chloromethane	ug/L	ND	1.0	10/29/12 00:20	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/29/12 00:20	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/29/12 00:20	
Dibromochloromethane	ug/L	ND	1.0	10/29/12 00:20	
Dibromomethane	ug/L	ND	1.0	10/29/12 00:20	
Ethylbenzene	ug/L	ND	1.0	10/29/12 00:20	
Iodomethane	ug/L	ND	5.0	10/29/12 00:20	
m&p-Xylene	ug/L	ND	2.0	10/29/12 00:20	
Methylene Chloride	ug/L	ND	1.0	10/29/12 00:20	
o-Xylene	ug/L	ND	1.0	10/29/12 00:20	
Styrene	ug/L	ND	1.0	10/29/12 00:20	
Tetrachloroethene	ug/L	ND	1.0	10/29/12 00:20	
Tetrahydrofuran	ug/L	ND	10.0	10/29/12 00:20	

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2225 Riverside Dr.
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(828)254-7176

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

QUALITY CONTROL DATA

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

METHOD BLANK: 861761 Matrix: Water

Associated Lab Samples: 92136549001, 92136549002, 92136549003, 92136549004, 92136549005, 92136549006, 92136549007, 92136549008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	10/29/12 00:20	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/29/12 00:20	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/29/12 00:20	
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	10/29/12 00:20	
Trichloroethene	ug/L	ND	1.0	10/29/12 00:20	
Trichlorofluoromethane	ug/L	ND	1.0	10/29/12 00:20	
Vinyl acetate	ug/L	ND	2.0	10/29/12 00:20	
Vinyl chloride	ug/L	ND	1.0	10/29/12 00:20	
Xylene (Total)	ug/L	ND	2.0	10/29/12 00:20	
1,2-Dichloroethane-d4 (S)	%	100	70-130	10/29/12 00:20	
4-Bromofluorobenzene (S)	%	99	70-130	10/29/12 00:20	
Dibromofluoromethane (S)	%	90	70-130	10/29/12 00:20	
Toluene-d8 (S)	%	96	70-130	10/29/12 00:20	

LABORATORY CONTROL SAMPLE: 861762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.4	97	70-130	
1,1,1-Trichloroethane	ug/L	50	43.2	86	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.4	101	70-130	
1,1,2-Trichloroethane	ug/L	50	48.9	98	70-130	
1,1-Dichloroethane	ug/L	50	43.8	88	70-130	
1,1-Dichloroethene	ug/L	50	50.6	101	70-132	
1,2,3-Trichloropropane	ug/L	50	51.4	103	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	53.9	108	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	49.0	98	70-130	
1,2-Dichlorobenzene	ug/L	50	48.9	98	70-130	
1,2-Dichloroethane	ug/L	50	46.4	93	70-130	
1,2-Dichloropropane	ug/L	50	45.9	92	70-130	
1,4-Dichlorobenzene	ug/L	50	49.1	98	70-130	
2-Butanone (MEK)	ug/L	100	103	103	70-145	
2-Hexanone	ug/L	100	124	124	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	117	117	70-140	
Acetone	ug/L	100	117	117	50-175	
Acrylonitrile	ug/L	250	245	98	70-143	
Benzene	ug/L	50	45.8	92	70-130	
Bromochloromethane	ug/L	50	40.1	80	70-130	
Bromodichloromethane	ug/L	50	49.0	98	70-130	
Bromoform	ug/L	50	49.5	99	70-130	
Bromomethane	ug/L	50	48.6	97	54-130	
Carbon disulfide	ug/L	50	48.9	98	70-131	
Carbon tetrachloride	ug/L	50	43.0	86	70-132	
Chlorobenzene	ug/L	50	48.9	98	70-130	
Chloroethane	ug/L	50	50.1	100	64-134	

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QUALITY CONTROL DATA

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

LABORATORY CONTROL SAMPLE: 861762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	50	43.0	86	70-130	
Chloromethane	ug/L	50	42.2	84	64-130	
cis-1,2-Dichloroethene	ug/L	50	43.4	87	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.2	96	70-130	
Dibromochloromethane	ug/L	50	47.5	95	70-130	
Dibromomethane	ug/L	50	45.6	91	70-131	
Ethylbenzene	ug/L	50	49.0	98	70-130	
Iodomethane	ug/L	100	89.3	89	49-180	
m&p-Xylene	ug/L	100	102	102	70-130	
Methylene Chloride	ug/L	50	41.2	82	63-130	
o-Xylene	ug/L	50	49.3	99	70-130	
Styrene	ug/L	50	50.2	100	70-130	
Tetrachloroethene	ug/L	50	44.6	89	70-130	
Tetrahydrofuran	ug/L	500	513	103	70-130	
Toluene	ug/L	50	47.2	94	70-130	
trans-1,2-Dichloroethene	ug/L	50	41.2	82	70-130	
trans-1,3-Dichloropropene	ug/L	50	49.3	99	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	60.5	121	70-141	
Trichloroethene	ug/L	50	44.0	88	70-130	
Trichlorofluoromethane	ug/L	50	57.5	115	62-133	
Vinyl acetate	ug/L	100	97.0	97	66-157	
Vinyl chloride	ug/L	50	39.6	79	69-130	
Xylene (Total)	ug/L	150	151	101	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			87	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 861763 861764

Parameter	Units	92136561006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	62.0	66.6	124	133	70-166	7	30	
Benzene	ug/L	0.87J	50	50	51.2	54.6	101	107	70-148	6	30	
Chlorobenzene	ug/L	ND	50	50	59.6	64.1	119	128	70-146	7	30	
Toluene	ug/L	ND	50	50	58.4	60.4	116	121	70-155	3	30	
Trichloroethene	ug/L	ND	50	50	55.8	61.3	112	123	69-151	9	30	
1,2-Dichloroethane-d4 (S)	%						102	102	70-130			
4-Bromofluorobenzene (S)	%						97	99	70-130			
Dibromofluoromethane (S)	%						96	93	70-130			
Toluene-d8 (S)	%						100	97	70-130			

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QUALITY CONTROL DATA

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

QC Batch: WET/22994 — Analysis Method: SM 2320B
QC Batch Method: SM 2320B — Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92136549001, 92136549002, 92136549003, 92136549004

METHOD BLANK: 865587 — Matrix: Water
Associated Lab Samples: 92136549001, 92136549002, 92136549003, 92136549004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	ug/L	ND	5000	11/02/12 16:58	

LABORATORY CONTROL SAMPLE: 865588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	50000	46500	93	90-110	

MATRIX SPIKE SAMPLE: 865590

Parameter	Units	92136280005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	87.5 mg/L	50000	130000	85		

MATRIX SPIKE SAMPLE: 865592

Parameter	Units	92136379005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	ug/L	67700	50000	111000	87		

SAMPLE DUPLICATE: 865589

Parameter	Units	92136280005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	87.5 mg/L	87200	0	20	

SAMPLE DUPLICATE: 865591

Parameter	Units	92136379005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	ug/L	67700	67700	0	20	

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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: HWY 49 C&D EP-1271
Pace Project No.: 92136549

QC Batch: WET/22921 — Analysis Method: SM 2540C
QC Batch Method: SM 2540C — Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92136549001, 92136549002, 92136549003, 92136549004

METHOD BLANK: 862194 — Matrix: Water
Associated Lab Samples: 92136549001, 92136549002, 92136549003, 92136549004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	ug/L	ND	25000	10/29/12 16:46	

LABORATORY CONTROL SAMPLE: 862195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	ug/L	250000	244000	98	80-120	

SAMPLE DUPLICATE: 862196

Parameter	Units	92136549001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	ug/L	242000	242000	0	20	

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QUALITY CONTROL DATA

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

QC Batch: WETA/13650 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92136549001, 92136549002, 92136549003, 92136549004

METHOD BLANK: 865373 Matrix: Water
Associated Lab Samples: 92136549001, 92136549002, 92136549003, 92136549004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	250000	11/07/12 21:25	

LABORATORY CONTROL SAMPLE: 865374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	18600J	93	90-110	

MATRIX SPIKE SAMPLE: 865375

Parameter	Units	92136379006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	2180J	20000	30900J	143	90-110	M1

MATRIX SPIKE SAMPLE: 865377

Parameter	Units	92136561003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	114000J	20000	229000J	573	90-110	M6

SAMPLE DUPLICATE: 865376

Parameter	Units	92136379006 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	2180J	2170J	0	20	

SAMPLE DUPLICATE: 865378

Parameter	Units	92136561003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	114000J	116000J	1	20	

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QUALITY CONTROL DATA

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

QC Batch: WETA/13701 — Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E — Analysis Description: 4500 Chloride
Associated Lab Samples: 92136549001, 92136549002, 92136549003, 92136549004

METHOD BLANK: 869194 — Matrix: Water
Associated Lab Samples: 92136549001, 92136549002, 92136549003, 92136549004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	1000	11/08/12 19:31	

LABORATORY CONTROL SAMPLE: 869195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	20000	20000	100	90-110	

MATRIX SPIKE SAMPLE: 869196

Parameter	Units	92136280005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	50.6 mg/L	20000	70200	98	75-125	

SAMPLE DUPLICATE: 869197

Parameter	Units	92136280005 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	ug/L	50.6 mg/L	50200	1	20	

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QUALIFIERS

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

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

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HWY 49 C&D EP-1271
Pace Project No.: 92136549

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92136549001	1271 MW21	EPA 3010	MPRP/11830	EPA 6010	ICP/10834
92136549002	1271 MW55	EPA 3010	MPRP/11830	EPA 6010	ICP/10834
92136549003	1271 MW56	EPA 3010	MPRP/11830	EPA 6010	ICP/10834
92136549004	1271 MW57	EPA 3010	MPRP/11830	EPA 6010	ICP/10834
92136549005	1271 SW1	EPA 3010	MPRP/11830	EPA 6010	ICP/10834
92136549006	1271 SW2	EPA 3010	MPRP/11830	EPA 6010	ICP/10834
92136549001	1271 MW21	EPA 7470	MERP/4646	EPA 7470	MERC/4549
92136549002	1271 MW55	EPA 7470	MERP/4646	EPA 7470	MERC/4549
92136549003	1271 MW56	EPA 7470	MERP/4654	EPA 7470	MERC/4557
92136549004	1271 MW57	EPA 7470	MERP/4654	EPA 7470	MERC/4557
92136549005	1271 SW1	EPA 7470	MERP/4654	EPA 7470	MERC/4557
92136549006	1271 SW2	EPA 7470	MERP/4654	EPA 7470	MERC/4557
92136549001	1271 MW21	EPA 8260	MSV/20880		
92136549002	1271 MW55	EPA 8260	MSV/20880		
92136549003	1271 MW56	EPA 8260	MSV/20880		
92136549004	1271 MW57	EPA 8260	MSV/20880		
92136549005	1271 SW1	EPA 8260	MSV/20880		
92136549006	1271 SW2	EPA 8260	MSV/20880		
92136549007	1271 Field Blank	EPA 8260	MSV/20880		
92136549008	1271 Trip Blank	EPA 8260	MSV/20880		
92136549001	1271 MW21	SM 2320B	WET/22994		
92136549002	1271 MW55	SM 2320B	WET/22994		
92136549003	1271 MW56	SM 2320B	WET/22994		
92136549004	1271 MW57	SM 2320B	WET/22994		
92136549001	1271 MW21	SM 2540C	WET/22921		
92136549002	1271 MW55	SM 2540C	WET/22921		
92136549003	1271 MW56	SM 2540C	WET/22921		
92136549004	1271 MW57	SM 2540C	WET/22921		
92136549001	1271 MW21	EPA 300.0	WETA/13650		
92136549002	1271 MW55	EPA 300.0	WETA/13650		
92136549003	1271 MW56	EPA 300.0	WETA/13650		
92136549004	1271 MW57	EPA 300.0	WETA/13650		
92136549001	1271 MW21	SM 4500-Cl-E	WETA/13701		
92136549002	1271 MW55	SM 4500-Cl-E	WETA/13701		
92136549003	1271 MW56	SM 4500-Cl-E	WETA/13701		
92136549004	1271 MW57	SM 4500-Cl-E	WETA/13701		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1655590

Section A Required Client Information:

Company: Enviro-Pro, P.C.
Address: 2646 Farmlake Ln.
Ft. Mill, SC 29708
Email To: enviropro@comportium.net
Phone: 803-547-1955 Fax:
Requested Due Date/TAT: 2 wks

Section B Required Project Information:

Report To: Tom Bolyard
Copy To:
Purchase Order No.:
Project Name: Hwy 49 C&D
Project Number: EP-1271

Section C Invoice Information:

Attention: Tom Bolyard
Company Name: Same
Address:
Pace Quote Reference:
Pace Project Manager: Tripp Hardin
Pace Profile #:

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

Site Location STATE: NC

Section D Required Client Information

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

Sample Type: (G=GRAB C=COMP)

Requested Analysis Filtered (Y/N): N N N N N N

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE	SAMPLE TYPE	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: App I VOCs + THF	App I Metals + Hg	TDS	Alkalinity	Chloride	Sulfate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92136549
1	MW-21	WT	G			10/23/12	9:00		8	4		1	3					✓	✓	✓	✓	✓	✓		001
2	MW-55	WT	G			"	9:30		8	4		1	3					✓	✓	✓	✓	✓	✓		002
3	MW-56	WT	G			"	10:00		8	4		1	3					✓	✓	✓	✓	✓	✓		003
4	MW-57	WT	G			"	10:30		8	4		1	3					✓	✓	✓	✓	✓	✓		004
5	SW-1	WT	G			"	11:00		4			1	3					✓	✓						005
6	SW-2	WT	G			"	11:15		4			1	3					✓	✓						006
7	Field Blank	WT	G			"	10:15		2				2					✓							007
8	Trip Blank	WT	G			"	—		2				2					✓							008
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Use low-level NC DENR Solid Waste	T. Bolyard / Enviro-Pro	10/25/12	1440	[signature] / Pace	10/25/12	1440
Detection Limits; Send EDD	[signature] / Pace	10/25/12	1600	RP / Pace	10-25-12	16:00
version						

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

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: T. Bolyard
SIGNATURE of SAMPLER: T. Bolyard
DATE Signed (MM/DD/YY): 10/24/12

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

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 7, 2012 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.07**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Enviro. Prod. P.C. Project # 92136549

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

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

Optional
Proj. Due Date:
Proj. Name:

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

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

Thermometer Used: IR Gun (T1101) T1102 **Type of Ice:** (Wet) Blue None [X] Samples on ice, cooling process has begun

Temp Correction Factor **T1101**: No Correction **T1102**: No Correction

Corrected Cooler Temp.: 4.1 C **Biological Tissue Is Frozen:** Yes No (N/A)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: RP 10.25.12

		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: -Includes date/time/ID/Analysis Matrix:	[ ] Yes [X] No [ ] N/A	12. 1-4 → TDS No Lable on Bottles. (TIME, Date, ID. analysis.) 8 → Trip Blank No TIME, Date, ID on Vials.
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 [X] No [X] N/A	14. RP 10/25/12
Headspace in VOA Vials (>6mm):	[ ] Yes [X] No [ ] N/A	15.
Trip Blank Present:	[X] Yes [ ] No [ ] N/A	16.
Trip Blank Custody Seals Present	[X] Yes [X] No [ ] N/A	RP 10.25.12
Pace Trip Blank Lot # (if purchased):		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: CAH **Date:** 10/25/12 **SRF Review:** [illegible] **Date:** 10/29/12

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)

APPENDIX B

WELL DEVELOPMENT, PURGE, AND SAMPLE RECORD

CLIENT: Hwy 49 C&D Landfill, Inc.
LOCATION: Harrisburg, NC
PROJECT NAME/DESCRIPTION: Hwy 49 C&D
DATE OF WATER LEVEL MEASUREMENTS: 10-23-12

DEVELOP:
PURGING: ✓
SAMPLING: ✓

PROJECT NO.: EP-1271
PROJ. MGR.: THB
CHECKED BY:
PREPARED BY: THB

Sample ID	A Well No.	B Sample Date	C Time (hrs)	D Well Depth (ft)	E MP Elevation (ft)	F Depth to Water (ft-bmp)	(E - F) = G Water Level Elevation (ft)	(D - F) = H Hgt. of Water Col. (ft)	I Volume of Water (gal)*	Vol. of Water Pgd. (gal)**	Temp. (°C)	Specific Cond. (umhos)	pH	Turbidity or Appearance
	MW-21	10-23-12	9:00	50		38.00		12.0	1.96	6.0				
	MW-55	"	9:30	23		12.22		10.78	1.7	5.0				
	MW-56	"	10:00	25		8.91		16.09	2.5	7.5				
	MW-57	"	10:30	17		10.80		6.2	1.0	3.0				
	SW-1 (up)	"	11:00	—		—		—	—	—				
	SW-2 (down)	"	11:15	—		—		—	—	—				
	Field Blank	"	10:15	—		—		—	—	—				

Comments:

*To calculate volume of water in the well multiply "H" by 0.163 for a 2" well, 0.652 for a 4" well, or 1.469 for a 6" well.

**To calculate purge volume, multiply "I" by the desired number of well volumes (e.g., 3 to 5).

(e.g., after each well volume).