Prepared for:

Coble's Sandrock, Inc.
5833 Foster Store Road
Liberty, North Carolina 27298

JEI Project No. 00419.0700.11, Task No. 35

REPORT OF BACKGROUND SAMPLING FOR PHASE 3

COBLE'S SANDROCK CONSTRUCTION & DEMOLITION DEBRIS LANDFILL
ALAMANCE COUNTY, NORTH CAROLINA
PERMIT NO. 01-05

December 2009

Prepared by:

JOYCE ENGINEERING, INC.

2211 West Meadowview Road, Suite 101
Greensboro, North Carolina 27407
Phone: (336) 323-0092
Fax: (336) 323-0093

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):

Joyce Engineering, Inc.

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

Name: Jeremey J. Kerly Phone: (336) 323-0092

E-mail: jkerly@joyceengineering.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Coble's Sandrock, Inc. C&D Debris Landfill	5833 Foster Store Road Liberty, NC 27928	01-05	.0500	March 18-19, 2009 April 21-22, 2009 May 13-14, 2009 October 7-8, 2009

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.

Jeremey J. Kerly — Facility Representative Name (Print)

Project Consultant — Title

(336) 323-0092 — (Area Code) Telephone Number

Signature

12-2-09 — Date

Affix NC Licensed Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 2097 GEOLOGIST JEREMEY JOHN KERLY

2211 West Meadowview Road, Suite 101 Greensboro, NC 27407

Facility Representative Address

C-0782

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

Revised 6/2009

Report of Background Sampling for Phase 3
Coble's Sandrock Construction & Demolition Debris Landfill
Liberty, North Carolina

Summary

Monitoring wells MW-8, MW-10S, and P-19S at the Coble's Sandrock C&D Debris Landfill, Permit No. 01-05, were purged and sampled during four independent background sampling events performed on March 18-19, 2009, April 21-22, 2009, May 13-14, 2009, and October 7-8, 2009. Samples obtained from wells MW-8, MW-10S, and P-19S were analyzed for the NC Appendix I list of constituents plus Mercury, Chloride, Manganese, Sulfate, Iron, Specific Conductance, pH, Temperature, Alkalinity, and Total Dissolved Solids. A summary of groundwater constituents is provided in Table 1. A summary of the field parameters is provided in Table 2.

Tables

Table 1	Summary of Groundwater Constituents
Table 2	Summary of Groundwater Field Parameters

Appendices

Appendix 1	Results of Analyses – Background Event No. 1 (March 2009) Results as Reported by the Laboratory Field Forms
Appendix 2	Results of Analyses – Background Event No. 2 (April 2009) Results as Reported by the Laboratory Field Forms
Appendix 3	Results of Analyses – Background Event No. 3 (May 2009) Results as Reported by the Laboratory Field Forms
Appendix 4	Results of Analyses – Background Event No. 4 (October 2009) Results as Reported by the Laboratory Field Forms

Tables

Table 1	Summary of Groundwater Constituents
Table 2	Summary of Groundwater Field Parameters

TABLE 1
SUMMARY OF GROUNDWATER CONSTITUENTS

Constituent	Date	Concentration (µg/L)									
		DL	RL	Bacgkround						Blanks	
				MW-8		MW-10S		P-19S			
Antimony	19-Mar-09	2.6	6.0	3.1	J	ND		ND		ND	
GWPS = 1.4 µg/L	22-Apr-09	2.6	6.0	ND		ND		ND		ND	
	14-May-09	2.6	6.0	ND		ND		ND		ND	
	8-Oct-09	2.6	6.0	ND		ND		ND		ND	
Arsenic	19-Mar-09	2.7	10.0	4.8	J	3.1	J	ND		ND	
NC 2L = 50 µg/L	22-Apr-09	2.7	10.0	ND		ND		ND		ND	
	14-May-09	2.7	10.0	ND		ND		ND		ND	
	8-Oct-09	2.7	10.0	ND		ND		ND		ND	
Barium	19-Mar-09	0.20	100	357		59.0	J	62.4	B	11.5	J
NC 2L = 2,000 µg/L	22-Apr-09	0.20	100	95.0	J	56.5	B	63.2	B	13.8	J
	14-May-09	0.20	100	101		49.1	B	74.1		12.5	J
	8-Oct-09	0.20	100	120		85.5	J	113		15.4	J
Beryllium	19-Mar-09	0.10	1.0	1.3		0.13	J	ND		ND	
GWPS = 4 µg/L	22-Apr-09	0.10	1.0	0.20	J	ND		ND		ND	
	14-May-09	0.10	1.0	0.21		ND		ND		ND	
	8-Oct-09	0.10	1.0	0.48	B	0.23	B	ND		0.1	J
Cadmium	19-Mar-09	0.50	1.0	ND		ND		ND		ND	
NC 2L = 1.75 µg/L	22-Apr-09	0.50	1.0	ND		ND		ND		ND	
	14-May-09	0.50	1.0	ND		ND		ND		ND	
	8-Oct-09	0.50	1.0	ND		ND		ND		ND	
Chromium	19-Mar-09	0.40	10.0	25.0		14.3		0.57	B	0.54	J
NC 2L = 50 µg/L	22-Apr-09	0.40	10.0	6.5	J	10.2		ND		ND	
	14-May-09	0.40	10.0	6.3	J	7.6	J	ND		ND	
	8-Oct-09	0.40	10.0	8.6	J	25.1		0.45	J	ND	
Cobalt	19-Mar-09	0.60	10.0	32.8		4.5	B	9.9	B	4.5	J
GWPS = 70 µg/L	22-Apr-09	0.60	10.0	9.7	B	1.8	B	10.4	B	5.7	J
	14-May-09	0.60	10.0	11.1	B	4.8	B	10.3	B	4.6	J
	8-Oct-09	0.60	10.0	6.1	J	6.8	J	5.9	J	ND	
Copper	19-Mar-09	0.30	10.0	9.1	J	15.6		ND		ND	
NC 2L = 1,000 µg/L	22-Apr-09	0.30	10.0	2.1	B	15.3	B	0.52	B	0.78	J
	14-May-09	0.30	10.0	1.9	J	11.8		ND		ND	
	8-Oct-09	0.30	10.0	2.4	J	27.8		0.44	J	ND	
Iron	19-Mar-09	14.0	300	54500		4810		3150		21.6	J
NC 2L/GWPS = NE	22-Apr-09	14.0	300	14600		3470		4130		ND	
	14-May-09	14.0	300	15600.0		2680		2020		ND	
	8-Oct-09	14.0	300	19400		9670		8060		ND	
Lead	19-Mar-09	4.0	10.0	ND		ND		ND		ND	
NC 2L = 15 µg/L	22-Apr-09	4.0	10.0	ND		ND		ND		ND	
	14-May-09	4.0	10.0	ND		ND		ND		ND	
	8-Oct-09	4.0	10.0	ND		ND		ND		ND	

TABLE 1
SUMMARY OF GROUNDWATER CONSTITUENTS

Constituent	Date	Concentration (µg/L)									
		DL	RL	Bacgkround						Blanks	
				MW-8		MW-10S		P-19S			
Manganese	19-Mar-09	0.30	50.0	830		359		1280		5.2	J
NC 2L/GWPS = NE	22-Apr-09	0.30	50.0	188		553		850		4.7	J
	14-May-09	0.30	50.0	196		640		819		4	J
	8-Oct-09	0.30	50.0	236		1050		1890		6.4	J
Mercury	19-Mar-09	0.070	0.20	0.10	B	0.098	B	0.070	B	0.086	J
NC 2L = 1.05 µg/L	22-Apr-09	0.070	0.20	ND		ND		ND		ND	
	14-May-09	0.070	0.20	ND		ND		ND		ND	
	8-Oct-09	0.070	0.20	0.075	J	ND		ND		ND	
Nickel	19-Mar-09	1.7	50.0	25.0	J	8.2	B	2.0	B	1.8	J
NC 2L = 100 µg/L	22-Apr-09	1.7	50.0	6.6	B	6.3	B	ND		1.8	J
	14-May-09	1.7	50.0	6.1	J	4.8	J	ND		ND	
	8-Oct-09	1.7	50.0	9	J	13.8	J	2.2	J	ND	
Selenium	19-Mar-09	3.8	10.0	5.4	J	ND		ND		ND	
NC 2L = 50 µg/L	22-Apr-09	3.8	10.0	ND		ND		ND		ND	
	14-May-09	3.8	10.0	ND		ND		ND		ND	
	8-Oct-09	3.8	10.0	ND		ND		ND		ND	
Silver	19-Mar-09	0.10	10.0	0.55	J	0.32	J	ND		ND	
NC 2L = 17.5 µg/L	22-Apr-09	0.10	10.0	0.33	B	0.46	B	0.24	B	0.14	J
	14-May-09	0.10	10.0	0.18	B	0.25	B	0.11	B	0.29	J
	8-Oct-09	0.10	10.0	0.41	B	0.6	J	0.27	B	0.1	J
Thallium	19-Mar-09	3.0	5.5	4.9	J	ND		3.8	J	ND	
GWPS = 0.28 µg/L	22-Apr-09	3.0	5.5	ND		ND		ND		ND	
	14-May-09	3.0	5.5	ND		ND		ND		ND	
	8-Oct-09	3.0	5.5	ND		ND		ND		ND	
Vanadium	19-Mar-09	0.20	25.0	73.1		16.0	J	1.6	B	0.86	J
GWPS = 3.5 µg/L	22-Apr-09	0.20	25.0	17.6	J	15.6	J	2.6	B	1.2	J
	14-May-09	0.20	25.0	18.4	J	12.5	J	1.5	B	0.85	J
	8-Oct-09	0.20	25.0	23.3	J	25.6		4.3	J	0.63	J
Zinc	19-Mar-09	0.40	10.0	161		11.0	B	4.1	B	6.7	J
NC 2L = 1,050 µg/L	22-Apr-09	0.40	10.0	34.9		5.9	B	3.8	B	1.6	J
	14-May-09	0.40	10.0	32.3		4	B	1.2	B	2.9	J
	8-Oct-09	0.40	10.0	39.2		14	B	1.9	B	2.9	J
Alkalinity	19-Mar-09	5000	5000	61000	B	52800	B	30500	B	26400	
NC 2L/GWPS = NE	22-Apr-09	5000	5000	57300	B	52400	B	32500	B	23900	
	14-May-09	5000	5000	55700	B	59400	B	30700	B	22900	
	8-Oct-09	5000	5000	58000	B	74000	B	70000	B	26000	
Total Dissolved Solids	19-Mar-09	NR	40000	104000		270000		100000		14000	J
NC 2L/GWPS = NE	22-Apr-09	20000	20000	104000	B	204000	B	84000	B	78000	
	14-May-09	20000	20000	94000	B	210000	B	110000	B	78000	
	8-Oct-09	20000	20000	164000	B	288000	B	152000	B	88000	

TABLE 1
SUMMARY OF GROUNDWATER CONSTITUENTS

Constituent	Date	Concentration (µg/L)									
		DL	RL	Bacgkround						Blanks	
				MW-8		MW-10S		P-19S			
Chloride	19-Mar-09	5000	5000	6700	B	13100	B	10900	B	12000	
NC 2L/GWPS = NE	22-Apr-09	5000	5000	6900	B	13700	B	9500	B	11800	
	14-May-09	5000	5000	7800	B	16400	B	11200	B	10700	
	8-Oct-09	5000	5000	5500	B	17200	B	13100	B	11400	
Sulfate	19-Mar-09	5000	250000	8100	B	31400	B	16500	B	10700	J
NC 2L/GWPS = NE	22-Apr-09	5000	250000	5800	B	23300	B	16600	B	12200	J
	14-May-09	5000	250000	11200	B	30400	B	15900	B	10700	J
	8-Oct-09	5000	250000	ND		38500	B	6300	B	12100	J

Notes:

1. DL = Laboratory's lowest detection limit, but is not quantifiable.
2. RL = Laboratory-specific Reporting Limit.
3. ND = Not detected above laboratory detection limit.
4. NR = Not reported.
5. B = Attributed to lab or field contamination since concentration is within five times the concentration in a quality control blank.
6. J = Estimated value since the concentration is less than the Reporting Limit (RL) but above the laboratory detection limit (DL).
7. NC 2L Standard = North Carolina's groundwater quality standard established under 15A NCAC 2L, .0202.
8. GWPS = Groundwater Protection Standards.
9. Shaded values are above the NC 2L Standard or GWPS.
10. NE = Not established.

TABLE 2
SUMMARY OF GROUNDWATER FIELD PARAMETERS

Parameter	Date	Bacgkround		
		MW-8	MW-10S	P-19S
Temperature (degrees C)	19-Mar-09	14.3	13.3	12.0
	22-Apr-09	13.6	12.5	12.6
	14-May-09	17.1	16.3	16.6
	8-Oct-09	15.8	15.8	15.2
pH	19-Mar-09	6.53	6.15	5.97
	22-Apr-09	7.68	6.70	5.78
	14-May-09	6.31	6.42	5.58
	8-Oct-09	6.86	6.59	6.61
Conductivity (uS/cm)	19-Mar-09	131.0	191	160.4
	22-Apr-09	146.7	178.5	146.6
	14-May-09	125.9	194	164.8
	8-Oct-09	125.9	255	209
Turbidity (NTU)	19-Mar-09	757	101	74.0
	22-Apr-09	295	135	49.6
	14-May-09	606	482	15.0
	8-Oct-09	331	266	131

Appendices

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Appendix 4	Results of Analyses – Background Event No. 4 (October 2009) Results as Reported by the Laboratory Field Forms

Appendix 1

Results of Analyses – Background Event No. 1 (March 2009)
Results as Reported by the Laboratory
Field Forms

Pace Analytical®
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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

April 06, 2009

Mr. Jeremey Kerly
Joyce Engineering-NC
2211 West Meadowview Rd
Greensboro, NC 27407

RE: Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

Dear Mr. Kerly:
Enclosed are the analytical results for sample(s) received by the laboratory on March 20, 2009. 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.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

RECEIVED APR 09 2009

REPORT OF LABORATORY ANALYSIS

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Asheville, NC 28804
(828)254-7176

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

CERTIFICATIONS

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

Charlotte Certification IDs

West Virginia Certification #: 357
Virginia Certification #: 00213
Tennessee Certification #: 04010
South Carolina Drinking Water Cert. #: 990060003
South Carolina Certification #: 990060001
Pennsylvania Certification #: 68-00784
Connecticut Certification #: PH-0104
North Carolina Field Services Certification #: 5342
North Carolina Drinking Water Certification #: 37706
New Jersey Certification #: NC012
Louisiana/LELAP Certification #: 04034
Kentucky UST Certification #: 84
Florida/NELAP Certification #: E87627
North Carolina Wastewater Certification #: 12

Asheville Certification IDs

West Virginia Certification #: 356
Virginia Certification #: 00072
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Tennessee Certification #: 2980
South Carolina Certification #: 99030001
South Carolina Bioassay Certification #: 99030002
Pennsylvania Certification #: 68-03578
North Carolina Wastewater Certification #: 40
North Carolina Drinking Water Certification #: 37712
North Carolina Bioassay Certification #: 9
New Jersey Certification #: NC011
Massachusetts Certification #: M-NC030
Louisiana/LELAP Certification #: 03095

Eden Certification IDs

North Carolina Wastewater Certification #: 633
Virginia Drinking Water Certification #: 00424
North Carolina Drinking Water Certification #: 37738

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Asheville, NC 28804
(828)254-7176

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

SAMPLE SUMMARY

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9240473001	**0105-MW8 MS/MSD**	Water	03/19/09 13:05	03/20/09 13:35
9240473002	**0105-MW10S**	Water	03/19/09 12:40	03/20/09 13:35
9240473003	**0105-P19S**	Water	03/19/09 13:35	03/20/09 13:35
9240473004	**0105-FIELD BLANK**	Water	03/19/09 13:50	03/20/09 13:35
9240473005	**0105-TRIP BLANK**	Water	03/19/09 00:00	03/20/09 13:35

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Asheville, NC 28804
(828)254-7176

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

SAMPLE ANALYTE COUNT

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9240473001	**0105-MW8 MS/MSD**	ASTM D516-90	TEE	1
		EPA 6010	SHB	17
		EPA 7470	EWS	1
		EPA 8260	MCK	54
		SM 2320B	TEE	1
		SM 2540C	SAJ	1
		SM 4500-Cl-E	TEE	1
9240473002	**0105-MW10S**	ASTM D516-90	TEE	1
		EPA 6010	SHB	17
		EPA 7470	EWS	1
		EPA 8260	MCK	54
		SM 2320B	TEE	1
		SM 2540C	SAJ	1
		SM 4500-Cl-E	TEE	1
9240473003	**0105-P19S**	ASTM D516-90	TEE	1
		EPA 6010	SHB	17
		EPA 7470	EWS	1
		EPA 8260	MCK	54
		SM 2320B	TEE	1
		SM 2540C	SAJ	1
		SM 4500-Cl-E	TEE	1
9240473004	**0105-FIELD BLANK**	ASTM D516-90	TEE	1
		EPA 6010	SHB	17
		EPA 7470	EWS	1
		EPA 8260	MCK	54
		SM 2320B	TEE	1
		SM 2540C	SAJ	1
		SM 4500-Cl-E	TEE	1
9240473005	**0105-TRIP BLANK**	EPA 8260	MCK	54

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Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

Sample: 0105-MW8 MS/MSD **Lab ID: 9240473001** Collected: 03/19/09 13:05 Received: 03/20/09 13:35 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	**3.1J**	ug/L	6.0	2.6	1	03/27/09 19:15	03/31/09 00:56	7440-36-0	M0
Arsenic	**4.8J**	ug/L	10.0	2.7	1	03/27/09 19:15	03/31/09 00:56	7440-38-2	
Barium	**357**	ug/L	100	0.20	1	03/27/09 19:15	03/31/09 00:56	7440-39-3	
Beryllium	**1.3**	ug/L	1.0	0.10	1	03/27/09 19:15	03/31/09 00:56	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	03/27/09 19:15	03/31/09 00:56	7440-43-9	
Chromium	**25.0**	ug/L	10.0	0.40	1	03/27/09 19:15	03/31/09 00:56	7440-47-3	Z2
Cobalt	**32.8**	ug/L	10.0	0.60	1	03/27/09 19:15	03/31/09 00:56	7440-48-4	Z2
Copper	**9.1J**	ug/L	10.0	0.30	1	03/27/09 19:15	03/31/09 00:56	7440-50-8	
Iron	**54500**	ug/L	300	14.0	1	03/27/09 19:15	03/31/09 00:56	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	03/27/09 19:15	03/31/09 00:56	7439-92-1	
Manganese	**830**	ug/L	50.0	0.30	1	03/27/09 19:15	03/31/09 00:56	7439-96-5	
Nickel	**25.0J**	ug/L	50.0	1.7	1	03/27/09 19:15	03/31/09 00:56	7440-02-0	
Selenium	**5.4J**	ug/L	10.0	3.8	1	03/27/09 19:15	03/31/09 00:56	7782-49-2	
Silver	**0.55J**	ug/L	10.0	0.10	1	03/27/09 19:15	03/31/09 00:56	7440-22-4	
Thallium	**4.9J**	ug/L	5.5	3.0	1	03/27/09 19:15	03/31/09 00:56	7440-28-0	
Vanadium	**73.1**	ug/L	25.0	0.20	1	03/27/09 19:15	03/31/09 00:56	7440-62-2	Z2
Zinc	**161**	ug/L	10.0	0.40	1	03/27/09 19:15	03/31/09 00:56	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.10J**	ug/L	0.20	0.070	1	03/27/09 14:00	03/31/09 16:16	7439-97-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	20.0	1		03/27/09 02:58	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		03/27/09 02:58	107-13-1	L1
Benzene	ND	ug/L	1.0	0.25	1		03/27/09 02:58	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/27/09 02:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/27/09 02:58	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/27/09 02:58	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/27/09 02:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/27/09 02:58	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/27/09 02:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/27/09 02:58	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		03/27/09 02:58	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/27/09 02:58	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/27/09 02:58	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/27/09 02:58	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/27/09 02:58	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/27/09 02:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/27/09 02:58	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/27/09 02:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/27/09 02:58	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/27/09 02:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/27/09 02:58	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/27/09 02:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/27/09 02:58	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		03/27/09 02:58	540-59-0	

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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: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

Sample: 0105-MW8 MS/MSD **Lab ID: 9240473001** Collected: 03/19/09 13:05 Received: 03/20/09 13:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/27/09 02:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/27/09 02:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/27/09 02:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/27/09 02:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/27/09 02:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/27/09 02:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/09 02:58	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/27/09 02:58	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/27/09 02:58	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/27/09 02:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/27/09 02:58	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		03/27/09 02:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/27/09 02:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/27/09 02:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/27/09 02:58	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/27/09 02:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/27/09 02:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/27/09 02:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/27/09 02:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/27/09 02:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/27/09 02:58	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/27/09 02:58	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/27/09 02:58	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/27/09 02:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		03/27/09 02:58	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		03/27/09 02:58	95-47-6	
4-Bromofluorobenzene (S)	94	%	87-109		1		03/27/09 02:58	460-00-4	
Dibromofluoromethane (S)	105	%	85-115		1		03/27/09 02:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	79-120		1		03/27/09 02:58	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		03/27/09 02:58	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**61.0**	mg/L	5.0	5.0	1		03/26/09 16:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**104**	mg/L	40.0		1		03/24/09 15:17		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**6.7**	mg/L	5.0	5.0	1		03/24/09 14:48	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	**8.1J**	mg/L	250	5.0	1		03/24/09 18:35	14808-79-8	

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Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

Sample: 0105-MW10S **Lab ID: 9240473002** Collected: 03/19/09 12:40 Received: 03/20/09 13:35 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	2.6	1	03/27/09 19:15	03/31/09 01:18	7440-36-0	
Arsenic	**3.1J**	ug/L	10.0	2.7	1	03/27/09 19:15	03/31/09 01:18	7440-38-2	
Barium	**59.0J**	ug/L	100	0.20	1	03/27/09 19:15	03/31/09 01:18	7440-39-3	
Beryllium	**0.13J**	ug/L	1.0	0.10	1	03/27/09 19:15	03/31/09 01:18	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	03/27/09 19:15	03/31/09 01:18	7440-43-9	
Chromium	**14.3**	ug/L	10.0	0.40	1	03/27/09 19:15	03/31/09 01:18	7440-47-3	Z2
Cobalt	**4.5J**	ug/L	10.0	0.60	1	03/27/09 19:15	03/31/09 01:18	7440-48-4	Z2
Copper	**15.6**	ug/L	10.0	0.30	1	03/27/09 19:15	03/31/09 01:18	7440-50-8	
Iron	**4810**	ug/L	300	14.0	1	03/27/09 19:15	03/31/09 01:18	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	03/27/09 19:15	03/31/09 01:18	7439-92-1	
Manganese	**359**	ug/L	50.0	0.30	1	03/27/09 19:15	03/31/09 01:18	7439-96-5	
Nickel	**8.2J**	ug/L	50.0	1.7	1	03/27/09 19:15	03/31/09 01:18	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	03/27/09 19:15	03/31/09 01:18	7782-49-2	
Silver	**0.32J**	ug/L	10.0	0.10	1	03/27/09 19:15	03/31/09 01:18	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	03/27/09 19:15	03/31/09 01:18	7440-28-0	
Vanadium	**16.0J**	ug/L	25.0	0.20	1	03/27/09 19:15	03/31/09 01:18	7440-62-2	Z2
Zinc	**11.0**	ug/L	10.0	0.40	1	03/27/09 19:15	03/31/09 01:18	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.098J**	ug/L	0.20	0.070	1	03/27/09 14:00	03/31/09 17:14	7439-97-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	20.0	1		03/27/09 03:22	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		03/27/09 03:22	107-13-1	L1
Benzene	ND	ug/L	1.0	0.25	1		03/27/09 03:22	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/27/09 03:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/27/09 03:22	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/27/09 03:22	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/27/09 03:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/27/09 03:22	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/27/09 03:22	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/27/09 03:22	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		03/27/09 03:22	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/27/09 03:22	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/27/09 03:22	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/27/09 03:22	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/27/09 03:22	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/27/09 03:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/27/09 03:22	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/27/09 03:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/27/09 03:22	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/27/09 03:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/27/09 03:22	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/27/09 03:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/27/09 03:22	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		03/27/09 03:22	540-59-0	

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Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

Sample: 0105-MW10S **Lab ID: 9240473002** Collected: 03/19/09 12:40 Received: 03/20/09 13:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/27/09 03:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/27/09 03:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/27/09 03:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/27/09 03:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/27/09 03:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/27/09 03:22	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/09 03:22	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/27/09 03:22	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/27/09 03:22	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/27/09 03:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/27/09 03:22	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		03/27/09 03:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/27/09 03:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/27/09 03:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/27/09 03:22	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/27/09 03:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/27/09 03:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/27/09 03:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/27/09 03:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/27/09 03:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/27/09 03:22	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/27/09 03:22	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/27/09 03:22	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/27/09 03:22	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		03/27/09 03:22	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		03/27/09 03:22	95-47-6	
4-Bromofluorobenzene (S)	94	%	87-109		1		03/27/09 03:22	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		03/27/09 03:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	79-120		1		03/27/09 03:22	17060-07-0	
Toluene-d8 (S)	102	%	70-120		1		03/27/09 03:22	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**52.8**	mg/L	5.0	5.0	1		03/26/09 16:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**270**	mg/L	20.0		1		03/24/09 13:10		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**13.1**	mg/L	5.0	5.0	1		03/24/09 14:48	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	**31.4J**	mg/L	250	5.0	1		03/24/09 18:38	14808-79-8	

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

ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

Sample: 0105-P19S **Lab ID: 9240473003** Collected: 03/19/09 13:35 Received: 03/20/09 13:35 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	2.6	1	03/27/09 19:15	03/31/09 01:26	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	03/27/09 19:15	03/31/09 01:26	7440-38-2	
Barium	**62.4J**	ug/L	100	0.20	1	03/27/09 19:15	03/31/09 01:26	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	03/27/09 19:15	03/31/09 01:26	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	03/27/09 19:15	03/31/09 01:26	7440-43-9	
Chromium	**0.57J**	ug/L	10.0	0.40	1	03/27/09 19:15	03/31/09 01:26	7440-47-3	Z2
Cobalt	**9.9J**	ug/L	10.0	0.60	1	03/27/09 19:15	03/31/09 01:26	7440-48-4	Z2
Copper	ND	ug/L	10.0	0.30	1	03/27/09 19:15	03/31/09 01:26	7440-50-8	
Iron	**3150**	ug/L	300	14.0	1	03/27/09 19:15	03/31/09 01:26	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	03/27/09 19:15	03/31/09 01:26	7439-92-1	
Manganese	**1280**	ug/L	50.0	0.30	1	03/27/09 19:15	03/31/09 01:26	7439-96-5	
Nickel	**2.0J**	ug/L	50.0	1.7	1	03/27/09 19:15	03/31/09 01:26	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	03/27/09 19:15	03/31/09 01:26	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	03/27/09 19:15	03/31/09 01:26	7440-22-4	
Thallium	**3.8J**	ug/L	5.5	3.0	1	03/27/09 19:15	03/31/09 01:26	7440-28-0	
Vanadium	**1.6J**	ug/L	25.0	0.20	1	03/27/09 19:15	03/31/09 01:26	7440-62-2	Z2
Zinc	**4.1J**	ug/L	10.0	0.40	1	03/27/09 19:15	03/31/09 01:26	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.070J**	ug/L	0.20	0.070	1	03/27/09 14:00	03/31/09 17:16	7439-97-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	20.0	1		03/27/09 03:45	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		03/27/09 03:45	107-13-1	L1
Benzene	ND	ug/L	1.0	0.25	1		03/27/09 03:45	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/27/09 03:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/27/09 03:45	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/27/09 03:45	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/27/09 03:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/27/09 03:45	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/27/09 03:45	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/27/09 03:45	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		03/27/09 03:45	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/27/09 03:45	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/27/09 03:45	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/27/09 03:45	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/27/09 03:45	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/27/09 03:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/27/09 03:45	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/27/09 03:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/27/09 03:45	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/27/09 03:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/27/09 03:45	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/27/09 03:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/27/09 03:45	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		03/27/09 03:45	540-59-0	

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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: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

Sample: 0105-P19S **Lab ID: 9240473003** Collected: 03/19/09 13:35 Received: 03/20/09 13:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/27/09 03:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/27/09 03:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/27/09 03:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/27/09 03:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/27/09 03:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/27/09 03:45	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/09 03:45	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/27/09 03:45	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/27/09 03:45	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/27/09 03:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/27/09 03:45	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		03/27/09 03:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/27/09 03:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/27/09 03:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/27/09 03:45	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/27/09 03:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/27/09 03:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/27/09 03:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/27/09 03:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/27/09 03:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/27/09 03:45	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/27/09 03:45	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/27/09 03:45	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/27/09 03:45	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		03/27/09 03:45	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		03/27/09 03:45	95-47-6	
4-Bromofluorobenzene (S)	96	%	87-109		1		03/27/09 03:45	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		03/27/09 03:45	1868-53-7	
1,2-Dichloroethane-d4 (S)	112	%	79-120		1		03/27/09 03:45	17060-07-0	
Toluene-d8 (S)	107	%	70-120		1		03/27/09 03:45	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**30.5**	mg/L	5.0	5.0	1		03/26/09 16:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**100**	mg/L	20.0		1		03/24/09 13:10		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**10.9**	mg/L	5.0	5.0	1		03/24/09 14:48	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	**16.5J**	mg/L	250	5.0	1		03/24/09 18:38	14808-79-8	

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Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

Sample: 0105-FIELD BLANK **Lab ID: 9240473004** Collected: 03/19/09 13:50 Received: 03/20/09 13:35 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	2.6	1	03/27/09 19:15	03/31/09 01:33	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	03/27/09 19:15	03/31/09 01:33	7440-38-2	
Barium	**11.5J**	ug/L	100	0.20	1	03/27/09 19:15	03/31/09 01:33	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	03/27/09 19:15	03/31/09 01:33	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	03/27/09 19:15	03/31/09 01:33	7440-43-9	
Chromium	**0.46J**	ug/L	10.0	0.40	1	03/27/09 19:15	03/31/09 01:33	7440-47-3	Z2
Cobalt	**2.9J**	ug/L	10.0	0.60	1	03/27/09 19:15	03/31/09 01:33	7440-48-4	Z2
Copper	ND	ug/L	10.0	0.30	1	03/27/09 19:15	03/31/09 01:33	7440-50-8	
Iron	**21.6J**	ug/L	300	14.0	1	03/27/09 19:15	03/31/09 01:33	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	03/27/09 19:15	03/31/09 01:33	7439-92-1	
Manganese	**5.2J**	ug/L	50.0	0.30	1	03/27/09 19:15	03/31/09 01:33	7439-96-5	
Nickel	**1.8J**	ug/L	50.0	1.7	1	03/27/09 19:15	03/31/09 01:33	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	03/27/09 19:15	03/31/09 01:33	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	03/27/09 19:15	03/31/09 01:33	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	03/27/09 19:15	03/31/09 01:33	7440-28-0	
Vanadium	**0.86J**	ug/L	25.0	0.20	1	03/27/09 19:15	03/31/09 01:33	7440-62-2	Z2
Zinc	**6.7J**	ug/L	10.0	0.40	1	03/27/09 19:15	03/31/09 01:33	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.086J**	ug/L	0.20	0.070	1	03/27/09 14:00	03/31/09 17:19	7439-97-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	20.0	1		03/27/09 02:12	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		03/27/09 02:12	107-13-1	L1
Benzene	ND	ug/L	1.0	0.25	1		03/27/09 02:12	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/27/09 02:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/27/09 02:12	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/27/09 02:12	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/27/09 02:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/27/09 02:12	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/27/09 02:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/27/09 02:12	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		03/27/09 02:12	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/27/09 02:12	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/27/09 02:12	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/27/09 02:12	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/27/09 02:12	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/27/09 02:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/27/09 02:12	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/27/09 02:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/27/09 02:12	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/27/09 02:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/27/09 02:12	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/27/09 02:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/27/09 02:12	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		03/27/09 02:12	540-59-0	

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Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

Sample: 0105-FIELD BLANK **Lab ID: 9240473004** Collected: 03/19/09 13:50 Received: 03/20/09 13:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/27/09 02:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/27/09 02:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/27/09 02:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/27/09 02:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/27/09 02:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/27/09 02:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/09 02:12	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/27/09 02:12	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/27/09 02:12	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/27/09 02:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/27/09 02:12	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		03/27/09 02:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/27/09 02:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/27/09 02:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/27/09 02:12	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/27/09 02:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/27/09 02:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/27/09 02:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/27/09 02:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/27/09 02:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/27/09 02:12	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/27/09 02:12	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/27/09 02:12	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/27/09 02:12	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		03/27/09 02:12	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		03/27/09 02:12	95-47-6	
4-Bromofluorobenzene (S)	95	%	87-109		1		03/27/09 02:12	460-00-4	
Dibromofluoromethane (S)	101	%	85-115		1		03/27/09 02:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	79-120		1		03/27/09 02:12	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		03/27/09 02:12	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**26.4**	mg/L	5.0	5.0	1		03/26/09 16:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**14.0J**	mg/L	20.0		1		03/24/09 15:17		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**12.0**	mg/L	5.0	5.0	1		03/24/09 14:48	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	**10.7J**	mg/L	250	5.0	1		03/24/09 18:39	14808-79-8	

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

ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

Sample: 0105-TRIP BLANK **Lab ID: 9240473005** Collected: 03/19/09 00:00 Received: 03/20/09 13:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	20.0	1		03/27/09 02:35	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		03/27/09 02:35	107-13-1	L1
Benzene	ND	ug/L	1.0	0.25	1		03/27/09 02:35	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/27/09 02:35	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/27/09 02:35	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/27/09 02:35	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/27/09 02:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/27/09 02:35	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/27/09 02:35	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/27/09 02:35	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		03/27/09 02:35	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/27/09 02:35	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/27/09 02:35	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/27/09 02:35	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/27/09 02:35	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/27/09 02:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/27/09 02:35	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/27/09 02:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/27/09 02:35	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/27/09 02:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/27/09 02:35	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/27/09 02:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/27/09 02:35	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		03/27/09 02:35	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/27/09 02:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/27/09 02:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/27/09 02:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/27/09 02:35	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/27/09 02:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/27/09 02:35	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/09 02:35	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/27/09 02:35	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/27/09 02:35	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/27/09 02:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/27/09 02:35	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		03/27/09 02:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/27/09 02:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/27/09 02:35	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/27/09 02:35	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/27/09 02:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/27/09 02:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/27/09 02:35	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/27/09 02:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/27/09 02:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/27/09 02:35	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/27/09 02:35	108-05-4	

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Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

Sample: 0105-TRIP BLANK **Lab ID: 9240473005** Collected: 03/19/09 00:00 Received: 03/20/09 13:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/27/09 02:35	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/27/09 02:35	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		03/27/09 02:35	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		03/27/09 02:35	95-47-6	
4-Bromofluorobenzene (S)	96	%	87-109		1		03/27/09 02:35	460-00-4	
Dibromofluoromethane (S)	106	%	85-115		1		03/27/09 02:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	79-120		1		03/27/09 02:35	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		03/27/09 02:35	2037-26-5	

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

QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

QC Batch: WET/7651 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 9240473001, 9240473002, 9240473003, 9240473004

METHOD BLANK: 253594 Matrix: Water
Associated Lab Samples: 9240473001, 9240473002, 9240473003, 9240473004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	6.0J	20.0	03/24/09 12:57	

LABORATORY CONTROL SAMPLE: 253595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	242	97	80-120	

SAMPLE DUPLICATE: 253596

Parameter	Units	9240473001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	104	116	11	20	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

QC Batch: MSV/6528 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9240473001, 9240473002, 9240473003, 9240473004, 9240473005

METHOD BLANK: 255214 Matrix: Water
Associated Lab Samples: 9240473001, 9240473002, 9240473003, 9240473004, 9240473005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	03/27/09 01:48	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/27/09 01:48	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	03/27/09 01:48	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/27/09 01:48	
1,1-Dichloroethane	ug/L	ND	5.0	03/27/09 01:48	
1,1-Dichloroethene	ug/L	ND	5.0	03/27/09 01:48	
1,2,3-Trichloropropane	ug/L	ND	1.0	03/27/09 01:48	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	03/27/09 01:48	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/27/09 01:48	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/27/09 01:48	
1,2-Dichloroethane	ug/L	ND	1.0	03/27/09 01:48	
1,2-Dichloroethene (Total)	ug/L	ND	5.0	03/27/09 01:48	
1,2-Dichloropropane	ug/L	ND	1.0	03/27/09 01:48	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/27/09 01:48	
2-Butanone (MEK)	ug/L	ND	100	03/27/09 01:48	
2-Hexanone	ug/L	ND	50.0	03/27/09 01:48	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	03/27/09 01:48	
Acetone	ug/L	ND	100	03/27/09 01:48	
Acrylonitrile	ug/L	ND	200	03/27/09 01:48	
Benzene	ug/L	ND	1.0	03/27/09 01:48	
Bromochloromethane	ug/L	ND	3.0	03/27/09 01:48	
Bromodichloromethane	ug/L	ND	1.0	03/27/09 01:48	
Bromoform	ug/L	ND	3.0	03/27/09 01:48	
Bromomethane	ug/L	ND	10.0	03/27/09 01:48	
Carbon disulfide	ug/L	ND	100	03/27/09 01:48	
Carbon tetrachloride	ug/L	ND	1.0	03/27/09 01:48	
Chlorobenzene	ug/L	ND	3.0	03/27/09 01:48	
Chloroethane	ug/L	ND	10.0	03/27/09 01:48	
Chloroform	ug/L	ND	5.0	03/27/09 01:48	
Chloromethane	ug/L	ND	1.0	03/27/09 01:48	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/27/09 01:48	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/27/09 01:48	
Dibromochloromethane	ug/L	ND	3.0	03/27/09 01:48	
Dibromomethane	ug/L	ND	10.0	03/27/09 01:48	
Ethylbenzene	ug/L	ND	1.0	03/27/09 01:48	
Iodomethane	ug/L	ND	10.0	03/27/09 01:48	
m&p-Xylene	ug/L	ND	2.0	03/27/09 01:48	
Methylene Chloride	ug/L	2.3	2.0	03/27/09 01:48	B
o-Xylene	ug/L	ND	1.0	03/27/09 01:48	
Styrene	ug/L	ND	1.0	03/27/09 01:48	
Tetrachloroethene	ug/L	ND	1.0	03/27/09 01:48	
Toluene	ug/L	ND	1.0	03/27/09 01:48	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/27/09 01:48	

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

QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

METHOD BLANK: 255214 Matrix: Water

Associated Lab Samples: 9240473001, 9240473002, 9240473003, 9240473004, 9240473005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/27/09 01:48	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	03/27/09 01:48	
Trichloroethene	ug/L	ND	1.0	03/27/09 01:48	
Trichlorofluoromethane	ug/L	ND	1.0	03/27/09 01:48	
Vinyl acetate	ug/L	ND	50.0	03/27/09 01:48	
Vinyl chloride	ug/L	ND	1.0	03/27/09 01:48	
Xylene (Total)	ug/L	ND	2.0	03/27/09 01:48	
1,2-Dichloroethane-d4 (S)	%	107	79-120	03/27/09 01:48	
4-Bromofluorobenzene (S)	%	96	87-109	03/27/09 01:48	
Dibromofluoromethane (S)	%	103	85-115	03/27/09 01:48	
Toluene-d8 (S)	%	102	70-120	03/27/09 01:48	

LABORATORY CONTROL SAMPLE: 255215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.5	101	83-125	
1,1,1-Trichloroethane	ug/L	50	51.5	103	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	50.4	101	73-127	
1,1,2-Trichloroethane	ug/L	50	49.7	99	77-123	
1,1-Dichloroethane	ug/L	50	51.6	103	76-129	
1,1-Dichloroethene	ug/L	50	48.3	97	78-146	
1,2,3-Trichloropropane	ug/L	50	50.4	101	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	54.3	109	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	47.4	95	81-125	
1,2-Dichlorobenzene	ug/L	50	47.3	95	82-126	
1,2-Dichloroethane	ug/L	50	51.8	104	72-126	
1,2-Dichloroethene (Total)	ug/L	100	96.2	96	50-150	
1,2-Dichloropropane	ug/L	50	49.5	99	80-127	
1,4-Dichlorobenzene	ug/L	50	45.0	90	79-125	
2-Butanone (MEK)	ug/L	100	109	109	50-134	
2-Hexanone	ug/L	100	116	116	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	114	114	70-131	
Acetone	ug/L	100	119	119	50-146	
Acrylonitrile	ug/L	250	351	140	66-124	L0
Benzene	ug/L	50	48.6	97	78-128	
Bromochloromethane	ug/L	50	48.6	97	73-124	
Bromodichloromethane	ug/L	50	48.5	97	81-125	
Bromoform	ug/L	50	50.4	101	71-125	
Bromomethane	ug/L	50	48.7	97	50-150	
Carbon disulfide	ug/L	50	49.6J	99	54-150	
Carbon tetrachloride	ug/L	50	57.2	114	81-137	
Chlorobenzene	ug/L	50	48.4	97	82-126	
Chloroethane	ug/L	50	40.3	81	69-140	
Chloroform	ug/L	50	49.7	99	77-129	
Chloromethane	ug/L	50	42.2	84	54-139	

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

QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

LABORATORY CONTROL SAMPLE: 255215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	50.0	100	76-133	
cis-1,3-Dichloropropene	ug/L	50	45.2	90	76-127	
Dibromochloromethane	ug/L	50	49.6	99	77-125	
Dibromomethane	ug/L	50	47.3	95	77-125	
Ethylbenzene	ug/L	50	51.0	102	80-127	
Iodomethane	ug/L	100	107	107	65-172	
m&p-Xylene	ug/L	100	104	104	82-127	
Methylene Chloride	ug/L	50	57.7	115	67-133	
o-Xylene	ug/L	50	50.8	102	83-124	
Styrene	ug/L	50	51.4	103	80-130	
Tetrachloroethene	ug/L	50	47.1	94	78-128	
Toluene	ug/L	50	47.7	95	76-126	
trans-1,2-Dichloroethene	ug/L	50	46.2	92	78-134	
trans-1,3-Dichloropropene	ug/L	50	46.7	93	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	54.4J	109	51-140	
Trichloroethene	ug/L	50	45.5	91	79-127	
Trichlorofluoromethane	ug/L	50	47.5	95	76-148	
Vinyl acetate	ug/L	100	97.6	98	50-150	
Vinyl chloride	ug/L	50	41.1	82	67-143	
Xylene (Total)	ug/L	150	155	103	83-125	
1,2-Dichloroethane-d4 (S)	%			110	79-120	
4-Bromofluorobenzene (S)	%			105	87-109	
Dibromofluoromethane (S)	%			104	85-115	
Toluene-d8 (S)	%			100	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 255216 255217

Parameter	Units	9240473001 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	56.6	55.4	113	111	60-150	2	30	
Benzene	ug/L	ND	50	50	54.1	52.8	108	106	74-136	2	30	
Chlorobenzene	ug/L	ND	50	50	48.6	48.6	97	97	79-135	.2	30	
Toluene	ug/L	ND	50	50	51.7	50.5	103	101	73-131	2	30	
Trichloroethene	ug/L	ND	50	50	49.4	49.1	99	98	73-131	.6	30	
1,2-Dichloroethane-d4 (S)	%						111	111	79-120			
4-Bromofluorobenzene (S)	%						92	93	87-109			
Dibromofluoromethane (S)	%						103	103	85-115			
Toluene-d8 (S)	%						100	101	70-120			

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

QC Batch: MERP/2044 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 9240473001, 9240473002, 9240473003, 9240473004

METHOD BLANK: 255402 Matrix: Water
Associated Lab Samples: 9240473001, 9240473002, 9240473003, 9240473004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	0.079J	0.20	03/31/09 16:11	

LABORATORY CONTROL SAMPLE: 255403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.3	90	80-120	

MATRIX SPIKE SAMPLE: 255404

Parameter	Units	9240473001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.10J	2.5	2.7	104	75-125	

SAMPLE DUPLICATE: 255405

Parameter	Units	9240199001 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	0.21	0.23	10	25	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

QC Batch: WETA/4725 Analysis Method: ASTM D516-90
QC Batch Method: ASTM D516-90 Analysis Description: ASTM D516-90 Sulfate Water
Associated Lab Samples: 9240473001, 9240473002, 9240473003, 9240473004

METHOD BLANK: 254075 Matrix: Water
Associated Lab Samples: 9240473001, 9240473002, 9240473003, 9240473004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	250	03/24/09 18:35	

LABORATORY CONTROL SAMPLE: 254076

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.1J	95	90-110	

MATRIX SPIKE SAMPLE: 254077

Parameter	Units	9240473001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	8.1J	20	28.8J	104	75-125	

SAMPLE DUPLICATE: 254078

Parameter	Units	9240473002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	31.4J	31.8J	1	20	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

QC Batch: MPRP/4060 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9240473001, 9240473002, 9240473003, 9240473004

METHOD BLANK: 256199 Matrix: Water
Associated Lab Samples: 9240473001, 9240473002, 9240473003, 9240473004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	03/31/09 00:49	
Arsenic	ug/L	ND	10.0	03/31/09 00:49	
Barium	ug/L	ND	100	03/31/09 00:49	
Beryllium	ug/L	ND	1.0	03/31/09 00:49	
Cadmium	ug/L	ND	1.0	03/31/09 00:49	
Chromium	ug/L	0.54J	10.0	03/31/09 00:49	
Cobalt	ug/L	4.5J	10.0	03/31/09 00:49	
Copper	ug/L	ND	10.0	03/31/09 12:16	
Iron	ug/L	ND	300	03/31/09 00:49	
Lead	ug/L	ND	10.0	03/31/09 00:49	
Manganese	ug/L	ND	50.0	03/31/09 00:49	
Nickel	ug/L	ND	50.0	03/31/09 00:49	
Selenium	ug/L	ND	10.0	03/31/09 00:49	
Silver	ug/L	ND	10.0	03/31/09 00:49	
Thallium	ug/L	ND	5.5	03/31/09 00:49	
Vanadium	ug/L	0.24J	25.0	03/31/09 00:49	
Zinc	ug/L	ND	10.0	03/31/09 12:16	

LABORATORY CONTROL SAMPLE: 256200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	486	97	80-120	
Arsenic	ug/L	500	488	98	80-120	
Barium	ug/L	500	483	97	80-120	
Beryllium	ug/L	500	483	97	80-120	
Cadmium	ug/L	500	496	99	80-120	
Chromium	ug/L	500	494	99	80-120	
Cobalt	ug/L	500	484	97	80-120	
Copper	ug/L	500	476	95	80-120	
Iron	ug/L	5000	4990	100	80-120	
Lead	ug/L	500	494	99	80-120	
Manganese	ug/L	500	492	98	80-120	
Nickel	ug/L	500	478	96	80-120	
Selenium	ug/L	500	479	96	80-120	
Silver	ug/L	250	247	99	80-120	
Thallium	ug/L	500	476	95	80-120	
Vanadium	ug/L	500	480	96	80-120	
Zinc	ug/L	500	492	98	80-120	

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(704)875-9092

QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 256201 256202

Parameter	Units	9240473001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	3.1J	500	500	346	334	69	66	75-125	4	25	M0
Arsenic	ug/L	4.8J	500	500	466	457	92	90	75-125	2	25	
Barium	ug/L	357	500	500	815	811	92	91	75-125	.5	25	
Beryllium	ug/L	1.3	500	500	456	444	91	89	75-125	3	25	
Cadmium	ug/L	ND	500	500	455	443	91	89	75-125	3	25	
Chromium	ug/L	25.0	500	500	489	475	93	90	75-125	3	25	
Cobalt	ug/L	32.8	500	500	470	462	87	86	75-125	2	25	
Copper	ug/L	9.1J	500	500	483	474	95	93	75-125	2	25	
Iron	ug/L	54500	5000	5000	60300	60700	117	124	75-125	.6	25	
Lead	ug/L	ND	500	500	429	417	85	83	75-125	3	25	
Manganese	ug/L	830	500	500	1300	1300	93	93	75-125	0	25	
Nickel	ug/L	25.0J	500	500	460	448	87	85	75-125	3	25	
Selenium	ug/L	5.4J	500	500	466	454	92	90	75-125	3	25	
Silver	ug/L	0.55J	250	250	241	234	96	93	75-125	3	25	
Thallium	ug/L	4.9J	500	500	415	406	82	80	75-125	2	25	
Vanadium	ug/L	73.1	500	500	528	517	91	89	75-125	2	25	
Zinc	ug/L	161	500	500	645	630	97	94	75-125	2	25	

MATRIX SPIKE SAMPLE: 256203

Parameter	Units	9240473002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	439	87	75-125	
Arsenic	ug/L	3.1J	500	466	93	75-125	
Barium	ug/L	59.0J	500	504	89	75-125	
Beryllium	ug/L	0.13J	500	456	91	75-125	
Cadmium	ug/L	ND	500	462	92	75-125	
Chromium	ug/L	14.3	500	478	93	75-125	
Cobalt	ug/L	4.5J	500	452	89	75-125	
Copper	ug/L	15.6	500	469	91	75-125	
Iron	ug/L	4810	5000	10700	119	75-125	
Lead	ug/L	ND	500	446	89	75-125	
Manganese	ug/L	359	500	803	89	75-125	
Nickel	ug/L	8.2J	500	450	88	75-125	
Selenium	ug/L	ND	500	467	93	75-125	
Silver	ug/L	0.32J	250	236	94	75-125	
Thallium	ug/L	ND	500	438	87	75-125	
Vanadium	ug/L	16.0J	500	466	90	75-125	
Zinc	ug/L	11.0	500	478	93	75-125	

SAMPLE DUPLICATE: 256204

Parameter	Units	9240473003 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

SAMPLE DUPLICATE: 256204

Parameter	Units	9240473003 Result	Dup Result	RPD	Max RPD	Qualifiers
Barium	ug/L	62.4J	63.0J	1	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	0.57J	0.62J		25	
Cobalt	ug/L	9.9J	9.5J	4	25	
Copper	ug/L	ND	ND		25	
Iron	ug/L	3150	3160	.5	25	
Lead	ug/L	ND	ND		25	
Manganese	ug/L	1280	1280	.3	25	
Nickel	ug/L	2.0J	1.9J		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	0.12J		25	
Thallium	ug/L	3.8J	ND		25	
Vanadium	ug/L	1.6J	1.6J		25	
Zinc	ug/L	4.1J	7.0J		25	

SAMPLE DUPLICATE: 256205

Parameter	Units	9240473004 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	11.5J	11.3J	2	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	0.46J	ND		25	
Cobalt	ug/L	2.9J	4.5J		25	
Copper	ug/L	ND	ND		25	
Iron	ug/L	21.6J	ND		25	
Lead	ug/L	ND	ND		25	
Manganese	ug/L	5.2J	5.1J	3	25	
Nickel	ug/L	1.8J	2.0J		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	ND	ND		25	
Vanadium	ug/L	0.86J	0.98J		25	
Zinc	ug/L	6.7J	9.7J		25	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

QC Batch: WETA/4722 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 9240473001, 9240473002, 9240473003, 9240473004

METHOD BLANK: 253973 Matrix: Water
Associated Lab Samples: 9240473001, 9240473002, 9240473003, 9240473004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	03/24/09 14:48	

LABORATORY CONTROL SAMPLE: 253974

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

MATRIX SPIKE SAMPLE: 253976

Parameter	Units	9240473001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	6.7	20	26.7	100	75-125	

SAMPLE DUPLICATE: 253975

Parameter	Units	9240341004 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	1160	290	120	20	R1

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

QC Batch: WET/7686 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 9240473001, 9240473002, 9240473003, 9240473004

METHOD BLANK: 254887 Matrix: Water
Associated Lab Samples: 9240473001, 9240473002, 9240473003, 9240473004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	03/26/09 16:00	

LABORATORY CONTROL SAMPLE: 254888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.8	98	90-110	

SAMPLE DUPLICATE: 254889

Parameter	Units	9240473001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	61.0	61.0	0	20	

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QUALIFIERS

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

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.

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

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

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M0	Matrix spike recovery was outside laboratory control limits.
R1	RPD value was outside control limits.
Z2	Analyte present in the associated method blank above the detection limit.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COBLE'S SANDROCK 419.00.30
Pace Project No.: 9240473

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9240473001	0105-MW8 MS/MSD	SM 2540C	WET/7651		
9240473002	0105-MW10S	SM 2540C	WET/7651		
9240473003	0105-P19S	SM 2540C	WET/7651		
9240473004	0105-FIELD BLANK	SM 2540C	WET/7651		
9240473001	0105-MW8 MS/MSD	SM 4500-Cl-E	WETA/4722		
9240473002	0105-MW10S	SM 4500-Cl-E	WETA/4722		
9240473003	0105-P19S	SM 4500-Cl-E	WETA/4722		
9240473004	0105-FIELD BLANK	SM 4500-Cl-E	WETA/4722		
9240473001	0105-MW8 MS/MSD	ASTM D516-90	WETA/4725		
9240473002	0105-MW10S	ASTM D516-90	WETA/4725		
9240473003	0105-P19S	ASTM D516-90	WETA/4725		
9240473004	0105-FIELD BLANK	ASTM D516-90	WETA/4725		
9240473001	0105-MW8 MS/MSD	SM 2320B	WET/7686		
9240473002	0105-MW10S	SM 2320B	WET/7686		
9240473003	0105-P19S	SM 2320B	WET/7686		
9240473004	0105-FIELD BLANK	SM 2320B	WET/7686		
9240473001	0105-MW8 MS/MSD	EPA 8260	MSV/6528		
9240473002	0105-MW10S	EPA 8260	MSV/6528		
9240473003	0105-P19S	EPA 8260	MSV/6528		
9240473004	0105-FIELD BLANK	EPA 8260	MSV/6528		
9240473005	0105-TRIP BLANK	EPA 8260	MSV/6528		
9240473001	0105-MW8 MS/MSD	EPA 7470	MERP/2044	EPA 7470	MERC/2039
9240473002	0105-MW10S	EPA 7470	MERP/2044	EPA 7470	MERC/2039
9240473003	0105-P19S	EPA 7470	MERP/2044	EPA 7470	MERC/2039
9240473004	0105-FIELD BLANK	EPA 7470	MERP/2044	EPA 7470	MERC/2039
9240473001	0105-MW8 MS/MSD	EPA 3010	MPRP/4060	EPA 6010	ICP/3787
9240473002	0105-MW10S	EPA 3010	MPRP/4060	EPA 6010	ICP/3787
9240473003	0105-P19S	EPA 3010	MPRP/4060	EPA 6010	ICP/3787
9240473004	0105-FIELD BLANK	EPA 3010	MPRP/4060	EPA 6010	ICP/3787

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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

Section A — Required Client Information:

Company:	Joyce Engineering-NC
Address:	2211 West Meadowview Rd
	Greensboro, NC 27407
Email To:	jkerly@joyceengineering.com
Phone:	(336) 323-0092 Fax:
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	Jeremey Kerly
Copy To:	
Purchase Order No.	
Client Project ID:	COBLE'S SANDROCK 419.00.30
Container Order Number:	

Section C — Invoice Information:

Attention:	Lecia Jones
Company Name:	Joyce Engineering
Address:	1604 Ownby Lane, Richmond, VA 23222
Pace Quote Reference:	
Pace Project Manager:	Godwin, Kevin
Pace Profile #:	2156-12

Regulatory Agency: NCDENR

State / Location: North Carolina

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	NC Appendix I Volatiles	NC Appendix I Metals	Mercury	Chloride	Manganese	Sulfate	Iron	Alkalinity	Total Dissolved Solids (TDS)				Residual Chlorine (Y/N)	9240473
1	0105-MW8 MS/MSD	WT	G						24	X		X	X						X	X	X	X	X	X	X	X	X					001
2	0105-MW10S	WT	G						8	X		X	X						X	X	X	X	X	X	X	X	X					002
3	0105-P19S	WT	G						8	X		X	X						X	X	X	X	X	X	X	X	X					003
4	0105-Field Blank	WT	G						8	X		X	X						X	X	X	X	X	X	X	X	X					004
5	0105-Trip Blank	WT	-						2	X			X						X													005
6		WT								5																						
7		WT																														
8		WT																														
9		WT																														
10		WT																														
11		WT																														
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	JCI	3/20/09	11:42	Pace	3/20/09	1142				
	Pace	3/20/09	13:55	Pace	3/20/09	1355	2.9	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Carrie Mitchell, Robert Winfield

SIGNATURE of SAMPLER: DATE Signed: 3/19/09

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

DATE: 3/18/09

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.30

Well ID: 0105-MW8 **Sampler(s):** C. Mitchell/ R. Winfield

Well Location: backside of the landfill along perimeter road

Well Diameter: 2 inches

Initial Depth to Water (DTW): 4.37 feet

Depth to Bottom (DTB): 22.76 feet

Water Column Thickness (WCT): 18.39 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 3.0 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 9.0 gallons

Actual Amount Purged/Bailed : 9.0 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 4.46 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	13:58	13.1	6.12	130.5	32.5	CM
3.0	14:02	13.5	5.77	124.7	182	CM
6.0	14:08	14.1	6.09	124.9	226	CM
9.0	14:12	13.9	5.96	122.3	>1000	CM
	3/19/09					
Before Sampling	13:05	14.3	6.53	131.0	757	CM

Comments (weather conditions, odor, color, silt, etc.):

3/18-Partly cloudy, 60's

3/19-Partly cloudy, 60's

Signature: [signature] **Date:** 3/19/09

QA/QC Sign Off: [signature] **Date:** 4-10-09

DATE: 3/18/09

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.30

Well ID: 0105-MW10S **Sampler(s):** C. Mitchell/ R. Winfield

Well Location: side of the landfill along perimeter road

Well Diameter: 2 inches

Initial Depth to Water (DTW): 7.04 feet

Depth to Bottom (DTB): 24.34 feet

Water Column Thickness (WCT): 17.30 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 2.82 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 8.46 gallons

Actual Amount Purged/Bailed : 8.50 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 7.24 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	13:14	12.6	7.22	277	7.97	CM
2.82	13:19	12.1	6.14	256	250	CM
5.64	13:24	12.3	6.06	254	518	CM
8.46	13:30	12.5	6.05	229	456	CM
	3/19/09					
Before Sampling	12:40	13.3	6.15	191	101	RW

Comments (weather conditions, odor, color, silt, etc.):

3/18-Partly cloudy, 60's

3/19-Partly cloudy, 60's

Signature: [signature] **Date:** 3/19/09

QA/QC Sign Off: [signature] **Date:** 4-10-09

DATE: 3/18/09

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.30

Well ID: 0105-P19S **Sampler(s):** C. Mitchell/ R. Winfield

Well Location: backside of the landfill towards bridge in the woods

Well Diameter: 2 inches

Initial Depth to Water (DTW): 4.21 feet

Depth to Bottom (DTB): 13.00 feet

Water Column Thickness (WCT): 8.79 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.43 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 4.29 gallons

Actual Amount Purged/Bailed : 4.29 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 4.30 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	14:42	11.6	6.29	167.8	20.3	CM
1.43	14:45	10.7	5.84	160.5	127	CM
2.86	14:48	10.5	5.65	165.9	63	CM
4.29	14:51	10.4	5.59	168.3	45.4	CM
	3/19/09					
Before Sampling	13:35	12.0	5.97	160.4	74.0	RW

Comments (weather conditions, odor, color, silt, etc.):

3/18-Partly cloudy, 60's

3/19-Partly cloudy, 60's

Field Blank @ 13:50

Signature: [signature] **Date:** 3/19/09

QA/QC Sign Off: [signature] **Date:** 4-10-09

Appendix 2

Results of Analyses – Background Event No. 2 (April 2009)
Results as Reported by the Laboratory
Field Forms

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May 06, 2009

Mr. Jeremey Kerly
Joyce Engineering-NC
2211 West Meadowview Rd
Greensboro, NC 27407

RE: Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

Dear Mr. Kerly:
Enclosed are the analytical results for sample(s) received by the laboratory on April 23, 2009. 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.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

RECEIVED MAY 11 2009

REPORT OF LABORATORY ANALYSIS

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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

CERTIFICATIONS

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

Charlotte Certification IDs

West Virginia Certification #: 357
Virginia Certification #: 00213
Tennessee Certification #: 04010
South Carolina Drinking Water Cert. #: 990060003
South Carolina Certification #: 990060001
Pennsylvania Certification #: 68-00784
Connecticut Certification #: PH-0104
North Carolina Field Services Certification #: 5342
North Carolina Drinking Water Certification #: 37706
New Jersey Certification #: NC012
Louisiana/LELAP Certification #: 04034
Kentucky UST Certification #: 84
Florida/NELAP Certification #: E87627
North Carolina Wastewater Certification #: 12

Asheville Certification IDs

West Virginia Certification #: 356
Virginia Certification #: 00072
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Tennessee Certification #: 2980
South Carolina Certification #: 99030001
South Carolina Bioassay Certification #: 99030002
Pennsylvania Certification #: 68-03578
North Carolina Wastewater Certification #: 40
North Carolina Drinking Water Certification #: 37712
North Carolina Bioassay Certification #: 9
New Jersey Certification #: NC011
Massachusetts Certification #: M-NC030
Louisiana/LELAP Certification #: 03095

Eden Certification IDs

North Carolina Wastewater Certification #: 633
Virginia Drinking Water Certification #: 00424
North Carolina Drinking Water Certification #: 37738

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SAMPLE SUMMARY

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9242757001	**0105-MW-8**	Water	04/22/09 10:20	04/23/09 12:50
9242757002	**0105-MW-10S**	Water	04/22/09 11:00	04/23/09 12:50
9242757003	**0105-P19S**	Water	04/22/09 10:30	04/23/09 12:50
9242757004	**0105-FIELD BLANK**	Water	04/22/09 11:10	04/23/09 12:50

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SAMPLE ANALYTE COUNT

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9242757001	**0105-MW-8**	ASTM D516-90	JMW	1
		EPA 6010	EWS	17
		EPA 7470	SHB	1
		EPA 8260	MCK	54
		SM 2320B	JMW	1
		SM 2540C	LEP	1
		SM 4500-Cl-E	JMW	1
9242757002	**0105-MW-10S**	ASTM D516-90	JMW	1
		EPA 6010	EWS	17
		EPA 7470	SHB	1
		EPA 8260	MCK	54
		SM 2320B	JMW	1
		SM 2540C	LEP	1
		SM 4500-Cl-E	JMW	1
9242757003	**0105-P19S**	ASTM D516-90	JMW	1
		EPA 6010	EWS	17
		EPA 7470	SHB	1
		EPA 8260	MCK	54
		SM 2320B	JMW	1
		SM 2540C	LEP	1
		SM 4500-Cl-E	JMW	1
9242757004	**0105-FIELD BLANK**	ASTM D516-90	JMW	1
		EPA 6010	EWS	17
		EPA 7470	SHB	1
		EPA 8260	MCK	54
		SM 2320B	JMW	1
		SM 2540C	LEP	1
		SM 4500-Cl-E	JMW	1

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ANALYTICAL RESULTS

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

Sample: 0105-MW-8 **Lab ID: 9242757001** Collected: 04/22/09 10:20 Received: 04/23/09 12:50 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	2.6	1	04/29/09 16:03	05/05/09 16:29	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	04/29/09 16:03	05/05/09 16:29	7440-38-2	
Barium	**95.0J**	ug/L	100	0.20	1	04/29/09 16:03	05/05/09 16:29	7440-39-3	
Beryllium	**0.20J**	ug/L	1.0	0.10	1	04/29/09 16:03	05/05/09 16:29	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	04/29/09 16:03	05/05/09 16:29	7440-43-9	
Chromium	**6.5J**	ug/L	10.0	0.40	1	04/29/09 16:03	05/05/09 16:29	7440-47-3	
Cobalt	**9.7J**	ug/L	10.0	0.60	1	04/29/09 16:03	05/05/09 16:29	7440-48-4	Z2
Copper	**2.1J**	ug/L	10.0	0.30	1	04/29/09 16:03	05/05/09 16:29	7440-50-8	
Iron	**14600**	ug/L	300	14.0	1	04/29/09 16:03	05/05/09 16:29	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/29/09 16:03	05/05/09 16:29	7439-92-1	
Manganese	**188**	ug/L	50.0	0.30	1	04/29/09 16:03	05/05/09 16:29	7439-96-5	
Nickel	**6.6J**	ug/L	50.0	1.7	1	04/29/09 16:03	05/05/09 16:29	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/29/09 16:03	05/05/09 16:29	7782-49-2	
Silver	**0.33J**	ug/L	10.0	0.10	1	04/29/09 16:03	05/05/09 16:29	7440-22-4	Z2
Thallium	ND	ug/L	5.5	3.0	1	04/29/09 16:03	05/05/09 16:29	7440-28-0	
Vanadium	**17.6J**	ug/L	25.0	0.20	1	04/29/09 16:03	05/05/09 16:29	7440-62-2	Z2
Zinc	**34.9**	ug/L	10.0	0.40	1	04/29/09 16:03	05/05/09 16:29	7440-66-6	Z2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	04/27/09 09:05	04/28/09 15:52	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	20.0	1		04/29/09 07:40	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		04/29/09 07:40	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/29/09 07:40	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		04/29/09 07:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/29/09 07:40	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		04/29/09 07:40	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		04/29/09 07:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		04/29/09 07:40	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		04/29/09 07:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/29/09 07:40	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		04/29/09 07:40	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		04/29/09 07:40	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		04/29/09 07:40	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/29/09 07:40	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		04/29/09 07:40	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		04/29/09 07:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/29/09 07:40	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		04/29/09 07:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		04/29/09 07:40	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/29/09 07:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		04/29/09 07:40	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		04/29/09 07:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/29/09 07:40	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		04/29/09 07:40	540-59-0	

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ANALYTICAL RESULTS

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

Sample: 0105-MW-8 **Lab ID: 9242757001** Collected: 04/22/09 10:20 Received: 04/23/09 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		04/29/09 07:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		04/29/09 07:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		04/29/09 07:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/29/09 07:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/29/09 07:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/29/09 07:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/29/09 07:40	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		04/29/09 07:40	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		04/29/09 07:40	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/29/09 07:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		04/29/09 07:40	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/29/09 07:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		04/29/09 07:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		04/29/09 07:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/29/09 07:40	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/29/09 07:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/29/09 07:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/29/09 07:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/29/09 07:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/29/09 07:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/29/09 07:40	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		04/29/09 07:40	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/29/09 07:40	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/29/09 07:40	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/29/09 07:40	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/29/09 07:40	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		04/29/09 07:40	460-00-4	
Dibromofluoromethane (S)	103	%	85-115		1		04/29/09 07:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	79-120		1		04/29/09 07:40	17060-07-0	
Toluene-d8 (S)	97	%	70-120		1		04/29/09 07:40	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**57.3**	mg/L	5.0	5.0	1		04/30/09 14:36		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**104**	mg/L	20.0	20.0	1		04/28/09 09:57		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**6.9**	mg/L	5.0	5.0	1		04/24/09 10:48	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	**5.8J**	mg/L	250	5.0	1		04/24/09 14:04	14808-79-8	

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ANALYTICAL RESULTS

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

Sample: 0105-MW-10S **Lab ID: 9242757002** Collected: 04/22/09 11:00 Received: 04/23/09 12:50 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	2.6	1	04/29/09 16:03	05/05/09 16:32	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	04/29/09 16:03	05/05/09 16:32	7440-38-2	
Barium	**56.5J**	ug/L	100	0.20	1	04/29/09 16:03	05/05/09 16:32	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	04/29/09 16:03	05/05/09 16:32	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	04/29/09 16:03	05/05/09 16:32	7440-43-9	
Chromium	**10.2**	ug/L	10.0	0.40	1	04/29/09 16:03	05/05/09 16:32	7440-47-3	
Cobalt	**1.8J**	ug/L	10.0	0.60	1	04/29/09 16:03	05/05/09 16:32	7440-48-4	Z2
Copper	**15.3**	ug/L	10.0	0.30	1	04/29/09 16:03	05/05/09 16:32	7440-50-8	
Iron	**3470**	ug/L	300	14.0	1	04/29/09 16:03	05/05/09 16:32	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/29/09 16:03	05/05/09 16:32	7439-92-1	
Manganese	**553**	ug/L	50.0	0.30	1	04/29/09 16:03	05/05/09 16:32	7439-96-5	
Nickel	**6.3J**	ug/L	50.0	1.7	1	04/29/09 16:03	05/05/09 16:32	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/29/09 16:03	05/05/09 16:32	7782-49-2	
Silver	**0.46J**	ug/L	10.0	0.10	1	04/29/09 16:03	05/05/09 16:32	7440-22-4	Z2
Thallium	ND	ug/L	5.5	3.0	1	04/29/09 16:03	05/05/09 16:32	7440-28-0	
Vanadium	**15.6J**	ug/L	25.0	0.20	1	04/29/09 16:03	05/05/09 16:32	7440-62-2	Z2
Zinc	**5.9J**	ug/L	10.0	0.40	1	04/29/09 16:03	05/05/09 16:32	7440-66-6	Z2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	04/27/09 09:05	04/28/09 15:55	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	20.0	1		04/29/09 08:03	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		04/29/09 08:03	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/29/09 08:03	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		04/29/09 08:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/29/09 08:03	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		04/29/09 08:03	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		04/29/09 08:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		04/29/09 08:03	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		04/29/09 08:03	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/29/09 08:03	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		04/29/09 08:03	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		04/29/09 08:03	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		04/29/09 08:03	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/29/09 08:03	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		04/29/09 08:03	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		04/29/09 08:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/29/09 08:03	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		04/29/09 08:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		04/29/09 08:03	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/29/09 08:03	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		04/29/09 08:03	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		04/29/09 08:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/29/09 08:03	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		04/29/09 08:03	540-59-0	

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ANALYTICAL RESULTS

Project: Cobie's Sandrock 419.00.02
Pace Project No.: 9242757

Sample: 0105-MW-10S **Lab ID: 9242757002** Collected: 04/22/09 11:00 Received: 04/23/09 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		04/29/09 08:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		04/29/09 08:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		04/29/09 08:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/29/09 08:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/29/09 08:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/29/09 08:03	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/29/09 08:03	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		04/29/09 08:03	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		04/29/09 08:03	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/29/09 08:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		04/29/09 08:03	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/29/09 08:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		04/29/09 08:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		04/29/09 08:03	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/29/09 08:03	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/29/09 08:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/29/09 08:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/29/09 08:03	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/29/09 08:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/29/09 08:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/29/09 08:03	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		04/29/09 08:03	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/29/09 08:03	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/29/09 08:03	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/29/09 08:03	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/29/09 08:03	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		04/29/09 08:03	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		04/29/09 08:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		04/29/09 08:03	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		04/29/09 08:03	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**52.4**	mg/L	5.0	5.0	1		04/30/09 14:36		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**204**	mg/L	20.0	20.0	1		04/28/09 09:58		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**13.7**	mg/L	5.0	5.0	1		04/24/09 10:48	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	**23.3J**	mg/L	250	5.0	1		04/24/09 14:07	14808-79-8	

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Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

Sample: 0105-P19S **Lab ID: 9242757003** Collected: 04/22/09 10:30 Received: 04/23/09 12:50 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	2.6	1	04/29/09 16:03	05/05/09 16:36	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	04/29/09 16:03	05/05/09 16:36	7440-38-2	
Barium	**63.2J**	ug/L	100	0.20	1	04/29/09 16:03	05/05/09 16:36	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	04/29/09 16:03	05/05/09 16:36	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	04/29/09 16:03	05/05/09 16:36	7440-43-9	
Chromium	ND	ug/L	10.0	0.40	1	04/29/09 16:03	05/05/09 16:36	7440-47-3	
Cobalt	**10.4**	ug/L	10.0	0.60	1	04/29/09 16:03	05/05/09 16:36	7440-48-4	Z2
Copper	**0.52J**	ug/L	10.0	0.30	1	04/29/09 16:03	05/05/09 16:36	7440-50-8	
Iron	**4130**	ug/L	300	14.0	1	04/29/09 16:03	05/05/09 16:36	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/29/09 16:03	05/05/09 16:36	7439-92-1	
Manganese	**850**	ug/L	50.0	0.30	1	04/29/09 16:03	05/05/09 16:36	7439-96-5	
Nickel	ND	ug/L	50.0	1.7	1	04/29/09 16:03	05/05/09 16:36	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/29/09 16:03	05/05/09 16:36	7782-49-2	
Silver	**0.24J**	ug/L	10.0	0.10	1	04/29/09 16:03	05/05/09 16:36	7440-22-4	Z2
Thallium	ND	ug/L	5.5	3.0	1	04/29/09 16:03	05/05/09 16:36	7440-28-0	
Vanadium	**2.6J**	ug/L	25.0	0.20	1	04/29/09 16:03	05/05/09 16:36	7440-62-2	Z2
Zinc	**3.8J**	ug/L	10.0	0.40	1	04/29/09 16:03	05/05/09 16:36	7440-66-6	Z2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	04/27/09 09:05	04/28/09 15:57	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	20.0	1		04/29/09 08:27	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		04/29/09 08:27	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/29/09 08:27	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		04/29/09 08:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/29/09 08:27	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		04/29/09 08:27	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		04/29/09 08:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		04/29/09 08:27	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		04/29/09 08:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/29/09 08:27	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		04/29/09 08:27	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		04/29/09 08:27	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		04/29/09 08:27	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/29/09 08:27	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		04/29/09 08:27	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		04/29/09 08:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/29/09 08:27	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		04/29/09 08:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		04/29/09 08:27	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/29/09 08:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		04/29/09 08:27	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		04/29/09 08:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/29/09 08:27	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		04/29/09 08:27	540-59-0	

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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: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

Sample: 0105-P19S **Lab ID: 9242757003** Collected: 04/22/09 10:30 Received: 04/23/09 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		04/29/09 08:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		04/29/09 08:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		04/29/09 08:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/29/09 08:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/29/09 08:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/29/09 08:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/29/09 08:27	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		04/29/09 08:27	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		04/29/09 08:27	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/29/09 08:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		04/29/09 08:27	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/29/09 08:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		04/29/09 08:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		04/29/09 08:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/29/09 08:27	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/29/09 08:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/29/09 08:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/29/09 08:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/29/09 08:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/29/09 08:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/29/09 08:27	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		04/29/09 08:27	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/29/09 08:27	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/29/09 08:27	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/29/09 08:27	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/29/09 08:27	95-47-6	
4-Bromofluorobenzene (S)	103	%	87-109		1		04/29/09 08:27	460-00-4	
Dibromofluoromethane (S)	108	%	85-115		1		04/29/09 08:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		04/29/09 08:27	17060-07-0	
Toluene-d8 (S)	94	%	70-120		1		04/29/09 08:27	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**32.5**	mg/L	5.0	5.0	1		04/30/09 14:36		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**84.0**	mg/L	20.0	20.0	1		04/28/09 09:58		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**9.5**	mg/L	5.0	5.0	1		04/24/09 10:48	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	**16.6J**	mg/L	250	5.0	1		04/24/09 14:07	14808-79-8	

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

ANALYTICAL RESULTS

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

Sample: 0105-FIELD BLANK **Lab ID: 9242757004** Collected: 04/22/09 11:10 Received: 04/23/09 12:50 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	2.6	1	04/29/09 16:03	05/05/09 16:39	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	04/29/09 16:03	05/05/09 16:39	7440-38-2	
Barium	**13.8J**	ug/L	100	0.20	1	04/29/09 16:03	05/05/09 16:39	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	04/29/09 16:03	05/05/09 16:39	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	04/29/09 16:03	05/05/09 16:39	7440-43-9	
Chromium	ND	ug/L	10.0	0.40	1	04/29/09 16:03	05/05/09 16:39	7440-47-3	
Cobalt	**5.7J**	ug/L	10.0	0.60	1	04/29/09 16:03	05/05/09 16:39	7440-48-4	Z2
Copper	**0.78J**	ug/L	10.0	0.30	1	04/29/09 16:03	05/05/09 16:39	7440-50-8	
Iron	ND	ug/L	300	14.0	1	04/29/09 16:03	05/05/09 16:39	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	04/29/09 16:03	05/05/09 16:39	7439-92-1	
Manganese	**4.7J**	ug/L	50.0	0.30	1	04/29/09 16:03	05/05/09 16:39	7439-96-5	
Nickel	**1.8J**	ug/L	50.0	1.7	1	04/29/09 16:03	05/05/09 16:39	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	04/29/09 16:03	05/05/09 16:39	7782-49-2	
Silver	**0.13J**	ug/L	10.0	0.10	1	04/29/09 16:03	05/05/09 16:39	7440-22-4	Z2
Thallium	ND	ug/L	5.5	3.0	1	04/29/09 16:03	05/05/09 16:39	7440-28-0	
Vanadium	**1.1J**	ug/L	25.0	0.20	1	04/29/09 16:03	05/05/09 16:39	7440-62-2	Z2
Zinc	**1.6J**	ug/L	10.0	0.40	1	04/29/09 16:03	05/05/09 16:39	7440-66-6	Z2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	04/27/09 09:05	04/28/09 16:00	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	20.0	1		04/29/09 08:51	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		04/29/09 08:51	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/29/09 08:51	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		04/29/09 08:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/29/09 08:51	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		04/29/09 08:51	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		04/29/09 08:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		04/29/09 08:51	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		04/29/09 08:51	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/29/09 08:51	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		04/29/09 08:51	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		04/29/09 08:51	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		04/29/09 08:51	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/29/09 08:51	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		04/29/09 08:51	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		04/29/09 08:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/29/09 08:51	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		04/29/09 08:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		04/29/09 08:51	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/29/09 08:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		04/29/09 08:51	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		04/29/09 08:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/29/09 08:51	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		04/29/09 08:51	540-59-0	

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

ANALYTICAL RESULTS

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

Sample: 0105-FIELD BLANK **Lab ID: 9242757004** Collected: 04/22/09 11:10 Received: 04/23/09 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		04/29/09 08:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		04/29/09 08:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		04/29/09 08:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/29/09 08:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/29/09 08:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/29/09 08:51	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/29/09 08:51	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		04/29/09 08:51	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		04/29/09 08:51	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/29/09 08:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		04/29/09 08:51	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/29/09 08:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		04/29/09 08:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		04/29/09 08:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/29/09 08:51	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/29/09 08:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/29/09 08:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/29/09 08:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/29/09 08:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/29/09 08:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/29/09 08:51	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		04/29/09 08:51	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/29/09 08:51	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/29/09 08:51	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		04/29/09 08:51	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		04/29/09 08:51	95-47-6	
4-Bromofluorobenzene (S)	104	%	87-109		1		04/29/09 08:51	460-00-4	
Dibromofluoromethane (S)	109	%	85-115		1		04/29/09 08:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	94	%	79-120		1		04/29/09 08:51	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		04/29/09 08:51	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**23.9**	mg/L	5.0	5.0	1		04/30/09 14:36		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**78.0**	mg/L	20.0	20.0	1		04/28/09 09:58		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**11.8**	mg/L	5.0	5.0	1		04/24/09 10:48	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	**12.2J**	mg/L	250	5.0	1		04/24/09 14:09	14808-79-8	

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Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

QC Batch: MSV/6814 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9242757001, 9242757002, 9242757003, 9242757004

METHOD BLANK: 269756 Matrix: Water
Associated Lab Samples: 9242757001, 9242757002, 9242757003, 9242757004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	04/29/09 00:33	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/29/09 00:33	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	04/29/09 00:33	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/29/09 00:33	
1,1-Dichloroethane	ug/L	ND	5.0	04/29/09 00:33	
1,1-Dichloroethene	ug/L	ND	5.0	04/29/09 00:33	
1,2,3-Trichloropropane	ug/L	ND	1.0	04/29/09 00:33	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	04/29/09 00:33	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/29/09 00:33	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/29/09 00:33	
1,2-Dichloroethane	ug/L	ND	1.0	04/29/09 00:33	
1,2-Dichloroethene (Total)	ug/L	ND	5.0	04/29/09 00:33	
1,2-Dichloropropane	ug/L	ND	1.0	04/29/09 00:33	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/29/09 00:33	
2-Butanone (MEK)	ug/L	ND	100	04/29/09 00:33	
2-Hexanone	ug/L	ND	50.0	04/29/09 00:33	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	04/29/09 00:33	
Acetone	ug/L	ND	100	04/29/09 00:33	
Acrylonitrile	ug/L	ND	200	04/29/09 00:33	
Benzene	ug/L	ND	1.0	04/29/09 00:33	
Bromochloromethane	ug/L	ND	3.0	04/29/09 00:33	
Bromodichloromethane	ug/L	ND	1.0	04/29/09 00:33	
Bromoform	ug/L	ND	3.0	04/29/09 00:33	
Bromomethane	ug/L	ND	10.0	04/29/09 00:33	
Carbon disulfide	ug/L	ND	100	04/29/09 00:33	
Carbon tetrachloride	ug/L	ND	1.0	04/29/09 00:33	
Chlorobenzene	ug/L	ND	3.0	04/29/09 00:33	
Chloroethane	ug/L	ND	10.0	04/29/09 00:33	
Chloroform	ug/L	ND	5.0	04/29/09 00:33	
Chloromethane	ug/L	ND	1.0	04/29/09 00:33	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/29/09 00:33	
cis-1,3-Dichloropropene	ug/L	ND	1.0	04/29/09 00:33	
Dibromochloromethane	ug/L	ND	3.0	04/29/09 00:33	
Dibromomethane	ug/L	ND	10.0	04/29/09 00:33	
Ethylbenzene	ug/L	ND	1.0	04/29/09 00:33	
Iodomethane	ug/L	ND	10.0	04/29/09 00:33	
m&p-Xylene	ug/L	ND	2.0	04/29/09 00:33	
Methylene Chloride	ug/L	ND	2.0	04/29/09 00:33	
o-Xylene	ug/L	ND	1.0	04/29/09 00:33	
Styrene	ug/L	ND	1.0	04/29/09 00:33	
Tetrachloroethene	ug/L	ND	1.0	04/29/09 00:33	
Toluene	ug/L	ND	1.0	04/29/09 00:33	
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/29/09 00:33	

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Asheville, NC 28804
(828)254-7176

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

QUALITY CONTROL DATA

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

METHOD BLANK: 269756 Matrix: Water

Associated Lab Samples: 9242757001, 9242757002, 9242757003, 9242757004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	1.0	04/29/09 00:33	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	04/29/09 00:33	
Trichloroethene	ug/L	ND	1.0	04/29/09 00:33	
Trichlorofluoromethane	ug/L	ND	1.0	04/29/09 00:33	
Vinyl acetate	ug/L	ND	50.0	04/29/09 00:33	
Vinyl chloride	ug/L	ND	1.0	04/29/09 00:33	
Xylene (Total)	ug/L	ND	2.0	04/29/09 00:33	
1,2-Dichloroethane-d4 (S)	%	89	79-120	04/29/09 00:33	
4-Bromofluorobenzene (S)	%	100	87-109	04/29/09 00:33	
Dibromofluoromethane (S)	%	101	85-115	04/29/09 00:33	
Toluene-d8 (S)	%	98	70-120	04/29/09 00:33	

LABORATORY CONTROL SAMPLE: 269757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.8	108	83-125	
1,1,1-Trichloroethane	ug/L	50	51.9	104	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	52.1	104	73-127	
1,1,2-Trichloroethane	ug/L	50	45.0	90	77-123	
1,1-Dichloroethane	ug/L	50	53.3	107	76-129	
1,1-Dichloroethene	ug/L	50	49.7	99	78-146	
1,2,3-Trichloropropane	ug/L	50	44.5	89	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	51.8	104	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	54.3	109	81-125	
1,2-Dichlorobenzene	ug/L	50	51.8	104	82-126	
1,2-Dichloroethane	ug/L	50	52.5	105	72-126	
1,2-Dichloroethene (Total)	ug/L	100	104	104	50-150	
1,2-Dichloropropane	ug/L	50	53.0	106	80-127	
1,4-Dichlorobenzene	ug/L	50	43.3	87	79-125	
2-Butanone (MEK)	ug/L	100	100	100	50-134	
2-Hexanone	ug/L	100	108	108	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	88.4J	88	70-131	
Acetone	ug/L	100	99.8J	100	50-146	
Acrylonitrile	ug/L	250	208	83	66-124	
Benzene	ug/L	50	45.4	91	78-128	
Bromochloromethane	ug/L	50	50.6	101	73-124	
Bromodichloromethane	ug/L	50	48.9	98	81-125	
Bromoform	ug/L	50	43.4	87	71-125	
Bromomethane	ug/L	50	54.8	110	50-150	
Carbon disulfide	ug/L	50	52.0J	104	54-150	
Carbon tetrachloride	ug/L	50	45.1	90	81-137	
Chlorobenzene	ug/L	50	51.6	103	82-126	
Chloroethane	ug/L	50	47.8	96	69-140	
Chloroform	ug/L	50	51.1	102	77-129	
Chloromethane	ug/L	50	42.7	85	54-139	

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

QUALITY CONTROL DATA

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

LABORATORY CONTROL SAMPLE: 269757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	54.2	108	76-133	
cis-1,3-Dichloropropene	ug/L	50	44.9	90	76-127	
Dibromochloromethane	ug/L	50	50.9	102	77-125	
Dibromomethane	ug/L	50	51.4	103	77-125	
Ethylbenzene	ug/L	50	46.5	93	80-127	
Iodomethane	ug/L	100	117	117	65-172	
m&p-Xylene	ug/L	100	87.6	88	82-127	
Methylene Chloride	ug/L	50	50.7	101	67-133	
o-Xylene	ug/L	50	46.3	93	83-124	
Styrene	ug/L	50	44.7	89	80-130	
Tetrachloroethene	ug/L	50	54.8	110	78-128	
Toluene	ug/L	50	50.7	101	76-126	
trans-1,2-Dichloroethene	ug/L	50	49.6	99	78-134	
trans-1,3-Dichloropropene	ug/L	50	44.2	88	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	46.2J	92	51-140	
Trichloroethene	ug/L	50	45.8	92	79-127	
Trichlorofluoromethane	ug/L	50	48.3	97	76-148	
Vinyl acetate	ug/L	100	88.6	89	50-150	
Vinyl chloride	ug/L	50	44.7	89	67-143	
Xylene (Total)	ug/L	150	134	89	83-125	
1,2-Dichloroethane-d4 (S)	%			96	79-120	
4-Bromofluorobenzene (S)	%			100	87-109	
Dibromofluoromethane (S)	%			98	85-115	
Toluene-d8 (S)	%			100	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 269758 269759

Parameter	Units	9242753001 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	63.3	ND	127	0	60-150		30	M0
Benzene	ug/L	ND	50	50	51.1	18.0	102	36	74-136	96	30	M0,R1
Chlorobenzene	ug/L	ND	50	50	57.8	ND	116	0	79-135		30	M0
Toluene	ug/L	ND	50	50	59.4	22.9	119	46	73-131	89	30	M0,R1
Trichloroethene	ug/L	ND	50	50	52.1	ND	104	0	73-131		30	M0
1,2-Dichloroethane-d4 (S)	%						97	95	79-120			
4-Bromofluorobenzene (S)	%						96	106	87-109			
Dibromofluoromethane (S)	%						100	105	85-115			
Toluene-d8 (S)	%						98	99	70-120			

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QUALITY CONTROL DATA

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

QC Batch: MERP/2095 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 9242757001, 9242757002, 9242757003, 9242757004

METHOD BLANK: 268193 Matrix: Water
Associated Lab Samples: 9242757001, 9242757002, 9242757003, 9242757004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/28/09 14:55	

LABORATORY CONTROL SAMPLE: 268194

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 268196 268197

Parameter	Units	9242753001 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	2.9	2.4	117	98	75-125	18	25	

SAMPLE DUPLICATE: 268195

Parameter	Units	9242747012 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

QC Batch: WET/8076 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 9242757001, 9242757002, 9242757003, 9242757004

METHOD BLANK: 269575 Matrix: Water
Associated Lab Samples: 9242757001, 9242757002, 9242757003, 9242757004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	20.0	04/28/09 09:53	

LABORATORY CONTROL SAMPLE: 269576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	234	94	80-120	

SAMPLE DUPLICATE: 269577

Parameter	Units	9242769008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	30.0	32.0	6	20	

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QUALITY CONTROL DATA

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

QC Batch: MPRP/4232 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9242757001, 9242757002, 9242757003, 9242757004

METHOD BLANK: 270357 Matrix: Water
Associated Lab Samples: 9242757001, 9242757002, 9242757003, 9242757004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	05/05/09 14:31	
Arsenic	ug/L	ND	10.0	05/05/09 14:31	
Barium	ug/L	ND	100	05/05/09 14:31	
Beryllium	ug/L	ND	1.0	05/05/09 14:31	
Cadmium	ug/L	ND	1.0	05/05/09 14:31	
Chromium	ug/L	ND	10.0	05/05/09 14:31	
Cobalt	ug/L	2.4J	10.0	05/05/09 14:31	
Copper	ug/L	ND	10.0	05/05/09 14:31	
Iron	ug/L	ND	300	05/05/09 14:31	
Lead	ug/L	ND	10.0	05/05/09 14:31	
Manganese	ug/L	ND	50.0	05/05/09 14:31	
Nickel	ug/L	ND	50.0	05/05/09 14:31	
Selenium	ug/L	ND	10.0	05/05/09 14:31	
Silver	ug/L	0.14J	10.0	05/05/09 14:31	
Thallium	ug/L	ND	5.5	05/05/09 14:31	
Vanadium	ug/L	1.2J	25.0	05/05/09 14:31	
Zinc	ug/L	0.96J	10.0	05/05/09 14:31	

LABORATORY CONTROL SAMPLE: 270358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	488	98	80-120	
Arsenic	ug/L	500	475	95	80-120	
Barium	ug/L	500	491	98	80-120	
Beryllium	ug/L	500	496	99	80-120	
Cadmium	ug/L	500	483	97	80-120	
Chromium	ug/L	500	490	98	80-120	
Cobalt	ug/L	500	489	98	80-120	
Copper	ug/L	500	487	97	80-120	
Iron	ug/L	5000	5040	101	80-120	
Lead	ug/L	500	481	96	80-120	
Manganese	ug/L	500	490	98	80-120	
Nickel	ug/L	500	484	97	80-120	
Selenium	ug/L	500	472	94	80-120	
Silver	ug/L	250	242	97	80-120	
Thallium	ug/L	500	456	91	80-120	
Vanadium	ug/L	500	488	98	80-120	
Zinc	ug/L	500	482	96	80-120	

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QUALITY CONTROL DATA

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 270359 270360

Parameter	Units	9242753001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	500	500	478	483	96	97	75-125	1	25	
Arsenic	ug/L	ND	500	500	488	487	97	97	75-125	.2	25	
Barium	ug/L	48.3J	500	500	542	544	99	99	75-125	.4	25	
Beryllium	ug/L	0.16J	500	500	504	506	101	101	75-125	.4	25	
Cadmium	ug/L	ND	500	500	481	486	96	97	75-125	1	25	
Chromium	ug/L	10.3	500	500	505	509	99	100	75-125	.8	25	
Cobalt	ug/L	5.8J	500	500	491	496	97	98	75-125	1	25	
Copper	ug/L	7.8J	500	500	516	517	102	102	75-125	.2	25	
Iron	ug/L	10100	5000	5000	16100	16200	120	122	75-125	.6	25	
Lead	ug/L	ND	500	500	467	471	93	94	75-125	.9	25	
Manganese	ug/L	76.0	500	500	572	576	99	100	75-125	.7	25	
Nickel	ug/L	6.5J	500	500	493	496	97	98	75-125	.6	25	
Selenium	ug/L	ND	500	500	482	488	96	97	75-125	1	25	
Silver	ug/L	0.29J	250	250	245	245	98	98	75-125	0	25	
Thallium	ug/L	ND	500	500	447	454	89	91	75-125	2	25	
Vanadium	ug/L	23.1J	500	500	518	519	99	99	75-125	.2	25	
Zinc	ug/L	9.4J	500	500	500	508	98	100	75-125	2	25	

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QUALITY CONTROL DATA

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

QC Batch: WETA/4928 — Analysis Method: ASTM D516-90
QC Batch Method: ASTM D516-90 — Analysis Description: ASTM D516-90 Sulfate Water
Associated Lab Samples: 9242757001, 9242757002, 9242757003, 9242757004

METHOD BLANK: 268458 — Matrix: Water
Associated Lab Samples: 9242757001, 9242757002, 9242757003, 9242757004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	250	04/24/09 14:12	

LABORATORY CONTROL SAMPLE: 268459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.2J	101	90-110	

MATRIX SPIKE SAMPLE: 268460

Parameter	Units	9242699003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	8.0	20	27.7J	99	75-125	

MATRIX SPIKE SAMPLE: 268461

Parameter	Units	9242699004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	ND	20	20.2J	97	75-125	

SAMPLE DUPLICATE: 268462

Parameter	Units	9242699005 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 268463

Parameter	Units	9242700001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	ND	ND		20	

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

QC Batch: WET/8110 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 9242757001, 9242757002, 9242757003, 9242757004

METHOD BLANK: 270935 Matrix: Water
Associated Lab Samples: 9242757001, 9242757002, 9242757003, 9242757004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	04/30/09 14:36	

LABORATORY CONTROL SAMPLE: 270936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	90-110	

SAMPLE DUPLICATE: 270937

Parameter	Units	9242657008 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	14700 ug/L	15.8	7	20	

SAMPLE DUPLICATE: 270938

Parameter	Units	9242757003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	32.5	33.5	3	20	

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QUALITY CONTROL DATA

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

QC Batch: WETA/4925 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 9242757001, 9242757002, 9242757003, 9242757004

METHOD BLANK: 268288 Matrix: Water
Associated Lab Samples: 9242757001, 9242757002, 9242757003, 9242757004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	04/24/09 10:38	

LABORATORY CONTROL SAMPLE: 268289

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.2	101	90-110	

MATRIX SPIKE SAMPLE: 268290

Parameter	Units	9242699003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5.8	20	26.4	103	75-125	

SAMPLE DUPLICATE: 268291

Parameter	Units	9242699004 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	5.9	5.9	.8	20	

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QUALIFIERS

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

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.

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

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

ANALYTE QUALIFIERS

M0	Matrix spike recovery was outside laboratory control limits.
R1	RPD value was outside control limits.
Z2	Analyte present in the associated method blank above the detection limit.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Coble's Sandrock 419.00.02
Pace Project No.: 9242757

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9242757001	0105-MW-8	EPA 7470	MERP/2095	EPA 7470	MERC/2088
9242757002	0105-MW-10S	EPA 7470	MERP/2095	EPA 7470	MERC/2088
9242757003	0105-P19S	EPA 7470	MERP/2095	EPA 7470	MERC/2088
9242757004	0105-FIELD BLANK	EPA 7470	MERP/2095	EPA 7470	MERC/2088
9242757001	0105-MW-8	SM 4500-Cl-E	WETA/4925		
9242757002	0105-MW-10S	SM 4500-Cl-E	WETA/4925		
9242757003	0105-P19S	SM 4500-Cl-E	WETA/4925		
9242757004	0105-FIELD BLANK	SM 4500-Cl-E	WETA/4925		
9242757001	0105-MW-8	ASTM D516-90	WETA/4928		
9242757002	0105-MW-10S	ASTM D516-90	WETA/4928		
9242757003	0105-P19S	ASTM D516-90	WETA/4928		
9242757004	0105-FIELD BLANK	ASTM D516-90	WETA/4928		
9242757001	0105-MW-8	SM 2540C	WET/8076		
9242757002	0105-MW-10S	SM 2540C	WET/8076		
9242757003	0105-P19S	SM 2540C	WET/8076		
9242757004	0105-FIELD BLANK	SM 2540C	WET/8076		
9242757001	0105-MW-8	EPA 8260	MSV/6814		
9242757002	0105-MW-10S	EPA 8260	MSV/6814		
9242757003	0105-P19S	EPA 8260	MSV/6814		
9242757004	0105-FIELD BLANK	EPA 8260	MSV/6814		
9242757001	0105-MW-8	EPA 3010	MPRP/4232	EPA 6010	ICP/3950
9242757002	0105-MW-10S	EPA 3010	MPRP/4232	EPA 6010	ICP/3950
9242757003	0105-P19S	EPA 3010	MPRP/4232	EPA 6010	ICP/3950
9242757004	0105-FIELD BLANK	EPA 3010	MPRP/4232	EPA 6010	ICP/3950
9242757001	0105-MW-8	SM 2320B	WET/8110		
9242757002	0105-MW-10S	SM 2320B	WET/8110		
9242757003	0105-P19S	SM 2320B	WET/8110		
9242757004	0105-FIELD BLANK	SM 2320B	WET/8110		

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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

Section A — Required Client Information:

Company:	Joyce Engineering-NC
Address:	2211 West Meadowview Rd
	Greensboro, NC 27407
Email To:	cmitchell@joyceengineering.com
Phone:	(336) 323-0092 Fax:
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	Jeremey Kerly
Copy To:	
Purchase Order No.	
Client Project ID:	Coble's Sandrock 419.00.02
Container Order Number:	9037

Section C — Invoice Information:

Attention:	Lecia Jones
Company Name:	Joyce Engineering
Address:	1604 Ownby Lane, Richmond, VA 23222
Pace Quote Reference:	
Pace Project Manager:	Godwin, Kevin
Pace Profile #:	21860-H 4/22/09 12

Regulatory Agency:

State / Location: North Carolina

Requested Analysis Filtered (Y/N):

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 (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): TDS 160.1	Alkalinity	Sulfate	Metals	VOC 8260 WT	Chloride	Residual Chlorine (Y/N)	9242757
1	0105-MW-8	WT	G			4/22/09	10:20	14	9	X		X	X					X	X	X	X	X	X		9242757001
2	0105-MW-10S	WT	G			"	11:00	13	9	X		X	X					X	X	X	X	X	X		002
3	0105-P19S	WT	G			"	10:30	13	9	X		X	X					X	X	X	X	X	X		003
4	0105-Field Blank	WT	G			"	11:10	–	9	X		X	X					X	X	X	X	X	X		004
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Include Mercury, IRON +	JOI	4/23/09	9:41		4/23/09	9:41				
Manganese with metals list		4/23/09	1250		4/23/09	1250	3.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Carrie Mitchell, Robert Winfield

SIGNATURE of SAMPLER: DATE Signed: 4/22/09

DATE: 4/21/09

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.30

Well ID: 0105-MW8 **Sampler(s):** C. Mitchell/ R. Winfield

Well Location: backside of the landfill along perimeter road

Well Diameter: 2 inches

Initial Depth to Water (DTW): 5.12 feet

Depth to Bottom (DTB): 22.76 feet

Water Column Thickness (WCT): 17.64 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 2.88 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 8.64 gallons

Actual Amount Purged/Bailed : 8.64 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 5.11 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	11:30	14.3	7.41	138.0	-	CM
2.88	11:32	13.7	6.62	125.0	-	CM
5.76	11:34	13.6	6.37	123.4	-	CM
8.64	11:37	13.6	6.67	121.2	-	CM
	4/22/09					
Before Sampling	10:20	13.6	7.68	146.7	295	CM

Comments (weather conditions, odor, color, silt, etc.):

4/21-Sunny, 60's

4/22-Partly cloudy, 50's

Signature: Carrie Mitchell **Date:** 4/22/09

QA/QC Sign Off: [illegible] **Date:** 7-10-09

DATE: 4/21/09

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.30

Well ID: 0105-MW10S **Sampler(s):** C. Mitchell/ R. Winfield

Well Location: side of the landfill along perimeter road

Well Diameter: 2 inches

Initial Depth to Water (DTW): 7.39 feet

Depth to Bottom (DTB): 24.34 feet

Water Column Thickness (WCT): 17.04 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 2.78 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 8.34 gallons

Actual Amount Purged/Bailed : 8.34 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 7.43 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	12:22	14.0	6.73	197.7	-	CM
2.78	12:25	12.7	6.09	198.5	-	CM
5.56	12:27	12.8	6.02	198.7	-	CM
8.34	12:30	12.9	6.03	196.6	-	CM
	4/22/09					
Before Sampling	11:00	12.5	6.70	178.5	135	CM

Comments (weather conditions, odor, color, silt, etc.):

4/21-Sunny, 60's

4/22-Mostly cloudy, 50's

Field blank @ 11:10

Signature: Carin Nettles **Date:** 4/22/09

QA/QC Sign Off: [illegible] **Date:** 7-10-09

DATE: 4/21/09

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.30

Well ID: 0105-P19S **Sampler(s):** C. Mitchell/ R. Winfield

Well Location: backside of the landfill towards bridge in the woods

Well Diameter: 2 inches

Initial Depth to Water (DTW): 4.28 feet

Depth to Bottom (DTB): 13.00 feet

Water Column Thickness (WCT): 8.73 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.42 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 4.27 gallons

Actual Amount Purged/Bailed : 4.27 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 4.48 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	11:45	12.6	5.67	157.8	-	RW
1.42	11:46	12.3	5.55	159.4	-	RW
2.84	11:48	12.0	5.54	162.4	-	RW
4.27	11:50	12.0	5.59	176.2	-	RW
	4/22/09					
Before Sampling	10:30	12.6	5.78	146.6	49.6	RW

Comments (weather conditions, odor, color, silt, etc.):

4/21-Sunny, 60's

4/22-Sunny, 50's

Signature: [signature] **Date:** 4/22/09

QA/QC Sign Off: [signature] **Date:** 7-10-09

Appendix 3

Results of Analyses – Background Event No. 3 (May 2009)
Results as Reported by the Laboratory
Field Forms

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June 01, 2009

Mr. Jeremey Kerly
Joyce Engineering-NC
2211 West Meadowview Rd
Greensboro, NC 27407

RE: Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

Dear Mr. Kerly:
Enclosed are the analytical results for sample(s) received by the laboratory on May 15, 2009. 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.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

RECEIVED JUN 02 2009

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

Charlotte Certification IDs

West Virginia Certification #: 357
Virginia Certification #: 00213
Tennessee Certification #: 04010
South Carolina Drinking Water Cert. #: 990060003
South Carolina Certification #: 990060001
Pennsylvania Certification #: 68-00784
Connecticut Certification #: PH-0104
North Carolina Field Services Certification #: 5342
North Carolina Drinking Water Certification #: 37706
New Jersey Certification #: NC012
Louisiana/LELAP Certification #: 04034
Kentucky UST Certification #: 84
Florida/NELAP Certification #: E87627
North Carolina Wastewater Certification #: 12

Asheville Certification IDs

West Virginia Certification #: 356
Virginia Certification #: 00072
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Tennessee Certification #: 2980
South Carolina Certification #: 99030001
South Carolina Bioassay Certification #: 99030002
Pennsylvania Certification #: 68-03578
North Carolina Wastewater Certification #: 40
North Carolina Drinking Water Certification #: 37712
North Carolina Bioassay Certification #: 9
New Jersey Certification #: NC011
Massachusetts Certification #: M-NC030
Louisiana/LELAP Certification #: 03095

Eden Certification IDs

North Carolina Wastewater Certification #: 633
Virginia Drinking Water Certification #: 00424
North Carolina Drinking Water Certification #: 37738

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SAMPLE SUMMARY

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9244414001	**0105-MW-8**	Water	05/14/09 13:25	05/15/09 14:28
9244414002	**0105-MW-10S**	Water	05/14/09 12:50	05/15/09 14:28
9244414003	**0105-P19S**	Water	05/14/09 13:05	05/15/09 14:28
9244414004	**0105-FIELD BLANK**	Water	05/14/09 13:35	05/15/09 14:28
9244414005	**0105-TRIP BLANK**	Water	05/14/09 00:00	05/15/09 14:28

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SAMPLE ANALYTE COUNT

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9244414001	0105-MW-8	ASTM D516-90	JMW	1
		EPA 6010	EWS	17
		EPA 7470	SHB	1
		EPA 8260	AW	54
		SM 2320B	JMW	1
		SM 2540C	LEP	1
		SM 4500-Cl-E	JMW	1
9244414002	0105-MW-10S	ASTM D516-90	JMW	1
		EPA 6010	EWS	17
		EPA 7470	SHB	1
		EPA 8260	AW	54
		SM 2320B	JMW	1
		SM 2540C	LEP	1
		SM 4500-Cl-E	JMW	1
9244414003	0105-P19S	ASTM D516-90	JMW	1
		EPA 6010	EWS	17
		EPA 7470	SHB	1
		EPA 8260	AW	54
		SM 2320B	JMW	1
		SM 2540C	LEP	1
		SM 4500-Cl-E	JMW	1
9244414004	0105-FIELD BLANK	ASTM D516-90	JMW	1
		EPA 6010	EWS	17
		EPA 7470	SHB	1
		EPA 8260	AW	54
		SM 2320B	JMW	1
		SM 2540C	LEP	1
		SM 4500-Cl-E	JMW	1
9244414005	0105-TRIP BLANK	EPA 8260	AW	54

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ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

Sample: 0105-MW-8 **Lab ID: 9244414001** Collected: 05/14/09 13:25 Received: 05/15/09 14:28 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	2.6	1	05/19/09 14:56	05/20/09 03:02	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	05/19/09 14:56	05/20/09 03:02	7440-38-2	
Barium	**101**	ug/L	100	0.20	1	05/19/09 14:56	05/20/09 03:02	7440-39-3	
Beryllium	**0.21J**	ug/L	1.0	0.10	1	05/19/09 14:56	05/20/09 03:02	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	05/19/09 14:56	05/20/09 03:02	7440-43-9	
Chromium	**6.3J**	ug/L	10.0	0.40	1	05/19/09 14:56	05/20/09 03:02	7440-47-3	
Cobalt	**11.1**	ug/L	10.0	0.60	1	05/19/09 14:56	05/20/09 03:02	7440-48-4	Z2
Copper	**1.9J**	ug/L	10.0	0.30	1	05/19/09 14:56	05/20/09 03:02	7440-50-8	
Iron	**15600**	ug/L	300	14.0	1	05/19/09 14:56	05/20/09 03:02	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	05/19/09 14:56	05/20/09 03:02	7439-92-1	
Manganese	**196**	ug/L	50.0	0.30	1	05/19/09 14:56	05/20/09 03:02	7439-96-5	
Nickel	**6.1J**	ug/L	50.0	1.7	1	05/19/09 14:56	05/20/09 03:02	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	05/19/09 14:56	05/20/09 03:02	7782-49-2	
Silver	**0.18J**	ug/L	10.0	0.10	1	05/19/09 14:56	05/20/09 03:02	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	05/19/09 14:56	05/20/09 03:02	7440-28-0	
Vanadium	**18.4J**	ug/L	25.0	0.20	1	05/19/09 14:56	05/20/09 03:02	7440-62-2	
Zinc	**32.3**	ug/L	10.0	0.40	1	05/19/09 14:56	05/20/09 03:02	7440-66-6	Z2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	05/25/09 11:40	05/27/09 16:41	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	20.0	1		05/26/09 19:09	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		05/26/09 19:09	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/26/09 19:09	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		05/26/09 19:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/26/09 19:09	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		05/26/09 19:09	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		05/26/09 19:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		05/26/09 19:09	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		05/26/09 19:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/26/09 19:09	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		05/26/09 19:09	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		05/26/09 19:09	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		05/26/09 19:09	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/26/09 19:09	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		05/26/09 19:09	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		05/26/09 19:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/26/09 19:09	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		05/26/09 19:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		05/26/09 19:09	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/26/09 19:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		05/26/09 19:09	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		05/26/09 19:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/26/09 19:09	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		05/26/09 19:09	540-59-0	

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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: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

Sample: 0105-MW-8 **Lab ID: 9244414001** Collected: 05/14/09 13:25 Received: 05/15/09 14:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		05/26/09 19:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		05/26/09 19:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		05/26/09 19:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/26/09 19:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/26/09 19:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/26/09 19:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/26/09 19:09	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		05/26/09 19:09	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		05/26/09 19:09	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		05/26/09 19:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		05/26/09 19:09	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/26/09 19:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		05/26/09 19:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		05/26/09 19:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/26/09 19:09	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/26/09 19:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/26/09 19:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/26/09 19:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/26/09 19:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/26/09 19:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/26/09 19:09	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		05/26/09 19:09	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/26/09 19:09	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		05/26/09 19:09	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/26/09 19:09	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		05/26/09 19:09	95-47-6	
4-Bromofluorobenzene (S)	97	%	87-109		1		05/26/09 19:09	460-00-4	
Dibromofluoromethane (S)	99	%	85-115		1		05/26/09 19:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	79-120		1		05/26/09 19:09	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		05/26/09 19:09	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**55.7**	mg/L	5.0	5.0	1		05/18/09 11:40		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**94.0**	mg/L	20.0	20.0	1		05/20/09 10:31		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**7.8**	mg/L	5.0	5.0	1		05/19/09 09:56	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	**11.2J**	mg/L	250	5.0	1		05/19/09 10:58	14808-79-8	

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Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

Sample: 0105-MW-10S **Lab ID: 9244414002** Collected: 05/14/09 12:50 Received: 05/15/09 14:28 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	2.6	1	05/19/09 14:56	05/20/09 03:06	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	05/19/09 14:56	05/20/09 03:06	7440-38-2	
Barium	**49.1J**	ug/L	100	0.20	1	05/19/09 14:56	05/20/09 03:06	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	05/19/09 14:56	05/20/09 03:06	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	05/19/09 14:56	05/20/09 03:06	7440-43-9	
Chromium	**7.6J**	ug/L	10.0	0.40	1	05/19/09 14:56	05/20/09 03:06	7440-47-3	
Cobalt	**4.8J**	ug/L	10.0	0.60	1	05/19/09 14:56	05/20/09 03:06	7440-48-4	Z2
Copper	**11.8**	ug/L	10.0	0.30	1	05/19/09 14:56	05/20/09 03:06	7440-50-8	
Iron	**2680**	ug/L	300	14.0	1	05/19/09 14:56	05/20/09 03:06	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	05/19/09 14:56	05/20/09 03:06	7439-92-1	
Manganese	**640**	ug/L	50.0	0.30	1	05/19/09 14:56	05/20/09 03:06	7439-96-5	
Nickel	**4.8J**	ug/L	50.0	1.7	1	05/19/09 14:56	05/20/09 03:06	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	05/19/09 14:56	05/20/09 03:06	7782-49-2	
Silver	**0.25J**	ug/L	10.0	0.10	1	05/19/09 14:56	05/20/09 03:06	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	05/19/09 14:56	05/20/09 03:06	7440-28-0	
Vanadium	**12.5J**	ug/L	25.0	0.20	1	05/19/09 14:56	05/20/09 03:06	7440-62-2	
Zinc	**4.0J**	ug/L	10.0	0.40	1	05/19/09 14:56	05/20/09 03:06	7440-66-6	Z2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	05/25/09 11:40	05/27/09 16:44	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	20.0	1		05/26/09 19:32	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		05/26/09 19:32	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/26/09 19:32	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		05/26/09 19:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/26/09 19:32	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		05/26/09 19:32	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		05/26/09 19:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		05/26/09 19:32	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		05/26/09 19:32	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/26/09 19:32	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		05/26/09 19:32	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		05/26/09 19:32	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		05/26/09 19:32	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/26/09 19:32	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		05/26/09 19:32	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		05/26/09 19:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/26/09 19:32	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		05/26/09 19:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		05/26/09 19:32	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/26/09 19:32	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		05/26/09 19:32	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		05/26/09 19:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/26/09 19:32	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		05/26/09 19:32	540-59-0	

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Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

Sample: 0105-MW-10S **Lab ID: 9244414002** Collected: 05/14/09 12:50 Received: 05/15/09 14:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		05/26/09 19:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		05/26/09 19:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		05/26/09 19:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/26/09 19:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/26/09 19:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/26/09 19:32	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/26/09 19:32	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		05/26/09 19:32	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		05/26/09 19:32	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		05/26/09 19:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		05/26/09 19:32	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/26/09 19:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		05/26/09 19:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		05/26/09 19:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/26/09 19:32	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/26/09 19:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/26/09 19:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/26/09 19:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/26/09 19:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/26/09 19:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/26/09 19:32	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		05/26/09 19:32	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/26/09 19:32	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		05/26/09 19:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/26/09 19:32	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		05/26/09 19:32	95-47-6	
4-Bromofluorobenzene (S)	97	%	87-109		1		05/26/09 19:32	460-00-4	
Dibromofluoromethane (S)	99	%	85-115		1		05/26/09 19:32	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		05/26/09 19:32	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		05/26/09 19:32	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**59.4**	mg/L	5.0	5.0	1		05/18/09 11:40		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**210**	mg/L	20.0	20.0	1		05/20/09 10:32		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**16.4**	mg/L	5.0	5.0	1		05/19/09 09:56	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	**30.4J**	mg/L	250	5.0	1		05/19/09 11:00	14808-79-8	

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

ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

Sample: 0105-P19S **Lab ID: 9244414003** Collected: 05/14/09 13:05 Received: 05/15/09 14:28 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	2.6	1	05/19/09 14:56	05/20/09 03:09	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	05/19/09 14:56	05/20/09 03:09	7440-38-2	
Barium	**74.1J**	ug/L	100	0.20	1	05/19/09 14:56	05/20/09 03:09	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	05/19/09 14:56	05/20/09 03:09	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	05/19/09 14:56	05/20/09 03:09	7440-43-9	
Chromium	ND	ug/L	10.0	0.40	1	05/19/09 14:56	05/20/09 03:09	7440-47-3	
Cobalt	**10.3**	ug/L	10.0	0.60	1	05/19/09 14:56	05/20/09 03:09	7440-48-4	Z2
Copper	ND	ug/L	10.0	0.30	1	05/19/09 14:56	05/20/09 03:09	7440-50-8	
Iron	**2020**	ug/L	300	14.0	1	05/19/09 14:56	05/20/09 03:09	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	05/19/09 14:56	05/20/09 03:09	7439-92-1	
Manganese	**819**	ug/L	50.0	0.30	1	05/19/09 14:56	05/20/09 03:09	7439-96-5	
Nickel	ND	ug/L	50.0	1.7	1	05/19/09 14:56	05/20/09 03:09	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	05/19/09 14:56	05/20/09 03:09	7782-49-2	
Silver	**0.11J**	ug/L	10.0	0.10	1	05/19/09 14:56	05/20/09 03:09	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	05/19/09 14:56	05/20/09 03:09	7440-28-0	
Vanadium	**1.5J**	ug/L	25.0	0.20	1	05/19/09 14:56	05/20/09 03:09	7440-62-2	
Zinc	**1.2J**	ug/L	10.0	0.40	1	05/19/09 14:56	05/20/09 03:09	7440-66-6	Z2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	05/25/09 11:40	05/27/09 16:46	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	20.0	1		05/26/09 19:56	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		05/26/09 19:56	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/26/09 19:56	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		05/26/09 19:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/26/09 19:56	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		05/26/09 19:56	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		05/26/09 19:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		05/26/09 19:56	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		05/26/09 19:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/26/09 19:56	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		05/26/09 19:56	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		05/26/09 19:56	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		05/26/09 19:56	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/26/09 19:56	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		05/26/09 19:56	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		05/26/09 19:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/26/09 19:56	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		05/26/09 19:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		05/26/09 19:56	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/26/09 19:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		05/26/09 19:56	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		05/26/09 19:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/26/09 19:56	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		05/26/09 19:56	540-59-0	

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Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

Sample: 0105-P19S **Lab ID: 9244414003** Collected: 05/14/09 13:05 Received: 05/15/09 14:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		05/26/09 19:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		05/26/09 19:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		05/26/09 19:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/26/09 19:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/26/09 19:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/26/09 19:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/26/09 19:56	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		05/26/09 19:56	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		05/26/09 19:56	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		05/26/09 19:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		05/26/09 19:56	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/26/09 19:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		05/26/09 19:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		05/26/09 19:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/26/09 19:56	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/26/09 19:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/26/09 19:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/26/09 19:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/26/09 19:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/26/09 19:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/26/09 19:56	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		05/26/09 19:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/26/09 19:56	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		05/26/09 19:56	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/26/09 19:56	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		05/26/09 19:56	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		05/26/09 19:56	460-00-4	
Dibromofluoromethane (S)	101	%	85-115		1		05/26/09 19:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		05/26/09 19:56	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		05/26/09 19:56	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**30.7**	mg/L	5.0	5.0	1		05/18/09 11:40		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**110**	mg/L	20.0	20.0	1		05/20/09 10:32		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**11.2**	mg/L	5.0	5.0	1		05/19/09 09:56	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	**15.9J**	mg/L	250	5.0	1		05/19/09 11:00	14808-79-8	

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Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

Sample: 0105-FIELD BLANK **Lab ID: 9244414004** Collected: 05/14/09 13:35 Received: 05/15/09 14:28 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	2.6	1	05/19/09 14:56	05/20/09 03:13	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	05/19/09 14:56	05/20/09 03:13	7440-38-2	
Barium	**12.5J**	ug/L	100	0.20	1	05/19/09 14:56	05/20/09 03:13	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	05/19/09 14:56	05/20/09 03:13	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	05/19/09 14:56	05/20/09 03:13	7440-43-9	
Chromium	ND	ug/L	10.0	0.40	1	05/19/09 14:56	05/20/09 03:13	7440-47-3	
Cobalt	**4.6J**	ug/L	10.0	0.60	1	05/19/09 14:56	05/20/09 03:13	7440-48-4	Z2
Copper	ND	ug/L	10.0	0.30	1	05/19/09 14:56	05/20/09 03:13	7440-50-8	
Iron	ND	ug/L	300	14.0	1	05/19/09 14:56	05/20/09 03:13	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	05/19/09 14:56	05/20/09 03:13	7439-92-1	
Manganese	**4.0J**	ug/L	50.0	0.30	1	05/19/09 14:56	05/20/09 03:13	7439-96-5	
Nickel	ND	ug/L	50.0	1.7	1	05/19/09 14:56	05/20/09 03:13	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	05/19/09 14:56	05/20/09 03:13	7782-49-2	
Silver	**0.29J**	ug/L	10.0	0.10	1	05/19/09 14:56	05/20/09 03:13	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	05/19/09 14:56	05/20/09 03:13	7440-28-0	
Vanadium	**0.85J**	ug/L	25.0	0.20	1	05/19/09 14:56	05/20/09 03:13	7440-62-2	
Zinc	**2.9J**	ug/L	10.0	0.40	1	05/19/09 14:56	05/20/09 03:13	7440-66-6	Z2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	05/25/09 11:40	05/27/09 16:54	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	20.0	1		05/26/09 17:58	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		05/26/09 17:58	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/26/09 17:58	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		05/26/09 17:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/26/09 17:58	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		05/26/09 17:58	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		05/26/09 17:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		05/26/09 17:58	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		05/26/09 17:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/26/09 17:58	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		05/26/09 17:58	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		05/26/09 17:58	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		05/26/09 17:58	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/26/09 17:58	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		05/26/09 17:58	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		05/26/09 17:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/26/09 17:58	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		05/26/09 17:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		05/26/09 17:58	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/26/09 17:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		05/26/09 17:58	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		05/26/09 17:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/26/09 17:58	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		05/26/09 17:58	540-59-0	

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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: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

Sample: 0105-FIELD BLANK **Lab ID: 9244414004** Collected: 05/14/09 13:35 Received: 05/15/09 14:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		05/26/09 17:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		05/26/09 17:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		05/26/09 17:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/26/09 17:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/26/09 17:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/26/09 17:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/26/09 17:58	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		05/26/09 17:58	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		05/26/09 17:58	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		05/26/09 17:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		05/26/09 17:58	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/26/09 17:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		05/26/09 17:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		05/26/09 17:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/26/09 17:58	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/26/09 17:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/26/09 17:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/26/09 17:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/26/09 17:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/26/09 17:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/26/09 17:58	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		05/26/09 17:58	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/26/09 17:58	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		05/26/09 17:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/26/09 17:58	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		05/26/09 17:58	95-47-6	
4-Bromofluorobenzene (S)	97	%	87-109		1		05/26/09 17:58	460-00-4	
Dibromofluoromethane (S)	98	%	85-115		1		05/26/09 17:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	79-120		1		05/26/09 17:58	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		05/26/09 17:58	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**22.9**	mg/L	5.0	5.0	1		05/18/09 11:40		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**78.0**	mg/L	20.0	20.0	1		05/20/09 10:33		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**10.7**	mg/L	5.0	5.0	1		05/19/09 09:56	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	**10.7J**	mg/L	250	5.0	1		05/19/09 11:00	14808-79-8	

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

ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

Sample: 0105-TRIP BLANK **Lab ID: 9244414005** Collected: 05/14/09 00:00 Received: 05/15/09 14:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	20.0	1		05/26/09 18:22	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		05/26/09 18:22	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		05/26/09 18:22	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		05/26/09 18:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		05/26/09 18:22	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		05/26/09 18:22	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		05/26/09 18:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		05/26/09 18:22	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		05/26/09 18:22	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/26/09 18:22	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		05/26/09 18:22	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		05/26/09 18:22	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		05/26/09 18:22	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		05/26/09 18:22	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		05/26/09 18:22	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		05/26/09 18:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		05/26/09 18:22	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		05/26/09 18:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		05/26/09 18:22	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		05/26/09 18:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		05/26/09 18:22	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		05/26/09 18:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		05/26/09 18:22	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		05/26/09 18:22	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		05/26/09 18:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		05/26/09 18:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		05/26/09 18:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/26/09 18:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		05/26/09 18:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		05/26/09 18:22	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		05/26/09 18:22	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		05/26/09 18:22	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		05/26/09 18:22	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		05/26/09 18:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		05/26/09 18:22	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		05/26/09 18:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		05/26/09 18:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		05/26/09 18:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		05/26/09 18:22	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		05/26/09 18:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		05/26/09 18:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		05/26/09 18:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		05/26/09 18:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		05/26/09 18:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		05/26/09 18:22	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		05/26/09 18:22	108-05-4	

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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: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

Sample: 0105-TRIP BLANK **Lab ID: 9244414005** Collected: 05/14/09 00:00 Received: 05/15/09 14:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		05/26/09 18:22	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		05/26/09 18:22	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		05/26/09 18:22	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		05/26/09 18:22	95-47-6	
4-Bromofluorobenzene (S)	96	%	87-109		1		05/26/09 18:22	460-00-4	
Dibromofluoromethane (S)	99	%	85-115		1		05/26/09 18:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		05/26/09 18:22	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		05/26/09 18:22	2037-26-5	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

QC Batch: WET/8326 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 9244414001, 9244414002, 9244414003, 9244414004

METHOD BLANK: 280495 Matrix: Water
Associated Lab Samples: 9244414001, 9244414002, 9244414003, 9244414004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	05/18/09 11:40	

LABORATORY CONTROL SAMPLE: 280496

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.0	98	90-110	

SAMPLE DUPLICATE: 280497

Parameter	Units	9244214001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	13.5	13.5	0	20	

SAMPLE DUPLICATE: 280498

Parameter	Units	9244414001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	55.7	55.2	.9	20	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

QC Batch: WET/8351 — Analysis Method: SM 2540C
QC Batch Method: SM 2540C — Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 9244414001, 9244414002, 9244414003, 9244414004

METHOD BLANK: 281494 — Matrix: Water
Associated Lab Samples: 9244414001, 9244414002, 9244414003, 9244414004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	20.0	05/20/09 10:24	

LABORATORY CONTROL SAMPLE: 281495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	244	98	80-120	

SAMPLE DUPLICATE: 281496

Parameter	Units	9244184003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	102	94.0	8	20	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

QC Batch: WETA/5102 — Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E — Analysis Description: 4500 Chloride
Associated Lab Samples: 9244414001, 9244414002, 9244414003, 9244414004

METHOD BLANK: 280788 — Matrix: Water
Associated Lab Samples: 9244414001, 9244414002, 9244414003, 9244414004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	05/19/09 09:54	

LABORATORY CONTROL SAMPLE: 280789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.0	100	90-110	

MATRIX SPIKE SAMPLE: 280790

Parameter	Units	9243919002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	12.2	20	32.7	103	75-125	

SAMPLE DUPLICATE: 280791

Parameter	Units	9243919001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	10.0	10.1	.8	20	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

QC Batch: MPRP/4387 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9244414001, 9244414002, 9244414003, 9244414004

METHOD BLANK: 280665 Matrix: Water
Associated Lab Samples: 9244414001, 9244414002, 9244414003, 9244414004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	05/20/09 02:22	
Arsenic	ug/L	ND	10.0	05/20/09 02:22	
Barium	ug/L	ND	100	05/20/09 02:22	
Beryllium	ug/L	ND	1.0	05/20/09 02:22	
Cadmium	ug/L	ND	1.0	05/20/09 02:22	
Chromium	ug/L	ND	10.0	05/20/09 02:22	
Cobalt	ug/L	2.3J	10.0	05/20/09 02:22	
Copper	ug/L	ND	10.0	05/20/09 02:22	
Iron	ug/L	ND	300	05/20/09 02:22	
Lead	ug/L	ND	10.0	05/20/09 02:22	
Manganese	ug/L	ND	50.0	05/20/09 02:22	
Nickel	ug/L	ND	50.0	05/20/09 02:22	
Selenium	ug/L	ND	10.0	05/20/09 02:22	
Silver	ug/L	ND	10.0	05/20/09 02:22	
Thallium	ug/L	ND	5.5	05/20/09 02:22	
Vanadium	ug/L	ND	25.0	05/20/09 02:22	
Zinc	ug/L	0.43J	10.0	05/20/09 02:22	

LABORATORY CONTROL SAMPLE: 280666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	445	89	80-120	
Arsenic	ug/L	500	437	87	80-120	
Barium	ug/L	500	448	90	80-120	
Beryllium	ug/L	500	444	89	80-120	
Cadmium	ug/L	500	437	87	80-120	
Chromium	ug/L	500	444	89	80-120	
Cobalt	ug/L	500	450	90	80-120	
Copper	ug/L	500	444	89	80-120	
Iron	ug/L	5000	4600	92	80-120	
Lead	ug/L	500	436	87	80-120	
Manganese	ug/L	500	455	91	80-120	
Nickel	ug/L	500	443	89	80-120	
Selenium	ug/L	500	428	86	80-120	
Silver	ug/L	250	231	92	80-120	
Thallium	ug/L	500	419	84	80-120	
Vanadium	ug/L	500	440	88	80-120	
Zinc	ug/L	500	439	88	80-120	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

MATRIX SPIKE SAMPLE: 280667

Parameter	Units	9244353027 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	435	87	75-125	
Arsenic	ug/L	ND	500	424	85	75-125	
Barium	ug/L	13.0J	500	451	88	75-125	
Beryllium	ug/L	ND	500	434	87	75-125	
Cadmium	ug/L	ND	500	425	85	75-125	
Chromium	ug/L	ND	500	434	87	75-125	
Cobalt	ug/L	6.0J	500	440	87	75-125	
Copper	ug/L	ND	500	436	87	75-125	
Iron	ug/L	769	5000	5310	91	75-125	
Lead	ug/L	ND	500	422	84	75-125	
Manganese	ug/L	305	500	765	92	75-125	
Nickel	ug/L	ND	500	430	86	75-125	
Selenium	ug/L	ND	500	423	85	75-125	
Silver	ug/L	ND	250	225	90	75-125	
Thallium	ug/L	3.3J	500	407	81	75-125	
Vanadium	ug/L	0.28J	500	432	86	75-125	
Zinc	ug/L	2.6J	500	430	85	75-125	

SAMPLE DUPLICATE: 280668

Parameter	Units	9244353028 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	ND	ND		25	
Barium	ug/L	13.1J	12.7J	3	25	
Beryllium	ug/L	ND	ND		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	ND	ND		25	
Cobalt	ug/L	7.4J	10.5	35	25	R1
Copper	ug/L	ND	ND		25	
Iron	ug/L	744	725	3	25	
Lead	ug/L	ND	ND		25	
Manganese	ug/L	307	300	2	25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	ND		25	
Thallium	ug/L	3.0J	ND		25	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	3.8J	3.1J		25	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

QC Batch: MSV/7104 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9244414001, 9244414002, 9244414003, 9244414004, 9244414005

METHOD BLANK: 283939 Matrix: Water
Associated Lab Samples: 9244414001, 9244414002, 9244414003, 9244414004, 9244414005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	05/26/09 17:11	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/26/09 17:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	05/26/09 17:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/26/09 17:11	
1,1-Dichloroethane	ug/L	ND	5.0	05/26/09 17:11	
1,1-Dichloroethene	ug/L	ND	5.0	05/26/09 17:11	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/26/09 17:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	05/26/09 17:11	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/26/09 17:11	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/26/09 17:11	
1,2-Dichloroethane	ug/L	ND	1.0	05/26/09 17:11	
1,2-Dichloroethene (Total)	ug/L	ND	5.0	05/26/09 17:11	
1,2-Dichloropropane	ug/L	ND	1.0	05/26/09 17:11	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/26/09 17:11	
2-Butanone (MEK)	ug/L	ND	100	05/26/09 17:11	
2-Hexanone	ug/L	ND	50.0	05/26/09 17:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	05/26/09 17:11	
Acetone	ug/L	ND	100	05/26/09 17:11	
Acrylonitrile	ug/L	ND	200	05/26/09 17:11	
Benzene	ug/L	ND	1.0	05/26/09 17:11	
Bromochloromethane	ug/L	ND	3.0	05/26/09 17:11	
Bromodichloromethane	ug/L	0.23J	1.0	05/26/09 17:11	
Bromoform	ug/L	ND	3.0	05/26/09 17:11	
Bromomethane	ug/L	ND	10.0	05/26/09 17:11	
Carbon disulfide	ug/L	ND	100	05/26/09 17:11	
Carbon tetrachloride	ug/L	ND	1.0	05/26/09 17:11	
Chlorobenzene	ug/L	ND	3.0	05/26/09 17:11	
Chloroethane	ug/L	ND	10.0	05/26/09 17:11	
Chloroform	ug/L	1.1J	5.0	05/26/09 17:11	C9
Chloromethane	ug/L	ND	1.0	05/26/09 17:11	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/26/09 17:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/26/09 17:11	
Dibromochloromethane	ug/L	ND	3.0	05/26/09 17:11	
Dibromomethane	ug/L	ND	10.0	05/26/09 17:11	
Ethylbenzene	ug/L	ND	1.0	05/26/09 17:11	
Iodomethane	ug/L	ND	10.0	05/26/09 17:11	
m&p-Xylene	ug/L	ND	2.0	05/26/09 17:11	
Methylene Chloride	ug/L	ND	2.0	05/26/09 17:11	
o-Xylene	ug/L	ND	1.0	05/26/09 17:11	
Styrene	ug/L	ND	1.0	05/26/09 17:11	
Tetrachloroethene	ug/L	ND	1.0	05/26/09 17:11	
Toluene	ug/L	ND	1.0	05/26/09 17:11	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/26/09 17:11	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

METHOD BLANK: 283939 Matrix: Water

Associated Lab Samples: 9244414001, 9244414002, 9244414003, 9244414004, 9244414005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/26/09 17:11	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	05/26/09 17:11	
Trichloroethene	ug/L	ND	1.0	05/26/09 17:11	
Trichlorofluoromethane	ug/L	ND	1.0	05/26/09 17:11	
Vinyl acetate	ug/L	ND	50.0	05/26/09 17:11	
Vinyl chloride	ug/L	ND	1.0	05/26/09 17:11	
Xylene (Total)	ug/L	ND	2.0	05/26/09 17:11	
1,2-Dichloroethane-d4 (S)	%	96	79-120	05/26/09 17:11	
4-Bromofluorobenzene (S)	%	98	87-109	05/26/09 17:11	
Dibromofluoromethane (S)	%	98	85-115	05/26/09 17:11	
Toluene-d8 (S)	%	100	70-120	05/26/09 17:11	

LABORATORY CONTROL SAMPLE: 283940

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.4	93	83-125	
1,1,1-Trichloroethane	ug/L	50	48.8	98	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	47.5	95	73-127	
1,1,2-Trichloroethane	ug/L	50	46.4	93	77-123	
1,1-Dichloroethane	ug/L	50	54.7	109	76-129	
1,1-Dichloroethene	ug/L	50	42.2	84	78-146	
1,2,3-Trichloropropane	ug/L	50	44.8	90	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	45.3	91	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	45.7	91	81-125	
1,2-Dichlorobenzene	ug/L	50	46.8	94	82-126	
1,2-Dichloroethane	ug/L	50	45.1	90	72-126	
1,2-Dichloroethene (Total)	ug/L	100	85.8	86	50-150	
1,2-Dichloropropane	ug/L	50	46.4	93	80-127	
1,4-Dichlorobenzene	ug/L	50	45.5	91	79-125	
2-Butanone (MEK)	ug/L	100	93.8J	94	50-134	
2-Hexanone	ug/L	100	100	100	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.0J	96	70-131	
Acetone	ug/L	100	101	101	50-146	
Acrylonitrile	ug/L	250	241	96	66-124	
Benzene	ug/L	50	45.6	91	78-128	
Bromochloromethane	ug/L	50	47.5	95	73-124	
Bromodichloromethane	ug/L	50	43.3	87	81-125	
Bromoform	ug/L	50	49.1	98	71-125	
Bromomethane	ug/L	50	48.7	97	50-150	
Carbon disulfide	ug/L	50	47.1J	94	54-150	
Carbon tetrachloride	ug/L	50	47.2	94	81-137	
Chlorobenzene	ug/L	50	45.8	92	82-126	
Chloroethane	ug/L	50	39.4	79	69-140	
Chloroform	ug/L	50	45.1	90	77-129	
Chloromethane	ug/L	50	37.9	76	54-139	

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

LABORATORY CONTROL SAMPLE: 283940

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	44.4	89	76-133	
cis-1,3-Dichloropropene	ug/L	50	46.3	93	76-127	
Dibromochloromethane	ug/L	50	46.3	93	77-125	
Dibromomethane	ug/L	50	50.2	100	77-125	
Ethylbenzene	ug/L	50	46.0	92	80-127	
Iodomethane	ug/L	100	120	120	65-172	
m&p-Xylene	ug/L	100	94.1	94	82-127	
Methylene Chloride	ug/L	50	50.1	100	67-133	
o-Xylene	ug/L	50	45.9	92	83-124	
Styrene	ug/L	50	47.6	95	80-130	
Tetrachloroethene	ug/L	50	46.1	92	78-128	
Toluene	ug/L	50	44.5	89	76-126	
trans-1,2-Dichloroethene	ug/L	50	41.4	83	78-134	
trans-1,3-Dichloropropene	ug/L	50	48.1	96	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	49.2J	98	51-140	
Trichloroethene	ug/L	50	44.5	89	79-127	
Trichlorofluoromethane	ug/L	50	42.7	85	76-148	
Vinyl acetate	ug/L	100	97.0	97	50-150	
Vinyl chloride	ug/L	50	45.0	90	67-143	
Xylene (Total)	ug/L	150	140	93	83-125	
1,2-Dichloroethane-d4 (S)	%			97	79-120	
4-Bromofluorobenzene (S)	%			101	87-109	
Dibromofluoromethane (S)	%			99	85-115	
Toluene-d8 (S)	%			100	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 284034 284035

Parameter	Units	9244414003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	55.9	52.7	112	105	60-150	6	30	
Benzene	ug/L	ND	50	50	53.7	51.6	107	103	74-136	4	30	
Chlorobenzene	ug/L	ND	50	50	52.7	51.4	105	103	79-135	3	30	
Toluene	ug/L	ND	50	50	51.9	50.0	104	100	73-131	4	30	
Trichloroethene	ug/L	ND	50	50	55.0	51.9	110	104	73-131	6	30	
1,2-Dichloroethane-d4 (S)	%						103	102	79-120			
4-Bromofluorobenzene (S)	%						97	98	87-109			
Dibromofluoromethane (S)	%						104	102	85-115			
Toluene-d8 (S)	%						100	99	70-120			

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

QC Batch: MERP/2165 — Analysis Method: EPA 7470
QC Batch Method: EPA 7470 — Analysis Description: 7470 Mercury
Associated Lab Samples: 9244414001, 9244414002, 9244414003, 9244414004

METHOD BLANK: 283285 — Matrix: Water
Associated Lab Samples: 9244414001, 9244414002, 9244414003, 9244414004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/27/09 16:14	

LABORATORY CONTROL SAMPLE: 283286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.9	117	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 283288 283289

Parameter	Units	9244341003 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	2.7	2.9	109	115	75-125	6	25	

SAMPLE DUPLICATE: 283287

Parameter	Units	9244341001 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

QC Batch: WETA/5101 Analysis Method: ASTM D516-90
QC Batch Method: ASTM D516-90 Analysis Description: ASTM D516-90 Sulfate Water
Associated Lab Samples: 9244414001, 9244414002, 9244414003, 9244414004

METHOD BLANK: 280782 Matrix: Water
Associated Lab Samples: 9244414001, 9244414002, 9244414003, 9244414004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	250	05/19/09 10:47	

LABORATORY CONTROL SAMPLE: 280783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.4J	102	90-110	

MATRIX SPIKE SAMPLE: 280784

Parameter	Units	9244214001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	ND	20	22.1J	100	75-125	

MATRIX SPIKE SAMPLE: 280785

Parameter	Units	9244214002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	8.1	20	28.6J	102	75-125	

SAMPLE DUPLICATE: 280786

Parameter	Units	9244218003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 280787

Parameter	Units	9244374001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	12.3	12.1J	1	20	

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QUALIFIERS

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

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.

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

ANALYTE QUALIFIERS

C9	Common Laboratory Contaminant.
R1	RPD value was outside control limits.
Z2	Analyte present in the associated method blank above the detection limit.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COBLE'S SANDROCK 419.00.02
Pace Project No.: 9244414

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9244414001	0105-MW-8	SM 2320B	WET/8326		
9244414002	0105-MW-10S	SM 2320B	WET/8326		
9244414003	0105-P19S	SM 2320B	WET/8326		
9244414004	0105-FIELD BLANK	SM 2320B	WET/8326		
9244414001	0105-MW-8	EPA 3010	MPRP/4387	EPA 6010	ICP/4085
9244414002	0105-MW-10S	EPA 3010	MPRP/4387	EPA 6010	ICP/4085
9244414003	0105-P19S	EPA 3010	MPRP/4387	EPA 6010	ICP/4085
9244414004	0105-FIELD BLANK	EPA 3010	MPRP/4387	EPA 6010	ICP/4085
9244414001	0105-MW-8	ASTM D516-90	WETA/5101		
9244414002	0105-MW-10S	ASTM D516-90	WETA/5101		
9244414003	0105-P19S	ASTM D516-90	WETA/5101		
9244414004	0105-FIELD BLANK	ASTM D516-90	WETA/5101		
9244414001	0105-MW-8	SM 4500-Cl-E	WETA/5102		
9244414002	0105-MW-10S	SM 4500-Cl-E	WETA/5102		
9244414003	0105-P19S	SM 4500-Cl-E	WETA/5102		
9244414004	0105-FIELD BLANK	SM 4500-Cl-E	WETA/5102		
9244414001	0105-MW-8	SM 2540C	WET/8351		
9244414002	0105-MW-10S	SM 2540C	WET/8351		
9244414003	0105-P19S	SM 2540C	WET/8351		
9244414004	0105-FIELD BLANK	SM 2540C	WET/8351		
9244414001	0105-MW-8	EPA 7470	MERP/2165	EPA 7470	MERC/2156
9244414002	0105-MW-10S	EPA 7470	MERP/2165	EPA 7470	MERC/2156
9244414003	0105-P19S	EPA 7470	MERP/2165	EPA 7470	MERC/2156
9244414004	0105-FIELD BLANK	EPA 7470	MERP/2165	EPA 7470	MERC/2156
9244414001	0105-MW-8	EPA 8260	MSV/7104		
9244414002	0105-MW-10S	EPA 8260	MSV/7104		
9244414003	0105-P19S	EPA 8260	MSV/7104		
9244414004	0105-FIELD BLANK	EPA 8260	MSV/7104		
9244414005	0105-TRIP BLANK	EPA 8260	MSV/7104		

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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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Joyce Engineering-NC	Report To:	Jeremey Kerly	Attention:	Lecia Jones
Address:	2211 West Meadowview Rd	Copy To:		Company Name:	Joyce Engineering
	Greensboro, NC 27407			Address:	1604 Ownby Lane, Richmond, VA 23222
Email To:	cmitchell@joyceengineering.com	Purchase Order No.		Pace Quote Reference:	
Phone:	(336) 323-0092 Fax	Client Project ID:	Coble's Sandrock 419.00.02	Pace Project Manager:	Godwin, Kevin
Requested Due Date/TAT:	10 Day (Default)	Container Order Number:	9658	Pace Profile #:	2186-12

Regulatory Agency:

State / Location: North Carolina

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS 160.1	Alkalinity	Sulfate	Metals	VOC 8260 WT	Chloride	Residual Chlorine (Y/N)	9244414
1	0105-MW-8	WT	G			5/14/09	13:25	17	8	X		X	X						X	X	X	X	X	X		001
2	0105-MW-10S	WT	G			5/14/09	12:50	16	8	X		X	X						X	X	X	X	X	X		002
3	0105-P19S	WT	G			5/14/09	13:05	17	8	X		X	X						X	X	X	X	X	X		003
4	0105-Field Blank	WT	G			5/14/09	13:35	-	8	X		X	X						X	X	X	X	X	X		004
5	0105 - Trip Blank	WT	-	-	-	-	-	-					X										X			005
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Include Mercury, Iron and	Daniel Kirchner / JEI	5/15/09	12:10	[signature] Pace clt	5/15/09	12:10				
Manganese with metals	[signature] Pace clt	5/15/09	14:28	C Weeks / Pace	5/15/09	14:28	30	yes	no	yes

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Carrie Mitchell, Jeremey Kerly

SIGNATURE of SAMPLER: [signature] DATE Signed: 5/14/09

DATE: 5/13/09

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.30

Well ID: 0105-MW8 **Sampler(s):** C. Mitchell/ J. Kerly

Well Location: backside of the landfill along perimeter road

Well Diameter: 2 inches

Initial Depth to Water (DTW): 6.30 feet

Depth to Bottom (DTB): 22.76 feet

Water Column Thickness (WCT): 16.46 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 2.68 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 8.04 gallons

Actual Amount Purged/Bailed : 8.04 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 6.46 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	14:19	15.1	6.14	124.5	184	CM
2.68	14:25	15.1	6.84	125.9	997	CM
5.36	14:30	14.6	6.56	123.3	>1000	CM
8.04	14:34	15.4	6.66	121.3	>1000	CM
	5/14/09					
Before Sampling	13:25	17.1	6.31	125.9	606	JK

Comments (weather conditions, odor, color, silt, etc.):

5/13-Sunny, 70's

5/14-Mostly cloudy, 70's

Field blank taken at 13:35

Signature: [signature] **Date:** 5-14-09

QA/QC Sign Off: [signature] **Date:** 6/18/09

DATE: 5/13/09

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.30

Well ID: 0105-MW10S **Sampler(s):** C. Mitchell/ J. Kerly

Well Location: side of the landfill along perimeter road

Well Diameter: 2 inches

Initial Depth to Water (DTW): 8.29 feet

Depth to Bottom (DTB): 24.34 feet

Water Column Thickness (WCT): 16.05 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 2.62 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 7.86 gallons

Actual Amount Purged/Bailed : 7.86 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 8.17 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	13:18	14.9	6.07	225	68.6	CM
2.62	13:22	14.0	6.71	187	395	CM
5.24	13:27	13.9	6.55	182	956	CM
7.86	13:34	13.7	6.34	186	>1000	CM
	5/14/09					
Before Sampling	12:50	16.3	6.42	194	482	JK

Comments (weather conditions, odor, color, silt, etc.):

5/13-Sunny, 70's

5/14-Mostly cloudy, 70's

Signature: [signature] **Date:** 5-14-09

QA/QC Sign Off: [signature] **Date:** 6-18-09

DATE: 5/13/09

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.30

Well ID: 0105-P19S **Sampler(s):** C. Mitchell/ J. Kerly

Well Location: backside of the landfill towards bridge in the woods

Well Diameter: 2 inches

Initial Depth to Water (DTW): 4.90 feet

Depth to Bottom (DTB): 13.00 feet

Water Column Thickness (WCT): 8.10 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.32 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 3.96 gallons

Actual Amount Purged/Bailed : 4.00 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 4.96 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	13:52	15.3	6.23	173.4	101	CM
1.32	13:55	14.9	5.90	172.9	670	CM
2.64	13:57	15.5	5.87	168.7	566	CM
3.96	14:02	14.1	5.90	190.4	469	CM
	5/14/09					
Before Sampling	13:05	16.6	5.58	164.8	15.0	JK

Comments (weather conditions, odor, color, silt, etc.):

5/13-Sunny, 70's

5/14-Mostly cloudy, 70's

Signature: [signature] **Date:** 5-14-09

QA/QC Sign Off: [signature] **Date:** 6/18/09

Appendix 4

Results of Analyses – Background Event No. 4 (October 2009)
Results as Reported by the Laboratory
Field Forms

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October 22, 2009

Mr. Jeremey Kerly
Joyce Engineering-NC
2211 West Meadowview Rd
Suite 101
Greensboro, NC 27407

RE: Project: Coble's Sandrock-Background
Pace Project No.: 9254964

Dear Mr. Kerly:
Enclosed are the analytical results for sample(s) received by the laboratory on October 09, 2009. 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.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

Charlotte Certification IDs

West Virginia Certification #: 357
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
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 #: 990060001
South Carolina Drinking Water Cert. #: 990060003
Tennessee Certification #: 04010

Asheville Certification IDs

West Virginia Certification #: 356
Florida/NELAP Certification #: E87648
Louisiana/LELAP Certification #: 03095
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
Connecticut Certification #: PH-0106
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Tennessee Certification #: 2980
Virginia Certification #: 00072
North Carolina Drinking Water Certification #: 37712

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SAMPLE SUMMARY

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9254964001	**0105-MW-8**	Water	10/08/09 10:30	10/09/09 16:00
9254964002	**0105-MW-10S**	Water	10/08/09 10:50	10/09/09 16:00
9254964003	**0105-P19S**	Water	10/08/09 10:00	10/09/09 16:00
9254964004	**0105-FIELD BLANK**	Water	10/08/09 12:05	10/09/09 16:00
9254964005	**TRIP BLANK**	Water	10/07/09 08:00	10/09/09 16:00

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SAMPLE ANALYTE COUNT

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9254964001	**0105-MW-8**	ASTM D516-90	TEE	1
		EPA 6010	JMW	17
		EPA 7470	SHB	1
		EPA 8260	AW	54
		SM 2320B	TEE	1
		SM 2540C	JDA	1
		SM 4500-Cl-E	TEE	1
9254964002	**0105-MW-10S**	ASTM D516-90	TEE	1
		EPA 6010	JMW	17
		EPA 7470	SHB	1
		EPA 8260	AW	54
		SM 2320B	TEE	1
		SM 2540C	JDA	1
		SM 4500-Cl-E	TEE	1
9254964003	**0105-P19S**	ASTM D516-90	TEE	1
		EPA 6010	JMW	17
		EPA 7470	SHB	1
		EPA 8260	AW	54
		SM 2320B	TEE	1
		SM 2540C	JDA	1
		SM 4500-Cl-E	TEE	1
9254964004	**0105-FIELD BLANK**	ASTM D516-90	TEE	1
		EPA 6010	JMW	17
		EPA 7470	SHB	1
		EPA 8260	AW	54
		SM 2320B	TEE	1
		SM 2540C	JDA	1
		SM 4500-Cl-E	TEE	1
9254964005	**TRIP BLANK**	EPA 8260	AW	54

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Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

Sample: 0105-MW-8 **Lab ID: 9254964001** Collected: 10/08/09 10:30 Received: 10/09/09 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	2.6	1	10/20/09 09:40	10/21/09 22:04	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	10/20/09 09:40	10/21/09 22:04	7440-38-2	
Barium	**120**	ug/L	100	0.20	1	10/20/09 09:40	10/21/09 22:04	7440-39-3	Z2
Beryllium	**0.48J**	ug/L	1.0	0.10	1	10/20/09 09:40	10/21/09 22:04	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	10/20/09 09:40	10/21/09 22:04	7440-43-9	
Chromium	**8.6J**	ug/L	10.0	0.40	1	10/20/09 09:40	10/21/09 22:04	7440-47-3	
Cobalt	**6.1J**	ug/L	10.0	0.60	1	10/20/09 09:40	10/21/09 22:04	7440-48-4	
Copper	**2.4J**	ug/L	10.0	0.30	1	10/20/09 09:40	10/21/09 22:04	7440-50-8	
Iron	**19400**	ug/L	300	14.0	1	10/20/09 09:40	10/21/09 22:04	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	10/20/09 09:40	10/21/09 22:04	7439-92-1	
Manganese	**236**	ug/L	50.0	0.30	1	10/20/09 09:40	10/21/09 22:04	7439-96-5	
Nickel	**9.0J**	ug/L	50.0	1.7	1	10/20/09 09:40	10/21/09 22:04	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	10/20/09 09:40	10/21/09 22:04	7782-49-2	
Silver	**0.41J**	ug/L	10.0	0.10	1	10/20/09 09:40	10/21/09 22:04	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	10/20/09 09:40	10/21/09 22:04	7440-28-0	
Vanadium	**23.3J**	ug/L	25.0	0.20	1	10/20/09 09:40	10/21/09 22:04	7440-62-2	Z2
Zinc	**39.2**	ug/L	10.0	0.40	1	10/20/09 09:40	10/21/09 22:04	7440-66-6	Z2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.075J**	ug/L	0.20	0.070	1	10/16/09 12:20	10/22/09 11:36	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		10/18/09 08:54	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		10/18/09 08:54	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/18/09 08:54	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		10/18/09 08:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/18/09 08:54	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		10/18/09 08:54	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		10/18/09 08:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		10/18/09 08:54	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		10/18/09 08:54	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/18/09 08:54	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		10/18/09 08:54	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		10/18/09 08:54	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		10/18/09 08:54	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/18/09 08:54	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		10/18/09 08:54	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		10/18/09 08:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/18/09 08:54	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		10/18/09 08:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		10/18/09 08:54	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/18/09 08:54	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		10/18/09 08:54	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		10/18/09 08:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/18/09 08:54	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		10/18/09 08:54	540-59-0	

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Asheville, NC 28804
(828)254-7176

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

ANALYTICAL RESULTS

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

Sample: 0105-MW-8 **Lab ID: 9254964001** Collected: 10/08/09 10:30 Received: 10/09/09 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		10/18/09 08:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		10/18/09 08:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		10/18/09 08:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/18/09 08:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/18/09 08:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/18/09 08:54	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/18/09 08:54	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		10/18/09 08:54	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		10/18/09 08:54	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/18/09 08:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		10/18/09 08:54	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/18/09 08:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		10/18/09 08:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		10/18/09 08:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/18/09 08:54	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/18/09 08:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/18/09 08:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/18/09 08:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/18/09 08:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/18/09 08:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/18/09 08:54	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		10/18/09 08:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/18/09 08:54	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/18/09 08:54	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/18/09 08:54	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/18/09 08:54	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		10/18/09 08:54	460-00-4	
Dibromofluoromethane (S)	101	%	85-115		1		10/18/09 08:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	79-120		1		10/18/09 08:54	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		10/18/09 08:54	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**58.0**	mg/L	5.0	5.0	1		10/21/09 17:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**164**	mg/L	20.0	20.0	1		10/13/09 14:47		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**5.5**	mg/L	5.0	5.0	1		10/15/09 15:54	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	ND	mg/L	250	5.0	1		10/14/09 19:48	14808-79-8	

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(828)254-7176

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

ANALYTICAL RESULTS

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

Sample: 0105-MW-10S **Lab ID: 9254964002** Collected: 10/08/09 10:50 Received: 10/09/09 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	2.6	1	10/20/09 09:40	10/21/09 22:08	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	10/20/09 09:40	10/21/09 22:08	7440-38-2	
Barium	**85.5J**	ug/L	100	0.20	1	10/20/09 09:40	10/21/09 22:08	7440-39-3	Z2
Beryllium	**0.23J**	ug/L	1.0	0.10	1	10/20/09 09:40	10/21/09 22:08	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	10/20/09 09:40	10/21/09 22:08	7440-43-9	
Chromium	**25.1**	ug/L	10.0	0.40	1	10/20/09 09:40	10/21/09 22:08	7440-47-3	
Cobalt	**6.8J**	ug/L	10.0	0.60	1	10/20/09 09:40	10/21/09 22:08	7440-48-4	
Copper	**27.8**	ug/L	10.0	0.30	1	10/20/09 09:40	10/21/09 22:08	7440-50-8	
Iron	**9670**	ug/L	300	14.0	1	10/20/09 09:40	10/21/09 22:08	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	10/20/09 09:40	10/21/09 22:08	7439-92-1	
Manganese	**1050**	ug/L	50.0	0.30	1	10/20/09 09:40	10/21/09 22:08	7439-96-5	
Nickel	**13.8J**	ug/L	50.0	1.7	1	10/20/09 09:40	10/21/09 22:08	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	10/20/09 09:40	10/21/09 22:08	7782-49-2	
Silver	**0.60J**	ug/L	10.0	0.10	1	10/20/09 09:40	10/21/09 22:08	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	10/20/09 09:40	10/21/09 22:08	7440-28-0	
Vanadium	**25.6**	ug/L	25.0	0.20	1	10/20/09 09:40	10/21/09 22:08	7440-62-2	Z2
Zinc	**14.0**	ug/L	10.0	0.40	1	10/20/09 09:40	10/21/09 22:08	7440-66-6	Z2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	10/16/09 12:20	10/22/09 11:39	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		10/18/09 09:18	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		10/18/09 09:18	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/18/09 09:18	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		10/18/09 09:18	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/18/09 09:18	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		10/18/09 09:18	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		10/18/09 09:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		10/18/09 09:18	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		10/18/09 09:18	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/18/09 09:18	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		10/18/09 09:18	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		10/18/09 09:18	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		10/18/09 09:18	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/18/09 09:18	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		10/18/09 09:18	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		10/18/09 09:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/18/09 09:18	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		10/18/09 09:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		10/18/09 09:18	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/18/09 09:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		10/18/09 09:18	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		10/18/09 09:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/18/09 09:18	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		10/18/09 09:18	540-59-0	

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(704)875-9092

ANALYTICAL RESULTS

Project: Cobie's Sandrock-Background
Pace Project No.: 9254964

Sample: 0105-MW-10S **Lab ID: 9254964002** Collected: 10/08/09 10:50 Received: 10/09/09 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		10/18/09 09:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		10/18/09 09:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		10/18/09 09:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/18/09 09:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/18/09 09:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/18/09 09:18	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/18/09 09:18	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		10/18/09 09:18	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		10/18/09 09:18	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/18/09 09:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		10/18/09 09:18	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/18/09 09:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		10/18/09 09:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		10/18/09 09:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/18/09 09:18	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/18/09 09:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/18/09 09:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/18/09 09:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/18/09 09:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/18/09 09:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/18/09 09:18	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		10/18/09 09:18	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/18/09 09:18	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/18/09 09:18	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/18/09 09:18	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/18/09 09:18	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		10/18/09 09:18	460-00-4	
Dibromofluoromethane (S)	100	%	85-115		1		10/18/09 09:18	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	79-120		1		10/18/09 09:18	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		10/18/09 09:18	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**74.0**	mg/L	5.0	5.0	1		10/21/09 17:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**288**	mg/L	20.0	20.0	1		10/13/09 14:48		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**17.2**	mg/L	5.0	5.0	1		10/15/09 15:54	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	**38.5J**	mg/L	250	5.0	1		10/14/09 19:48	14808-79-8	

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

ANALYTICAL RESULTS

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

Sample: 0105-P19S **Lab ID: 9254964003** Collected: 10/08/09 10:00 Received: 10/09/09 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	2.6	1	10/20/09 09:40	10/21/09 22:13	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	10/20/09 09:40	10/21/09 22:13	7440-38-2	
Barium	**113**	ug/L	100	0.20	1	10/20/09 09:40	10/21/09 22:13	7440-39-3	Z2
Beryllium	ND	ug/L	1.0	0.10	1	10/20/09 09:40	10/21/09 22:13	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	10/20/09 09:40	10/21/09 22:13	7440-43-9	
Chromium	**0.45J**	ug/L	10.0	0.40	1	10/20/09 09:40	10/21/09 22:13	7440-47-3	
Cobalt	**5.9J**	ug/L	10.0	0.60	1	10/20/09 09:40	10/21/09 22:13	7440-48-4	
Copper	**0.44J**	ug/L	10.0	0.30	1	10/20/09 09:40	10/21/09 22:13	7440-50-8	
Iron	**8060**	ug/L	300	14.0	1	10/20/09 09:40	10/21/09 22:13	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	10/20/09 09:40	10/21/09 22:13	7439-92-1	
Manganese	**1890**	ug/L	50.0	0.30	1	10/20/09 09:40	10/21/09 22:13	7439-96-5	
Nickel	**2.2J**	ug/L	50.0	1.7	1	10/20/09 09:40	10/21/09 22:13	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	10/20/09 09:40	10/21/09 22:13	7782-49-2	
Silver	**0.27J**	ug/L	10.0	0.10	1	10/20/09 09:40	10/21/09 22:13	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	10/20/09 09:40	10/21/09 22:13	7440-28-0	
Vanadium	**4.3J**	ug/L	25.0	0.20	1	10/20/09 09:40	10/21/09 22:13	7440-62-2	Z2
Zinc	**1.9J**	ug/L	10.0	0.40	1	10/20/09 09:40	10/21/09 22:13	7440-66-6	Z2
7470 Mercury	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	0.070	1	10/16/09 12:20	10/22/09 11:41	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		10/18/09 09:42	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		10/18/09 09:42	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/18/09 09:42	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		10/18/09 09:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/18/09 09:42	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		10/18/09 09:42	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		10/18/09 09:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		10/18/09 09:42	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		10/18/09 09:42	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/18/09 09:42	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		10/18/09 09:42	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		10/18/09 09:42	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		10/18/09 09:42	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/18/09 09:42	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		10/18/09 09:42	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		10/18/09 09:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/18/09 09:42	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		10/18/09 09:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		10/18/09 09:42	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/18/09 09:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		10/18/09 09:42	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		10/18/09 09:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/18/09 09:42	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		10/18/09 09:42	540-59-0	

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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: Coble's Sandrock-Background
Pace Project No.: 9254964

Sample: 0105-P19S **Lab ID: 9254964003** Collected: 10/08/09 10:00 Received: 10/09/09 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		10/18/09 09:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		10/18/09 09:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		10/18/09 09:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/18/09 09:42	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/18/09 09:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/18/09 09:42	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/18/09 09:42	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		10/18/09 09:42	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		10/18/09 09:42	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/18/09 09:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		10/18/09 09:42	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/18/09 09:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		10/18/09 09:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		10/18/09 09:42	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/18/09 09:42	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/18/09 09:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/18/09 09:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/18/09 09:42	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/18/09 09:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/18/09 09:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/18/09 09:42	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		10/18/09 09:42	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/18/09 09:42	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/18/09 09:42	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/18/09 09:42	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/18/09 09:42	95-47-6	
4-Bromofluorobenzene (S)	96	%	87-109		1		10/18/09 09:42	460-00-4	
Dibromofluoromethane (S)	102	%	85-115		1		10/18/09 09:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	79-120		1		10/18/09 09:42	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		10/18/09 09:42	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**70.0**	mg/L	5.0	5.0	1		10/21/09 17:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**152**	mg/L	20.0	20.0	1		10/13/09 14:48		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**13.1**	mg/L	5.0	5.0	1		10/15/09 15:55	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	**6.3J**	mg/L	250	5.0	1		10/14/09 20:29	14808-79-8	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

Sample: 0105-FIELD BLANK **Lab ID: 9254964004** Collected: 10/08/09 12:05 Received: 10/09/09 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	2.6	1	10/20/09 13:45	10/22/09 03:24	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	10/20/09 13:45	10/22/09 03:24	7440-38-2	
Barium	**15.4J**	ug/L	100	0.20	1	10/20/09 13:45	10/22/09 03:24	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	10/20/09 13:45	10/22/09 03:24	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	10/20/09 13:45	10/22/09 03:24	7440-43-9	
Chromium	ND	ug/L	10.0	0.40	1	10/20/09 13:45	10/22/09 03:24	7440-47-3	
Cobalt	ND	ug/L	10.0	0.60	1	10/20/09 13:45	10/22/09 03:24	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	10/20/09 13:45	10/22/09 03:24	7440-50-8	
Iron	ND	ug/L	300	14.0	1	10/20/09 13:45	10/22/09 03:24	7439-89-6	
Lead	ND	ug/L	10.0	4.0	1	10/20/09 13:45	10/22/09 03:24	7439-92-1	
Manganese	**6.4J**	ug/L	50.0	0.30	1	10/20/09 13:45	10/22/09 03:24	7439-96-5	
Nickel	ND	ug/L	50.0	1.7	1	10/20/09 13:45	10/22/09 03:24	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	10/20/09 13:45	10/22/09 03:24	7782-49-2	
Silver	**0.10J**	ug/L	10.0	0.10	1	10/20/09 13:45	10/22/09 03:24	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	10/20/09 13:45	10/22/09 03:24	7440-28-0	
Vanadium	**0.63J**	ug/L	25.0	0.20	1	10/20/09 13:45	10/22/09 03:24	7440-62-2	Z2
Zinc	ND	ug/L	10.0	0.40	1	10/20/09 13:45	10/22/09 03:24	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	10/16/09 12:20	10/22/09 11:43	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		10/18/09 06:54	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		10/18/09 06:54	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/18/09 06:54	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		10/18/09 06:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/18/09 06:54	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		10/18/09 06:54	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		10/18/09 06:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		10/18/09 06:54	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		10/18/09 06:54	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/18/09 06:54	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		10/18/09 06:54	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		10/18/09 06:54	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		10/18/09 06:54	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/18/09 06:54	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		10/18/09 06:54	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		10/18/09 06:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/18/09 06:54	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		10/18/09 06:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		10/18/09 06:54	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/18/09 06:54	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		10/18/09 06:54	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		10/18/09 06:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/18/09 06:54	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		10/18/09 06:54	540-59-0	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

Sample: 0105-FIELD BLANK **Lab ID: 9254964004** Collected: 10/08/09 12:05 Received: 10/09/09 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		10/18/09 06:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		10/18/09 06:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		10/18/09 06:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/18/09 06:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/18/09 06:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/18/09 06:54	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/18/09 06:54	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		10/18/09 06:54	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		10/18/09 06:54	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/18/09 06:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		10/18/09 06:54	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/18/09 06:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		10/18/09 06:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		10/18/09 06:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/18/09 06:54	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/18/09 06:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/18/09 06:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/18/09 06:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/18/09 06:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/18/09 06:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/18/09 06:54	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		10/18/09 06:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/18/09 06:54	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/18/09 06:54	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/18/09 06:54	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/18/09 06:54	95-47-6	
4-Bromofluorobenzene (S)	97	%	87-109		1		10/18/09 06:54	460-00-4	
Dibromofluoromethane (S)	101	%	85-115		1		10/18/09 06:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	79-120		1		10/18/09 06:54	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		10/18/09 06:54	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**26.0**	mg/L	5.0	5.0	1		10/21/09 17:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**88.0**	mg/L	20.0	20.0	1		10/13/09 14:49		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**11.4**	mg/L	5.0	5.0	1		10/15/09 15:55	16887-00-6	
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	**12.1J**	mg/L	250	5.0	1		10/14/09 20:29	14808-79-8	

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ANALYTICAL RESULTS

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

Sample: TRIP BLANK **Lab ID: 9254964005** Collected: 10/07/09 08:00 Received: 10/09/09 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		10/18/09 06:07	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		10/18/09 06:07	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/18/09 06:07	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		10/18/09 06:07	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/18/09 06:07	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		10/18/09 06:07	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		10/18/09 06:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		10/18/09 06:07	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		10/18/09 06:07	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/18/09 06:07	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		10/18/09 06:07	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		10/18/09 06:07	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		10/18/09 06:07	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/18/09 06:07	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		10/18/09 06:07	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		10/18/09 06:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/18/09 06:07	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		10/18/09 06:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		10/18/09 06:07	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/18/09 06:07	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		10/18/09 06:07	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		10/18/09 06:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/18/09 06:07	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		10/18/09 06:07	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		10/18/09 06:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		10/18/09 06:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		10/18/09 06:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/18/09 06:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/18/09 06:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/18/09 06:07	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/18/09 06:07	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		10/18/09 06:07	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		10/18/09 06:07	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/18/09 06:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		10/18/09 06:07	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/18/09 06:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		10/18/09 06:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		10/18/09 06:07	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/18/09 06:07	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/18/09 06:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/18/09 06:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/18/09 06:07	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/18/09 06:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/18/09 06:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/18/09 06:07	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		10/18/09 06:07	108-05-4	

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(704)875-9092

ANALYTICAL RESULTS

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

Sample: TRIP BLANK **Lab ID: 9254964005** Collected: 10/07/09 08:00 Received: 10/09/09 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/18/09 06:07	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/18/09 06:07	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/18/09 06:07	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/18/09 06:07	95-47-6	
4-Bromofluorobenzene (S)	97	%	87-109		1		10/18/09 06:07	460-00-4	
Dibromofluoromethane (S)	99	%	85-115		1		10/18/09 06:07	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		10/18/09 06:07	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		10/18/09 06:07	2037-26-5	

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QUALITY CONTROL DATA

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

QC Batch: WETA/6036 — Analysis Method: ASTM D516-90
QC Batch Method: ASTM D516-90 — Analysis Description: ASTM D516-90 Sulfate Water
Associated Lab Samples: 9254964001, 9254964002, 9254964003, 9254964004

METHOD BLANK: 350894 — Matrix: Water
Associated Lab Samples: 9254964001, 9254964002, 9254964003, 9254964004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	250	10/14/09 19:43	

LABORATORY CONTROL SAMPLE: 350895

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

MATRIX SPIKE SAMPLE: 350896

Parameter	Units	9254566002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	46.0	20	65.6J	98	75-125	

SAMPLE DUPLICATE: 350897

Parameter	Units	9254698005 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	251	257J	3	20	

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QUALITY CONTROL DATA

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

QC Batch: WET/10172 — Analysis Method: SM 2320B
QC Batch Method: SM 2320B — Analysis Description: 2320B Alkalinity
Associated Lab Samples: 9254964001, 9254964002, 9254964003, 9254964004

METHOD BLANK: 354131 — Matrix: Water
Associated Lab Samples: 9254964001, 9254964002, 9254964003, 9254964004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	10/21/09 17:00	

LABORATORY CONTROL SAMPLE: 354132

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

SAMPLE DUPLICATE: 354133

Parameter	Units	9254921002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

QC Batch: MERP/2442 — Analysis Method: EPA 7470
QC Batch Method: EPA 7470 — Analysis Description: 7470 Mercury
Associated Lab Samples: 9254964001, 9254964002, 9254964003, 9254964004

METHOD BLANK: 351253 — Matrix: Water
Associated Lab Samples: 9254964001, 9254964002, 9254964003, 9254964004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	10/22/09 11:06	

LABORATORY CONTROL SAMPLE: 351254

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	106	80-120	

MATRIX SPIKE SAMPLE: 351255

Parameter	Units	9254927001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.5	101	75-125	

SAMPLE DUPLICATE: 351256

Parameter	Units	9254927002 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

QC Batch: MPRP/5234 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9254964001, 9254964002, 9254964003

METHOD BLANK: 352914 — Matrix: Water
Associated Lab Samples: 9254964001, 9254964002, 9254964003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	10/21/09 20:13	
Arsenic	ug/L	ND	10.0	10/21/09 20:13	
Barium	ug/L	2.5J	100	10/21/09 20:13	
Beryllium	ug/L	ND	1.0	10/21/09 20:13	
Cadmium	ug/L	ND	1.0	10/21/09 20:13	
Chromium	ug/L	ND	10.0	10/21/09 20:13	
Cobalt	ug/L	ND	10.0	10/21/09 20:13	
Copper	ug/L	ND	10.0	10/21/09 20:13	
Iron	ug/L	ND	300	10/21/09 20:13	
Lead	ug/L	ND	10.0	10/21/09 20:13	
Manganese	ug/L	ND	50.0	10/21/09 20:13	
Nickel	ug/L	ND	50.0	10/21/09 20:13	
Selenium	ug/L	ND	10.0	10/21/09 20:13	
Silver	ug/L	ND	10.0	10/21/09 20:13	
Thallium	ug/L	ND	5.5	10/21/09 20:13	
Vanadium	ug/L	0.29J	25.0	10/21/09 20:13	
Zinc	ug/L	2.9J	10.0	10/21/09 20:13	

LABORATORY CONTROL SAMPLE: 352915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	493	99	80-120	
Arsenic	ug/L	500	477	95	80-120	
Barium	ug/L	500	483	97	80-120	
Beryllium	ug/L	500	501	100	80-120	
Cadmium	ug/L	500	482	96	80-120	
Chromium	ug/L	500	484	97	80-120	
Cobalt	ug/L	500	494	99	80-120	
Copper	ug/L	500	479	96	80-120	
Iron	ug/L	5000	5000	100	80-120	
Lead	ug/L	500	489	98	80-120	
Manganese	ug/L	500	489	98	80-120	
Nickel	ug/L	500	489	98	80-120	
Selenium	ug/L	500	469	94	80-120	
Silver	ug/L	250	246	98	80-120	
Thallium	ug/L	500	461	92	80-120	
Vanadium	ug/L	500	479	96	80-120	
Zinc	ug/L	500	488	98	80-120	

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QUALITY CONTROL DATA

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

MATRIX SPIKE SAMPLE: 352916

Parameter	Units	9254962002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	494	99	75-125	
Arsenic	ug/L	ND	500	484	96	75-125	
Barium	ug/L	223	500	693	94	75-125	
Beryllium	ug/L	ND	500	500	100	75-125	
Cadmium	ug/L	ND	500	475	95	75-125	
Chromium	ug/L	0.89J	500	477	95	75-125	
Cobalt	ug/L	ND	500	484	97	75-125	
Copper	ug/L	ND	500	479	96	75-125	
Iron	ug/L	1010	5000	5940	99	75-125	
Lead	ug/L	ND	500	479	96	75-125	
Manganese	ug/L	876	500	1350	94	75-125	
Nickel	ug/L	ND	500	479	96	75-125	
Selenium	ug/L	ND	500	477	95	75-125	
Silver	ug/L	0.42J	250	244	97	75-125	
Thallium	ug/L	ND	500	452	90	75-125	
Vanadium	ug/L	1.4J	500	478	95	75-125	
Zinc	ug/L	0.56J	500	488	97	75-125	

SAMPLE DUPLICATE: 352917

Parameter	Units	9254962003 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	8.0J	6.5J	21	25	
Barium	ug/L	1620	1580	2	25	
Beryllium	ug/L	0.11J	0.10J		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	1.7J	2.7J		25	
Cobalt	ug/L	20.9	20.8	0	25	
Copper	ug/L	ND	ND		25	
Iron	ug/L	19200	18900	2	25	
Lead	ug/L	ND	ND		25	
Manganese	ug/L	15600	15300	2	25	
Nickel	ug/L	12.6J	12.8J	2	25	
Selenium	ug/L	4.7J	ND		25	
Silver	ug/L	3.8J	3.7J		25	
Thallium	ug/L	4.4J	ND		25	
Vanadium	ug/L	5.1J	5.1J	1	25	
Zinc	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

QC Batch: MPRP/5240
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9254964004

METHOD BLANK: 353168
Matrix: Water
Associated Lab Samples: 9254964004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	10/22/09 03:16	
Arsenic	ug/L	ND	10.0	10/22/09 03:16	
Barium	ug/L	ND	100	10/22/09 03:16	
Beryllium	ug/L	0.10J	1.0	10/22/09 03:16	
Cadmium	ug/L	ND	1.0	10/22/09 03:16	
Chromium	ug/L	ND	10.0	10/22/09 03:16	
Cobalt	ug/L	ND	10.0	10/22/09 03:16	
Copper	ug/L	ND	10.0	10/22/09 03:16	
Iron	ug/L	ND	300	10/22/09 03:16	
Lead	ug/L	ND	10.0	10/22/09 03:16	
Manganese	ug/L	ND	50.0	10/22/09 03:16	
Nickel	ug/L	ND	50.0	10/22/09 03:16	
Selenium	ug/L	ND	10.0	10/22/09 03:16	
Silver	ug/L	ND	10.0	10/22/09 03:16	
Thallium	ug/L	ND	5.5	10/22/09 03:16	
Vanadium	ug/L	0.29J	25.0	10/22/09 03:16	
Zinc	ug/L	ND	10.0	10/22/09 03:16	

LABORATORY CONTROL SAMPLE: 353169

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	486	97	80-120	
Arsenic	ug/L	500	471	94	80-120	
Barium	ug/L	500	475	95	80-120	
Beryllium	ug/L	500	495	99	80-120	
Cadmium	ug/L	500	474	95	80-120	
Chromium	ug/L	500	475	95	80-120	
Cobalt	ug/L	500	484	97	80-120	
Copper	ug/L	500	470	94	80-120	
Iron	ug/L	5000	4910	98	80-120	
Lead	ug/L	500	481	96	80-120	
Manganese	ug/L	500	481	96	80-120	
Nickel	ug/L	500	479	96	80-120	
Selenium	ug/L	500	463	93	80-120	
Silver	ug/L	250	241	96	80-120	
Thallium	ug/L	500	452	90	80-120	
Vanadium	ug/L	500	471	94	80-120	
Zinc	ug/L	500	479	96	80-120	

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QUALITY CONTROL DATA

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

MATRIX SPIKE SAMPLE: 353170

Parameter	Units	9254964004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	489	98	75-125	
Arsenic	ug/L	ND	500	474	95	75-125	
Barium	ug/L	15.4J	500	485	94	75-125	
Beryllium	ug/L	ND	500	501	100	75-125	
Cadmium	ug/L	ND	500	474	95	75-125	
Chromium	ug/L	ND	500	478	96	75-125	
Cobalt	ug/L	ND	500	482	96	75-125	
Copper	ug/L	ND	500	469	94	75-125	
Iron	ug/L	ND	5000	4920	98	75-125	
Lead	ug/L	ND	500	476	95	75-125	
Manganese	ug/L	6.4J	500	486	96	75-125	
Nickel	ug/L	ND	500	478	95	75-125	
Selenium	ug/L	ND	500	467	93	75-125	
Silver	ug/L	0.10J	250	242	97	75-125	
Thallium	ug/L	ND	500	450	90	75-125	
Vanadium	ug/L	0.63J	500	473	94	75-125	
Zinc	ug/L	ND	500	484	97	75-125	

SAMPLE DUPLICATE: 353171

Parameter	Units	9254626014 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	19.0	16.7	13	25	
Barium	ug/L	382	378	1	25	
Beryllium	ug/L	ND	0.51J		25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	15.6	15.5	1	25	
Cobalt	ug/L	ND	ND		25	
Copper	ug/L	ND	ND		25	
Iron	ug/L	ND	ND		25	
Lead	ug/L	ND	ND		25	
Manganese	ug/L	ND	ND		25	
Nickel	ug/L	ND	ND		25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	ND	0.13J		25	
Thallium	ug/L	9.0	5.2J		25	
Vanadium	ug/L	ND	ND		25	
Zinc	ug/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

QC Batch: MSV/8679 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9254964001, 9254964002, 9254964003, 9254964004, 9254964005

METHOD BLANK: 352638 Matrix: Water
Associated Lab Samples: 9254964001, 9254964002, 9254964003, 9254964004, 9254964005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	10/18/09 05:19	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/18/09 05:19	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	10/18/09 05:19	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/18/09 05:19	
1,1-Dichloroethane	ug/L	ND	5.0	10/18/09 05:19	
1,1-Dichloroethene	ug/L	ND	5.0	10/18/09 05:19	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/18/09 05:19	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	10/18/09 05:19	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/18/09 05:19	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/18/09 05:19	
1,2-Dichloroethane	ug/L	ND	1.0	10/18/09 05:19	
1,2-Dichloroethene (Total)	ug/L	ND	5.0	10/18/09 05:19	
1,2-Dichloropropane	ug/L	ND	1.0	10/18/09 05:19	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/18/09 05:19	
2-Butanone (MEK)	ug/L	ND	100	10/18/09 05:19	
2-Hexanone	ug/L	ND	50.0	10/18/09 05:19	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	10/18/09 05:19	
Acetone	ug/L	ND	100	10/18/09 05:19	
Acrylonitrile	ug/L	ND	200	10/18/09 05:19	
Benzene	ug/L	ND	1.0	10/18/09 05:19	
Bromochloromethane	ug/L	ND	3.0	10/18/09 05:19	
Bromodichloromethane	ug/L	ND	1.0	10/18/09 05:19	
Bromoform	ug/L	ND	3.0	10/18/09 05:19	
Bromomethane	ug/L	ND	10.0	10/18/09 05:19	
Carbon disulfide	ug/L	ND	100	10/18/09 05:19	
Carbon tetrachloride	ug/L	ND	1.0	10/18/09 05:19	
Chlorobenzene	ug/L	ND	3.0	10/18/09 05:19	
Chloroethane	ug/L	ND	10.0	10/18/09 05:19	
Chloroform	ug/L	ND	5.0	10/18/09 05:19	
Chloromethane	ug/L	ND	1.0	10/18/09 05:19	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/18/09 05:19	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/18/09 05:19	
Dibromochloromethane	ug/L	ND	3.0	10/18/09 05:19	
Dibromomethane	ug/L	ND	10.0	10/18/09 05:19	
Ethylbenzene	ug/L	ND	1.0	10/18/09 05:19	
Iodomethane	ug/L	ND	10.0	10/18/09 05:19	
m&p-Xylene	ug/L	0.76J	2.0	10/18/09 05:19	
Methylene Chloride	ug/L	ND	2.0	10/18/09 05:19	
o-Xylene	ug/L	ND	1.0	10/18/09 05:19	
Styrene	ug/L	ND	1.0	10/18/09 05:19	
Tetrachloroethene	ug/L	ND	1.0	10/18/09 05:19	
Toluene	ug/L	ND	1.0	10/18/09 05:19	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/18/09 05:19	

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

QUALITY CONTROL DATA

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

METHOD BLANK: 352638 Matrix: Water

Associated Lab Samples: 9254964001, 9254964002, 9254964003, 9254964004, 9254964005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/18/09 05:19	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	10/18/09 05:19	
Trichloroethene	ug/L	ND	1.0	10/18/09 05:19	
Trichlorofluoromethane	ug/L	ND	1.0	10/18/09 05:19	
Vinyl acetate	ug/L	ND	50.0	10/18/09 05:19	
Vinyl chloride	ug/L	ND	1.0	10/18/09 05:19	
Xylene (Total)	ug/L	0.76J	2.0	10/18/09 05:19	
1,2-Dichloroethane-d4 (S)	%	96	79-120	10/18/09 05:19	
4-Bromofluorobenzene (S)	%	97	87-109	10/18/09 05:19	
Dibromofluoromethane (S)	%	97	85-115	10/18/09 05:19	
Toluene-d8 (S)	%	100	70-120	10/18/09 05:19	

LABORATORY CONTROL SAMPLE: 352639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.4	101	83-125	
1,1,1-Trichloroethane	ug/L	50	49.1	98	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	50.0	100	73-127	
1,1,2-Trichloroethane	ug/L	50	51.9	104	77-123	
1,1-Dichloroethane	ug/L	50	49.3	99	76-129	
1,1-Dichloroethene	ug/L	50	50.7	101	78-146	
1,2,3-Trichloropropane	ug/L	50	52.7	105	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	51.6	103	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	52.3	105	81-125	
1,2-Dichlorobenzene	ug/L	50	47.6	95	82-126	
1,2-Dichloroethane	ug/L	50	50.2	100	72-126	
1,2-Dichloroethene (Total)	ug/L	100	97.7	98	50-150	
1,2-Dichloropropane	ug/L	50	50.5	101	80-127	
1,4-Dichlorobenzene	ug/L	50	46.6	93	79-125	
2-Butanone (MEK)	ug/L	100	119	119	50-134	
2-Hexanone	ug/L	100	111	111	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	70-131	
Acetone	ug/L	100	141	141	50-146	
Acrylonitrile	ug/L	250	267	107	66-124	
Benzene	ug/L	50	47.7	95	78-128	
Bromochloromethane	ug/L	50	49.4	99	73-124	
Bromodichloromethane	ug/L	50	47.7	95	81-125	
Bromoform	ug/L	50	50.8	102	71-125	
Bromomethane	ug/L	50	53.0	106	50-150	
Carbon disulfide	ug/L	50	52.6J	105	54-150	
Carbon tetrachloride	ug/L	50	50.0	100	81-137	
Chlorobenzene	ug/L	50	46.1	92	82-126	
Chloroethane	ug/L	50	51.9	104	69-140	
Chloroform	ug/L	50	48.5	97	77-129	
Chloromethane	ug/L	50	44.1	88	54-139	

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

QUALITY CONTROL DATA

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

LABORATORY CONTROL SAMPLE: 352639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	49.8	100	76-133	
cis-1,3-Dichloropropene	ug/L	50	50.7	101	76-127	
Dibromochloromethane	ug/L	50	48.4	97	77-125	
Dibromomethane	ug/L	50	51.2	102	77-125	
Ethylbenzene	ug/L	50	47.3	95	80-127	
Iodomethane	ug/L	100	120	120	65-172	
m&p-Xylene	ug/L	100	97.9	98	82-127	
Methylene Chloride	ug/L	50	48.2	96	67-133	
o-Xylene	ug/L	50	47.0	94	83-124	
Styrene	ug/L	50	49.4	99	80-130	
Tetrachloroethene	ug/L	50	44.0	88	78-128	
Toluene	ug/L	50	46.4	93	76-126	
trans-1,2-Dichloroethene	ug/L	50	47.8	96	78-134	
trans-1,3-Dichloropropene	ug/L	50	50.9	102	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	53.1J	106	51-140	
Trichloroethene	ug/L	50	51.8	104	79-127	
Trichlorofluoromethane	ug/L	50	50.3	101	76-148	
Vinyl acetate	ug/L	100	96.2	96	50-150	
Vinyl chloride	ug/L	50	50.8	102	67-143	
Xylene (Total)	ug/L	150	145	97	83-125	
1,2-Dichloroethane-d4 (S)	%			99	79-120	
4-Bromofluorobenzene (S)	%			105	87-109	
Dibromofluoromethane (S)	%			102	85-115	
Toluene-d8 (S)	%			98	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 352640 352641

Parameter	Units	9254956001 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	56.3	55.2	113	110	60-150	2	30	
Benzene	ug/L	ND	50	50	50.6	50.0	101	100	74-136	1	30	
Chlorobenzene	ug/L	ND	50	50	48.8	48.7	98	97	79-135	0	30	
Toluene	ug/L	ND	50	50	48.4	48.0	97	96	73-131	1	30	
Trichloroethene	ug/L	ND	50	50	52.7	51.1	105	102	73-131	3	30	
1,2-Dichloroethane-d4 (S)	%						95	96	79-120			
4-Bromofluorobenzene (S)	%						97	97	87-109			
Dibromofluoromethane (S)	%						97	98	85-115			
Toluene-d8 (S)	%						100	99	70-120			

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QUALITY CONTROL DATA

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

QC Batch: WET/10061 — Analysis Method: SM 2540C
QC Batch Method: SM 2540C — Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 9254964001, 9254964002, 9254964003, 9254964004

METHOD BLANK: 349799 — Matrix: Water
Associated Lab Samples: 9254964001, 9254964002, 9254964003, 9254964004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	20.0	10/13/09 14:43	

LABORATORY CONTROL SAMPLE: 349800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	284	114	80-120	

SAMPLE DUPLICATE: 349801

Parameter	Units	9254756001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3760	3810	1	20	

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QUALITY CONTROL DATA

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

QC Batch: WETA/6043 — Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E — Analysis Description: 4500 Chloride
Associated Lab Samples: 9254964001, 9254964002, 9254964003, 9254964004

METHOD BLANK: 351606 — Matrix: Water
Associated Lab Samples: 9254964001, 9254964002, 9254964003, 9254964004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	5.0	10/15/09 15:54	

LABORATORY CONTROL SAMPLE: 351607

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.3	107	90-110	

MATRIX SPIKE SAMPLE: 351608

Parameter	Units	9255170001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	129	20	146	90	75-125	

SAMPLE DUPLICATE: 351609

Parameter	Units	9255170003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	28.7	28.6	1	20	

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QUALIFIERS

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

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.

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

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

ANALYTE QUALIFIERS

Z2 Analyte present in the associated method blank above the detection limit.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Coble's Sandrock-Background
Pace Project No.: 9254964

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9254964001	**0105-MW-8**	SM 2540C	WET/10061		
9254964002	**0105-MW-10S**	SM 2540C	WET/10061		
9254964003	**0105-P19S**	SM 2540C	WET/10061		
9254964004	**0105-FIELD BLANK**	SM 2540C	WET/10061		
9254964001	**0105-MW-8**	ASTM D516-90	WETA/6036		
9254964002	**0105-MW-10S**	ASTM D516-90	WETA/6036		
9254964003	**0105-P19S**	ASTM D516-90	WETA/6036		
9254964004	**0105-FIELD BLANK**	ASTM D516-90	WETA/6036		
9254964001	**0105-MW-8**	EPA 7470	MERP/2442	EPA 7470	MERC/2425
9254964002	**0105-MW-10S**	EPA 7470	MERP/2442	EPA 7470	MERC/2425
9254964003	**0105-P19S**	EPA 7470	MERP/2442	EPA 7470	MERC/2425
9254964004	**0105-FIELD BLANK**	EPA 7470	MERP/2442	EPA 7470	MERC/2425
9254964001	**0105-MW-8**	SM 4500-Cl-E	WETA/6043		
9254964002	**0105-MW-10S**	SM 4500-Cl-E	WETA/6043		
9254964003	**0105-P19S**	SM 4500-Cl-E	WETA/6043		
9254964004	**0105-FIELD BLANK**	SM 4500-Cl-E	WETA/6043		
9254964001	**0105-MW-8**	EPA 8260	MSV/8679		
9254964002	**0105-MW-10S**	EPA 8260	MSV/8679		
9254964003	**0105-P19S**	EPA 8260	MSV/8679		
9254964004	**0105-FIELD BLANK**	EPA 8260	MSV/8679		
9254964005	**TRIP BLANK**	EPA 8260	MSV/8679		
9254964001	**0105-MW-8**	EPA 3010	MPRP/5234	EPA 6010	ICP/4855
9254964002	**0105-MW-10S**	EPA 3010	MPRP/5234	EPA 6010	ICP/4855
9254964003	**0105-P19S**	EPA 3010	MPRP/5234	EPA 6010	ICP/4855
9254964004	**0105-FIELD BLANK**	EPA 3010	MPRP/5240	EPA 6010	ICP/4861
9254964001	**0105-MW-8**	SM 2320B	WET/10172		
9254964002	**0105-MW-10S**	SM 2320B	WET/10172		
9254964003	**0105-P19S**	SM 2320B	WET/10172		
9254964004	**0105-FIELD BLANK**	SM 2320B	WET/10172		

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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

1174454

Section A Required Client Information:

Company: Joyce Engineering - NC
Address: 2211 West Meadowview Rd
Greensboro NC 27407
Email To: J.Kerly@Joyceengineering.com
Phone: (336) 323-0092 Fax:
Requested Due Date/TAT: 10 days

Section B Required Project Information:

Report To: Jeremey Kerly
Copy To:
Purchase Order No.:
Project Name: Cobles Sandrock - Background
Project Number: 419.00.35

Section C Invoice Information:

Attention: Lecia Jones
Company Name: Joyce Engineering
Address: 1604 Ownby Ln Richmond VA 23222
Pace Quote Reference:
Pace Project Manager: Kevin Godwin
Pace Profile #: 2186-12

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

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (see 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 ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): TDS 160.1, Alkalinity, Sulfate, Metals by 200.7, VOC 8260 WT, Chloride

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	TDS 160.1	Alkalinity	Sulfate	Metals by 200.7	VOC 8260 WT	Chloride	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	0105-MW-8	WT	G			10/8/09	10:30		8	X		X	X					X	X	X	X	X	X		9254964001
2	0105-[redacted]-MW-10S	WT	G			10/8/09	10:50		8	X		X	X					X	X	X	X	X	X		002
3	0105-P19S	WT	G			10/8/09	10:00		8	X		X	X					X	X	X	X	X	X		003
4	0105-[redacted] Field Blank	WT	G			10/8/09	12:05		8	X		X	X					X	X	X	X	X	X		004
5	Trip Blank	WT				10/7/09	08:00		2													X			005
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Daniel D. Gardner / JEI	10/8/09	17:00	[signature] Pace	10-9-09	1227				
	[signature] Pace	10-9-09	16:00	[signature] Pace	10/9/09	1600	5.2	Y	N	Y

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

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: DANIEL GARDNER, ALEX EVERHART

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/08/09

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

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

DATE: 10/7-8/09

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.35

Well ID: 0105-MW8 **Sampler(s):** A. Everhart/ D. Girdner

Well Location: backside of the landfill along perimeter road

Well Diameter: 2 inches

Initial Depth to Water (DTW): 8.79 feet

Depth to Bottom (DTB): 22.76 feet

Water Column Thickness (WCT): 13.97 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 2.28 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 6.84 gallons

Actual Amount Purged/Bailed : 6.84 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 8.87 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	10:52	18.5	6.80	124.8	292	DG
2.28	10:55	17.5	6.34	121.9	932	DG
4.56	10:58	17.1	6.48	121.0	>1000	DG
6.84	11:03	16.4	6.29	121.5	>1000	DG
	10/08/09					
Before Sampling	10:30	15.8	6.86	125.9	331	DG

Comments (weather conditions, odor, color, silt, etc.):

10/07-Partly Cloudy, mid to upper 70's

10/08-Sunny, Low 70's

Signature: Daniel A Girdner **Date:** 10-8-09

QA/QC Sign Off: [illegible] **Date:** 11-6-09

DATE: 10/7-8/09

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.35

Well ID: 0105-MW10S **Sampler(s):** D. Girdner/ A. Everhart

Well Location: side of the landfill along perimeter road

Well Diameter: 2 inches

Initial Depth to Water (DTW): 9.65 feet

Depth to Bottom (DTB): 24.34 feet

Water Column Thickness (WCT): 14.69 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 2.39 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 7.18 gallons

Actual Amount Purged/Bailed : 7.18 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 9.81 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	12:08	18.2	7.35	199.5	40.8	DG
2.39	12:12	16.9	6.99	199	535	DG
4.78	12:18	16.2	6.10	196	>1000	DG
7.18	12:22	15.9	6.14	196	>1000	DG
	10/08/09					
Before Sampling	10:50	15.8	6.59	255	266	DG

Comments (weather conditions, odor, color, silt, etc.):

10/7-Sunny, Clearing, mid70's, Windy; Was over grown, had to cut path

Drew down but did not go dry

10/8-Sunny, 70

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JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.35

Well ID: 0105-P19S **Sampler(s):** D. Girdner/ A. Everhart

Well Location: backside of the landfill towards bridge in the woods

Well Diameter: 2 inches

Initial Depth to Water (DTW): 8.18 feet

Depth to Bottom (DTB): 13.00 feet

Water Column Thickness (WCT): 4.82 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 0.79 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 2.36 gallons

Actual Amount Purged/Bailed : 1.0 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 8.5* feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	11:26	17.7	6.54	268	56.1	AE
0.79	11:28	17.6	6.31	232	235	AE
Dry@ 1 gal						
	10/08/09					
Before Sampling	10:00	15.2	6.61	209	131	AE

Comments (weather conditions, odor, color, silt, etc.):

10/7-Partly Cloudy, 70's

10/8-Sunny, 60's

*DG let bailer into water before DTW measured. Let bailer sink to get WL, but top of bailer was above WL. Pulled up bailer and it was 3.5' full of total 4'

Signature: [signature] **Date:** 10/08/09

QA/QC Sign Off: [signature] **Date:** 11-6-09