Prepared for:

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

JEI Project Number 419.00, Task 29

FIRST SEMIANNUAL GROUNDWATER MONITORING REPORT OF 2008

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

July 2008

Prepared by:

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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 Landfill	5833 Foster Store Road Liberty, NC 27298	01-05	.0500	April 15, 2008

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 or explosive methane gas limits 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	Project Consultant	(336) 323-0092
Facility Representative Name (Print)	Title	(Area Code) Telephone Number

Signature: [signature] Date: 7-17-08

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 2097 GEOLOGIST JEREMEY JOHN KERLY

Revised 10/2006

First Semiannual Groundwater Monitoring Report of 2008
Coble's Sandrock Construction & Demolition Debris Landfill
Alamance County, North Carolina

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1.0 INTRODUCTION

1.1 Site Information

The Coble's Sandrock Construction and Demolition (C&D) Debris Landfill is owned and operated by the Kent and Brenda Coble and operates under Permit No. 01-05. The property consists of approximately 154 acres in Alamance County, one half mile east of Kimesville, North Carolina and approximately eight miles south of Burlington, North Carolina. The 154 acres includes the currently permitted 39.6 acres plus an adjacent expansion area of 114.4 acres. The current C & D facility has been in operation since 1998 on the currently permitted 39.6 acres previously approved for site suitability. It includes a total of 12.86 acres approved for waste disposal, including Phase 1 (7.0 acres), Phase 2A (1.1 acres), and Phase 2B (4.76 acres). The proposed 114.4 acre expansion property is contiguous with and south and east of the currently permitted facility, and includes two proposed new waste cells, Phase 3A (6.3 acres) and Phase 3B (5.6 acres).

The site is located in the Piedmont physiographic province on a group of knolls and valleys. The northeast-flowing Poppaw Creek is located along the northern facility property line. Two primary drainages (small, intermittent creeks) transect the site and flow into Poppaw Creek. One of the drainages flows west-southwest across the southern half of the site and has a 2- to 4-acre man-made pond at its upstream limit in the southeastern corner proposed site property. The other drainage flows north-northwest, roughly parallel to the eastern site boundary, and is fed by outflow from a small pond located on the site property and by two smaller, spring-fed drainages which flow into it from off the site property to east. These streams and ponds are shown on Drawing DH-1. Adjoining land uses are primarily agricultural and residential. The regional topography is shown on an enlargement of an excerpt of USGS map Kimesville, North Carolina shown on Figure No. 1.

1.2 Site Geology

The site is located within the Carolina Slate Belt in the central Piedmont physiographic and geological province. The Carolina Slate Belt is made up of metamorphosed sediments, volcanics, and intrusive igneous rocks and the site is underlain by a felsic intrusive complex. The complex is described as white to gray, fine- to coarse-grained, massive to foliated, metamorphosed bodies of assemblages of intimately associated felsic intrusive rock types. The rock types vary from granite, granodiorite, quartz diorite, to quartz monzonite. Narrow mafic dikes are common within the felsic intrusive units. This region is also characterized by regional- and small-scale Mesozoic diabase dikes. Most of the dikes are near-vertical in dip and trend north-south to northwest-southeast and are characterized by plagioclase, augite and olivine (Ragland, 1991).

The rock seen in float and/or large outcrop, as well as rock core from this site was predominantly medium-grained biotite-muscovite granite with foliation observed locally. Otherwise, site outcrops of granite are massive, with very little to no observed structure or foliation. No diabase dikes have been observed at the site, but numerous mafic (meta-volcanic) dikes do exist.

1.3 Regulatory Status

The Coble's Sandrock C&D Debris Landfill is currently in the detection monitoring program for C&D landfills under Section .0540 of the North Carolina Solid Waste Management Rules. The facility currently monitors for the eight RCRA metals and NC Appendix I list of volatile organic compounds. Once the Permit to Operate is issued for the Phase 3A and 3B expansion, the full list of NC Appendix I constituents will be sampled plus mercury, chloride, manganese, sulfate, iron, alkalinity, and total dissolved solids.

2.0 FACILITY MONITORING PROGRAM

2.1 Groundwater Monitoring Program

Six active groundwater monitoring wells comprise the monitoring network at the Coble's Sandrock C&D Debris Landfill. The current compliance network consists of the following monitoring wells: MW-1, MW-2, MW-4, MW-6 (facility background well), and MW-7. Monitoring wells MW-3, MW-5, MW-8, MW-9, MW-10S, and MW-10D are monitored for water levels only.

Monitoring Well	Date Installed	Classification	Monitoring Program	Total Depth from TOC (ft)	Lithology of Screened Interval
MW-1	3/25/97	Compliance	Detection	35.60	Saprolite/Part. Weathered Rock
MW-2	3/28/97	Compliance	Detection	24.00	Saprolite/Part. Weathered Rock
MW-3	3/31/97	Water Level	-	59.82	Bedrock
MW-4	4/01/97	Compliance	Detection	23.30	Saprolite/Part. Weathered Rock
MW-5	1/18/02	Water Level	-	17.20	Saprolite/Part. Weathered Rock
MW-6	8/05/97	Background	Detection	40.80	Bedrock
MW-7	12/19/02	Compliance	Detection	15.75	Saprolite/Part. Weathered Rock
MW-8	3/21/05	Water Level	-	22.76	Saprolite/Part. Weathered Rock
MW-9	3/21/05	Water Level	-	40.16	Partially Weathered Rock
MW-10S	3/22/05	Water Level	-	24.34	Bedrock
MW-10D	3/25/05	Water Level	-	66.86	Bedrock

Three monitoring wells (MW-1, MW-2, and MW-4) were installed during the Phase 1 site suitability study to characterize the uppermost aquifer. A letter dated September 18, 1998 from Trigon Engineering Consultants, Inc. to the Solid Waste Section stated that piezometer P-1 was converted to an upgradient monitoring well now known as MW-3. After April 2003, MW-3 was replaced with MW-6 (formerly P-3) as the upgradient background well. Well MW-5 was added to the compliance network before the April 2002 sampling event, but was replaced with MW-7 before the November 2003 sampling event at the request of the Solid Waste Section. Four monitoring wells (MW-8, MW-9, MW-10S, and MW-10D) were installed in and around the Phase 3A waste cell limits between March 21 and 25, 2005.

2.2 Surface Water Monitoring Program

Two surface water monitoring points comprise the surface water monitoring program for the Coble's Sandrock C&D Debris Landfill.

Surface Point	Date Added	Classification	Monitoring Program
SW-1	-	Compliance	Detection
SW-2	-	Compliance	Detection

The two surface water monitoring points are monitored for RCRA metals and NC Appendix I list of volatile organics. Surface water point SW-1 is located to monitor water quality in Poppaw Creek, shortly after it enters the site. The sample location is at the property line near the northwest edge of the site. Surface water monitoring point SW-2 serves as a downstream monitoring point. Samples from this point are collected at a location approximately 350 feet northeast of the proposed Phase 3 disposal area near the northeastern corner of the site and where a small tributary that flows adjacent to the eastern property boundary discharges into Poppaw Creek.

3.0 FIRST SEMIANNUAL SAMPLING EVENT OF 2008

3.1 Field Work and Visual Inspection

In order to detect potential releases of leachate and/or landfill gas migration in a timely manner, a visual inspection program has been implemented at the Coble's Sandrock C&D Debris Landfill. This inspection program involves field personnel making the following observations:

- Observation of stress induced on the biological community (i.e., dead or dying vegetation),
- Indications of leachate impact (i.e., seeps, impacted surface water),
- Observations of erosion; and
- Negative changes around the waste facility.

On April 15, 2008 personnel from JEI visited Coble's Sandrock C&D Debris Landfill to purge and sample monitoring wells MW-1, MW-2, MW-4, MW-6, and MW-7. Surface monitoring points SW-1 and SW-2 were also sampled during the April 2008 event. Beginning with the background well (MW-6), depth-to-water measurement were obtained to the nearest 0.01 foot using an electronic water level indicator for all monitoring wells in the compliance network prior to purging. Monitoring wells MW-8, MW-9, MW-10S, and MW-D were monitored for water levels only.

Monitoring wells were purged and sampled using disposable bailers. Measurements of temperature, pH, specific conductivity, and turbidity were recorded in the site specific log book prior to purging, after each purge volume, and during sampling. Prior to sampling, laboratory-supplied containers were prepared with the following information:

- Monitoring well number (completed by field personnel),
- Date and time of sample collection (completed by field personnel),
- Initials of sampling personnel (completed by field personnel),
- Project name and number (completed by the laboratory),
- Chemical preservative (completed by the laboratory); and
- Requested chemical analysis (completed by the laboratory).

Groundwater samples from each monitoring well were collected directly from the disposable bailers in the provided laboratory containers either immediately after purging or within 24 hours of the final purge volume. Immediately after collection, the samples were placed on ice in a laboratory provided cooler. Field forms are provided in Appendix I.

Surface water samples were collected directly from stream flow, by lowering the prepared sample containers into the stream flow with the opening facing into the current flow. Care was taken not the overflow the sample containers (which could lead to preservative loss) and avoid sample-induced turbidity. At the time of sampling, surface water was also measured for temperature, pH, specific conductivity, and turbidity and recorded in the site specific log book. After sampled collection, the sampled were placed on ice in a laboratory provided cooler. Field forms are provided in Appendix I.

3.2 Laboratory Analysis and JEI Quality Control

The April 2008 groundwater, surface water, and leachate samples were submitted to Pace Analytical Services, Inc. of Huntersville, North Carolina under chin-of-custody control for analysis. As presented earlier, the groundwater and surface water samples were analyzed for the eight RCRA metals and NC Appendix I list of volatile organic compounds. JEI requested a Level II data report for the final laboratory report. The sampled were received by the laboratory on April 16, 2008 in good condition, properly preserved, and within analysis hold times.

In addition to samples collected for compliance monitoring at the Coble's Sandrock C&D Debris Landfill, an Field Blank was collected by JEI personnel as part of the April 2008 sampling event. Also, a Trip Blank prepared by the laboratory to accompany the volatile sampling containers to and from the laboratory. The Field Blank was analyzed for the eight RCRA metals and NC Appendix I list of volatile organic compounds while the Trip Blank was analyzed for NC Appendix I volatile organic compounds only.

Upon receipt of the laboratory data package, the data is reviewed by JEI personnel for the following:

- General typographical errors,
- Correct analyses performed and within method specified hold times,
- Biased data results based on Surrogate Recoveries, Matrix Spike, Matrix Spike Duplicate, and Laboratory Control Samples,
- Blank qualified data (B-flags),
- Detections above the NC 2L Groundwater Standards, Groundwater Water Protection (GWP) Standards, NC 2B Surface Water Standards, and/or EPA National Criteria; and
- Detections that are above historical levels.

If questions or problems are discovered based on the review, the laboratory will be notified and the laboratory data report will be reissued.

4.0 HYDROGEOLOGICAL CONDITIONS

The surficial aquifer beneath the site occurs within saprolite, PWR, and bedrock. Generally, the saprolite and PWR units are relatively thin (5 to 40 feet thick) in the area in and around the proposed cells. The saprolite and PWR are expected to behave as a relatively isotropic, porous medium, whereas groundwater flow in the bedrock is primarily through fractures; however, the bedrock is highly fractured and well connected to the overlying units so they are expected to behave as a single aquifer. The groundwater potentiometric surface, based on water level measurements taken on April 15, 2008, is shown on Drawing No. 1. Groundwater flow directions conform to the potentiometric surface, with flow perpendicular to the contours.

Horizontal hydraulic gradients for the proposed C and D disposal areas were calculated using three groundwater flow line segments indicated on the groundwater surface contour map (Drawing No. 1). Average linear groundwater flow velocities were calculated using the following modified Darcy equation:

$$\mathbf{V = Ki/n}$$

where **V** = average linear velocity (feet per day), **K** = hydraulic conductivity (ft/day), **i** = horizontal hydraulic gradient, and **n** = effective porosity. An effective porosity of **n** = 0.21 (21%) was assumed based on average effective porosities for saprolite and PWR determined by laboratory analysis of soil samples. The average gradients (**i**) were determined for each flow path shown on Drawing No. 1. The geometric mean of the hydraulic conductivities of all slug test conducted on the site (**K** = 1.97×10^{-1} ft/day) was used for groundwater flow calculations for the site.

The above equation makes the simplifying assumptions of a homogeneous, isotropic aquifer in a porous medium. Groundwater flow velocities were calculated using saprolite and PWR data because the site's uppermost aquifer is primarily in those hydrogeologic units. An average linear groundwater flow velocity was calculated across areas where bedrock is the surficial aquifer because rock cores have shown that bedrock is highly fractured to the point that groundwater flow is expected to behave relatively similar to the unconsolidated hydrogeologic units. Also, aquifer tests conducted on bedrock wells and piezometers showed similar range of values for hydraulic conductivity. Groundwater flow velocities within the fractured bedrock aquifer are likely to be variable.

Data and calculations for the horizontal gradients are presented in Table 2. The calculated horizontal gradients from three flow line segments across the site range from 0.027 to 0.040 ft/ft. Calculated linear groundwater velocities ranged from approximately 9.34 to 13.82 ft/year.

5.0 DATA ANALYSIS

Results from the April 2008 sampling event were received May 8, 2008 from Pace Analytical Services, Inc. and are found in Appendix I. There were no exceedences of NC 2L Groundwater Standards or Groundwater Protection Standards in compliance monitoring wells. There were

also no exceedences of the NC 2B Surface Water Standards or EPA National Criteria. No resampling events were performed for the April 2008 sampling event.

5.1 Analytical Results for Groundwater and Comparison to NC 2L/GWP Standards

The following inorganic constituents were detected in groundwater during the April 2008 sampling event. All concentrations are reported in micrograms per liter (µg/L). Concentrations with a "J" are considered to be J-flagged and the detection is considered to be estimated. Concentrations with a "B" are considered to be B-flagged and the detection is considered to be attributed to lab or field contamination. Highlighted data is an exceedence of the NC 2L or GWP Standard.

Constituent	NC 2L /GWPS	MW-6 (Background)	MW-1	MW-2	MW-4	MW-7	Blanks
Barium	2,000	37.8 J	19.9 J	44.0 J	31.3 J	156	ND
Chromium	50	1.5 B	2.1 B	11.1	7.7 J	0.47 B	0.61 J
Selenium	50	ND	ND	ND	ND	5.1 J	ND
Silver	17.5	ND	ND	ND	0.32 J	ND	ND
* Concentrations are in micrograms per liter (µg/L).							

There were no exceedences of NC 2L or GWP Standards for inorganic constituents in compliance monitoring wells during the April 2008 monitoring event. In general, the inorganic results are consistent with historical data. Historical inorganic groundwater data can be found in Table 3.

The following organic constituents were detected during the March 2008 sampling event. All concentrations are reported in micrograms per liter (µg/L). Concentrations with a "J" are considered to be J-flagged and the detection is considered to be estimated. Highlighted data is an exceedence of the NC 2L or GWP Standard.

Constituent	NC 2L /GWPS	MW-6 (Background)	MW-1	MW-2	MW-4	MW-7	Blanks
Acetone	700	ND	ND	ND	ND	ND	8.2 J
Tetrachloroethylene	0.7	ND	ND	ND	ND	ND	1.9
* Concentrations are in micrograms per liter (µg/L).							

Tetrachloroethylene was considered to be an exceedence of the NC 2L/GWP Standard in the Trip and Field Blanks. However, this exceedence was determined to be due to laboratory deionzed water supply contamination from vendor system maintenance. Deiozed water is supplied from the laboratory for both the Trip and Field Blanks. There were no exceedences of NC 2L/GWP Standards in for organic compounds in any compliance monitoring wells. In general, the organic results are consistent with historical data. Historical organic groundwater data can be found in Table 3.

5.2 Analytical Results for Surface Water and Comparison to NC 2B/EPA National Criteria

The following inorganic and organic constituents were detected in surface water during the April 2008 sampling event. All concentrations are reported in micrograms per liter (µg/L). Concentrations with a "J" are considered to be J-flagged and the detection is considered to be estimated. Concentrations with a "B" are considered to be B-flagged and the detection is considered to be attributed to lab or field contamination. Highlighted data is an exceedence of the EPA MCL.

Constituent	NC 2B/EPA National Criteria	SW-1	SW-2	Blanks
Barium	100	19.9 J	20.0 J	ND
Chromium	50	ND	0.93 B	0.61 J
Acetone	2,000	ND	ND	8.2 J
Tetrachloroethylene	1	ND	ND	1.9

* Concentrations are in micrograms per liter (µg/L).
* The classification of the surface waters for Coble's Sandrock C&D Debris Landfill is Freshwater Aquatic Life.

Tetrachloroethylene was considered to be an exceedence of the NC 2B/EPA National Criteria in Trip and Field Blanks. However, this exceedence was determined to be due to laboratory deionzed water supply contamination from vendor system maintenance. Deiozed water is supplied from the laboratory for both the Trip and Field Blanks. There were no exceedences of NC 2B/EPA National Criteria in inorganic or organic compounds in any surface water monitoring point. In general, the results are consistent with historical data. Historical surface water data can be found in Table 4.

6.0 CONCLUSION

There were no inorganic or organic constituent exceedences of groundwater or surface water standards detected during the April 2008 sampling event at the Coble's Sandrock C&D Debris Landfill. Based on analytical results from the April 2008 sampling event, Coble's Sandrock C&D Debris Landfill will remain in Detection Monitoring. The next scheduled semiannual sampling event is scheduled for October 2008.

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United States Geological Survey. Kimesville 7.5 minute Quadrangle.

Tables

Table 1 Summary of Groundwater Elevations
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TABLE 1

SUMMARY OF GROUNDWATER ELEVATIONS

Location	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10S	MW-10D
TOC Elevation	**602.46**	**582.31**	**613.05**	**582.64**	**577.41**	**652.56**	**583.33**	**574.26**	**589.09**	**592.46**	**592.76**
GW Elevation 04/20/00	569.59	569.81	579.91	569.07	N/I	N/A	N/I	-	-	-	-
GW Elevation 08/15/00	568.21	566.97	578.23	568.08	N/I	627.42	N/I	-	-	-	-
GW Elevation 10/15/00	569.30	568.55	578.25	568.81	N/I	N/A	N/I	-	-	-	-
GW Elevation 11/30/00	568.09	566.87	577.47	567.04	N/I	627.30	N/I	-	-	-	-
GW Elevation 04/10/01	571.48	569.72	578.67	569.06	N/I	627.17	N/I	-	-	-	-
GW Elevation 12/11/01	567.28	565.31	575.90	566.21	N/I	621.78	N/I	-	-	-	-
GW Elevation 04/30/02	568.17	567.84	576.09	568.21	569.32	623.94	N/I	-	-	-	-
GW Elevation 11/21/02	570.60	570.36	578.47	569.74	570.45	626.32	N/I	-	-	-	-
GW Elevation 04/29/03	571.66	569.18	579.70	568.84	570.32	633.40	574.38	-	-	-	-
GW Elevation 11/11/03	568.49	567.38	578.54	567.47	569.59	632.53	572.44	-	-	-	-
GW Elevation 04/20/04	568.54	568.44	578.92	567.83	569.86	630.13	573.63	-	-	-	-
GW Elevation 10/19/04	567.86	567.92	577.61	567.91	570.30	628.60	573.30	-	-	-	-
GW Elevation 04/19/05	568.90	568.69	578.54	568.16	570.76	630.65	574.54	-	-	-	-
GW-Elevation 10/20/05	567.16	565.52	576.33	566.43	569.12	625.65	571.24	-	-	-	-
GW-Elevation 04/27/06	567.84	569.36	-	569.34	-	624.46	572.77	-	-	-	-
GW-Elevation 10/11/06	567.91	567.22	577.59	568.29	570.11	624.45	571.77	567.03	567.92	583.95	583.62
GW-Elevation 04/19/07	570.33	570.04	-	569.38	571.49	629.42	574.94	569.10	569.76	584.80	585.37
GW-Elevation 10/11/07	566.74	563.35	-	564.43	-	624.91	570.18	-	-	580.07	580.28
GW-Elevation 04/15/08	569.67	569.41	-	568.87	569.99	625.12	574.03	568.85	569.57	584.34	584.73

Notes:

1. Water levels were measured to the nearest hundreth of a foot.
2. Water levels are measured from top of casing (TOC).
3. N/A = piezometer data were not available for sampling due to damaged casing.
4. N/I = not installed.
5. Piezometer P-3 was converted to monitoring well MW-6 before the November 2003 sampling event.
6. - = Not measured.
7. MW-6 is the facility background well.

TABLE 2

SUMMARY OF HORIZONTAL HYDRAULIC GRADIENTS

FLOW SEGMENT	HYDRAULIC CONDUCTIVITY (K, ft/day)	EFFECTIVE POROSITY (n, %)	SEGMENT LENGTH (feet)	FLOW DIRECTION	April 2008 Groundwater Elevations		
					Elevation (ft, AMSL)	Gradient (i) (ft/ft)	Velocity (V) (ft/year)
i_1	1.97E-01	21%	1240	NW	620 570	0.040	13.82
i_2	1.97E-01	21%	500	NW	590 570	0.040	13.71
i_3	1.97E-01	21%	734	N	610 590	0.027	9.34
					Averages:	**0.036**	**12.29**

NOTES:

1. The hydraulic conductivity (**K**) is taken from the geometric mean of **K** estimated from slug tests performed during hydrogeologic investigations.
2. The effective porosity (**n**) is taken from the average **n** determined by laboratory analysis of soil samples.
3. The horizontal hydraulic gradient (**i**) is the change in groundwater elevation divided by the segment length.
4. The groundwater flow velocity (**V**) is calculated based on the modified Darcy equation: **V=Ki/n**.

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS

PARAMETER (NC 2L/GWP Standard)	Date	Concentrations (mg/L) DL	RL	Background MW-6	Downgradient MW-1	MW-2	MW-3	MW-4	MW-5	MW-7	Blanks
Arsenic (50)	20-Apr-00	8	10	-	ND	ND	10 J	ND	-	-	ND
	30-Nov-00	-	10	-	ND	ND	ND	ND	-	-	ND
	10-Apr-01	-	10	-	ND	ND	ND	ND	-	-	ND
	11-Dec-01	-	10	-	ND	ND	ND	ND	-	-	ND
	30-Apr-02	-	10	-	ND	ND	ND	ND	ND	-	ND
	20-Nov-02	-	10	-	ND	ND	ND	ND	ND	-	ND
	29-Apr-03	-	10	-	ND	ND	ND	ND	ND	-	ND
	11-Nov-03	-	10	ND	ND	ND	-	ND	-	ND	ND
	20-Apr-04	-	10	ND	ND	ND	-	ND	-	ND	ND
	19-Oct-04	-	10	ND	ND	ND	-	ND	-	ND	ND
	19-Apr-05	-	10	ND	ND	ND	-	ND	-	ND	ND
	20-Oct-05	-	10	ND	-	ND	-	ND	-	ND	ND
	28-Apr-06	-	10	ND	ND	ND	-	ND	-	ND	ND
	11-Oct-06	-	10	ND	ND	ND	-	ND	-	ND	ND
	19-Apr-07	2.0	10	ND	ND	ND	-	2.0 B	-	ND	2.1 J
	11-Oct-07	3.0	10	ND	-	ND	-	ND	-	ND	ND
	15-Apr-08	2.7	10.0	ND	ND	ND	-	ND	-	ND	ND
Barium (2,000)	20-Apr-00	2	8	-	240	180	340	ND	-	-	ND
	30-Nov-00	-	500	-	ND	ND	ND	ND	-	-	ND
	10-Apr-01	-	500	-	ND	ND	ND	ND	-	-	ND
	11-Dec-01	-	500	-	ND	ND	ND	ND	-	-	ND
	30-Apr-02	-	500	-	ND	ND	ND	ND	ND	-	ND
	20-Nov-02	-	500	-	ND	ND	ND	ND	ND	-	ND
	29-Apr-03	-	500	-	ND	ND	ND	ND	ND	-	ND
	11-Nov-03	-	500	ND	ND	ND	-	ND	-	ND	ND
	20-Apr-04	-	500	ND	ND	ND	-	ND	-	ND	ND
	19-Oct-04	-	500	ND	ND	ND	-	ND	-	ND	ND
	19-Apr-05	-	500	ND	ND	ND	-	ND	-	ND	ND
	20-Oct-05	-	500	ND	-	ND	-	ND	-	ND	ND
	28-Apr-06	-	500	ND	ND	ND	-	ND	-	ND	ND
	11-Oct-06	-	500	ND	ND	ND	-	ND	-	ND	ND
	19-Apr-07	0.20	100	58.8 J	19.4 J	66.0 J	-	24.9 J	-	140	0.30 J
	11-Oct-07	2.0	100	38.2 B	-	478	-	45.8 B	-	241	35.8 J
	15-Apr-08	0.20	100	37.8 J	19.9 J	44.0 J	-	31.3 J	-	156	ND
Cadmium (1.75)	20-Apr-00	1	4	-	2 J	2 J	4	ND	-	-	ND
	30-Nov-00	-	1	-	2	ND	ND	ND	-	-	ND
	10-Apr-01	-	1	-	ND	ND	ND	ND	-	-	ND
	11-Dec-01	-	1	-	3.5	1.0	ND	ND	-	-	ND
	30-Apr-02	-	1	-	ND	ND	ND	ND	ND	-	ND
	20-Nov-02	-	1	-	1.3	ND	ND	1.2	1.0	-	ND
	29-Apr-03	-	1	-	2.0	1.4	1.9	1.7	2.6	-	ND
	11-Nov-03	-	1	ND	3.2	1.1	-	1.4	-	ND	ND
	20-Apr-04	-	1	1.8	ND	1.7	-	ND	-	ND	ND
	19-Oct-04	-	1	1	ND	ND	-	ND	-	ND	ND
	19-Apr-05	-	1	ND	ND	ND	-	ND	-	ND	ND
	20-Oct-05	-	1	ND	-	ND	-	ND	-	ND	ND
	28-Apr-06	-	1	ND	ND	ND	-	ND	-	ND	ND
	11-Oct-06	-	1.00	ND	ND	ND	-	ND	-	ND	ND
	19-Apr-07	0.50	1	ND	ND	ND	-	ND	-	ND	ND
	11-Oct-07	0.1	1	ND	-	0.4 J	-	ND	-	ND	ND
	15-Apr-08	0.50	1.0	ND	ND	ND	-	ND	-	ND	ND
Chromium (50)	20-Apr-00	3	12	-	36	30	76	10 J	-	-	ND
	30-Nov-00	-	10	-	15	ND	ND	ND	-	-	ND
	10-Apr-01	-	10	-	ND	ND	ND	ND	-	-	ND
	11-Dec-01	-	10	-	31	10	ND	ND	-	-	ND
	30-Apr-02	-	10	-	ND	ND	ND	ND	ND	-	45
	20-Nov-02	-	10	-	ND	ND	ND	ND	ND	-	ND
	29-Apr-03	-	10	-	ND	ND	ND	ND	ND	-	ND
	11-Nov-03	-	10	ND	ND	ND	-	ND	-	ND	ND
	20-Apr-04	-	10	ND	ND	ND	-	ND	-	ND	ND
	19-Oct-04	-	10	ND	ND	ND	-	ND	-	ND	ND
	19-Apr-05	-	10	ND	ND	ND	-	ND	-	ND	ND
	20-Oct-05	-	10	ND	-	14	-	ND	-	ND	ND
	28-Apr-06	-	10	ND	ND	ND	-	ND	-	ND	ND
	11-Oct-06	-	10.0	ND	ND	ND	-	ND	-	ND	ND
	19-Apr-07	2.0	10	ND	ND	10.9	-	3.8 J	-	ND	ND
	11-Oct-07	1.0	10	1.7 J	-	121	-	5.8 J	-	12.7	ND
	28-Dec-07	1.0	10	-	-	15.7	-	-	-	-	ND
	15-Apr-08	0.40	10.0	1.5 B	2.1 B	11.1	-	7.7 J	-	0.47 B	0.61 J
Lead (15)	20-Apr-00	3	12	-	5 J	5 J	19	ND	-	-	ND
	30-Nov-00	-	10	-	ND	ND	ND	ND	-	-	ND
	10-Apr-01	-	10	-	ND	ND	ND	ND	-	-	ND
	11-Dec-01	-	10	-	11	ND	ND	ND	-	-	ND
	30-Apr-02	-	10	-	ND	ND	ND	ND	ND	-	ND
	20-Nov-02	-	10	-	ND	ND	ND	ND	ND	-	ND
	29-Apr-03	-	10	-	ND	ND	ND	ND	ND	-	ND
	11-Nov-03	-	10	ND	ND	ND	-	ND	-	ND	ND
	20-Apr-04	-	10	ND	ND	ND	-	ND	-	ND	ND
	19-Oct-04	-	10	ND	ND	ND	-	ND	-	ND	ND
	19-Apr-05	-	10	ND	ND	ND	-	ND	-	ND	ND
	20-Oct-05	-	10	ND	-	ND	-	ND	-	ND	ND
	28-Apr-06	-	10	ND	ND	ND	-	ND	-	ND	ND
	11-Oct-06	-	10.0	ND	ND	ND	-	ND	-	ND	ND
	19-Apr-07	2.0	10	ND	ND	ND	-	ND	-	ND	ND
	11-Oct-07	6.0	10	ND	-	ND	-	ND	-	ND	ND
	15-Apr-08	4.0	10.0	ND	ND	ND	-	ND	-	ND	ND

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS

PARAMETER (NC 2L/GWP Standard)	Date	Concentrations (mg/L)									
		DL	RL	Background	Downgradient						Blanks
				MW-6	MW-1	MW-2	MW-3	MW-4	MW-5	MW-7	
Selenium (50)	20-Apr-00	4	16	-	ND	ND	13 J	ND	-	-	ND
	30-Nov-00	-	20	-	ND	ND	ND	ND	-	-	ND
	10-Apr-01	-	20	-	ND	ND	ND	ND	-	-	ND
	11-Dec-01	-	20	-	ND	ND	ND	ND	-	-	ND
	30-Apr-02	-	20	-	ND	ND	ND	ND	ND	-	ND
	20-Nov-02	-	20	-	ND	ND	ND	ND	ND	-	ND
	29-Apr-03	-	20	-	ND	ND	ND	ND	ND	-	ND
	11-Nov-03	-	20	ND	ND	ND	-	ND	-	ND	ND
	20-Apr-04	-	20	ND	ND	ND	-	ND	-	ND	ND
	19-Oct-04	-	20	ND	ND	ND	-	ND	-	ND	ND
	19-Apr-05	-	20	ND	ND	ND	-	ND	-	ND	ND
	20-Oct-05	-	20	ND	-	ND	-	ND	-	ND	ND
	28-Apr-06	-	20	ND	ND	ND	-	ND	-	ND	ND
	11-Oct-06	-	20.0	ND	ND	ND	-	ND	-	ND	ND
	19-Apr-07	2.0	10	2.3 B	ND	ND	-	ND	-	ND	3.5 J
	11-Oct-07	2.0	10	ND	-	ND	-	ND	-	ND	ND
	15-Apr-08	3.8	10.0	ND	ND	ND	-	ND	-	5.1 J	ND
Silver (17.5)	15-Apr-08	0.10	10.0	ND	ND	ND	-	0.32 J	-	ND	ND
Acetone (700)	15-Apr-08	2.2	100	ND	ND	ND	-	ND	-	ND	8.2 J
Cis-1,2-Dichloroethylene (10)	11-Oct-07	0.2	5	ND	-	ND	-	ND	-	0.4 J	ND
	15-Apr-08	0.19	5.0	ND	ND	ND	-	ND	-	ND	ND
Tetrachloroethylene (0.7)	15-Apr-08	0.46	1.0	ND	ND	ND	ND	ND	ND	ND	1.9

Notes:
1. All concentrations are in micrograms per liter (ug/L).
2. MW = Groundwater monitoring well.
3. RL = Laboratory reporting limit (NC SWSL {or lower} beginning in April 2007 to present).
4. DL = Laboratory detection limit.
6. ND = Not detected above laboratory reporting limit November 2000 to October 2006, not detected above laboratory detection limit April 2000 and April 2007 to present.
7. J = Estimated value between the DL and the RL April 2000 and the DL and NC SWSL (or lower) from April 2007 to present.
8. B = Blank qualified data.
9. NC 2L Standard = North Carolina's groundwater quality standard established under 15A NCAC 2L, .0202.
10. GWPS = Groundwater Protection Standards
11. Shaded values are above the NC 2L or GWP Standards.
12. Sampling of MW-3 and MW-5 was discontinued after the April 2003 event and replaced with MW-6 and MW-7 in response to a modification of the facility permit approved on May 20, 2003.
13. - = No data available/not reported.
14. NC SWSL = North Carolina Solid Waste Section limits.

TABLE 4

SUMMARY OF HISTORICAL SURFACE WATER CONSTITUENTS

PARAMETER (NC 2B Standards/EPA National Critieria)	Date	Concentrations (µg/L)				
		DL	RL	SW-1	SW-2	Blanks
Arsenic (50)	20-Apr-00	8	10	ND	ND	ND
	30-Nov-00	-	10	ND	ND	ND
	10-Apr-01	-	10	ND	ND	ND
	11-Dec-01	-	10	ND	ND	ND
	30-Apr-02	-	10	ND	ND	ND
	20-Nov-02	-	10	ND	ND	ND
	29-Apr-03	-	10	ND	ND	ND
	11-Nov-03	-	10	ND	ND	ND
	20-Apr-04	-	10	ND	ND	ND
	19-Oct-04	-	10	ND	ND	ND
	19-Apr-05	-	10	ND	ND	ND
	20-Oct-05	-	10	ND	-	ND
	28-Apr-06	-	10	ND	ND	ND
	11-Oct-06	-	10	ND	ND	ND
	19-Apr-07	2.0	10	ND	2.6 B	2.1 J
	11-Oct-07	3.0	10	-	-	ND
	15-Apr-08	2.7	10.0	ND	ND	ND
Barium (100)	20-Apr-00	2	8	ND	ND	ND
	30-Nov-00	-	500	ND	ND	ND
	10-Apr-01	-	500	ND	ND	ND
	11-Dec-01	-	500	ND	ND	ND
	30-Apr-02	-	500	ND	ND	ND
	20-Nov-02	-	500	ND	ND	ND
	29-Apr-03	-	500	ND	ND	ND
	11-Nov-03	-	500	ND	ND	ND
	20-Apr-04	-	500	ND	ND	ND
	19-Oct-04	-	500	ND	ND	ND
	19-Apr-05	-	500	ND	ND	ND
	20-Oct-05	-	500	ND	-	ND
	28-Apr-06	-	500	ND	ND	ND
	11-Oct-06	-	500	ND	ND	ND
	19-Apr-07	0.20	100	28.1 J	40.7 J	0.30 J
	11-Oct-07	2.0	100	-	-	35.8 J
	15-Apr-08	0.20	100	19.9 J	20.0 J	ND
Cadmium (2)	20-Apr-00	1	4	ND	ND	ND
	30-Nov-00	-	1	ND	ND	ND
	10-Apr-01	-	1	ND	ND	ND
	11-Dec-01	-	1	1.4	ND	ND
	30-Apr-02	-	1	ND	ND	ND
	20-Nov-02	-	1	ND	ND	ND
	29-Apr-03	-	1	1.2	1.2	ND
	11-Nov-03	-	1	ND	ND	ND
	20-Apr-04	-	1	ND	ND	ND
	19-Oct-04	-	1	ND	ND	ND
	19-Apr-05	-	1	ND	ND	ND
	20-Oct-05	-	1	ND	-	ND
	28-Apr-06	-	1	ND	ND	ND
	11-Oct-06	-	1.00	ND	ND	ND
	19-Apr-07	0.50	1	ND	ND	ND
	11-Oct-07	0.1	1	-	-	ND
	15-Apr-08	0.50	1.0	ND	ND	ND

TABLE 4

SUMMARY OF HISTORICAL SURFACE WATER CONSTITUENTS

PARAMETER (NC 2B Standards/EPA National Critieria)	Date	Concentrations (µg/L)				
		DL	RL	SW-1	SW-2	Blanks
Chromium (50)	20-Apr-00	3	12	ND	ND	ND
	30-Nov-00	-	10	ND	ND	ND
	10-Apr-01	-	10	ND	ND	ND
	11-Dec-01	-	10	ND	ND	ND
	30-Apr-02	-	10	ND	310	45
	20-Nov-02	-	10	ND	ND	ND
	29-Apr-03	-	10	ND	ND	ND
	11-Nov-03	-	10	ND	ND	ND
	20-Apr-04	-	10	ND	ND	ND
	19-Oct-04	-	10	ND	ND	ND
	19-Apr-05	-	10	ND	ND	ND
	20-Oct-05	-	10	ND	-	ND
	28-Apr-06	-	10	ND	ND	ND
	11-Oct-06	-	10.0	ND	ND	ND
	19-Apr-07	2.0	10	ND	ND	ND
	11-Oct-07	1.0	10	-	-	ND
	28-Dec-07	1.0	10	-	-	ND
	15-Apr-08	0.40	10.0	ND	0.93 B	0.61 J
Lead (25)	20-Apr-00	3	12	ND	ND	ND
	30-Nov-00	-	10	ND	ND	ND
	10-Apr-01	-	10	ND	ND	ND
	11-Dec-01	-	10	ND	ND	ND
	30-Apr-02	-	10	ND	ND	ND
	20-Nov-02	-	10	ND	ND	ND
	29-Apr-03	-	10	ND	ND	ND
	11-Nov-03	-	10	ND	ND	ND
	20-Apr-04	-	10	ND	ND	ND
	19-Oct-04	-	10	ND	ND	ND
	19-Apr-05	-	10	ND	ND	ND
	20-Oct-05	-	10	ND	-	ND
	28-Apr-06	-	10	ND	ND	ND
	11-Oct-06	-	10.0	ND	ND	ND
	19-Apr-07	2.0	10	ND	ND	ND
	11-Oct-07	6.0	10	-	-	ND
	15-Apr-08	4.0	10.0	ND	ND	ND
Selenium (5)	20-Apr-00	4	16	ND	ND	ND
	30-Nov-00	-	20	ND	ND	ND
	10-Apr-01	-	20	ND	ND	ND
	11-Dec-01	-	20	ND	ND	ND
	30-Apr-02	-	20	ND	ND	ND
	20-Nov-02	-	20	ND	ND	ND
	29-Apr-03	-	20	ND	ND	ND
	11-Nov-03	-	20	ND	ND	ND
	20-Apr-04	-	20	ND	ND	ND
	19-Oct-04	-	20	ND	ND	ND
	19-Apr-05	-	20	ND	ND	ND
	20-Oct-05	-	20	ND	-	ND
	28-Apr-06	-	20	ND	ND	ND
	11-Oct-06	-	20.0	ND	ND	ND
	19-Apr-07	2.0	10	ND	ND	3.5 J
	11-Oct-07	2.0	10	ND	ND	ND
	15-Apr-08	3.8	10.0	ND	ND	ND

TABLE 4

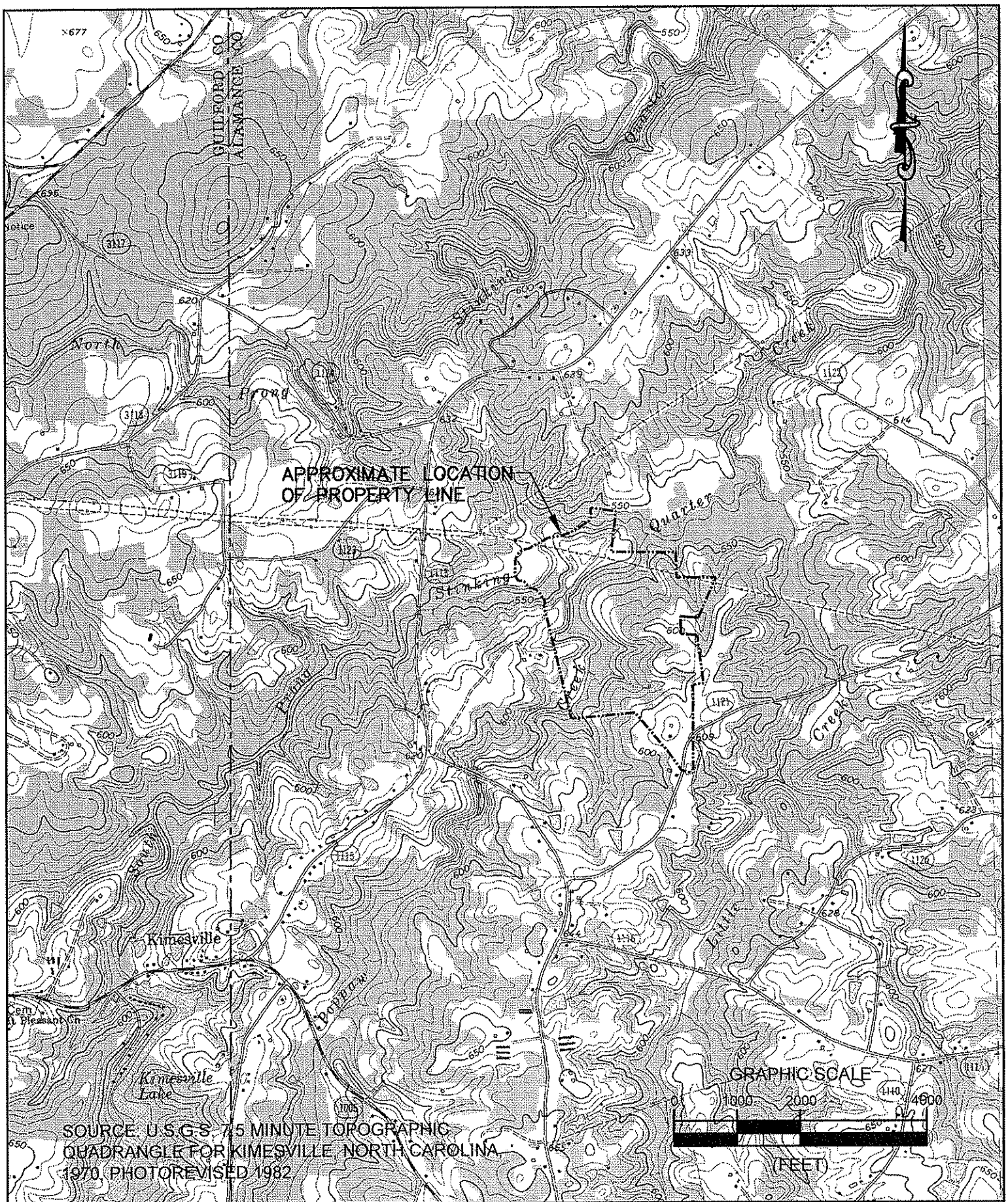
SUMMARY OF HISTORICAL SURFACE WATER CONSTITUENTS

PARAMETER (NC 2B Standards/EPA National Critieria)	Date	Concentrations (µg/L)				
		DL	RL	SW-1	SW-2	Blanks
Silver (0.06)	15-Apr-08	0.10	10.0	ND	ND	ND
Acetone (2,000)	15-Apr-08	2.2	100	ND	ND	8.2 J
Cis-1,2-Dichloroethylene (5)	11-Oct-07 15-Apr-08	0.2 0.19	5 5.0	- ND	- ND	ND ND
Tetrachloroethylene (1)	15-Apr-08	0.46	1.0	ND	ND	1.9

Notes:
1. All concentrations are in micrograms per liter (mg/L).
2. SW = Surface water monitoring point.
3. RL = Laboratory reporting limit (NC SWSL {or lower} beginning in April 2007 to present).
4. DL = Laboratory detection limit.
5. ND = Not detected above laboratory reporting limit November 2000 to October 2006, not detected above laboratory detection limit April 2000 and April 2007 to present.
6. J = Estimated value between the DL and the RL April 2000 and the DL and NC SWSL (or lower) from April 2007 to present.
7. B = Blank qualified data.
8. NC 2B Standard = North Carolina's surface water standards.
9. Shaded values are above the NC 2B Surface Water Standards or EPA National Criteria.
10. - = No data available/not reported.
11. NC SWSL = North Carolina Solid Waste Section limits.
12. The classification of the surface waters for Coble's Sandrock is Freshwater Aqudic Life.
13. If the NC 2B or EPA National Criteria has not been establish for a classification, the threshhold shall be the reporting limit.

Figure

Figure No. 1 Site Location Map



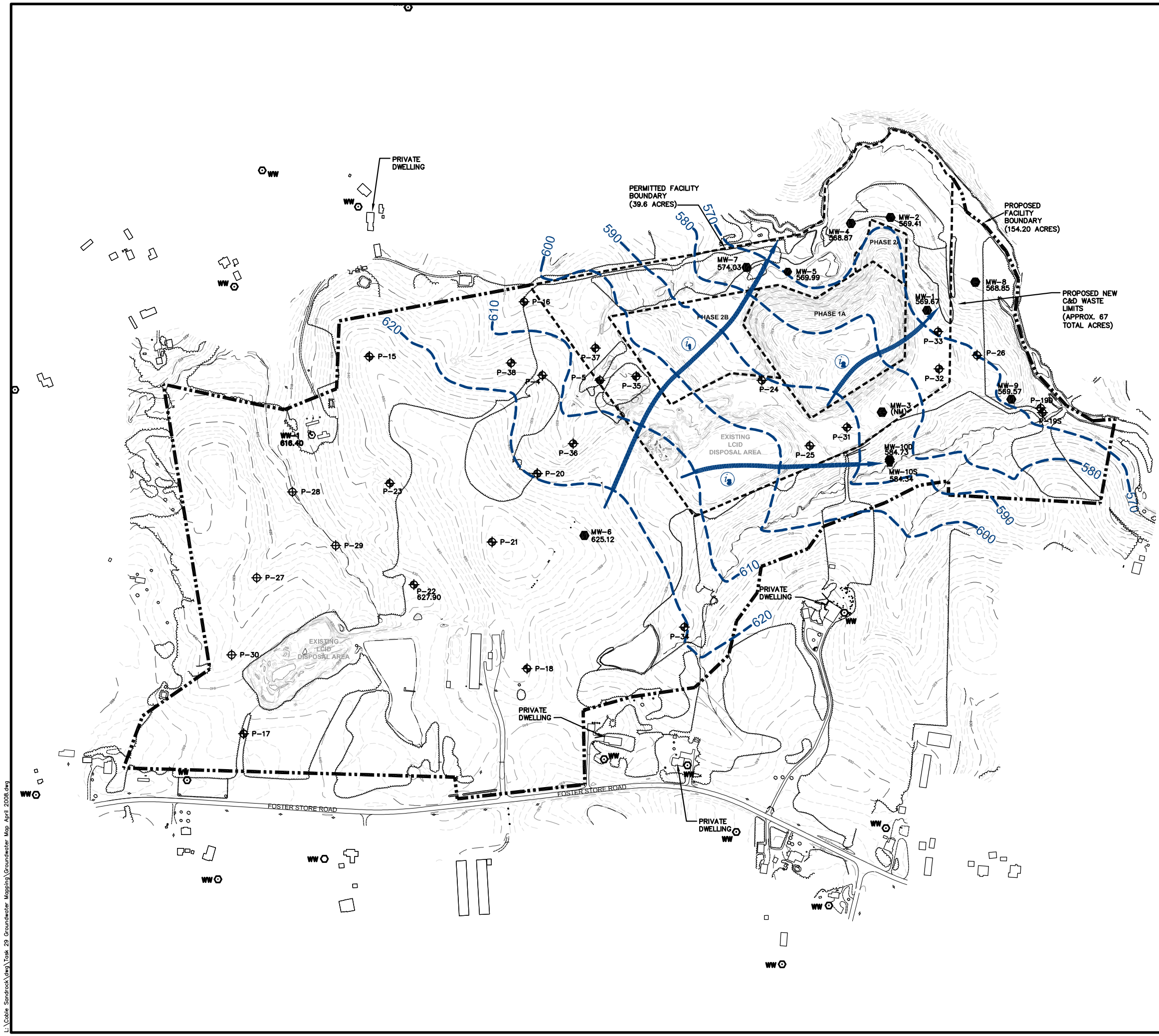
SOURCE: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC
QUADRANGLE FOR KIMESVILLE, NORTH CAROLINA,
1970, PHOTOREVISED 1982

COBLE'S SANDROCK C&D DEBRIS LANDFILL KIMESVILLE, NC	JOYCE ENGINEERING, INC. 2211 W. MEADOWVIEW ROAD GREENSBORO, NC 27407 PHONE: (336) 323-0092	DESIGNED RB DRAWN CADD/RB CHECKED JJK APPROVED JJK DATE 7/17/08	SCALE AS SHOWN	PROJECT NO. 419.00.29
SITE LOCATION MAP		© 2008 Joyce Engineering, Inc. All rights reserved.		FIGURE NO. 1

L:\Coble Sandrock\dwg\Task 29 Groundwater Mapping_ SITE LOCATION MAP.dwg

Drawing

Drawing No. 1 Groundwater Surface Contour Map, April 15, 2008



LEGEND

EXISTING 2' CONTOURS	
EXISTING 10' CONTOURS	
GROUNDWATER CONTOURS	
EXISTING CELL BOUNDARIES	
GROUNDWATER FLOW DIRECTION WITH GRADIENT CALCULATION SEGMENT	
SEGMENT USED FOR GRADIENT CALCULATIONS	
PIEZOMETER LOCATION	P-32
GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION	MW-10D 584.73
HAND AUGER PIEZOMETER LOCATION	P-28
RESIDENTIAL WELL LOCATION	WW-1

NOTES

1. TOPOGRAPHIC CONTOUR INTERVAL = 2 FEET.
2. GROUNDWATER SURFACE CONTOUR INTERVAL = 10 FEET.

GRAPHIC SCALE
0 100 200 400
(FEET)

DATE	REVISIONS AND RECORD OF ISSUE	NO	BY	CK	APP

DESIGNED JK
DRAWN JK
CHECKED VB
APPROVED VB
DATE 05/20/08

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ENGINEERING, INC.
2211 WEST MEADOWVIEW ROAD
GREENSBORO, NC 27407
PHONE: (336) 323-0092

COBLE'S SANDROCK, INC.
KIMESVILLE, NORTH CAROLINA

GROUNDWATER SURFACE CONTOUR MAP
APRIL 15, 2008

PROJECT NO.
419.00.29

SCALE
AS SHOWN

DRAWING NO.
1

L:\Coble Sandrock\dwg\Task 29 Groundwater Mapping\Groundwater Map April 2008.dwg

Appendix

Laboratory Analytical Report and Field Forms

Pace Analytical®
www.pacelabs.com

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

RECEIVED MAY 8 - 2008

May 05, 2008

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

RE: Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Dear Mr. Kerly:
Enclosed are the analytical results for sample(s) received by the laboratory on April 16, 2008. 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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical Services, Inc.
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CERTIFICATIONS

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Charlotte Certification IDs

Florida/NELAP Certification Number: E87627
Kansas Certification Number: E-10364
Louisiana/LELAP Certification Number: 04034
North Carolina Drinking Water Certification Number: 37706
North Carolina Wastewater Certification Number: 12
North Carolina Field Services Certification Number: 5342
South Carolina Certification Number: 990060001
South Carolina Bioassay Certification Number: 990060003
Tennessee Certification Number: 04010
Virginia Certification Number: 00213

Asheville Certification IDs

Florida/NELAP Certification Number: E87648
Louisiana/LELAP Certification Number: 03095
New Jersey Certification Number: NC011
North Carolina Drinking Water Certification Number: 37712
North Carolina Wastewater Certification Number: 40
North Carolina Bioassay Certification Number: 9
Pennsylvania Certification Number: 68-03578
South Carolina Certification Number: 99030001
South Carolina Bioassay Certification Number: 99030002
Tennessee Certification Number: 2980
Virginia Certification Number: 00072

Eden Certification IDs

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

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(704)875-9092

SAMPLE SUMMARY

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9217527001	**0105-MW-1**	Water	04/15/08 14:30	04/16/08 14:30
9217527002	**0105-MW-2**	Water	04/15/08 14:40	04/16/08 14:30
9217527003	**0105-MW-4**	Water	04/15/08 14:55	04/16/08 14:30
9217527004	**0105-MW-6**	Water	04/15/08 14:05	04/16/08 14:30
9217527005	**0105-MW-7**	Water	04/15/08 15:05	04/16/08 14:30
9217527006	**0105-SW-1**	Water	04/15/08 13:45	04/16/08 14:30
9217527007	**0105-SW-2**	Water	04/15/08 13:30	04/16/08 14:30
9217527008	**0105-FIELD BLANK**	Water	04/15/08 15:15	04/16/08 14:30
9217527009	**0105- TRIP BLANK**	Water	04/15/08 00:00	04/16/08 14:30

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SAMPLE ANALYTE COUNT

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9217527001	0105-MW-1	EPA 6010 GW North Carolina	SAJ	7
		EPA 7470	SHB	1
		EPA 8260	MCK	54
9217527002	0105-MW-2	EPA 6010 GW North Carolina	SAJ	7
		EPA 7470	SHB	1
		EPA 8260	MCK	54
9217527003	0105-MW-4	EPA 6010 GW North Carolina	SAJ	7
		EPA 7470	SHB	1
		EPA 8260	MCK	54
9217527004	0105-MW-6	EPA 6010 GW North Carolina	SAJ	7
		EPA 7470	SHB	1
		EPA 8260	MCK	54
9217527005	0105-MW-7	EPA 6010 GW North Carolina	SAJ	7
		EPA 7470	SHB	1
		EPA 8260	MCK	54
9217527006	0105-SW-1	EPA 6010 GW North Carolina	SAJ	7
		EPA 7470	SHB	1
		EPA 8260	MCK	54
9217527007	0105-SW-2	EPA 6010 GW North Carolina	SAJ	7
		EPA 7470	SHB	1
		EPA 8260	MCK	54
9217527008	0105-FIELD BLANK	EPA 6010 GW North Carolina	SAJ	7
		EPA 7470	SHB	1
		EPA 8260	MCK	54
9217527009	0105- TRIP BLANK	EPA 8260	MCK	54

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ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Sample: 0105-MW-1 **Lab ID: 9217527001** Collected: 04/15/08 14:30 Received: 04/16/08 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Arsenic	ND	ug/L	10.0	2.7	1	04/21/08 10:41	04/23/08 02:53	7440-38-2	
Barium	**19.9J**	ug/L	100	0.20	1	04/21/08 10:41	04/23/08 02:53	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/21/08 10:41	04/23/08 02:53	7440-43-9	
Chromium	**2.1J**	ug/L	10.0	0.40	1	04/21/08 10:41	04/23/08 02:53	7440-47-3	
Lead	ND	ug/L	10.0	4.0	1	04/21/08 10:41	04/23/08 02:53	7439-92-1	
Selenium	ND	ug/L	10.0	3.8	1	04/21/08 10:41	04/23/08 02:53	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	04/21/08 10:41	04/23/08 02:53	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	04/17/08 12:30	04/18/08 11:20	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		04/25/08 04:32	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		04/25/08 04:32	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/25/08 04:32	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		04/25/08 04:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/25/08 04:32	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		04/25/08 04:32	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		04/25/08 04:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		04/25/08 04:32	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		04/25/08 04:32	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/25/08 04:32	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		04/25/08 04:32	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		04/25/08 04:32	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		04/25/08 04:32	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/25/08 04:32	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		04/25/08 04:32	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		04/25/08 04:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/25/08 04:32	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		04/25/08 04:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		04/25/08 04:32	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/25/08 04:32	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		04/25/08 04:32	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		04/25/08 04:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/25/08 04:32	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		04/25/08 04:32	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		04/25/08 04:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		04/25/08 04:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		04/25/08 04:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/25/08 04:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/25/08 04:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/25/08 04:32	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/25/08 04:32	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		04/25/08 04:32	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		04/25/08 04:32	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/25/08 04:32	75-09-2	

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ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Sample: 0105-MW-1 **Lab ID: 9217527001** Collected: 04/15/08 14:30 Received: 04/16/08 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		04/25/08 04:32	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/25/08 04:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		04/25/08 04:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		04/25/08 04:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/25/08 04:32	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/25/08 04:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/25/08 04:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/25/08 04:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/25/08 04:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/25/08 04:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/25/08 04:32	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		04/25/08 04:32	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/25/08 04:32	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/25/08 04:32	1330-20-7	
m&p-Xylene	ND	ug/L	5.0	0.66	1		04/25/08 04:32	1330-20-7	
o-Xylene	ND	ug/L	5.0	0.23	1		04/25/08 04:32	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		04/25/08 04:32	460-00-4	
Dibromofluoromethane (S)	101	%	85-115		1		04/25/08 04:32	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	79-120		1		04/25/08 04:32	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		04/25/08 04:32	2037-26-5	

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ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Sample: 0105-MW-2 **Lab ID: 9217527002** Collected: 04/15/08 14:40 Received: 04/16/08 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Arsenic	ND	ug/L	10.0	2.7	1	04/21/08 10:41	04/23/08 02:57	7440-38-2	
Barium	**44.0J**	ug/L	100	0.20	1	04/21/08 10:41	04/23/08 02:57	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/21/08 10:41	04/23/08 02:57	7440-43-9	
Chromium	**11.1**	ug/L	10.0	0.40	1	04/21/08 10:41	04/23/08 02:57	7440-47-3	
Lead	ND	ug/L	10.0	4.0	1	04/21/08 10:41	04/23/08 02:57	7439-92-1	
Selenium	ND	ug/L	10.0	3.8	1	04/21/08 10:41	04/23/08 02:57	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	04/21/08 10:41	04/23/08 02:57	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	04/17/08 12:30	04/18/08 11:22	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		04/25/08 04:56	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		04/25/08 04:56	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/25/08 04:56	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		04/25/08 04:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/25/08 04:56	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		04/25/08 04:56	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		04/25/08 04:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		04/25/08 04:56	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		04/25/08 04:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/25/08 04:56	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		04/25/08 04:56	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		04/25/08 04:56	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		04/25/08 04:56	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/25/08 04:56	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		04/25/08 04:56	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		04/25/08 04:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/25/08 04:56	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		04/25/08 04:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		04/25/08 04:56	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/25/08 04:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		04/25/08 04:56	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		04/25/08 04:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/25/08 04:56	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		04/25/08 04:56	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		04/25/08 04:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		04/25/08 04:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		04/25/08 04:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/25/08 04:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/25/08 04:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/25/08 04:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/25/08 04:56	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		04/25/08 04:56	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		04/25/08 04:56	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/25/08 04:56	75-09-2	

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ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Sample: 0105-MW-2 **Lab ID: 9217527002** Collected: 04/15/08 14:40 Received: 04/16/08 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		04/25/08 04:56	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/25/08 04:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		04/25/08 04:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		04/25/08 04:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/25/08 04:56	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/25/08 04:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/25/08 04:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/25/08 04:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/25/08 04:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/25/08 04:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/25/08 04:56	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		04/25/08 04:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/25/08 04:56	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/25/08 04:56	1330-20-7	
m&p-Xylene	ND	ug/L	5.0	0.66	1		04/25/08 04:56	1330-20-7	
o-Xylene	ND	ug/L	5.0	0.23	1		04/25/08 04:56	95-47-6	
4-Bromofluorobenzene (S)	102	%	87-109		1		04/25/08 04:56	460-00-4	
Dibromofluoromethane (S)	100	%	85-115		1		04/25/08 04:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	79-120		1		04/25/08 04:56	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		04/25/08 04:56	2037-26-5	

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ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Sample: 0105-MW-4 **Lab ID: 9217527003** Collected: 04/15/08 14:55 Received: 04/16/08 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Arsenic	ND	ug/L	10.0	2.7	1	04/21/08 10:41	04/23/08 03:01	7440-38-2	
Barium	**31.3J**	ug/L	100	0.20	1	04/21/08 10:41	04/23/08 03:01	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/21/08 10:41	04/23/08 03:01	7440-43-9	
Chromium	**7.7J**	ug/L	10.0	0.40	1	04/21/08 10:41	04/23/08 03:01	7440-47-3	
Lead	ND	ug/L	10.0	4.0	1	04/21/08 10:41	04/23/08 03:01	7439-92-1	
Selenium	ND	ug/L	10.0	3.8	1	04/21/08 10:41	04/23/08 03:01	7782-49-2	
Silver	**0.32J**	ug/L	10.0	0.10	1	04/21/08 10:41	04/23/08 03:01	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	04/17/08 12:30	04/18/08 11:25	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		04/25/08 05:19	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		04/25/08 05:19	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/25/08 05:19	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		04/25/08 05:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/25/08 05:19	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		04/25/08 05:19	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		04/25/08 05:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		04/25/08 05:19	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		04/25/08 05:19	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/25/08 05:19	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		04/25/08 05:19	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		04/25/08 05:19	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		04/25/08 05:19	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/25/08 05:19	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		04/25/08 05:19	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		04/25/08 05:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/25/08 05:19	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		04/25/08 05:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		04/25/08 05:19	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/25/08 05:19	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		04/25/08 05:19	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		04/25/08 05:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/25/08 05:19	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		04/25/08 05:19	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		04/25/08 05:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		04/25/08 05:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		04/25/08 05:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/25/08 05:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/25/08 05:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/25/08 05:19	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/25/08 05:19	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		04/25/08 05:19	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		04/25/08 05:19	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/25/08 05:19	75-09-2	

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ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Sample: 0105-MW-4 **Lab ID: 9217527003** Collected: 04/15/08 14:55 Received: 04/16/08 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		04/25/08 05:19	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/25/08 05:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		04/25/08 05:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		04/25/08 05:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/25/08 05:19	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/25/08 05:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/25/08 05:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/25/08 05:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/25/08 05:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/25/08 05:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/25/08 05:19	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		04/25/08 05:19	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/25/08 05:19	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/25/08 05:19	1330-20-7	
m&p-Xylene	ND	ug/L	5.0	0.66	1		04/25/08 05:19	1330-20-7	
o-Xylene	ND	ug/L	5.0	0.23	1		04/25/08 05:19	95-47-6	
4-Bromofluorobenzene (S)	97	%	87-109		1		04/25/08 05:19	460-00-4	
Dibromofluoromethane (S)	103	%	85-115		1		04/25/08 05:19	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	79-120		1		04/25/08 05:19	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		04/25/08 05:19	2037-26-5	

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ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Sample: 0105-MW-6 **Lab ID: 9217527004** Collected: 04/15/08 14:05 Received: 04/16/08 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Arsenic	ND	ug/L	10.0	2.7	1	04/21/08 10:41	04/23/08 03:06	7440-38-2	
Barium	**37.8J**	ug/L	100	0.20	1	04/21/08 10:41	04/23/08 03:06	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/21/08 10:41	04/23/08 03:06	7440-43-9	
Chromium	**1.5J**	ug/L	10.0	0.40	1	04/21/08 10:41	04/23/08 03:06	7440-47-3	
Lead	ND	ug/L	10.0	4.0	1	04/21/08 10:41	04/23/08 03:06	7439-92-1	
Selenium	ND	ug/L	10.0	3.8	1	04/21/08 10:41	04/23/08 03:06	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	04/21/08 10:41	04/23/08 03:06	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	04/17/08 12:30	04/18/08 11:37	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		04/25/08 05:43	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		04/25/08 05:43	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/25/08 05:43	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		04/25/08 05:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/25/08 05:43	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		04/25/08 05:43	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		04/25/08 05:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		04/25/08 05:43	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		04/25/08 05:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/25/08 05:43	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		04/25/08 05:43	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		04/25/08 05:43	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		04/25/08 05:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/25/08 05:43	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		04/25/08 05:43	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		04/25/08 05:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/25/08 05:43	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		04/25/08 05:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		04/25/08 05:43	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/25/08 05:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		04/25/08 05:43	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		04/25/08 05:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/25/08 05:43	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		04/25/08 05:43	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		04/25/08 05:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		04/25/08 05:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		04/25/08 05:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/25/08 05:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/25/08 05:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/25/08 05:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/25/08 05:43	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		04/25/08 05:43	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		04/25/08 05:43	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/25/08 05:43	75-09-2	

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ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Sample: 0105-MW-6 **Lab ID: 9217527004** Collected: 04/15/08 14:05 Received: 04/16/08 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		04/25/08 05:43	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/25/08 05:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		04/25/08 05:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		04/25/08 05:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/25/08 05:43	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/25/08 05:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/25/08 05:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/25/08 05:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/25/08 05:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/25/08 05:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/25/08 05:43	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		04/25/08 05:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/25/08 05:43	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/25/08 05:43	1330-20-7	
m&p-Xylene	ND	ug/L	5.0	0.66	1		04/25/08 05:43	1330-20-7	
o-Xylene	ND	ug/L	5.0	0.23	1		04/25/08 05:43	95-47-6	
4-Bromofluorobenzene (S)	101	%	87-109		1		04/25/08 05:43	460-00-4	
Dibromofluoromethane (S)	101	%	85-115		1		04/25/08 05:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	79-120		1		04/25/08 05:43	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		04/25/08 05:43	2037-26-5	

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ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Sample: 0105-MW-7 **Lab ID: 9217527005** Collected: 04/15/08 15:05 Received: 04/16/08 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Arsenic	ND	ug/L	10.0	2.7	1	04/21/08 10:41	04/23/08 03:19	7440-38-2	
Barium	**156**	ug/L	100	0.20	1	04/21/08 10:41	04/23/08 03:19	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/21/08 10:41	04/23/08 03:19	7440-43-9	
Chromium	**0.47J**	ug/L	10.0	0.40	1	04/21/08 10:41	04/23/08 03:19	7440-47-3	
Lead	ND	ug/L	10.0	4.0	1	04/21/08 10:41	04/23/08 03:19	7439-92-1	
Selenium	**5.1J**	ug/L	10.0	3.8	1	04/21/08 10:41	04/23/08 03:19	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	04/21/08 10:41	04/23/08 03:19	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	04/17/08 12:30	04/18/08 11:42	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		04/25/08 06:06	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		04/25/08 06:06	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/25/08 06:06	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		04/25/08 06:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/25/08 06:06	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		04/25/08 06:06	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		04/25/08 06:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		04/25/08 06:06	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		04/25/08 06:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/25/08 06:06	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		04/25/08 06:06	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		04/25/08 06:06	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		04/25/08 06:06	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/25/08 06:06	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		04/25/08 06:06	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		04/25/08 06:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/25/08 06:06	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		04/25/08 06:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		04/25/08 06:06	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/25/08 06:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		04/25/08 06:06	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		04/25/08 06:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/25/08 06:06	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		04/25/08 06:06	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		04/25/08 06:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		04/25/08 06:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		04/25/08 06:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/25/08 06:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/25/08 06:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/25/08 06:06	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/25/08 06:06	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		04/25/08 06:06	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		04/25/08 06:06	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/25/08 06:06	75-09-2	

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ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Sample: 0105-MW-7 **Lab ID: 9217527005** Collected: 04/15/08 15:05 Received: 04/16/08 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		04/25/08 06:06	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/25/08 06:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		04/25/08 06:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		04/25/08 06:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/25/08 06:06	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/25/08 06:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/25/08 06:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/25/08 06:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/25/08 06:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/25/08 06:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/25/08 06:06	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		04/25/08 06:06	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/25/08 06:06	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/25/08 06:06	1330-20-7	
m&p-Xylene	ND	ug/L	5.0	0.66	1		04/25/08 06:06	1330-20-7	
o-Xylene	ND	ug/L	5.0	0.23	1		04/25/08 06:06	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109		1		04/25/08 06:06	460-00-4	
Dibromofluoromethane (S)	99	%	85-115		1		04/25/08 06:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	79-120		1		04/25/08 06:06	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		04/25/08 06:06	2037-26-5	

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ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Sample: 0105-SW-1 **Lab ID: 9217527006** Collected: 04/15/08 13:45 Received: 04/16/08 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Arsenic	ND	ug/L	10.0	2.7	1	04/21/08 10:41	04/23/08 03:23	7440-38-2	
Barium	**19.9J**	ug/L	100	0.20	1	04/21/08 10:41	04/23/08 03:23	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/21/08 10:41	04/23/08 03:23	7440-43-9	
Chromium	ND	ug/L	10.0	0.40	1	04/21/08 10:41	04/23/08 03:23	7440-47-3	
Lead	ND	ug/L	10.0	4.0	1	04/21/08 10:41	04/23/08 03:23	7439-92-1	
Selenium	ND	ug/L	10.0	3.8	1	04/21/08 10:41	04/23/08 03:23	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	04/21/08 10:41	04/23/08 03:23	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	04/17/08 12:30	04/18/08 11:47	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		04/25/08 06:30	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		04/25/08 06:30	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/25/08 06:30	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		04/25/08 06:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/25/08 06:30	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		04/25/08 06:30	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		04/25/08 06:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		04/25/08 06:30	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		04/25/08 06:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/25/08 06:30	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		04/25/08 06:30	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		04/25/08 06:30	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		04/25/08 06:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/25/08 06:30	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		04/25/08 06:30	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		04/25/08 06:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/25/08 06:30	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		04/25/08 06:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		04/25/08 06:30	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/25/08 06:30	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		04/25/08 06:30	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		04/25/08 06:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/25/08 06:30	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		04/25/08 06:30	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		04/25/08 06:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		04/25/08 06:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		04/25/08 06:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/25/08 06:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/25/08 06:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/25/08 06:30	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/25/08 06:30	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		04/25/08 06:30	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		04/25/08 06:30	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/25/08 06:30	75-09-2	

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ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Sample: 0105-SW-1 **Lab ID: 9217527006** Collected: 04/15/08 13:45 Received: 04/16/08 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		04/25/08 06:30	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/25/08 06:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		04/25/08 06:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		04/25/08 06:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/25/08 06:30	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/25/08 06:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/25/08 06:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/25/08 06:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/25/08 06:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/25/08 06:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/25/08 06:30	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		04/25/08 06:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/25/08 06:30	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/25/08 06:30	1330-20-7	
m&p-Xylene	ND	ug/L	5.0	0.66	1		04/25/08 06:30	1330-20-7	
o-Xylene	ND	ug/L	5.0	0.23	1		04/25/08 06:30	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		04/25/08 06:30	460-00-4	
Dibromofluoromethane (S)	102	%	85-115		1		04/25/08 06:30	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	79-120		1		04/25/08 06:30	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		04/25/08 06:30	2037-26-5	

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ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Sample: 0105-SW-2 **Lab ID: 9217527007** Collected: 04/15/08 13:30 Received: 04/16/08 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Arsenic	ND	ug/L	10.0	2.7	1	04/21/08 10:41	04/23/08 03:28	7440-38-2	
Barium	**20.0J**	ug/L	100	0.20	1	04/21/08 10:41	04/23/08 03:28	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/21/08 10:41	04/23/08 03:28	7440-43-9	
Chromium	**0.93J**	ug/L	10.0	0.40	1	04/21/08 10:41	04/23/08 03:28	7440-47-3	
Lead	ND	ug/L	10.0	4.0	1	04/21/08 10:41	04/23/08 03:28	7439-92-1	
Selenium	ND	ug/L	10.0	3.8	1	04/21/08 10:41	04/23/08 03:28	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	04/21/08 10:41	04/23/08 03:28	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	04/17/08 12:30	04/18/08 11:50	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		04/25/08 06:53	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		04/25/08 06:53	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/25/08 06:53	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		04/25/08 06:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/25/08 06:53	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		04/25/08 06:53	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		04/25/08 06:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		04/25/08 06:53	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		04/25/08 06:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/25/08 06:53	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		04/25/08 06:53	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		04/25/08 06:53	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		04/25/08 06:53	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/25/08 06:53	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		04/25/08 06:53	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		04/25/08 06:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/25/08 06:53	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		04/25/08 06:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		04/25/08 06:53	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/25/08 06:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		04/25/08 06:53	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		04/25/08 06:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/25/08 06:53	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		04/25/08 06:53	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		04/25/08 06:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		04/25/08 06:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		04/25/08 06:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/25/08 06:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/25/08 06:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/25/08 06:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/25/08 06:53	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		04/25/08 06:53	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		04/25/08 06:53	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/25/08 06:53	75-09-2	

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ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Sample: 0105-SW-2 **Lab ID: 9217527007** Collected: 04/15/08 13:30 Received: 04/16/08 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		04/25/08 06:53	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/25/08 06:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		04/25/08 06:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		04/25/08 06:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		04/25/08 06:53	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/25/08 06:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/25/08 06:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/25/08 06:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/25/08 06:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/25/08 06:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/25/08 06:53	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		04/25/08 06:53	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/25/08 06:53	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/25/08 06:53	1330-20-7	
m&p-Xylene	ND	ug/L	5.0	0.66	1		04/25/08 06:53	1330-20-7	
o-Xylene	ND	ug/L	5.0	0.23	1		04/25/08 06:53	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109		1		04/25/08 06:53	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		04/25/08 06:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	79-120		1		04/25/08 06:53	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		04/25/08 06:53	2037-26-5	

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ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Sample: 0105-FIELD BLANK **Lab ID: 9217527008** Collected: 04/15/08 15:15 Received: 04/16/08 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Arsenic	ND	ug/L	10.0	2.7	1	04/21/08 10:41	04/23/08 03:32	7440-38-2	
Barium	ND	ug/L	100	0.20	1	04/21/08 10:41	04/23/08 03:32	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	04/21/08 10:41	04/23/08 03:32	7440-43-9	
Chromium	**0.61J**	ug/L	10.0	0.40	1	04/21/08 10:41	04/23/08 03:32	7440-47-3	
Lead	ND	ug/L	10.0	4.0	1	04/21/08 10:41	04/23/08 03:32	7439-92-1	
Selenium	ND	ug/L	10.0	3.8	1	04/21/08 10:41	04/23/08 03:32	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	04/21/08 10:41	04/23/08 03:32	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	04/17/08 12:30	04/18/08 11:52	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**8.2J**	ug/L	100	2.2	1		04/25/08 07:17	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		04/25/08 07:17	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/25/08 07:17	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		04/25/08 07:17	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/25/08 07:17	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		04/25/08 07:17	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		04/25/08 07:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		04/25/08 07:17	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		04/25/08 07:17	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/25/08 07:17	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		04/25/08 07:17	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		04/25/08 07:17	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		04/25/08 07:17	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/25/08 07:17	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		04/25/08 07:17	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		04/25/08 07:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/25/08 07:17	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		04/25/08 07:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		04/25/08 07:17	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/25/08 07:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		04/25/08 07:17	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		04/25/08 07:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/25/08 07:17	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		04/25/08 07:17	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		04/25/08 07:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		04/25/08 07:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		04/25/08 07:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/25/08 07:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/25/08 07:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/25/08 07:17	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/25/08 07:17	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		04/25/08 07:17	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		04/25/08 07:17	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/25/08 07:17	75-09-2	

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ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Sample: 0105-FIELD BLANK **Lab ID: 9217527008** Collected: 04/15/08 15:15 Received: 04/16/08 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		04/25/08 07:17	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/25/08 07:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		04/25/08 07:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		04/25/08 07:17	79-34-5	
Tetrachloroethene	**1.3**	ug/L	1.0	0.46	1		04/25/08 07:17	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/25/08 07:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/25/08 07:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/25/08 07:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/25/08 07:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/25/08 07:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/25/08 07:17	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		04/25/08 07:17	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		04/25/08 07:17	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/25/08 07:17	1330-20-7	
m&p-Xylene	ND	ug/L	5.0	0.66	1		04/25/08 07:17	1330-20-7	
o-Xylene	ND	ug/L	5.0	0.23	1		04/25/08 07:17	95-47-6	
4-Bromofluorobenzene (S)	102	%	87-109		1		04/25/08 07:17	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		04/25/08 07:17	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	79-120		1		04/25/08 07:17	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		04/25/08 07:17	2037-26-5	

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ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Sample: 0105- TRIP BLANK **Lab ID: 9217527009** Collected: 04/15/08 00:00 Received: 04/16/08 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**6.6J**	ug/L	100	2.2	1		04/25/08 01:49	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		04/25/08 01:49	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		04/25/08 01:49	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		04/25/08 01:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		04/25/08 01:49	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		04/25/08 01:49	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		04/25/08 01:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		04/25/08 01:49	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		04/25/08 01:49	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		04/25/08 01:49	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		04/25/08 01:49	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		04/25/08 01:49	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		04/25/08 01:49	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		04/25/08 01:49	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		04/25/08 01:49	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		04/25/08 01:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		04/25/08 01:49	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		04/25/08 01:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		04/25/08 01:49	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		04/25/08 01:49	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		04/25/08 01:49	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		04/25/08 01:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		04/25/08 01:49	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.49	1		04/25/08 01:49	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		04/25/08 01:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		04/25/08 01:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		04/25/08 01:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		04/25/08 01:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		04/25/08 01:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		04/25/08 01:49	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/25/08 01:49	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		04/25/08 01:49	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		04/25/08 01:49	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		04/25/08 01:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		04/25/08 01:49	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		04/25/08 01:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		04/25/08 01:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		04/25/08 01:49	79-34-5	
Tetrachloroethene	**1.9**	ug/L	1.0	0.46	1		04/25/08 01:49	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		04/25/08 01:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		04/25/08 01:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		04/25/08 01:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		04/25/08 01:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		04/25/08 01:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		04/25/08 01:49	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		04/25/08 01:49	108-05-4	

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ANALYTICAL RESULTS

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

Sample: 0105- TRIP BLANK **Lab ID: 9217527009** Collected: 04/15/08 00:00 Received: 04/16/08 14:30 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		04/25/08 01:49	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		04/25/08 01:49	1330-20-7	
m&p-Xylene	ND	ug/L	5.0	0.66	1		04/25/08 01:49	1330-20-7	
o-Xylene	ND	ug/L	5.0	0.23	1		04/25/08 01:49	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		04/25/08 01:49	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		04/25/08 01:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	79-120		1		04/25/08 01:49	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		04/25/08 01:49	2037-26-5	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

QC Batch: MERP/1429 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 9217527001, 9217527002, 9217527003

METHOD BLANK: 102473
Associated Lab Samples: 9217527001, 9217527002, 9217527003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ug/L	ND	0.20	

LABORATORY CONTROL SAMPLE: 102474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.4	95	80-120	

MATRIX SPIKE SAMPLE: 102475

Parameter	Units	9217264001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.3	92	75-125	

SAMPLE DUPLICATE: 102476

Parameter	Units	9217264002 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND	0	25	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

QC Batch: MERP/1430 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 9217527004, 9217527005, 9217527006, 9217527007, 9217527008

METHOD BLANK: 102477
Associated Lab Samples: 9217527004, 9217527005, 9217527006, 9217527007, 9217527008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ug/L	ND	0.20	

LABORATORY CONTROL SAMPLE: 102478

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

MATRIX SPIKE SAMPLE: 102479

Parameter	Units	9217527004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.4	95	75-125	

SAMPLE DUPLICATE: 102480

Parameter	Units	9217527005 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND	0	25	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

QC Batch: MPRP/2215 | Analysis Method: EPA 6010 GW North Carolina
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9217527001, 9217527002, 9217527003, 9217527004, 9217527005, 9217527006, 9217527007, 9217527008

METHOD BLANK: 103785
Associated Lab Samples: 9217527001, 9217527002, 9217527003, 9217527004, 9217527005, 9217527006, 9217527007, 9217527008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Arsenic	ug/L	ND	10.0	
Barium	ug/L	ND	100	
Cadmium	ug/L	ND	1.0	
Chromium	ug/L	ND	10.0	
Lead	ug/L	ND	10.0	
Selenium	ug/L	ND	10.0	
Silver	ug/L	ND	10.0	

LABORATORY CONTROL SAMPLE: 103786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	464	93	80-120	
Barium	ug/L	500	436	87	80-120	
Cadmium	ug/L	500	452	90	80-120	
Chromium	ug/L	500	453	91	80-120	
Lead	ug/L	500	452	90	80-120	
Selenium	ug/L	500	461	92	80-120	
Silver	ug/L	250	228	91	80-120	

MATRIX SPIKE SAMPLE: 103787

Parameter	Units	9217148007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	500	458	92	75-125	
Barium	ug/L	36.6	500	469	86	75-125	
Cadmium	ug/L	ND	500	444	89	75-125	
Chromium	ug/L	1.8J	500	448	89	75-125	
Lead	ug/L	ND	500	446	89	75-125	
Selenium	ug/L	ND	500	452	90	75-125	
Silver	ug/L	0.23J	250	229	92	75-125	

SAMPLE DUPLICATE: 103788

Parameter	Units	9217151001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND	65	25	
Barium	ug/L	59.2	55.1J	7	25	
Cadmium	ug/L	ND	ND	200	25	
Chromium	ug/L	0.57J	ND	164	25	
Lead	ug/L	ND	ND	0	25	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

SAMPLE DUPLICATE: 103788

Parameter	Units	9217151001 Result	Dup Result	RPD	Max RPD	Qualifiers
Selenium	ug/L	ND	ND	70	25	
Silver	ug/L	ND	ND	0	25	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

QC Batch: MSV/3202 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9217527001, 9217527002, 9217527003, 9217527004, 9217527005, 9217527006, 9217527007, 9217527008, 9217527009

METHOD BLANK: 9217784001
Associated Lab Samples: 9217527001, 9217527002, 9217527003, 9217527004, 9217527005, 9217527006, 9217527007, 9217527008, 9217527009

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

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

METHOD BLANK: 9217784001

Associated Lab Samples: 9217527001, 9217527002, 9217527003, 9217527004, 9217527005, 9217527006, 9217527007, 9217527008, 9217527009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Toluene	ug/L	ND	1.0	
trans-1,2-Dichloroethene	ug/L	ND	5.0	
trans-1,3-Dichloropropene	ug/L	ND	1.0	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	
Trichloroethene	ug/L	ND	1.0	
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl acetate	ug/L	ND	50.0	
Vinyl chloride	ug/L	ND	1.0	
Xylene (Total)	ug/L	ND	2.0	
1,2-Dichloroethane-d4 (S)	%	109	79-120	
4-Bromofluorobenzene (S)	%	100	87-109	
Dibromofluoromethane (S)	%	104	85-115	
Toluene-d8 (S)	%	101	70-120	

METHOD BLANK: 9217784002

Associated Lab Samples: 9217527001, 9217527002, 9217527003, 9217527004, 9217527005, 9217527006, 9217527007, 9217527008, 9217527009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	
1,1,1-Trichloroethane	ug/L	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	
1,1,2-Trichloroethane	ug/L	ND	1.0	
1,1-Dichloroethane	ug/L	ND	5.0	
1,1-Dichloroethene	ug/L	ND	5.0	
1,2,3-Trichloropropane	ug/L	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	
1,2-Dichlorobenzene	ug/L	ND	5.0	
1,2-Dichloroethane	ug/L	ND	1.0	
1,2-Dichloroethene (Total)	ug/L	ND	5.0	
1,2-Dichloropropane	ug/L	ND	1.0	
1,4-Dichlorobenzene	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	100	
2-Hexanone	ug/L	ND	50.0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	
Acetone	ug/L	ND	100	
Acrylonitrile	ug/L	ND	200	
Benzene	ug/L	ND	1.0	
Bromochloromethane	ug/L	ND	3.0	
Bromodichloromethane	ug/L	ND	1.0	
Bromoform	ug/L	ND	3.0	
Bromomethane	ug/L	ND	10.0	
Carbon disulfide	ug/L	ND	100	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

METHOD BLANK: 9217784002

Associated Lab Samples: 9217527001, 9217527002, 9217527003, 9217527004, 9217527005, 9217527006, 9217527007, 9217527008, 9217527009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Carbon tetrachloride	ug/L	ND	1.0	
Chlorobenzene	ug/L	ND	3.0	
Chloroethane	ug/L	ND	10.0	
Chloroform	ug/L	ND	5.0	
Chloromethane	ug/L	ND	1.0	
cis-1,2-Dichloroethene	ug/L	ND	5.0	
cis-1,3-Dichloropropene	ug/L	ND	1.0	
Dibromochloromethane	ug/L	ND	3.0	
Dibromomethane	ug/L	ND	10.0	
Ethylbenzene	ug/L	ND	1.0	
Iodomethane	ug/L	ND	10.0	
m&p-Xylene	ug/L	ND	5.0	
Methylene Chloride	ug/L	ND	2.0	
o-Xylene	ug/L	ND	5.0	
Styrene	ug/L	ND	1.0	
Tetrachloroethene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	
trans-1,2-Dichloroethene	ug/L	ND	5.0	
trans-1,3-Dichloropropene	ug/L	ND	1.0	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	
Trichloroethene	ug/L	ND	1.0	
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl acetate	ug/L	ND	50.0	
Vinyl chloride	ug/L	ND	1.0	
Xylene (Total)	ug/L	ND	2.0	
1,2-Dichloroethane-d4 (S)	%	104	79-120	
4-Bromofluorobenzene (S)	%	98	87-109	
Dibromofluoromethane (S)	%	101	85-115	
Toluene-d8 (S)	%	100	70-120	

METHOD BLANK: 9217784003

Associated Lab Samples: 9217527001, 9217527002, 9217527003, 9217527004, 9217527005, 9217527006, 9217527007, 9217527008, 9217527009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	
1,1,1-Trichloroethane	ug/L	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	
1,1,2-Trichloroethane	ug/L	ND	1.0	
1,1-Dichloroethane	ug/L	ND	5.0	
1,1-Dichloroethene	ug/L	ND	5.0	
1,2,3-Trichloropropane	ug/L	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

METHOD BLANK: 9217784003

Associated Lab Samples: 9217527001, 9217527002, 9217527003, 9217527004, 9217527005, 9217527006, 9217527007, 9217527008, 9217527009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,2-Dichlorobenzene	ug/L	ND	5.0	
1,2-Dichloroethane	ug/L	ND	1.0	
1,2-Dichloroethene (Total)	ug/L	ND	5.0	
1,2-Dichloropropane	ug/L	ND	1.0	
1,4-Dichlorobenzene	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	100	
2-Hexanone	ug/L	ND	50.0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	
Acetone	ug/L	ND	100	
Acrylonitrile	ug/L	ND	200	
Benzene	ug/L	ND	1.0	
Bromochloromethane	ug/L	ND	3.0	
Bromodichloromethane	ug/L	ND	1.0	
Bromoform	ug/L	ND	3.0	
Bromomethane	ug/L	ND	10.0	
Carbon disulfide	ug/L	ND	100	
Carbon tetrachloride	ug/L	ND	1.0	
Chlorobenzene	ug/L	ND	3.0	
Chloroethane	ug/L	ND	10.0	
Chloroform	ug/L	ND	5.0	
Chloromethane	ug/L	ND	1.0	
cis-1,2-Dichloroethene	ug/L	ND	5.0	
cis-1,3-Dichloropropene	ug/L	ND	1.0	
Dibromochloromethane	ug/L	ND	3.0	
Dibromomethane	ug/L	ND	10.0	
Ethylbenzene	ug/L	ND	1.0	
Iodomethane	ug/L	ND	10.0	
m&p-Xylene	ug/L	ND	5.0	
Methylene Chloride	ug/L	ND	2.0	
o-Xylene	ug/L	ND	5.0	
Styrene	ug/L	ND	1.0	
Tetrachloroethene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	
trans-1,2-Dichloroethene	ug/L	ND	5.0	
trans-1,3-Dichloropropene	ug/L	ND	1.0	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	
Trichloroethene	ug/L	ND	1.0	
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl acetate	ug/L	ND	50.0	
Vinyl chloride	ug/L	ND	1.0	
Xylene (Total)	ug/L	ND	2.0	
1,2-Dichloroethane-d4 (S)	%	105	79-120	
4-Bromofluorobenzene (S)	%	100	87-109	
Dibromofluoromethane (S)	%	104	85-115	
Toluene-d8 (S)	%	100	70-120	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

METHOD BLANK: 9217784004

Associated Lab Samples: 9217527001, 9217527002, 9217527003, 9217527004, 9217527005, 9217527006, 9217527007, 9217527008, 9217527009

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

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

METHOD BLANK: 9217784004

Associated Lab Samples: 9217527001, 9217527002, 9217527003, 9217527004, 9217527005, 9217527006, 9217527007, 9217527008, 9217527009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl acetate	ug/L	ND	50.0	
Vinyl chloride	ug/L	ND	1.0	
Xylene (Total)	ug/L	ND	2.0	
1,2-Dichloroethane-d4 (S)	%	104	79-120	
4-Bromofluorobenzene (S)	%	97	87-109	
Dibromofluoromethane (S)	%	102	85-115	
Toluene-d8 (S)	%	101	70-120	

METHOD BLANK: 9217784005

Associated Lab Samples: 9217527001, 9217527002, 9217527003, 9217527004, 9217527005, 9217527006, 9217527007, 9217527008, 9217527009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	
1,1,1-Trichloroethane	ug/L	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	
1,1,2-Trichloroethane	ug/L	ND	1.0	
1,1-Dichloroethane	ug/L	ND	5.0	
1,1-Dichloroethene	ug/L	ND	5.0	
1,2,3-Trichloropropane	ug/L	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	
1,2-Dichlorobenzene	ug/L	ND	5.0	
1,2-Dichloroethane	ug/L	ND	1.0	
1,2-Dichloroethene (Total)	ug/L	ND	5.0	
1,2-Dichloropropane	ug/L	ND	1.0	
1,4-Dichlorobenzene	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	100	
2-Hexanone	ug/L	ND	50.0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	
Acetone	ug/L	ND	100	
Acrylonitrile	ug/L	ND	200	
Benzene	ug/L	ND	1.0	
Bromochloromethane	ug/L	ND	3.0	
Bromodichloromethane	ug/L	ND	1.0	
Bromoform	ug/L	ND	3.0	
Bromomethane	ug/L	ND	10.0	
Carbon disulfide	ug/L	ND	100	
Carbon tetrachloride	ug/L	ND	1.0	
Chlorobenzene	ug/L	ND	3.0	
Chloroethane	ug/L	ND	10.0	
Chloroform	ug/L	ND	5.0	
Chloromethane	ug/L	ND	1.0	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

METHOD BLANK: 9217784005

Associated Lab Samples: 9217527001, 9217527002, 9217527003, 9217527004, 9217527005, 9217527006, 9217527007, 9217527008, 9217527009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	5.0	
cis-1,3-Dichloropropene	ug/L	ND	1.0	
Dibromochloromethane	ug/L	ND	3.0	
Dibromomethane	ug/L	ND	10.0	
Ethylbenzene	ug/L	ND	1.0	
Iodomethane	ug/L	ND	10.0	
m&p-Xylene	ug/L	ND	5.0	
Methylene Chloride	ug/L	ND	2.0	
o-Xylene	ug/L	ND	5.0	
Styrene	ug/L	ND	1.0	
Tetrachloroethene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	
trans-1,2-Dichloroethene	ug/L	ND	5.0	
trans-1,3-Dichloropropene	ug/L	ND	1.0	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	
Trichloroethene	ug/L	ND	1.0	
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl acetate	ug/L	ND	50.0	
Vinyl chloride	ug/L	ND	1.0	
Xylene (Total)	ug/L	ND	2.0	
1,2-Dichloroethane-d4 (S)	%	104	79-120	
4-Bromofluorobenzene (S)	%	98	87-109	
Dibromofluoromethane (S)	%	101	85-115	
Toluene-d8 (S)	%	100	70-120	

METHOD BLANK: 105445

Associated Lab Samples: 9217527001, 9217527002, 9217527003, 9217527004, 9217527005, 9217527006, 9217527007, 9217527008, 9217527009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	
1,1,1-Trichloroethane	ug/L	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	
1,1,2-Trichloroethane	ug/L	ND	1.0	
1,1-Dichloroethane	ug/L	ND	5.0	
1,1-Dichloroethene	ug/L	ND	5.0	
1,2,3-Trichloropropane	ug/L	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	
1,2-Dichlorobenzene	ug/L	ND	5.0	
1,2-Dichloroethane	ug/L	ND	1.0	
1,2-Dichloroethene (Total)	ug/L	ND	5.0	
1,2-Dichloropropane	ug/L	ND	1.0	
1,4-Dichlorobenzene	ug/L	ND	1.0	

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QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

METHOD BLANK: 105445

Associated Lab Samples: 9217527001, 9217527002, 9217527003, 9217527004, 9217527005, 9217527006, 9217527007, 9217527008, 9217527009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
2-Butanone (MEK)	ug/L	ND	100	
2-Hexanone	ug/L	ND	50.0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	
Acetone	ug/L	ND	100	
Acrylonitrile	ug/L	ND	200	
Benzene	ug/L	ND	1.0	
Bromochloromethane	ug/L	ND	3.0	
Bromodichloromethane	ug/L	ND	1.0	
Bromoform	ug/L	ND	3.0	
Bromomethane	ug/L	ND	10.0	
Carbon disulfide	ug/L	ND	100	
Carbon tetrachloride	ug/L	ND	1.0	
Chlorobenzene	ug/L	ND	3.0	
Chloroethane	ug/L	ND	10.0	
Chloroform	ug/L	ND	5.0	
Chloromethane	ug/L	ND	1.0	
cis-1,2-Dichloroethene	ug/L	ND	5.0	
cis-1,3-Dichloropropene	ug/L	ND	1.0	
Dibromochloromethane	ug/L	ND	3.0	
Dibromomethane	ug/L	ND	10.0	
Ethylbenzene	ug/L	ND	1.0	
Iodomethane	ug/L	ND	10.0	
m&p-Xylene	ug/L	ND	5.0	
Methylene Chloride	ug/L	ND	2.0	
o-Xylene	ug/L	ND	5.0	
Styrene	ug/L	ND	1.0	
Tetrachloroethene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	
trans-1,2-Dichloroethene	ug/L	ND	5.0	
trans-1,3-Dichloropropene	ug/L	ND	1.0	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	
Trichloroethene	ug/L	ND	1.0	
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl acetate	ug/L	ND	50.0	
Vinyl chloride	ug/L	ND	1.0	
Xylene (Total)	ug/L	ND	2.0	
1,2-Dichloroethane-d4 (S)	%	103	79-120	
4-Bromofluorobenzene (S)	%	101	87-109	
Dibromofluoromethane (S)	%	101	85-115	
Toluene-d8 (S)	%	100	70-120	

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Pace Analytical
www.pacelabs.com

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

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

QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

LABORATORY CONTROL SAMPLE: 105446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.2	108	83-125	
1,1,1-Trichloroethane	ug/L	50	59.9	120	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	56.6	113	73-127	
1,1,2-Trichloroethane	ug/L	50	58.5	117	77-123	
1,1-Dichloroethane	ug/L	50	60.0	120	76-129	
1,1-Dichloroethene	ug/L	50	57.9	116	78-146	
1,2,3-Trichloropropane	ug/L	50	58.0	116	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	62.1	124	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	62.3	125	81-125	
1,2-Dichlorobenzene	ug/L	50	56.1	112	82-126	
1,2-Dichloroethane	ug/L	50	57.4	115	72-126	
1,2-Dichloroethene (Total)	ug/L	100	114	114	50-150	
1,2-Dichloropropane	ug/L	50	61.0	122	80-127	
1,4-Dichlorobenzene	ug/L	50	57.6	115	79-125	
2-Butanone (MEK)	ug/L	100	132	132	50-134	
2-Hexanone	ug/L	100	140	140	58-138	L3
4-Methyl-2-pentanone (MIBK)	ug/L	100	127	127	70-131	
Acetone	ug/L	100	134	134	50-146	
Acrylonitrile	ug/L	250	203	81	66-124	
Benzene	ug/L	50	58.2	116	78-128	
Bromochloromethane	ug/L	50	57.5	115	73-124	
Bromodichloromethane	ug/L	50	64.8	130	81-125	L3
Bromoform	ug/L	50	51.1	102	71-125	
Bromomethane	ug/L	50	39.5	79	50-150	
Carbon disulfide	ug/L	50	64.0J	128	54-150	
Carbon tetrachloride	ug/L	50	59.6	119	81-137	
Chlorobenzene	ug/L	50	58.5	117	82-126	
Chloroethane	ug/L	50	58.0	116	69-140	
Chloroform	ug/L	50	62.4	125	77-129	
Chloromethane	ug/L	50	53.3	107	54-139	
cis-1,2-Dichloroethene	ug/L	50	59.1	118	76-133	
cis-1,3-Dichloropropene	ug/L	50	68.5	137	76-127	L3
Dibromochloromethane	ug/L	50	53.3	107	77-125	
Dibromomethane	ug/L	50	59.8	120	77-125	
Ethylbenzene	ug/L	50	58.3	117	80-127	
Iodomethane	ug/L	100	146	146	65-172	
m&p-Xylene	ug/L	100	117	117	82-127	
Methylene Chloride	ug/L	50	56.6	113	67-133	
o-Xylene	ug/L	50	58.5	117	83-124	
Styrene	ug/L	50	62.2	124	80-130	
Tetrachloroethene	ug/L	50	54.3	109	78-128	
Toluene	ug/L	50	58.5	117	76-126	
trans-1,2-Dichloroethene	ug/L	50	55.3	111	78-134	
trans-1,3-Dichloropropene	ug/L	50	59.0	118	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	72.5J	145	51-140	L3
Trichloroethene	ug/L	50	59.5	119	79-127	
Trichlorofluoromethane	ug/L	50	54.3	109	76-148	
Vinyl acetate	ug/L	100	118	118	50-150	

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(704)875-9092

QUALITY CONTROL DATA

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

LABORATORY CONTROL SAMPLE: 105446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	50	59.2	118	67-143	
Xylene (Total)	ug/L	150	175	117	83-125	
1,2-Dichloroethane-d4 (S)	%			103	79-120	
4-Bromofluorobenzene (S)	%			100	87-109	
Dibromofluoromethane (S)	%			103	85-115	
Toluene-d8 (S)	%			101	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105451 105452

Parameter	Units	9217527001 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	75.4	70.8	151	142	60-150	6	30	M3
Benzene	ug/L	ND	50	50	65.7	60.9	131	122	74-136	8	30	
Chlorobenzene	ug/L	ND	50	50	65.1	59.3	130	119	79-135	9	30	
Toluene	ug/L	ND	50	50	65.1	60.8	130	122	73-131	7	30	
Trichloroethene	ug/L	ND	50	50	63.8	59.3	128	119	73-131	7	30	
1,2-Dichloroethane-d4 (S)	%						105	106	79-120			
4-Bromofluorobenzene (S)	%						100	98	87-109			
Dibromofluoromethane (S)	%						101	102	85-115			
Toluene-d8 (S)	%						101	100	70-120			

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QUALIFIERS

Project: COBLE'S SANDROCK 419.00.28
Pace Project No.: 9217527

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.

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.

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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

1166215

Section A Required Client Information:

Company: Joyce Engineering, Inc.
Address: 2211 W. Meadowview Rd Ste 100
Greensboro, NC 27407
Email To: jkerly@joyceengineering.com
Phone: 336-323-0092 Fax: 336-323-0093
Requested Due Date/TAT: 10 Day

Section B Required Project Information:

Report To: Jeremey Kerly
Copy To:
Purchase Order No.:
Project Name: Coble's Sandrock
Project Number: 419.00.28

Section C Invoice Information:

Attention: Lecia Jones
Company Name: Joyce Engineering, Inc
Address: 11604 Ownby Ln. Richmond VA 23322
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

Requested Analysis Filtered (Y/N)

Section D Required Client Information

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

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): NC App I VOC	RCRA Metals	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9217527
1	0105-MW1	WT	G			4/15/08	14:30	15.1	4			X	X					X	X		9217527001
2	0105-MW2	WT	G			4/15/08	14:40	15.2	4			X	X					X	X		2
3	0105-MW4	WT	G			4/15/08	14:55	15.2	4			X	X					X	X		3
4	0105-MW6	WT	G			4/15/08	14:05	15.1	4			X	X					X	X		4
5	0105-MW7	WT	G			4/15/08	15:05	13.8	4			X	X					X	X		5
6	0105-SW1	WT	G			4/15/08	13:45	15.0	4			X	X					X	X		6
7	0105-SW2	WT	G			4/15/08	13:30	15.1	4			X	X					X	X		7
8	0105-Field blank	WT	G			4/15/08	15:15	–	4			X	X					X	X		8
9	0105-Trip blank	WT	G			–	–	–	2				X					X			9
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Level 2 data report.	JEJ	4/16/08	8:25	Pace	4/16/8	8:25
	Pace	4/16/8	1430		4/16/08	1430

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

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Carrie Mitchell Robert Winfield
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 04/15/08

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

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

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078

Phone: 704.875.9092
Fax: 704.875.9091

May 2, 2008

RE: Project: Coble's Sandrock 419.00.28
Pace Project No: 9217527

This letter is in regard to the results for 8260 trip blanks.

Tetrachloroethene contamination was introduced into the laboratory's deionzed water supply when vendor system maintenance was performed during the first week of March. The contamination was present in trip blanks prepared in the laboratory at that time. Tetrachlorethene at levels of 1-3 ug/L has being observed in these trip blank.

If you have any further questions or need additional information, please contact the laboratory or myself at 704-875-9092.

Sincerely,

Cheryl Johnson
Quality Manager

DATE: 4/15/08

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.29

Well ID: 0105-MW1 **Sampler(s):** R. Winfield / C. Mitchell

Well Location: backside of the landfill along perimeter road

Well Diameter: 2 inches

Initial Depth to Water (DTW): 32.79 feet

Depth to Bottom (DTB): 35.85 feet

Water Column Thickness (WCT): 3.06 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 0.50 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 1.50 gallons

Actual Amount Purged/Bailed : 1.50 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 32.87 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	10:38	16.1	6.26	85.6	45.9	CM
0.50	10:41	15.9	6.16	81.2	432	CM
1.00	10:43	15.9	5.89	80.3	895	CM
1.50	10:45	15.6	6.03	80.6	OR	CM
Before Sampling	14:30	15.9	6.84	81.8	375	CM

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

Sunny, breezy, low 50's

Sample Time – Sunny, low 60's

Signature: [signature] **Date:** 4/15/08

QA/QC Sign Off: [signature] **Date:** 5/16/08

DATE: 4/15/08

ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.29

Well ID: 0105-MW2 **Sampler(s):** R. Winfield / C. Mitchell

Well Location: near top of hill; west side of LF

Well Diameter: 2 inches

Initial Depth to Water (DTW): 12.90 feet

Depth to Bottom (DTB): 22.98 feet

Water Column Thickness (WCT): 10.08 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.64 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 4.92 gallons

Actual Amount Purged/Bailed : 4.92 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 13.03 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	10:54	13.6	5.96	61.9	123	RW
1.64	10:56	13.4	5.82	63.7	447	RW
3.28	10:58	13.6	5.87	52.2	910	RW
4.92	11:00	13.8	5.80	51.3	OR	RW
Before Sampling	14:40	15.2	6.40	53.2	185	RW

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

Sunny, breezy, 50's

Sample Time – Sunny, breezy, 60's

Signature: [signature] **Date:** 4/15/08

QA/QC Sign Off: [signature] **Date:** 5/16/08

DATE: 4/15/08

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.29

Well ID: 0105-MW4 **Sampler(s):** R. Winfield / C. Mitchell

Well Location: between MW-5 and MW-2

Well Diameter: 2 inches

Initial Depth to Water (DTW): 13.77 feet

Depth to Bottom (DTB): 24.22 feet

Water Column Thickness (WCT): 10.45 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.70 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 5.10 gallons

Actual Amount Purged/Bailed : 5.10 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 13.81 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	11:10	14.3	5.94	46.6	203	CM
1.70	11:12	13,9	5.77	52.2	704	CM
3.40	11:14	14.4	5.82	51.5	863	CM
5.10	11:16	14.0	5.69	50.1	914	CM
Before Sampling	14:55	15.2	6.42	57.0	211	CM

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

Sunny, breezy, 50's

Sample Time – Sunny, 60's

Signature: [signature] **Date:** 4/15/08

QA/QC Sign Off: [signature] **Date:** 5/15/08

DATE: 4/15/08

ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.29

Well ID: 0105-MW6 **Sampler(s):** R. Winfield / C. Mitchell

Well Location: flush mount in field that is fenced before the fill area (former P-3)

Well Diameter: 2 inches

Initial Depth to Water (DTW): 27.44 feet

Depth to Bottom (DTB): 41.00 feet

Water Column Thickness (WCT): 13.56 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 2.21 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 6.63 gallons

Actual Amount Purged/Bailed : 6.75 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: _____ feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	9:28	15.2	6.95	363	5.87	CM
2.21	9:35	15.4	6.14	173	263	CM
4.42	9:41	15.0	6.20	167	390	CM
6.63	9:49	15.1	6.06	167	717	CM
Before Sampling	14:05	15.9	7.05	165	97.4	CM

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

Sunny, cool, low 50's

Sample Time – Sunny, 60's, breezy

Well was submerged in water

Signature: [signature] **Date:** 4/15/08

QA/QC Sign Off: [signature] **Date:** 5/16/08

DATE: 4/15/08

ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: COBLE'S SANDROCK & LF **Project No./Task No.:** 419.00.29

Well ID: 0105-MW7 **Sampler(s):** R. Winfield / C. Mitchell

Well Location: Westside of the landfill near MW5

Well Diameter: 2 inches

Initial Depth to Water (DTW): 9.30 feet

Depth to Bottom (DTB): 16.00 feet

Water Column Thickness (WCT): 6.70 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.09 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 3.27 gallons

Actual Amount Purged/Bailed : 3.27 gallons

Purged with: disposable bailer

Sampled with: disposable bailer

Depth to Water before Sampling: 9.28 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	11:24	13.6	5.96	932	509	RW
1.09	11:26	13.2	6.27	772	946	RW
2.18	11:28	13.4	6.20	731	OR	RW
3.27	11:30	13.4	6.17	722	931	RW
Before Sampling	15:05	13.8	6.10	950	40.3	RW

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

Sunny, breezy, 50's

Reddish-orange algae present

Sample Time – Sunny, breezy, 60's

Signature: [signature] **Date:** 4/15/08

QA/QC Sign Off: [signature] **Date:** 5/16/08

DATE: 4/15/08

JOYCE ENGINEERING, INC.

SURFACE WATER MONITORING LOG

Project Name: COBLE'S SANDROCK LF **Project/Task No.:** 419.00.29

Surface Point ID: 0105-SW1 **Sampler(s):** R. Winfield / C. Mitchell

Location: Stream near MW4

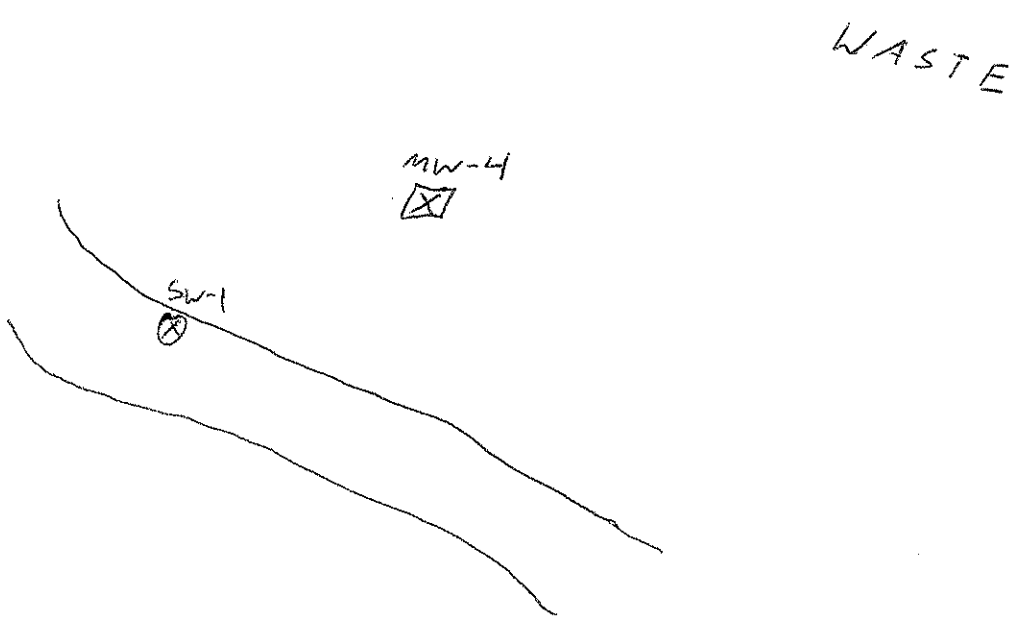
Field Parameters:

Time of Sampling:	13:45	
pH:	7.21	
Temperature :	15.0	(°C)
Conductivity :	105.0	(µS)
Turbidity :	12.65	(ntu)

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

Sunny, breezy, low 60's

Sketch of Sample Location (include flow direction, drainage pathways, etc.):



Signature: Carrie Mitchell **Date:** 4/15/08

QA/QC Sign Off: [illegible] **Date:** 5/16/08

DATE: 4/15/08

ENGINEERING, INC.

SURFACE WATER MONITORING LOG

Project Name: COBLE'S SANDROCK LF **Project/Task No.:** 419.00.29

Surface Point ID: 0105-SW2 **Sampler(s):** R. Winfield / C. Mitchell

Location: off bridge in woods

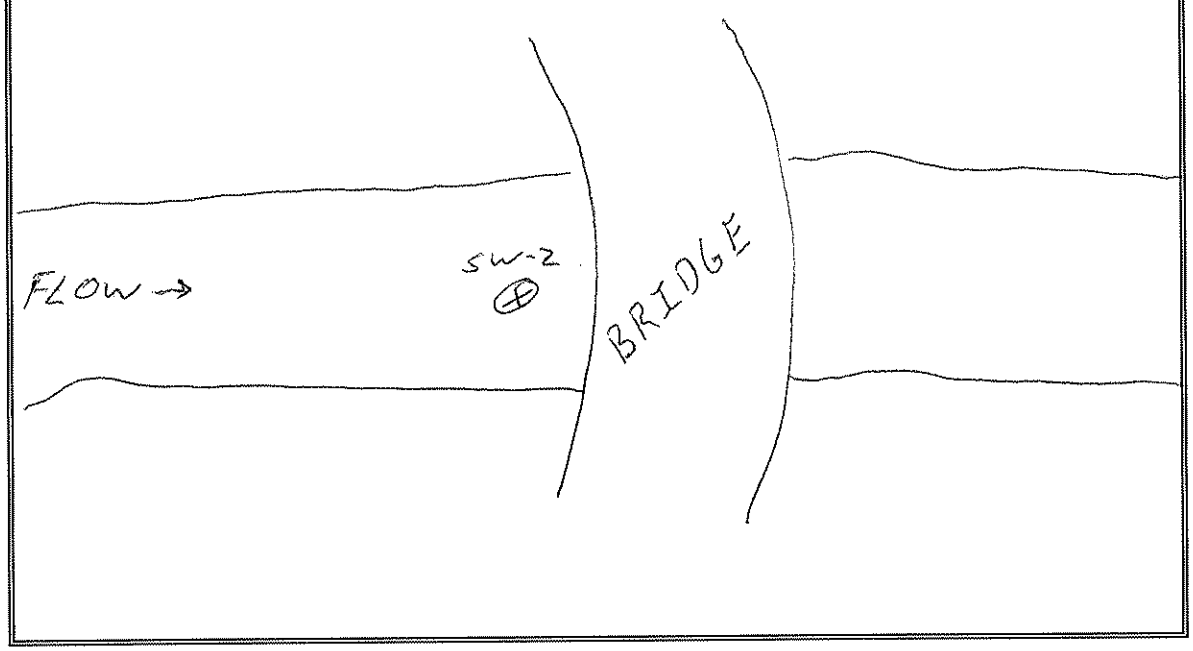
Field Parameters:

Time of Sampling:	13:30	
pH:	7.06	
Temperature :	15.1	(°C)
Conductivity :	109.5	(µS)
Turbidity :	22.5	(ntu)

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

Sunny, 60's

Sketch of Sample Location (include flow direction, drainage pathways, etc.):



Signature: Carrie Mitchell **Date:** 4/15/08

QA/QC Sign Off: [illegible] **Date:** 5/16/08