Prepared for:

Wilkes County Department of Solid Waste
9219 Elkin Highway
Roaring River, North Carolina 28669

JEI Project No. 356.0900.11, Task No. 03

FIRST SEMIANNUAL GROUNDWATER MONITORING REPORT OF 2010

ROARING RIVER LANDFILL
WILKES COUNTY, NORTH CAROLINA
PERMIT NO. 97-04

October 2010

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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)
Roaring River Landfill Wilkes County	NC Highway 268 East Roaring River, NC 28669	97-04	.1600	June 22, 2010 September 13-14, 2010

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Jeremey J. Kerly (Joyce Engineering, Inc.) Project Consultant (336) 323-0092

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

Signature 10-22-10 Date

Affix NC Licensed Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 2097 GEOLOGIST JEREMEY JOHN KERLY

2211 West Meadowview Rd. Suite 101, Greensboro, NC 27407

Facility Representative Address

C-0782

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

Revised 6/2009

First Semiannual Groundwater Monitoring Report of 2010
Roaring River Landfill
Wilkes County, North Carolina

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1.0 INTRODUCTION

1.1 Site Information

The Wilkes County Roaring River Landfill is owned and operated by Wilkes County under Permit No. 97-04. The landfill property is located near the town of Roaring River, North Carolina. The site is located on a group of knolls rising over 150 feet above the floodplain of the Yadkin River. The property boundary and disposal area are indicated on an enlarged portion of the USGS 7 ½ minute topographic map for Ronda, North Carolina (Figure No. 1). The landfill facility boundary includes most of the area between the disposal cells and the Yadkin River.

The approximately 145-acre site was originally investigated for suitability as a solid waste management facility in 1989 by Westinghouse Environmental and Geotechnical Services, Inc. (Westinghouse). Additional site characterization work was performed at the site in 1990 and 1991 by Municipal Engineering Services, P.A., during preparation of the Construction Plan Application for the Phase 1 cell, in accordance with expected revisions to the North Carolina Solid Waste Management Rules (NCSWMR), in response to Subtitle D regulations. Further site characterization work was performed in 1994, as part of the Transition Plan for the facility.

Wilkes County submitted a Design Hydrogeologic Report in 1991 to North Carolina Department of Environment and Natural Resources (NCDENR) and the facility began accepting waste in the Subtitle D lined Phase 1 in 1993. This cell, which occupies approximately 11.7 acres of the facility, reached final capacity in 1999. A site investigation and Design Hydrogeologic Report for the 7.3 acre Phase 2 was completed in December 1998. The Phase 2 disposal area reached final capacity in July 2006. A Design Hydrogeologic Report for the 6.6 acre Phase 3 was completed in May 2004 and construction was completed January 2006. Phase 4 of the waste disposal unit will be a vertical expansion of the Phase 3 area, as agreed upon in a December 10, 2002, site meeting with Sherri Coghill of the NCDENR. A leachate lagoon is located southwest of the approximately 12-acre lined area.

1.2 Site Geology

The site is located at the boundary of the Inner Piedmont Belt and Blue Ridge Belt in the Brevard Fault Zone. In the vicinity of the site, the Brevard Zone is a five-mile wide, east-northeast trending fault zone with a complex structural and metamorphic history. Finely interlayered gneiss and schist within the zone are amphibolite facies, with peak metamorphism as high as the kyanite zone for pelitic assemblages. Typically, the more highly-strained and faulted parts of the zone have experienced retrograde metamorphism to greenschist facies. Rocks in the Brevard Zone have undergone various degrees of both ductile and brittle deformation. Espenshade and others mapped four continuous faults that either bound the zone or separate rock units consistently over long distances. These faults contain both mylonitic and cataclastic rock, and exhibit the greatest degree of retrograde metamorphism. Two of these faults cross on or near the site. Bedrock at the site and in the Brevard Zone generally is more highly fractured than rock typical of most Piedmont and Mountain sites.

1.3 Regulatory Status

The Roaring River Landfill is currently in the Detection Monitoring program. The facility currently monitors groundwater for the NC Appendix I constituents and leachate for parameters listed under Section 2.2 Leachate Monitoring Program. Statistical analyses of the laboratory data has been prepared in accordance with the required compliance demonstration Rule .1632(g), (h), and (i) of the North Carolina Division of Waste Management, Solid Waste Section.

2.0 FACILITY MONITORING PROGRAM

2.1 Groundwater Monitoring Program

Eleven active groundwater monitoring wells comprise the monitoring network at the Roaring River Landfill. The current compliance network consists of the following monitoring wells: MW-2R (facility background well), MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-12S, MW-12D, MW-17, and MW-18.

Monitoring Well	Date Installed	Classification	Monitoring Program	Total Depth from TOC (ft)	Lithology of Screened Interval
MW-2	1/03/91	Abandoned	-	81.50	Saprolite
MW-2R	4/08/02	Background	Detection	116.00	Bedrock
MW-5	8/12/93	Compliance	Detection	38.11	Saprolite
MW-6	8/13/93	Compliance	Detection	37.60	Saprolite
MW-7	8/11/93	Compliance	Detection	41.77	Saprolite
MW-8	8/11/93	Compliance	Detection	58.50	Bedrock
MW-9	8/12/93	Compliance	Detection	37.57	Saprolite
MW-10	9/02/98	Compliance	Detection	76.75	Bedrock
MW-11S	9/03/98	Abandoned	-	42.00	Bedrock
MW-11D	9/03/98	Abandoned	-	100.00	Bedrock
MW-12S	3/07/00	Compliance	Detection	104.00	Partially Weathered Rock
MW-12D	3/07/00	Compliance	Detection	134.00	Partially Weathered Rock
MW-17	8/26/03	Compliance	Detection	24.63	Saprolite
MW-18	8/26/03	Compliance	Detection	46.85	Saprolite

Monitoring well MW-2R is the upgradient background monitoring well for the facility. This well replaced former background monitoring well MW-2 which had been dry for several events, as requested in correspondence from the Section, dated December 13, 2001. Well MW-2R was sampled for the first time on April 23, 2002, just after the first semiannual event. Monitoring wells MW-5, -6, -7, -8, -9, and -10 are monitored to detect potential releases from Cell 1. Monitoring wells MW-12S and -12D were installed in March 2000 to be incorporated into the monitoring network to effectively monitor Cell 2, while monitoring wells MW-11S and MW-11D were abandoned for Phase 2 construction. Wells MW-17 and MW-18 were installed during the Design Hydrogeologic Investigation for Phases 3 and 4 and were incorporated into the facility network after the June 2006 approval of the revised Groundwater Monitoring Plan.

2.2 Leachate Monitoring Program

One leachate monitoring point is sampled on a semiannual basis at the Roaring River Landfill and the laboratory results are included. The following constituents are required for laboratory leachate analysis:

- North Carolina Appendix I Metals (plus Manganese, Molybdenum, and Mercury)
- North Carolina Appendix I 8260 Volatiles
- Biochemical Oxygen Demand
- Oil & Grease
- Cyanide
- Total Suspended Solids

3.0 FIRST SEMIANNUAL SAMPLING EVENT OF 2010

3.1 Field Work

On June 22, 2010 Research and Analytical Laboratories, Inc. (RAL) personnel visited Roaring River Landfill to purge and sample monitoring wells MW-2R, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-12S, MW-12D, MW-17 and MW-18. Monitoring wells MW-5, MW-8, MW-10, and MW-12S were either dry, the bailer was unable to reach the water column, or there was not enough groundwater to purge and sample.

Monitoring wells were purged and sampled using bailers. Measurements of temperature, pH, and specific conductivity were recorded in a field log. Turbidity information was based on visual observation. Prior to sampling, laboratory-supplied containers were prepared with the following information:

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

Groundwater samples from each monitoring well were collected directly from the 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 in a laboratory provided cooler and chilled on ice. A field log is provided in Appendix 2.

Leachate samples were collected from the leachate lagoon. Prepared sampling containers were filled, placed in a cooler, and chilled on ice. At the time of sampling, leachate was measured for temperature, pH, and specific conductivity.

3.2 Laboratory Analysis and JEI Quality Control

The June 2010 groundwater and leachate samples were analyzed by Research and Analytical Laboratories, Inc. of Kernersville, North Carolina under chain-of-custody control for analysis. As presented earlier, the groundwater was analyzed for NC Appendix I constituents. The leachate was analyzed for NC Appendix I constituents, as well as mercury, manganese, molybdenum, Biochemical Oxygen Demand (BOD), oil & grease, cyanide, and Total Suspended Solids (TSS). The samples were received by the laboratory on June 23, 2010, in good condition, properly preserved, and within the hold times for each analytical method.

In addition to samples collected for compliance monitoring at the Roaring River Landfill, a Field Blank was collected by RAL personnel as part of the June 2010 sampling event. Also, a Travel Blank that was prepared by the laboratory accompanied the volatile sampling containers to and from the laboratory. The Field and Travel Blanks were analyzed for the NC Appendix I listed metals and volatile organic compounds.

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

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

Antimony detected in monitoring well MW-7 as well as silver and vanadium in monitoring well MW-12D were at concentrations detected above their respective NC2Ls. Therefore, a resampling event was completed by Joyce Engineering, Inc. on September 13-14, 2010. Samples were analyzed by Pace Analytical Services, Inc. of Huntersville, NC.

4.0 HYDROGEOLOGICAL CONDITIONS

Surface water at the site flows to the south-southwest in three site drainages to the Yadkin River, which border the southeastern facility boundary. Regional groundwater flow in the vicinity of the facility is also generally to the south-southwest and discharges to the Yadkin River. Groundwater beneath the site flows in two interconnected aquifers, a surficial aquifer and a fractured bedrock aquifer. Most of the groundwater flowing in these aquifers discharges either to the alluvial sediment of the Yadkin River floodplain, or to the lowermost reaches of the three site surface drainages before reaching the river.

Depth to groundwater was measured in the compliance monitoring wells at the site prior to sampling. The groundwater elevations were calculated relative to the surveyed measuring point (top of casing) for each monitoring well. The historical groundwater elevations are summarized in Table 1. The groundwater elevation contours shown on Drawing No. 1 are based on data from the June 2010 sampling event.

Estimated horizontal groundwater gradients from the June 2010 groundwater levels are presented in Table 2. The average horizontal gradient is approximately 0.072 ft/ft.

Hydraulic conductivities (K) were based on slug test values from the *Design Hydrogeologic Report* submitted in April 2004. An effective porosity of 16% was used to estimate average linear groundwater flow velocities. Linear groundwater flow velocities for wells screened in saprolite were computed using the following modified Darcy equation:

$$V = Ki/n_e$$

where V = average linear velocity (feet per day), K = hydraulic conductivity (ft/day), i = horizontal hydraulic gradient, and n_e = effective porosity.

Based on calculations from the most recent sampling event, the average estimated linear groundwater flow velocity for the site is approximately 0.25 ft/day (Table 2). This falls within the range of historical estimates for groundwater flow velocities at this site. The linear velocity equation and resulting rates make the simplified assumptions of a homogeneous and isotropic aquifer. This equation can over-estimate velocities when applied to heterogeneous and/or anisotropic conditions such as are believed to exist at this site. The regolith and fractured bedrock common in Piedmont terrain are characteristically heterogeneous. Site boring logs record that regolith sampled at the site commonly exhibits relict foliation. These structures can result in locally anisotropic groundwater flow directions. Although the regolith and bedrock are hydraulically connected, the effective porosity generally decreases with depth into the underlying fractured bedrock.

5.0 DATA ANALYSIS AND STATISTICAL RESULTS

Results from the June 2010 sampling and September 2010 resampling events were received from RAL and are found in Appendix 2. There were no statistically significant increases of organic or inorganic constituents detected during the sampling events.

Statistical comparisons of baseline monitoring data to compliance data are part of the required compliance demonstration (Rule .1632(g), (h), and (i)). Background data and statistical methods used to evaluate the data from the Subtitle D Landfill are discussed below.

5.1 Statistical Methods

The background data for inorganic constituents were evaluated using the Shapiro-Wilk Test, Parametric Prediction Limits, Parametric Tolerance Intervals, Aitchison's Adjustment, Non-Parametric Prediction Limits, and Poisson Prediction Limits as appropriate. Background data,

tests for normality, outliers, Aitchison's adjustment, tolerance interval, or prediction limits are used, as appropriate based on the background data. The statistical test by which downgradient data are compared to facility background data is based upon the nature of the data and the number of data values that are less than the laboratory limit of detection. All statistical tests are evaluated at the 0.05 level of significance, 95% confidence level, and are conducted as one-tailed tests. Detailed results of each statistical analysis are presented in the *Statistical Analyses* section.

5.2 Statistical Results

Statistical background values were calculated using data from historical semiannual sampling events at the facility through this event. A summary of the June 2010 statistical background calculations are provided below in the following table. Detailed results of statistical analyses can be found in Appendix 1. Monitoring well MW-2R is designated as the background well for the facility. All available data from previous background well MW-2 and data from replacement well MW-2R have been included in the background data pool for the facility. Background data has also been included from MW-17 and MW-18 into the data pool beginning with the April 2004 sampling event and ending with the October 2005 sampling event.

Constituent	Data Distribution	Statistical Method used to Establish Background	Background Concentration	Noted Increased
Barium	N/A	Non-Parametric Prediction Interval	850	None
Lead	N/A	Non-Parametric Prediction Interval	106	None
Silver	N/A	Upper Poisson Prediction Limit	40	None
Vanadium	N/A	Non-Parametric Prediction Interval	205	None
Zinc	N/A	Non-Parametric Prediction Interval	995	None

1. Concentrations are in micrograms per liter (µg/L)
2. N/A = Not Applicable

Background concentrations for inorganic constituents were determined using statistical procedures as discussed in **Section 5.1**. There were no statistically significant increases above background levels in any downgradient monitoring wells.

5.3 Analytical Results for Groundwater and Comparison to Standards

The following inorganic and organic constituents were detected in groundwater during the June 2010 sampling event. All concentrations are reported in micrograms per liter (µg/L). Concentrations with a "J" are considered to be estimated. Concentrations with a "B" are considered to be attributed to lab or field contamination. Highlighted groundwater data was detected above the NC2L Groundwater Standards (NC2L) or Groundwater Protection Standards (GWPS).

Constituent	NC 2L /GWPS*	Background	Downgradient						Blanks
		MW-2R	MW-6	MW-7	MW-9	MW-12D	MW-17	MW-18	
Antimony	1.4*	5.0 B	1.7 B	13.0	1.0 B	5.6 B	5.6 B (3.2B)	1.1 B	1.8 J
Antimony Resample	1.4*	NS	NS	ND	NS	NS	NS	NS	ND
Barium	700	4.8 B	118	507	62.2 J	7.8 B	49.7 J (55.3 J)	55.4 J	1.7 J
Beryllium	4*	ND	0.3 J	ND	ND	ND	ND (ND)	0.3 J	ND
Cadmium	2	ND	0.4 J	0.6 J	0.3 J	0.5 J	ND (0.2 J)	0.8 J	ND
Chromium	10	ND	2.8 J	ND	ND	3.0 J	2.3 J (1.5 J)	1.5 J	ND
Cobalt	70*	ND	4.0 J	0.9 J	ND	ND	ND (1.2 J)	2.8 J	ND
Copper	1,000	ND	4.5 J	5.2 J	2.0 J	9.3 J	2.3 J (2.3 J)	5.3 J	ND
Lead	15	ND	8.8 J	3.7 B	3.1 B	1.6 B	ND (2.3 B)	4.4 B	1.3 J
Nickel	100	ND	ND	2.2 J	2.3 J	ND	ND (ND)	ND	ND
Silver	20	ND	ND	ND	ND	26.4	ND (ND)	ND	ND
Silver Resample	20	NS	NS	NS	NS	0.11 J	NS	NS	ND
Thallium	0.28*	ND	ND	4.3 J	ND	3.5 J	ND (ND)	ND	ND
Vanadium	3.5*	ND	5.6 J	1.6 J	ND	26.3	ND (1.3 J)	1.7 J	ND
Vanadium Resample	3.5*	NS	NS	NS	NS	11.5 J	NS	NS	ND
Zinc	1,000	ND	25.4	66.5	37.0	15.4 B	21.8 B (28.4)	33.5	4.9 J
Benzene	1	ND	ND	ND	ND	0.6 J	ND	ND	ND

1. ND = Not detected above laboratory detection limits.
2. NS = Not sampled
3. Parentheses indicate duplicate data.

Antimony was detected above the GWPS in monitoring well MW-7. The September 2010 resampling event did not confirm this detection. Silver and vanadium were detected above their respective standards in monitoring well MW-12D. The September 2010 resampling event did not confirm the exceedences. In general, the results are consistent with historical data. Historical groundwater data can be found in Table 3 and field parameters can be found in Table 4. The results, as reported by the laboratory, the laboratory quality assurance/quality control information, and the chain of custody records, are included in the Appendix 2.

5.4 Analytical Results for Leachate

The following inorganic and organic constituents were detected in leachate during the June 2010 sampling event. All concentrations are reported in micrograms per liter (µg/L). Concentrations with a "J" are considered to be estimated. Concentrations with a "B" are considered to be attributed to lab or field contamination.

Constituent	Leachate	Blanks
Antimony	1.2 B	1.8 J
Barium	55.8 J	1.7 J
Chromium	2.0 J	ND
Cobalt	9.1 J	ND
Copper	4.2 J	ND
Manganese	311	NA
Mercury	0.04 J	NA
Molybdenum	1.6 J	NA
Nickel	35.8 J	ND
Vanadium	1.2 J	ND
Zinc	46.2	4.9 J
Total Suspended Solids	5500	NA

1. ND = Not detected above laboratory detection limits.
2. NA = Not available.

The analytical results from the June 2010 leachate sampling event at the Roaring River Landfill are summarized in the Table 5. Leachate field parameters can be found in Table 6. The results, as reported by the laboratory, the laboratory quality assurance/quality control information, and the chain of custody records, are included in Appendix 2.

6.0 CONCLUSION

There were no statistically significant increases or exceedence of groundwater standards of quantified detections in downgradient monitoring wells. Based on analytical results from the June 2010 sampling event, Roaring River Landfill will remain in Detection Monitoring. The next scheduled semiannual sampling event is scheduled for the fourth quarter of 2010.

7.0 REFERENCES

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Tables

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TABLE 1

SUMMARY OF HISTORICAL GROUNDWATER ELEVATIONS

Location	Background		Downgradient									
	MW-2	**MW-2R**	**MW-5**	**MW-6**	**MW-7**	**MW-8**	**MW-9**	**MW-10**	**MW-12S**	**MW-12D**	**MW-17**	**MW-18**
TOC Elevation	1115.00	1118.10	996.15	981.01	984.08	984.46	971.89	1024.10	1052.79	1052.89	986.68	1026.49
Well Depth	81.50	116.00	38.11	37.60	41.77	58.50	37.57	76.75	104.00	134.00	24.63	46.85
Oct-94	1042.13	NI	966.74	949.27	947.37	948.60	943.17	NI	NI	NI	NI	NI
Apr-95	1042.19	NI	966.73	949.01	946.65	948.07	943.08	NI	NI	NI	NI	NI
Oct-95	1041.70	NI	967.05	948.73	946.67	947.85	943.24	NI	NI	NI	NI	NI
Apr-96	1043.10	NI	968.15	950.20	947.21	948.46	943.34	NI	NI	NI	NI	NI
Nov-96	1040.56	NI	967.40	949.28	946.75	947.96	943.36	NI	NI	NI	NI	NI
Mar-97	1041.55	NI	968.14	951.06	947.61	948.99	944.23	NI	NI	NI	NI	NI
Sep-97	1039.38	NI	966.55	948.88	947.07	951.62	943.81	NI	NI	NI	NI	NI
Mar-98	1037.72	NI	969.55	949.61	946.98	948.34	944.19	NI	NI	NI	NI	NI
Sep-98	1042.12	NI	967.92	950.09	947.36	948.57	943.43	956.95	NI	NI	NI	NI
Oct-98	1040.53	NI	967.13	948.76	946.77	947.98	943.37	956.08	NI	NI	NI	NI
Nov-98	1039.10	NI	966.53	947.76	946.33	947.68	943.64	955.13	NI	NI	NI	NI
Dec-98	1038.41	NI	966.20	947.24	946.08	947.35	942.29	954.56	NI	NI	NI	NI
Feb-99	1036.80	NI	968.43	947.79	946.31	947.61	943.77	953.18	NI	NI	NI	NI
Apr-99	Dry	NI	967.89	948.44	946.36	947.61	943.34	952.93	NI	NI	NI	NI
Sep-99	Dry	NI	965.54	946.43	945.33	946.50	942.86	NA	NI	NI	NI	NI
Apr-00	Dry	NI	965.71	945.72	945.34	947.85	943.31	951.29	958.39	958.38	NI	NI
Sep-00	Dry	NI	964.15	945.49	945.20	946.52	943.43	949.79	956.37	956.58	NI	NI
Mar-01	Dry	NI	964.30	944.87	944.86	946.21	943.49	948.39	954.38	954.56	NI	NI
Oct-01	Dry	NI	960.32	944.79	944.15	945.46	943.49	947.56	954.05	953.23	NI	NI
Apr-02	Dry	1018.99	961.64	946.59	944.28	945.71	943.38	947.40	952.78	949.37	NI	NI
Nov-02	AB	1032.21	961.81	946.92	943.07	946.25	943.90	947.40	949.98	946.52	NI	NI
May-03	AB	1037.34	964.50	951.47	946.87	948.19	944.07	947.43	951.89	944.49	NI	NI
Nov-03	AB	1041.84	962.60	950.27	946.77	948.05	943.42	948.66	955.89	954.78	NS	NS
Apr-04	AB	1041.41	963.52	948.59	946.70	947.51	943.88	948.54	954.92	954.11	967.57	995.90
Oct-04	AB	1041.53	962.11	947.33	945.43	945.76	943.68	950.62	954.06	954.41	967.30	995.49
May-05	AB	1041.82	963.19	949.53	946.57	946.85	943.96	948.89	954.14	954.73	967.46	987.81
Oct-05	AB	1042.35	960.87	945.83	945.05	945.27	943.51	948.62	954.36	953.60	967.19	993.87
29-Jun-06	AB	1030.65	958.18	943.61	944.08	944.52	946.31	948.21	952.45	952.55	963.04	991.49
07-Dec-06	AB	1039.79	959.85	Dry	944.43	944.76	943.76	Dry	951.34	951.34	Dry	992.24
28-Jun-07	AB	1040.52	959.61	Dry	944.40	944.82	942.93	947.61	951.35	951.38	966.53	979.73
19-Dec-07	AB	1038.71	958.68	Dry	942.46	942.74	941.34	947.61	949.72	930.89	966.68	979.73
28-Apr-08	AB	1067.25	959.42	Dry	942.67	943.02	941.66	947.42	949.95	949.97	966.79	993.45
30-Dec-08	AB	1037.69	958.27	Dry	942.39	NS	942.20	947.41	950.11	944.41	967.03	990.66
24-Jun-09	AB	1038.56	958.47	946.16	944.79	NS	944.39	947.57	951.65	943.56	962.69	994.60
16-Dec-09	AB	1041.43	960.52	950.67	952.89	NS	944.70	947.37	952.90	940.66	967.30	996.27
22-Jun-10	AB	1045.29	959.14	950.08	946.27	NS	944.20	947.61	955.62	936.47	966.86	995.72

Notes:

1. Dry = Monitoring well was considered to be dry and no water level measured.
2. AB = Monitoring well was abandoned.
3. NI = Monitoring well was not installed.
4. NS = Monitoring well was not sampled.
5. NA = Not available.

TABLE 2

ESTIMATED HYDRAULIC GRADIENTS AND AVERAGE LINEAR VELOCITIES

GRADIENT CALCULATION SEGMENT	FLOW LINE LENGTH (feet)	FLOW DIRECTION	June 2010				
			GROUNDWATER ELEVATION (feet)	HORIZONTAL GRADIENT i (ft/ft)	HYDRAULIC CONDUCTIVITY K (ft/day)	EFFECTIVE POROSITY n	LINEAR VELOCITY V (ft/day)
i_1	858	W-SW	1030 970	0.070	5.5E-01	0.16	0.24
i_2	1365	S-SW	1030 950	0.059	5.5E-01	0.16	0.20
i_3	1039	S-SE	1040 950	0.087	5.5E-01	0.16	0.30
			Average	0.072		Average	0.25

Notes:

1. Linear flow velocities in plain type = Ki/n_e.
2. Effective porosity is based on average specific yields calculated using the Johnson (1967) textural classification triangle from the Design Hydrogeologic Report and Groundwater Monitoring Plan prepared by Joyce Engineering, Inc. in April 2004.
3. Hydraulic conductivity is based on a geomean of individual well slug tests performed for wells at the site.
4. Gradient calculation segments were obtained from Drawing No. 1.

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS

Constituent	Date	DL	RL	Background: MW-2	Background: MW-2R	Downgradient: MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-12S	MW-12D	MW-17	MW-18	Blanks
				Concentration in (µg/L)												
Antimony	28-Jun-07	1.2	6.0	AB	ND	ND	Dry	ND	ND	ND	Dry	Dry	2.4 B (2.9 B)	ND	Dry	4.5
GWPS = 1.4 µg/L (10/23/07)	19-Dec-07	1.2	6.0	AB	2.0 J	Dry	Dry	Dry	ND	ND (1.2 J)	Dry	Dry	3.1 J	ND	Dry	ND
	28-Apr-08	1.2	6.0	AB	ND	ND	Dry	Dry	ND (ND)	ND	Dry	Dry	1.3 J	ND	ND	ND
	30-Dec-08	1.2	6.0	AB	ND	Dry	Dry	Dry	NS	ND (ND)	Dry	NS	ND	ND	ND	ND
	24-Jun-09	1.2	6.0	AB	3.2 B	Dry	1.9 B	ND	NS	1.6 B	Dry	NS	2.4 (4.6 B) B	Dry	1.6 B	3.1 J
	16-Dec-09	1.2	6.0	AB	1.8 B	NS	ND	ND	NS	3.9 (ND) B	Dry	NS	ND	1.9 B	ND	1.4 J
	22-Jun-10	1.2	6.0	AB	5.0 B	NS	1.7 B	13.0	NS	1.0 B	Dry	NS	5.6 B	5.6 (3.2 B) B	1.1 B	1.8 J
Resample	14-Sep-10	2.6	6.0	AB	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	ND
Arsenic	24-Jun-09	5.5	10.0	AB	ND	Dry	ND	ND	NS	ND	Dry	NS	5.6 (ND) J	Dry	ND	ND
NC 2L = 50 µg/L (10/23/07)	16-Dec-09	5.5	10.0	AB	ND	NS	ND	ND	NS	ND (ND)	Dry	NS	ND	Dry	ND	ND
NC 2L = 10 µg/L (1/01/10)	22-Jun-10	5.5	10.0	AB	ND	NS	ND	ND	NS	ND	Dry	NS	ND	ND (ND)	ND	ND
Barium	Apr-94	NR	250	398	NI	ND	444	3480	ND	1600	NI	NI	NI	NI	NI	NA
	Oct-94	NR	500	850	NI	ND	ND	ND	ND	ND	NI	NI	NI	NI	NI	NA
	Apr-95	NR	500	730	NI	ND	ND	701	ND	516	NI	NI	NI	NI	NI	NA
	Oct-95	NR	500	ND	NI	ND	ND	1630	ND	ND	NI	NI	NI	NI	NI	NA
	Apr-96	NR	500	ND	NI	ND	ND	1650	ND	ND	NI	NI	NI	NI	NI	NA
	Nov-96	NR	500	ND	NI	ND	ND	1660	ND	ND	NI	NI	NI	NI	NI	ND
	Mar-97	NR	500	ND	NI	ND	ND	1440	ND	ND	NI	NI	NI	NI	NI	ND
	Sep-97	NR	500	ND	NI	ND	ND	745	ND	ND	NI	NI	NI	NI	NI	ND
	Mar-98	NR	500	508	NI	ND	ND	937	ND	ND	NI	NI	NI	NI	NI	ND
	Sep-98	NR	500	ND	NI	ND	ND	ND	ND	ND	NS	NI	NI	NI	NI	ND
	Mar-99	NR	500	NS	NI	ND	ND	ND	ND	ND	NS	NI	NI	NI	NI	ND
	Sep-99	NR	500	NS	NI	ND	ND	ND	ND	ND	NS	NI	NI	NI	NI	ND
	Apr-00	NR	500	NS	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	Sep-00	NR	500	NS	NI	ND	665	ND	ND	ND	ND	ND	ND	NI	NI	ND
	Mar-01	NR	500	NS	NI	ND	ND	ND	ND	ND	NS	ND (ND)	ND	NI	NI	ND
	Jun-01	NR	500	NS	NI	NS	NS	NS	NS	NS	NS	NS	ND	NI	NI	NA
	Oct-01	NR	500	NS	NI	ND	ND	526	ND	ND	NS	ND	ND	NI	NI	ND
	Apr-02	NR	500	AB	ND	ND	ND	554	ND	ND	NS	NS	ND (ND)	NI	NI	ND
	Nov-02	NR	500	AB	ND	ND	ND	NS	ND	ND	NS	NS	ND	NI	NI	ND
	May-03	NR	500	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	NI	NI	ND
	Nov-03	NR	500	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	NS	NS	ND
	Apr-04	NR	500	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	May-04	NR	500	AB	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	ND
	Oct-04	NR	500	AB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	May-05	NR	500	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	Oct-05	NR	500	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	29-Jun-06	NR	500	AB	ND	Dry	Dry	563	ND	ND	NS	Dry	ND	ND	649	ND
	07-Dec-06	NR	100	AB	ND	ND	Dry	ND	ND	ND	Dry	Dry	ND	Dry	ND	ND
	28-Jun-07	1.1	100	AB	11.2 B	139	Dry	560	9.8 B	58.4 J	Dry	Dry	12.3 B (16.5 B)	118	Dry	5.1
NC 2L = 2,000 µg/L (10/23/07)	19-Dec-07	1.1	100	AB	7.6 B	Dry	Dry	Dry	9.8 B	60.5 (60.3 B) B	Dry	Dry	3.0 B	104 B	Dry	24.9 J
	28-Apr-08	1.1	100	AB	11.7 B	221	Dry	Dry	6.6 (13.5 B) B	47.5 B	Dry	Dry	7.6 B	90.1 B	204	33.2 J
	30-Dec-08	1.1	100	AB	12.9 J	Dry	Dry	Dry	NS	430 (448)	Dry	NS	11.2 J	86.5 J	601	1.2 J
	24-Jun-09	1.1	100	AB	9.2 B	Dry	101	344	NS	154	Dry	NS	9.2 (6.0 B) B	Dry	56.3 J	9.2 J
	16-Dec-09	1.1	100	AB	7.7 B	NS	57.5 J	308	NS	103 (103)	Dry	NS	8.1 B	55.6 J	68.1 J	3.5 J
NC 2L = 700 µg/L (1/01/10)	22-Jun-10	1.1	100	AB	4.8 B	NS	118	507	NS	62.2 J	Dry	NS	7.8 B	49.7 (55.3 J) J	55.4 J	1.7 J
Beryllium	Apr-94	NR	5	ND	NI	ND	ND	ND	ND	ND	NI	NI	NI	NI	NI	AB
	Oct-94	NR	2	28	NI	ND	ND	6	ND	4	NI	NI	NI	NI	NI	AB
	Apr-95	NR	2	6	NI	3	2	2	ND	6	NI	NI	NI	NI	NI	AB
	Oct-95	NR	2	2	NI	4	2	4	ND	2	NI	NI	NI	NI	NI	AB
	Apr-96	NR	2	ND	NI	5	3	5	3	3	NI	NI	NI	NI	NI	AB
	Nov-96	NR	2	4	NI	4	ND	4	ND	3	NI	NI	NI	NI	NI	ND
	Mar-97	NR	2	ND	NI	3	ND	3	ND	ND	NI	NI	NI	NI	NI	ND
	Sep-97	NR	2	13	NI	4	ND	4	ND	ND	NI	NI	NI	NI	NI	ND
	Mar-98	NR	2	8	NI	ND	ND	ND	ND	ND	NI	NI	NI	NI	NI	ND
	Sep-98	NR	2	4	NI	ND	ND	ND	ND	ND	NS	NI	NI	NI	NI	ND
	Mar-99	NR	2	NS	NI	ND	ND	ND	ND	ND	NS	NI	NI	NI	NI	ND
	Sep-99	NR	2	NS	NI	ND	ND	ND	ND	ND	NS	NI	NI	NI	NI	ND
	Apr-00	NR	2	NS	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	Sep-00	NR	2	NS	NI	ND	ND	ND	ND	ND	ND	ND	7 (ND)	NI	NI	ND
	Mar-01	NR	2	NS	NI	ND	NS	ND	ND	ND	NS	ND (ND)	ND	NI	NI	ND
	Oct-01	NR	2	NS	NI	ND	NS	ND	ND	ND	NS	ND	ND	NI	NI	ND
	Apr-02	NR	2	AB	ND	ND	NS	ND	ND	ND	NS	NS	ND (ND)	NI	NI	ND
	Nov-02	NR	2	AB	ND	ND	NS	NS	ND	ND	NS	NS	ND	NI	NI	ND
	May-03	NR	2	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	NI	NI	ND
	Nov-03	NR	2	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	NS	NS	ND
	Apr-04	NR	2	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	May-04	NR	2	AB	ND	ND	NS	NS	ND	NS	NS	NS	NS	NS	NS	ND
	Oct-04	NR	2	AB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	May-05	NR	2	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	Oct-05	NR	2	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	29-Jun-06	NR	2	AB	ND	Dry	Dry	ND	ND	ND	NS	Dry	ND	ND	5	ND
	07-Dec-06	NR	1	AB	ND	ND	Dry	ND	ND	ND	Dry	Dry	ND	Dry	ND	ND
	28-Jun-07	0.2	1.0	AB	ND	ND	Dry	ND	ND	ND	Dry	Dry	ND	ND	Dry	ND
GWPS = 4 µg/L (10/23/07)	19-Dec-07	0.2	1.0	AB	ND	Dry	Dry	Dry	ND	0.3 (ND) J	Dry	Dry	ND	ND	Dry	ND
	28-Apr-08	0.2	1.0	AB	ND	ND	Dry	Dry	ND (ND)	ND	Dry	Dry	ND	0.3 J	1.5	ND
	30-Dec-08	0.2	1.0	AB	0.6 J	Dry	Dry	Dry	NS	0.4 (1.6) J	Dry	NS	ND	0.3 J	3.0	ND
	24-Jun-09	0.2	1.0	AB	ND	Dry	0.5 J	ND	NS	1.4	Dry	NS	ND (ND)	Dry	0.3 J	ND
	16-Dec-09	0.2	1.0	AB	ND	NS	ND	ND	NS	0.6 (0.5 J) J	Dry	NS	ND	0.2 J	0.5 J	ND
	22-Jun-10	0.2	1.0	AB	ND	NS	0.3 J	ND	NS	ND	Dry	NS	ND	ND (ND)	0.3 J	ND
Cadmium	Apr-94	NR	2	2	NI	ND	ND	ND	ND	ND	NI	NI	NI	NI	NI	NA
	Oct-94	NR	1	2	NI	ND	1	ND	ND	ND	NI	NI	NI	NI	NI	NA
	Apr-95	NR	1	ND	NI	ND	ND	ND	ND	ND	NI	NI	NI	NI	NI	NA
	Oct-95	NR	1	2	NI	1	1	ND	ND	1	NI	NI	NI	NI	NI	NA
	Apr-96	NR	1	12	NI	1	2	4	ND	3	NI	NI	NI	NI	NI	NA
	Nov-96	NR	1	17	NI	3	2	9	ND	7	NI	NI	NI	NI	NI	ND
	Mar-97	NR	1	18	NI	2	8	12	ND	5	NI	NI	NI	NI	NI	ND
	Sep-97	NR	1	13	NI	12	ND	3	1	1	NI	NI	NI	NI	NI	ND
	Mar-98	NR	1	2	NI	ND	ND	ND	3	ND	NI	NI	NI	NI	NI	ND
	Sep-98	NR	1	2	NI	ND	ND	ND	ND	ND	NS	NI	NI	NI	NI	ND
	Mar-99	NR	1	NS	NI	ND	ND	ND	ND	ND	NS	NI	NI	NI	NI	ND
	Sep-99	NR	1	NS	NI	3.7	ND	ND	ND	ND	NS	NI	NS	NI	NI	ND
	Apr-00	NR	1	NS	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	Sep-00	NR	1	NS	NI	ND	2	ND	ND	3	2	4	4 (ND)	NI	NI	ND
	Mar-01	NR	1	NS	NI	ND	ND	ND	ND	ND	NS	ND	ND	NI	NI	ND
	Oct-01	NR	1	NS	NI	3	ND	2	ND	2	NS	1	1	NI	NI	ND
	Apr-02	NR	1	AB	2	ND	ND	ND	ND	ND	NS	NS	ND (ND)	NI	NI	ND
	Nov-02	NR	1	AB	ND	ND	ND	NS	ND	ND	NS	NS	3	NI	NI	ND
	May-03	NR	1	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	NI	NI	ND
	Nov-03	NR	1	AB	ND	ND	ND	ND	ND	ND	NS	ND	24	NS	NS	ND
	Jan-04	NR	1	AB	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	ND
	Apr-04	NR	1	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	May-04	NR	1	AB	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	ND
	Oct-04	NR	1	AB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	May-05	NR	1	AB	1	ND	ND	ND	ND	ND	NS	ND	1	ND	ND	ND
	Oct-05	NR	1	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	29-Jun-06	NR	1	AB	ND	Dry	Dry	ND	ND	ND	NS	Dry	ND	ND	6	ND
	07-Dec-06	NR	1	AB	ND	ND	Dry	ND	ND	ND	Dry	Dry	ND	Dry	ND	ND
	28-Jun-07	0.2	1.0	AB	ND	ND	Dry	ND	ND	ND	Dry	Dry	ND (0.3 J)	ND	Dry	ND
NC 2L = 1.75 µg/L (10/23/07)	19-Dec-07	0.2	1.0	AB	0.2 J	Dry	Dry	Dry	1.4	ND (1.3)	Dry	Dry	1.2	0.6 J	Dry	ND
	28-Apr-08	0.2	1.0	AB	ND	ND	Dry	Dry	ND (ND)	ND	Dry	Dry	0.5 J	ND	0.2 J	ND
	30-Dec-08	0.2	1.0	AB	1.7 B	Dry	Dry	Dry	NS	1.7 (1.3 B) B	Dry	NS	1.2 B	0.5 B	0.3 B	0.6 J
	24-Jun-09	0.2	1.0	AB	ND	Dry	0.3 B	0.3 B	NS	0.7 B	Dry	NS	6.6 (15.9)	Dry	0.8 B	0.2 J
Resample	24-Sep-09	0.50	1.0	AB	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	ND
	16-Dec-09	0.20	1.0	AB	ND	NS	ND	ND	NS	ND (ND)	Dry	NS	ND	ND	ND	ND
NC 2L = 2 µg/L (1/01/10)	22-Jun-10	0.2	1.0	AB	ND	NS	0.4 J	0.6 J	NS	0.3 J	Dry	NS	0.5 J	ND (0.2 J)	0.8 J	ND

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS

Constituent	Date	DL	RL	Concentration in (µg/L)												Blanks
				Background		Downgradient										
				MW-2	MW-2R	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-12S	MW-12D	MW-17	MW-18	
Chromium	Apr-94	NR	20	48	NI	ND	ND	ND	ND	57	NI	NI	NI	NI	NI	NA
	Oct-94	NR	10	406	NI	ND	ND	25	ND	26	NI	NI	NI	NI	NI	NA
	Apr-95	NR	10	248	NI	14	10	18	ND	64	NI	NI	NI	NI	NI	NA
	Oct-95	NR	10	10	NI	22	141	34	ND	34	NI	NI	NI	NI	NI	NA
	Apr-96	NR	10	160	NI	20	23	32	ND	32	NI	NI	NI	NI	NI	NA
	Nov-96	NR	10	175	NI	27	17	40	ND	46	NI	NI	NI	NI	NI	ND
	Mar-97	NR	10	116	NI	10	46	35	11	23	NI	NI	NI	NI	NI	ND
	Sep-97	NR	10	127	NI	37	ND	14	ND	ND	NI	NI	NI	NI	NI	ND
	Mar-98	NR	10	40	NI	ND	ND	ND	ND	ND	NI	NI	NI	NI	NI	ND
	Sep-98	NR	10	42	NI	ND	ND	ND	ND	ND	NS	NI	NI	NI	NI	ND
	Mar-99	NR	10	NS	NI	ND	ND	ND	ND	11	NS	NI	NI	NI	NI	ND
	Sep-99	NR	10	NS	NI	ND	ND	ND	ND	ND	NS	NI	NI	NI	NI	ND
	Apr-00	NR	10	NS	NI	ND	14	ND	ND	ND	14	23	32 (58)	NI	NI	ND
	Sep-00	NR	10	NS	NI	ND	15	ND	ND	11	13	19	32 (26)	NI	NI	ND
	Jun-01	NR	10	NS	NI	NS	NS	NS	NS	NS	NS	NS	15	NI	NI	NA
	Oct-01	NR	10	NS	NI	ND	NS	ND	ND	ND	NS	16	42	NI	NI	ND
	Apr-02	NR	10	AB	ND	ND	NS	10	ND	21	NS	NS	14 (14)	NI	NI	ND
	Nov-02	NR	10	AB	ND	ND	NS	NS	ND	ND	NS	NS	ND	NI	NI	ND
	May-03	NR	10	AB	ND	13	17	ND	ND	ND	NS	34	ND	NI	NI	ND
	Nov-03	NR	10	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	NS	NS	ND
	Apr-04	NR	10	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	May-04	NR	10	AB	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	ND
	Oct-04	NR	10	AB	ND	ND	ND	ND	ND	ND	12	ND	ND	ND	ND	ND
	May-05	NR	10	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	Oct-05	NR	10	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	29-Jun-06	NR	10	AB	ND	Dry	Dry	ND	ND	ND	NS	Dry	ND	ND	23	ND
	07-Dec-06	NR	10	AB	ND	ND	Dry	ND	ND	ND	Dry	Dry	ND	Dry	ND	ND
	28-Jun-07	0.70	10.0	AB	1.1 B	2.9 B	Dry	2.7 B	2.9 B	1.3 B	Dry	Dry	3.0 B (3.4 B)	5.0 B	Dry	5.2
NC 2L = 50 µg/L (10/23/07)	19-Dec-07	0.7	10.0	AB	ND	Dry	Dry	Dry	ND	1.6 (1.8 J) J	Dry	Dry	0.8 J	2.2 J	Dry	ND
	28-Apr-08	0.7	10.0	AB	ND	14	Dry	Dry	ND (ND)	1.0 B	Dry	Dry	1.4 B	2.6 B	7.0 B	2.0 J
	30-Dec-08	0.7	10.0	AB	2.3 J	Dry	Dry	Dry	NS	3.6 (5.4 J) J	Dry	NS	1.5 J	2.3 J	14.0	ND
	24-Jun-09	0.7	10.0	AB	1.1 J	Dry	1.8 J	1.7 J	NS	0.8 J	Dry	NS	1.9 (0.8 J) J	Dry	1.3	ND
	16-Dec-09	0.7	10.0	AB	0.9 J	NS	1.6 J	1.5 J	NS	1.8 (1.7 J) J	Dry	NS	2.1 J	1.6 J	3.4 J	ND
NC 2L = 10 µg/L (1/01/10)	22-Jun-10	0.7	10.0	AB	ND	NS	2.8 J	ND	NS	ND	Dry	NS	3.0 J	2.3 (1.5 J) J	1.5 J	ND
Cobalt	Apr-94	NR	50	68	NI	ND	ND	ND	ND	220	NI	NI	NI	NI	NI	NA
	Oct-94	NR	10	174	NI	ND	ND	ND	ND	32	NI	NI	NI	NI	NI	NA
	Apr-95	NR	10	148	NI	ND	ND	ND	ND	78	NI	NI	NI	NI	NI	NA
	Oct-95	NR	10	ND	NI	20	74	21	ND	53	NI	NI	NI	NI	NI	NA
	Apr-96	NR	10	78	NI	27	14	20	ND	48	NI	NI	NI	NI	NI	NA
	Nov-96	NR	10	93	NI	23	11	23	ND	67	NI	NI	NI	NI	NI	ND
	Mar-97	NR	10	60	NI	ND	24	23	ND	26	NI	NI	NI	NI	NI	ND
	Sep-97	NR	10	77	NI	24	ND	ND	ND	10	NI	NI	NI	NI	NI	ND
	Mar-98	NR	10	66	NI	11	ND	11	ND	14	NI	NI	NI	NI	NI	ND
	Sep-98	NR	10	57	NI	ND	ND	ND	ND	ND	NS	NI	NI	NI	NI	ND
	Mar-99	NR	10	NS	NI	ND	ND	ND	ND	ND	NS	NI	NI	NI	NI	ND
	Sep-99	NR	10	NS	NI	ND	ND	ND	ND	ND	NS	NS	NS	NI	NI	ND
	Apr-00	NR	10	NS	NI	23	14	ND	ND	16	16	61	12 (21)	NI	NI	ND
	Sep-00	NR	10	NS	NI	21	15	ND	ND	17	12	57	ND (ND)	NI	NI	ND
	Mar-01	NR	10	NS	NI	14	NS	ND	ND	11	NS	34 (47)	ND	NI	NI	ND
	Jun-01	NR	10	NS	NI	NS	NS	NS	NS	NS	NS	NS	ND	NI	NI	NA
	Oct-01	NR	10	NS	NI	ND	NS	ND	ND	ND	NS	49	ND	NI	NI	ND
	Apr-02	NR	10	AB	ND	ND	NS	ND	ND	12	NS	NS	ND (ND)	NI	NI	ND
	Nov-02	NR	10	AB	ND	13	NS	NS	ND	ND	NS	NS	ND	NI	NI	ND
	May-03	NR	10	AB	13	15	16	ND	ND	10	NS	68	ND	NI	NI	ND
	Nov-03	NR	10	AB	ND	ND	17	ND	ND	ND	NS	20	ND	NS	NS	ND
	Apr-04	NR	10	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	May-04	NR	10	AB	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	ND
	Oct-04	NR	10	AB	ND	ND	ND	ND	ND	ND	10	ND	ND	ND	ND	ND
	May-05	NR	10	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	Oct-05	NR	10	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	29-Jun-06	NR	10	AB	ND	Dry	Dry	ND	ND	ND	NS	Dry	ND	ND	18	ND
	07-Dec-06	NR	10	AB	ND	ND	Dry	ND	ND	ND	Dry	Dry	ND	Dry	ND	ND
	28-Jun-07	0.7	10.0	AB	ND	20.1	Dry	5.0 J	ND	1.3 J	Dry	Dry	1 .0 J (1.8 J)	2.7 J	Dry	ND
GWPS = 70 µg/L (10/23/07)	19-Dec-07	0.7	10.0	AB	ND	Dry	Dry	Dry	ND	2.8 (2.8 J) J	Dry	Dry	ND	1.3 J	Dry	ND
	28-Apr-08	0.7	10.0	AB	1.0 J	28.9	Dry	Dry	0.9 (ND) J	1.9 J	Dry	Dry	ND	1.6 J	8.3 J	ND
	30-Dec-08	0.7	10.0	AB	2.4 J	Dry	Dry	Dry	NS	4.3 (7.1 J) J	Dry	NS	ND	2.0 J	16.8	ND
	24-Jun-09	0.7	10.0	AB	ND	Dry	2.8 J	1.5 J	NS	2.2 J	Dry	NS	ND (ND)	Dry	1.4	ND
	16-Dec-09	0.7	10.0	AB	2.4 J	NS	1.4 J	1.2 J	NS	4.6 (3.0 J) J	Dry	NS	ND	ND	2.6 J	ND
	22-Jun-10	0.7	10.0	AB	ND	NS	4.0 J	0.9 J	NS	ND	Dry	NS	ND	ND (1.2 J)	2.8 J	ND
Copper	Apr-94	NR	10	85	NI	ND	28	31	ND	80	NI	NI	NI	NI	NI	NA
	Oct-94	NR	200	282	NI	ND	ND	ND	ND	ND	NI	NI	NI	NI	NI	NA
	Apr-95	NR	200	208	NI	ND	ND	ND	ND	ND	NI	NI	NI	NI	NI	NA
	Oct-95	NR	200	ND	NI	ND	ND	ND	ND	ND	NI	NI	NI	NI	NI	NA
	Apr-96	NR	200	ND	NI	ND	ND	ND	ND	ND	NI	NI	NI	NI	NI	NA
	Nov-96	NR	200	225	NI	ND	ND	ND	ND	ND	NI	NI	NI	NI	NI	ND
	Mar-97	NR	200	ND	NI	ND	ND	ND	ND	ND	NI	NI	NI	NI	NI	ND
	Sep-97	NR	200	ND	NI	ND	ND	ND	ND	ND	NI	NI	NI	NI	NI	ND
	Mar-98	NR	200	ND	NI	ND	ND	ND	ND	ND	NI	NI	NI	NI	NI	ND
	Sep-98	NR	200	ND	NI	ND	ND	ND	ND	ND	NS	NI	NI	NI	NI	ND
	Mar-99	NR	200	NS	NI	ND	ND	ND	ND	ND	NS	NI	NI	NI	NI	ND
	Sep-99	NR	200	NS	NI	ND	ND	ND	ND	ND	NS	NS	NS	NI	NI	ND
	Apr-00	NR	200	NS	NI	ND	ND	ND	ND	ND	ND	ND	ND (ND)	NI	NI	ND
	Sep-00	NR	200	NS	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	Mar-01	NR	200	NS	NI	ND	NS	ND	ND	ND	NS	ND (ND)	ND	NI	NI	ND
	Jun-01	NR	200	NS	NI	NS	NS	NS	NS	NS	NS	NS	ND	NI	NI	NA
	Oct-01	NR	200	NS	NI	ND	NS	ND	ND	ND	NS	ND	ND	NI	NI	ND
	Apr-02	NR	200	AB	ND	ND	NS	ND	ND	ND	NS	NS	ND (ND)	NI	NI	ND
	Nov-02	NR	200	AB	ND	ND	NS	NS	ND	ND	NS	NS	ND	NI	NI	ND
	May-03	NR	200	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	NI	NI	ND
	Nov-03	NR	200	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	NS	NS	ND
	Apr-04	NR	200	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	May-04	NR	200	AB	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	ND
	Oct-04	NR	200	AB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	May-05	NR	200	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	Oct-05	NR	200	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	29-Jun-06	NR	200	AB	ND	Dry	Dry	ND	ND	ND	NS	Dry	ND	ND	ND	ND
	07-Dec-06	NR	10	AB	ND	ND	Dry	ND	ND	ND	Dry	Dry	ND	Dry	ND	ND
	28-Jun-07	2.0	10.0	AB	7.6 B	9.2 B	Dry	7.6 B	9.1 B	4.7 B	Dry	Dry	15.8 B (16.3 B)	8.1 B	Dry	5.2
NC 2L = 1,000 µg/L (10/23/07)	19-Dec-07	2.0	10.0	AB	3.0 B	Dry	Dry	Dry	ND	2.1 (3.8 B) B	Dry	Dry	2.4 B	2.3 B	Dry	2.6 J
	28-Apr-08	2.0	10.0	AB	3.6 B	8.6 B	Dry	Dry	ND (4.0 B)	ND	Dry	Dry	4.4 B	3.2 B	16.8 B	5.8 J
	30-Dec-08	2.0	10.0	AB	5.9 J	Dry	Dry	Dry	NS	3.3 (3.1 J) J	Dry	NS	5.2 J	3.2 J	29.9	ND
	24-Jun-09	2.0	10.0	AB	2.0 B	Dry	3.1 B	3.0 B	NS	2.6 B	Dry	NS	6.2 (10.2 B) B	Dry	3.7 B	2.2 J
	16-Dec-09	2.0	10.0	AB	ND	NS	ND	1.7 J	NS	1.4 (ND) J	ND	NS	5.6 J	ND	ND	ND
	22-Jun-10	2.0	10.0	AB	ND	NS	4.5 J	5.2 J	NS	2.0 J	Dry	NS	9.3 J	2.3 (2.3 J) J	5.3 J	ND

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS

Constituent	Date	DL	RL	Concentration in (µg/L)												Blanks
				Background		Downgradient										
				MW-2	MW-2R	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-12S	MW-12D	MW-17	MW-18	
Lead	Apr-94	NR	5	38	NI	15	34	39	5	116	NI	NI	NI	NI	NI	NA
	Oct-94	NR	10	106	NI	ND	ND	22	ND	24	NI	NI	NI	NI	NI	NA
	Apr-95	NR	10	82	NI	14	ND	16	ND	48	NI	NI	NI	NI	NI	NA
	Oct-95	NR	10	12	NI	28	37	33	ND	30	NI	NI	NI	NI	NI	NA
	Apr-96	NR	10	38	NI	20	24	32	ND	28	NI	NI	NI	NI	NI	NA
	Nov-96	NR	10	46	NI	27	15	35	ND	37	NI	NI	NI	NI	NI	ND
	Mar-97	NR	10	32	NI	ND	45	31	ND	18	NI	NI	NI	NI	NI	ND
	Sep-97	NR	10	43	NI	37	12	26	ND	16	NI	NI	NI	NI	NI	ND
	Mar-98	NR	10	67	NI	ND	13	ND	ND	26	NI	NI	NI	NI	NI	ND
	Sep-98	NR	10	34	NI	ND	11	ND	ND	ND	NS	NI	NI	NI	NI	ND
	Mar-99	NR	10	NS	NI	ND	ND	ND	ND	ND	NS	NS	NS	NI	NI	ND
	Apr-00	NR	10	NS	NI	ND	17	ND	ND	ND	ND	24	14 (27)	NI	NI	ND
	Sep-00	NR	10	NS	NI	ND	27	ND	ND	10	ND	31	11 (7)	NI	NI	ND
	Mar-01	NR	10	NS	NI	ND	NS	ND	ND	ND	NS	11 (15)	ND	NI	NI	ND
	Jun-01	NR	10	NS	NI	NS	NS	NS	NS	NS	NS	NS	10	NI	NI	NA
	Oct-01	NR	10	NS	NI	ND	NS	ND	ND	ND	NS	24	ND	NI	NI	ND
	Apr-02	NR	10	AB	ND	ND	NS	ND	ND	ND	NS	NS	ND (ND)	NI	NI	ND
	Nov-02	NR	10	AB	ND	ND	NS	NS	ND	ND	NS	NS	ND	NI	NI	ND
	May-03	NR	10	AB	ND	ND	20	ND	ND	ND	NS	30	ND	NI	NI	ND
	Nov-03	NR	10	AB	ND	ND	21	ND	ND	ND	NS	11	ND	NS	NS	ND
	Apr-04	NR	10	AB	ND	ND	12	ND	ND	ND	NS	ND	ND	10	ND	ND
	May-04	NR	10	AB	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	ND
	Oct-04	NR	10	AB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	May-05	NR	10	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	Oct-05	NR	10	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	29-Jun-06	NR	10	AB	ND	Dry	Dry	ND	ND	ND	NS	Dry	ND	ND	34	ND
	07-Dec-06	NR	10	AB	ND	ND	Dry	ND	ND	ND	Dry	Dry	ND	Dry	ND	ND
	28-Jun-07	2.0	10.0	AB	ND	2.0 J	Dry	4.0 J	ND	ND	Dry	Dry	ND	1.9 J	Dry	ND
NC 2L = 15 µg/L (10/23/07)	19-Dec-07	2.0	10.0	AB	ND	Dry	Dry	Dry	2.3 J	2.9 (3.7 J) J	Dry	Dry	2.7 J	2.0 J	Dry	ND
	28-Apr-08	2.0	10.0	AB	2.0 B	10.2 B	Dry	Dry	1.7 (ND) B	3.4 B	Dry	Dry	3.1 B	4.8 B	11.5 B	3.8 J
	30-Dec-08	2.0	10.0	AB	5.2 J	Dry	Dry	Dry	NS	4.4 (6.0 J) J	Dry	NS	3.8 J	ND	26.8	ND
Resample	12-Mar-09	2.0	10.0	AB	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	20.8 B	5.2 J
	24-Jun-09	2.0	10.0	AB	ND	Dry	2.6 J	3.3 J	NS	3.8 J	Dry	NS	1.3 (2.4 J) J	Dry	ND	ND
	16-Dec-09	2.0	10.0	AB	ND	NS	3.4 J	ND	NS	ND (ND)	Dry	NS	ND	ND	8.3 J	ND
	22-Jun-10	2.0	10.0	AB	ND	NS	8.8 J	3.7 B	NS	3.1 B	Dry	NS	1.6 B	ND (2.3 B)	4.4 B	1.3 J
Nickel	Apr-94	NR	50	53	NI	ND	ND	ND	ND	65	NI	NI	NI	NI	NI	NA
	Oct-94	NR	50	323	NI	ND	ND	57	ND	ND	NI	NI	NI	NI	NI	NA
	Apr-95	NR	50	254	NI	ND	ND	ND	ND	94	NI	NI	NI	NI	NI	NA
	Oct-95	NR	50	ND	NI	ND	132	83	ND	58	NI	NI	NI	NI	NI	NA
	Apr-96	NR	50	150	NI	ND	ND	78	ND	56	NI	NI	NI	NI	NI	NA
	Nov-96	NR	50	180	NI	77	ND	100	ND	100	NI	NI	NI	NI	NI	ND
	Mar-97	NR	50	107	NI	ND	ND	55	ND	ND	NI	NI	NI	NI	NI	ND
	Sep-97	NR	50	129	NI	ND	ND	ND	ND	ND	NI	NI	NI	NI	NI	ND
	Mar-98	NR	50	ND	NI	ND	ND	ND	ND	ND	NI	NI	NI	NI	NI	ND
	Sep-98	NR	50	ND	NI	ND	ND	ND	ND	ND	NS	NI	NI	NI	NI	ND
	Sep-99	NR	50	NS	NI	ND	ND	ND	ND	ND	NS	NI	NI	NI	NI	ND
	Apr-00	NR	50	NS	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	Sep-00	NR	50	NS	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	Mar-01	NR	50	NS	NI	ND	NS	ND	ND	ND	NS	ND (ND)	ND	NI	NI	ND
	Jun-01	NR	50	NS	NI	NS	NS	NS	NS	NS	NS	NS	ND	NI	NI	NA
	Oct-01	NR	50	NS	NI	ND	NS	ND	ND	ND	NS	ND	ND	NI	NI	ND
	Apr-02	NR	50	AB	ND	ND	NS	ND	ND	ND	NS	NS	ND (ND)	NI	NI	ND
	Nov-02	NR	50	AB	ND	ND	NS	NS	ND	ND	NS	NS	ND	NI	NI	ND
	May-03	NR	50	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	NI	NI	ND
	Nov-03	NR	50	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	NS	NS	ND
	Apr-04	NR	50	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	May-04	NR	50	AB	NS	NS	NS	NS	ND	NS	NS	ND	NS	NS	NS	ND
	Oct-04	NR	50	AB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	May-05	NR	50	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	Oct-05	NR	50	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	29-Jun-06	NR	50	AB	ND	Dry	Dry	ND	ND	ND	NS	Dry	ND	ND	ND	ND
	07-Dec-06	NR	50	AB	ND	ND	Dry	ND	ND	ND	Dry	Dry	ND	Dry	ND	ND
	28-Jun-07	0.6	50.0	AB	1.8 B	8.2 B	Dry	5.6 B	3.0 B	4.0 B	Dry	Dry	4.3 B (4.5 B)	4.6 B	Dry	5.0
NC 2L = 100 µg/L (10/23/07)	19-Dec-07	0.6	50.0	AB	1.8 J	Dry	Dry	Dry	6.0 J	4.4 (6.8 J) J	Dry	Dry	ND	1.4 J	Dry	ND
	28-Apr-08	0.6	50.0	AB	1.0 B	8.9 B	Dry	Dry	ND (0.7 B)	2.1 B	Dry	Dry	3.2 B	1.4 B	8.0 B	1.9 J
	30-Dec-08	0.6	50.0	AB	2.2 B	Dry	Dry	Dry	NS	5.3 (7.6 J) J	Dry	NS	2.3 B	2.0 B	16.9 J	0.7 J
	24-Jun-09	0.6	50.0	AB	ND	Dry	1.6 B	1.5 B	NS	10.6 B	Dry	NS	1.2 (2.5 B) B	Dry	1.8 B	2.4 J
	16-Dec-09	0.6	50.0	AB	ND	NS	ND	1.0 B	NS	5.8 (5.2 J) J	Dry	NS	2.5 B	ND	2.5 B	0.7 J
	22-Jun-10	0.6	50.0	AB	ND	NS	ND	2.2 J	NS	2.3 J	Dry	NS	ND	ND (ND)	ND	ND
Silver	16-Dec-09	1.1	10.0	AB	1.1 J	NS	1.2 J	1.2 J	NS	ND (ND)	Dry	NS	ND	ND	1.8 J	ND
NC 2L = 20 µg/L (1/01/10)	22-Jun-10	1.1	10.0	AB	ND	NS	ND	ND	NS	ND	Dry	NS	26.4	ND (ND)	ND	ND
Resample	13-Sep-10	0.1	10.0	AB	NS	NS	NS	NS	NS	NS	NS	NS	0.11 J	NS	NS	ND
Thallium	28-Apr-08	2.7	5.5	AB	ND	ND	Dry	Dry	ND (ND)	ND	Dry	Dry	4.0 J	ND	ND	ND
GWPS = 0.28 µg/L (10/23/07)	30-Dec-08	2.7	5.5	AB	ND	Dry	Dry	Dry	NS	5.0 (4.5 B) B	Dry	NS	ND	ND	ND	2.4 J
	24-Jun-09	2.7	5.5	AB	ND	Dry	2.9 J	ND	NS	ND	Dry	NS	ND (ND)	Dry	ND	ND
	16-Dec-09	2.7	5.5	AB	ND	NS	ND	ND	NS	ND (ND)	Dry	NS	ND	ND	4.2 J	ND
	22-Jun-10	2.7	5.5	AB	ND	NS	ND	4.3 J	NS	ND	Dry	NS	3.5 J	ND (ND)	ND	ND
Vanadium	Apr-94	NR	80	ND	NS	ND	ND	ND	ND	ND	NI	NI	NI	NI	NI	NA
	Oct-94	NR	40	138	NS	ND	ND	ND	ND	ND	NI	NI	NI	NI	NI	NA
	Apr-95	NR	40	205	NS	ND	ND	89	ND	89	NI	NI	NI	NI	NI	NA
	Oct-95	NR	40	ND	NS	ND	122	150	ND	ND	NI	NI	NI	NI	NI	NA
	Apr-96	NR	40	148	NS	ND	50	147	ND	ND	NI	NI	NI	NI	NI	NA
	Nov-96	NR	40	156	NS	40	ND	184	ND	59	NI	NI	NI	NI	NI	ND
	Mar-97	NR	40	101	NS	ND	97	152	ND	ND	NI	NI	NI	NI	NI	ND
	Sep-97	NR	40	125	NS	49	ND	77	ND	ND	NI	NI	NI	NI	NI	ND
	Mar-98	NR	40	43	NS	ND	ND	42	ND	ND	NI	NI	NI	NI	NI	ND
	Sep-98	NR	40	44	NS	ND	ND	ND	ND	ND	NS	NI	NI	NI	NI	ND
	Mar-99	NR	40	NS	NS	ND	ND	ND	ND	ND	NS	NI	NI	NI	NI	ND
	Sep-99	NR	40	NS	NS	ND	ND	ND	ND	ND	NS	NI	NI	NI	NI	ND
	Apr-00	NR	40	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND (70)	NI	NI	ND
	Sep-00	NR	40	NS	NS	ND	41	ND	ND	ND	ND	ND	77 (ND)	NI	NI	ND
	Mar-01	NR	40	NS	NS	ND	NS	ND	ND	ND	NS	ND (ND)	ND	NI	NI	ND
	Jun-01	NR	40	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NI	NI	NA
	Oct-01	NR	40	NS	NS	ND	NS	ND	ND	ND	NS	ND	ND	NI	NI	ND
	Apr-02	NR	40	AB	ND	ND	NS	ND	ND	ND	NS	NS	ND (40)	NI	NI	ND
	Nov-02	NR	40	AB	ND	ND	NS	NS	ND	ND	NS	NS	49	NI	NI	ND
	May-03	NR	40	AB	ND	ND	47	ND	ND	ND	NS	58	41	NI	NI	ND
	Nov-03	NR	40	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	NS	NS	ND
	Apr-04	NR	40	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	May-04	NR	40	AB	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	ND
	Oct-04	NR	40	AB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	May-05	NR	40	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	Oct-05	NR	40	AB	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND
	29-Jun-06	NR	40	AB	ND	Dry	Dry	ND	ND	ND	NS	Dry	ND	ND	51	ND
	07-Dec-06	NR	25	AB	ND	ND	Dry	27	ND	ND	Dry	Dry	ND	Dry	ND	ND
	28-Jun-07	0.4	25.0	AB	ND	ND	Dry	17.4 J	ND	ND	Dry	Dry	27.7 (27.5)	7.6 J	Dry	ND
GWPS = 3.5 µg/L (10/23/07)	19-Dec-07	0.4	25.0	AB	2.3 J	Dry	Dry	Dry	ND	1.2 (1.8 J) J	Dry	Dry	9.0 J	3.3 J	Dry	ND
	28-Apr-08	0.4	25.0	AB	1.9 J	8.8 J	Dry	Dry	ND (ND)	0.5 J	Dry	Dry	12.5 J	5.2 J	14.2 J	ND
	30-Dec-08	0.4	25.0	AB	4.7 J	Dry	Dry	Dry	NS	7.0 (3.5 J) J	Dry	NS	9.6 J	4.9 J	32.1	ND
Resample	12-Mar-09	0.4	25.0	AB	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	20.4 J	ND
	24-Jun-09	0.4	25.0	AB	1.4 J	Dry	3.0 J	7.9 J	NS	ND	Dry	NS	15.7 (16.1 J) J	Dry	1.1 J	ND
	16-Dec-09	0.4	25.0	AB	1.6 B	NS	1.2 B	5.3 J	NS	1.1 (ND) B	Dry	NS	22.1 J	1.7 B	2.6 B	0.8 J
	22-Jun-10	0.4	25.0	AB	ND	NS	5.6 J	1.6 J	NS	ND	Dry	NS	26.3	ND (1.3 J)	1.7 J	ND
Resample	13-Sep-10	0.2	25.0	AB	NS	NS	NS	NS	NS	NS	NS	NS	11.5 J	NS	NS	ND

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS

Constituent	Date	Concentration in (µg/L)																												
		DL	RL	Background			Downgradient																							Blanks
				MW-2	MW-2R		MW-5		MW-6		MW-7		MW-8		MW-9		MW-10		MW-12S		MW-12D		MW-17		MW-18				
Zinc	Apr-94	NR	20	213	NI		54		114		597		62		678		NI		NI		NI		NI		NI				NA	
	Oct-94	NR	50	995	NI		ND		93		234		ND		211		NI		NI		NI		NI		NI				NA	
	Apr-95	NR	50	821	NI		106		52		160		ND		451		NI		NI		NI		NI		NI				NA	
	Oct-95	NR	50	ND	NI		162		384		359		ND		306		NI		NI		NI		NI		NI				NA	
	Apr-96	NR	50	622	NI		152		104		354		90		304		NI		NI		NI		NI		NI				NA	
	Nov-96	NR	50	546	NI		203		110		426		136		412		NI		NI		NI		NI		NI				ND	
	Mar-97	NR	50	313	NI		80		144		378		128		189		NI		NI		NI		NI		NI				ND	
	Sep-97	NR	50	382	NI		309		140		246		418		187		NI		NI		NI		NI		NI				ND	
	Mar-98	NR	50	267	NI		70		ND		162		246		57		NI		NI		NI		NI		NI				ND	
	Sep-98	NR	50	256	NI		130		121		174		108		123		NS		NI		NI		NI		NI				ND	
	Mar-99	NR	50	NS	NI		ND		ND		ND		ND		ND		NS		NI		NI		NI		NI				ND	
	Sep-99	NR	50	NS	NI		ND		ND		ND		ND		ND		NS		NI		NI		NI		NI				ND	
	Apr-00	NR	50	NS	NI		ND		ND		112		ND		77		ND		55		ND (64)		NI		NI				ND	
	Sep-00	NR	50	NS	NI		ND		111		ND		ND		53		ND		ND		ND		NI		NI				ND	
	Mar-01	NR	50	NS	NI		ND		NS		ND		ND		ND		NS		63 (92)		ND		NI		NI				ND	
	Jun-01	NR	50	NS	NI		NS		NS		NS		NS		NS		NS		NS		ND		NI		NI				NA	
	Oct-01	NR	50	NS	NI		59		NS		ND		ND		ND		NS		84		ND		NI		NI				ND	
	Apr-02	NR	50	AB	ND		ND		NS		141		ND		98		NS		NS		ND (ND)		NI		NI				ND	
	Nov-02	NR	50	AB	ND		62		NS		NS		ND		ND		NS		NS		ND		NI		NI				ND	
	May-03	NR	50	AB	ND		62		84		88		ND		71		NS		138		ND		NI		NI				ND	
	Nov-03	NR	50	AB	ND		58		ND		ND		ND		ND		NS		ND		ND		NS		NS				ND	
	Apr-04	NR	50	AB	ND		179		ND		73		ND		ND		NS		71		ND		ND		ND				ND	
	May-04	NR	50	AB	NS		NS		NS		NS		ND		NS		NS		NS		NS		NS		NS				ND	
	Oct-04	NR	50	AB	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND				ND	
	May-05	NR	50	AB	ND		ND		ND		65		ND		ND		NS		ND		ND		ND		50				ND	
	Oct-05	NR	50	AB	138		ND		ND		ND		ND		ND		NS		ND		ND		ND		ND				ND	
	29-Jun-06	NR	50	AB	ND		Dry		Dry		81		ND		ND		NS		Dry		ND		ND		200				ND	
	07-Dec-06	NR	10	AB	ND		ND		Dry		120		ND		43 (55)		Dry		Dry		ND		Dry		39				ND	
	28-Jun-07	2.7	10.0	AB	12.4		53.6		Dry		91.8		14.9		50.8		Dry		Dry		21.4 (27.7)		43.5		Dry				ND	
NC 2L = 1,050 µg/L (10/23/07)	19-Dec-07	2.7	10.0	AB	15.0	B	Dry		Dry		Dry		18.9	B	44.0 (59.0)		Dry		Dry		8.9	B	32.5		Dry				5.4 J	
	28-Apr-08	2.7	10.0	AB	15.5		52.1		Dry		Dry		40.8 (43.9)		ND		Dry		Dry		7.2	J	11.4		155				ND	
	30-Dec-08	2.7	10.0	AB	ND		Dry		Dry		Dry		NS		94.6 (82.6)		Dry		NS		19.6		25.8		163				ND	
	24-Jun-09	2.7	10.0	AB	45.5	B	Dry		19.8	B	60.7	B	NS		93.2	B	Dry		NS		54.5 (15.2 B)	B	Dry		61.6	B			61.8	
	16-Dec-09	2.7	10.0	AB	7.7	B	NS		14.5	B	35.4	B	NS		57.6 (50.7)		Dry		NS		12.3	B	22.6	B	28.0	B			9.0	J
NC 2L = 1,000 µg/L (1/01/10)	22-Jun-10	2.7	10.0	AB	ND		NS		25.4		66.5		NS		37.0		Dry		NS		15.4	B	21.8 (28.4)	B	33.5				4.9	J
Benzene	28-Jun-07	0.1	1.0	AB	ND		ND		Dry		ND		ND		ND		Dry		Dry		0.6 (0.6 J)	J	ND		Dry				ND	
NC 2L = 1 µg/L (10/23/07)	19-Dec-07	0.1	1.0	AB	ND		Dry		Dry		Dry		ND		ND (ND)		Dry		Dry		ND		ND		Dry				ND	
	28-Apr-08	0.1	1.0	AB	ND		ND		Dry		Dry		ND (ND)		ND		Dry		Dry		0.64	J	ND		ND				ND	
	30-Dec-08	0.1	1.0	AB	ND		Dry		Dry		Dry		NS		ND (ND)		Dry		NS		ND		ND		ND				ND	
	24-Jun-09	0.1	1.0	AB	ND		Dry		ND		ND		NS		ND		Dry		NS		ND (ND)		Dry		ND				ND	
	16-Dec-09	0.1	1.0	AB	ND		NS		ND		ND		NS		ND (ND)		ND		NS		0.1	J	ND		ND				ND	
	22-Jun-10	0.1	1.0	AB	ND		NS		ND		ND		NS		ND		Dry		NS		0.6	J	ND (ND)		ND				ND	
Carbon Disulfide	28-Jun-07	0.5	100	AB	ND		ND		Dry		ND		2.7	J	ND		Dry		Dry		1.1 J (3.3 J)		ND		Dry				ND	
NC 2L = 700 µg/L (10/23/07)	19-Dec-07	0.5	100	AB	0.65	J	Dry		Dry		Dry		ND		ND (ND)		Dry		Dry		1.29	J	ND		Dry				ND	
	28-Apr-08	0.5	100	AB	ND		ND		Dry		Dry		ND (ND)		ND		Dry		Dry		ND		ND		ND				0.54	J
	30-Dec-08	0.5	100	AB	ND		Dry		Dry		Dry		NS		2.0 (0.5 J)	J	Dry		NS		1.0	J	0.7	J	ND				ND	
	24-Jun-09	0.5	100	AB	ND		Dry		ND		ND		NS		ND		Dry		NS		ND (ND)		Dry		ND				ND	
	16-Dec-09	0.5	100	AB	ND		NS		ND		ND		NS		ND (ND)		Dry		NS		ND		ND		ND				ND	
	22-Jun-10	0.5	100	AB	ND		NS		ND		ND		NS		ND		Dry		NS		ND		ND (ND)		ND				ND	
Chloromethane	24-Jun-09	0.1	1.0	AB	ND		Dry		0.4	J	ND		NS		ND		Dry		NS		ND (ND)		Dry		ND				ND	
NC 2L = 2.6 µg/L (10/23/07)	16-Dec-09	0.1	1.0	AB	ND		NS		ND		ND		NS		ND (ND)		Dry		NS		ND		ND		ND				ND	
NC 2L = 3 µg/L (1/01/10)	22-Jun-10	0.1	1.0	AB	ND		NS		ND		ND		NS		ND		Dry		NS		ND		ND (ND)		ND				ND	
Toluene	30-Dec-08	0.3	1.0	AB	1.0	B	Dry		Dry		Dry		NS		1.0 (0.6 B)	B	Dry		NS		1.1	B	1.0	B	1.0	B			1.1	B
NC 2L = 1,000 µg/L (10/23/07)	24-Jun-09	0.3	1.0	AB	ND		Dry		ND		ND		NS		ND		Dry		NS		ND (ND)		Dry		ND				ND	
	16-Dec-09	0.3	1.0	AB	ND		NS		ND		ND		NS		ND (ND)		Dry		NS		ND		ND		ND				ND	
NC 2L = 60 µg/L (1/01/10)	22-Jun-10	0.3	1.0	AB	ND		NS		ND		ND		NS		ND		Dry		NS		ND		ND (ND)		ND				ND	

NOTES:

1. All concentrations are reported in micrograms per liter (ug/L).
2. Values in parentheses represent duplicate sample results.
3. MW = Groundwater monitoring well.
4. DL = Laboratory detection limit.
5. RL = Laboratory reporting limit (NC SWSL {or lower} June 2007 - present).
6. ND = Not detected above laboratory reporting limit.
7. NS = Not sampled.
8. January 2004 results represent a resampling event. Sample was analyzed by ENCO Laboratories.
9. May 2004 results for MW-8 were analyzed by ENCO Laboratories. Well was damaged during regular sampling event.
10. NC 2L = North Carolina 2 L Standard.
11. GWPS = Groundwater Protection Standards.
12. Detections above the NC 2L/GWPS are highlighted.
13. MW-8 was damaged prior to the April 04 sampling event and no sample could be obtained; therefore, a sample was obtained during May 04 after well repairs were made.
14. AB = Monitoring well has been abandoned.
15. NI = Monitoring well not installed.
16. NA = Not available.
17. Dry = Monitoring well considered to be dry and no sample collected (water level still measured).
18. NR = Not reported.

TABLE 4

SUMMARY OF HISTORICAL GROUNDWATER FIELD PARAMETERS

Parameter	Date	Background		Downgradient									
		MW-2	MW-2R	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-12S	MW-12D	MW-17	MW-18
pH	Sep-98	5.20	NI	5.10	5.70	5.90	4.90	5.30	NS	NI	NI	NI	NI
(S.U.)	Mar-99	NS	NI	4.06	5.04	6.08	6.01	5.41	NS	NI	NI	NI	NI
	Sep-99	NS	NI	4.64	5.37	6.61	5.89	5.01	NS	NI	NI	NI	NI
	Apr-00	NS	NI	6.04	5.21	5.09	5.63	5.44	4.99	5.67	5.76	NI	NI
	Sep-00	NS	NI	6.16	5.63	5.94	5.37	5.39	4.98	10.63	10.59	NI	NI
	Mar-01	NS	NI	4.80	NS	5.20	5.10	4.70	NS	4.50	11.70	NI	NI
	Oct-01	NS	NI	5.25	NS	5.38	5.15	5.39	NS	5.28	10.59	NI	NI
	Apr-02	AB	6.76	4.96	NS	5.09	5.33	5.02	NS	NS	11.01	NI	NI
	Nov-02	AB	6.22	5.48	NS	NS	6.03	5.82	NS	NS	10.22	NI	NI
	May-03	AB	5.43	6.11	5.93	6.11	5.82	6.42	NS	6.18	10.01	NI	NI
	Nov-03	AB	6.44	5.03	NS	5.83	5.27	5.03	NS	4.04	8.98	NS	NS
	Jan-04	AB	NS	NS	NS	NS	NS	NS	NS	NS	12.23	NS	NS
	Apr-04	AB	7.31	5.49	5.37	5.97	NS	5.36	NS	6.30	10.93	5.25	5.17
	May-04	AB	NS	NS	NS	NS	5.90	NS	NS	NS	NS	NS	NS
	Oct-04	AB	7.11	5.73	5.44	5.61	6.06	5.22	5.77	6.49	10.44	5.37	5.11
	May-05	AB	7.30	5.21	5.05	5.65	6.03	5.41	NS	6.08	10.35	5.18	4.95
	Oct-05	AB	7.00	5.93	7.10	7.22	7.43	6.02	NS	7.69	10.35	5.87	5.44
	29-Jun-06	AB	7.27	Dry	Dry	6.39	6.65	5.87	NS	Dry	9.94	5.73	5.64
	07-Dec-06	AB	6.70	5.12	Dry	5.80	6.23	4.88	Dry	Dry	6.72	Dry	6.72
	28-Jun-07	AB	6.99	6.16	Dry	5.80	5.79	5.36	Dry	Dry	9.98	5.24	Dry
	27-Dec-07	AB	6.68	Dry	Dry	Dry	5.97	5.39	Dry	Dry	8.29	5.49	Dry
	28-Apr-08	AB	6.88	5.12	Dry	Dry	5.56	5.21	Dry	Dry	10.29	4.90	4.96
	30-Dec-08	AB	6.77	Dry	Dry	Dry	NS	5.17	Dry	Dry	9.19	5.77	5.69
Resample	12-Mar-09	AB	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	6.22
	24-Jun-09	AB	6.83	Dry	6.11	6.27	NS	5.63	Dry	NS	9.36	Dry	5.77
Resample	24-Sep-09	AB	NS	NS	NS	NS	NS	NS	NS	NS	8.73	NS	NS
	16-Dec-09	AB	6.62	NS	6.23	6.47	NS	5.93	Dry	NS	10.04	5.73	5.88
	22-Jun-10	AB	6.72	NS	6.19	6.44	NS	6.11	Dry	NS	10.39	5.01	5.89
Resample	14-Sep-10	AB	NS	NS	NS	6.76	NS	NS	NS	NS	8.57	NS	NS
Temperature	Sep-98	20	NI	22	23	19	19	22	NS	NI	NI	NI	NI
(°C)	Mar-99	NS	NI	15.7	15.6	16.1	14.8	15.9	NS	NI	NI	NI	NI
	Sep-99	NS	NI	18	19	19	17	18	NS	NI	NI	NI	NI
	Apr-00	NS	NI	11.4	14.2	12.6	12.5	12.7	12.1	12.8	12.8	NI	NI
	Sep-00	NS	NI	16.4	19.3	17.6	17.9	17.2	17.8	18.4	17.9	NI	NI
	Mar-01	NS	NI	17	NS	17	17	16	NS	17	14	NI	NI
	Oct-01	NS	NI	20	NS	19	21	20	NS	19	19	NI	NI
	Apr-02	AB	17	16	NS	15	14	15	NS	NS	13	NI	NI
	Nov-02	AB	16	15	NS	NS	16	16	NS	NS	16	NI	NI
	May-03	AB	16	17	16	17	17	18	NS	19	17	NI	NI
	Nov-03	AB	17	17	18	17	17	17	NS	17	16	NS	NS
	Jan-04	AB	NS	NS	NS	NS	NS	NS	NS	NS	13	NS	NS
	Apr-04	AB	19	19	19	19	NS	20	NS	18	19	19	22
	May-04	AB	NS	NS	NS	NS	20	NS	NS	NS	NS	NS	NS
	Oct-04	AB	17	18	16	16	17	18	17	17	16	17	16
	May-05	AB	20	25	17	17	17	18	NS	18	18	21	21
	Oct-05	AB	13.4	14.9	14.7	16.4	16.7	16.5	NS	15.6	14.7	16.9	15.8
	29-Jun-06	AB	27.3	Dry	Dry	22.5	25.3	23.1	NS	Dry	21.4	21.9	21.7
	07-Dec-06	AB	13.0	14.1	Dry	12.8	12.2	15.0	Dry	Dry	14.1	Dry	13.0
	28-Jun-07	AB	20.9	21	Dry	19.4	20.1	20.6	Dry	Dry	22.0	20.6	Dry
	27-Dec-07	AB	9.9	Dry	Dry	Dry	11.1	12.4	Dry	Dry	12.8	11.7	Dry
	28-Apr-08	AB	16.4	16.3	Dry	Dry	15.5	15.8	Dry	Dry	15.5	15.6	16.0
	30-Dec-08	AB	10.8	Dry	Dry	Dry	NS	9.9	Dry	Dry	12.4	14.8	11.4
Resample	12-Mar-09	AB	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	11.9
	24-Jun-09	AB	16.1	Dry	17.2	16.4	NS	15.9	Dry	NS	16.2	Dry	16.7
Resample	24-Sep-09	AB	NS	NS	NS	NS	NS	NS	NS	NS	18.2	NS	NS
	16-Dec-09	AB	13.1	NS	13.4	13.8	NS	13.7	Dry	NS	13.2	13.4	13.7
	22-Jun-10	AB	18.4	NS	16.9	17.6	NS	17.7	Dry	NS	18.3	17.9	17.4
Resample	14-Sep-10	AB	NS	NS	NS	15.2	NS	NS	NS	NS	19.4	NS	NS
Conductivity	Sep-98	69	NI	46	23	127	69	46	NS	NI	NI	NI	NI
(uohms/cm)	Mar-99	NS	NI	292	23	50	60	44	NS	NI	NI	NI	NI
	Sep-99	NS	NI	778	96	523	499	103	NS	NI	NI	NI	NI
	Apr-00	NS	NI	807	186	623	581	296	191	293	241	NI	NI
	Sep-00	NS	NI	810	196	655	523	309	282	277	204	NI	NI
	Mar-01	NS	NI	180	NS	40	30	20	NS	1400	1700	NI	NI
	Oct-01	NS	NI	20	NS	110	40	80	NS	100	1500	NI	NI
	Apr-02	AB	30	240	NS	30	90	30	NS	NS	1900	NI	NI
	Nov-02	AB	110	180	NS	NS	160	80	NS	NS	2100	NI	NI
	May-03	AB	190	240	220	70	90	180	NS	210	1840	NI	NI
	Nov-03	AB	90	120	110	60	80	30	NS	2000	4200	NS	NS
	Jan-04	AB	NS	NS	NS	NS	NS	NS	NS	NS	1518	NS	NS
	Apr-04	AB	210	36	<30	69	NS	31	NS	178	1010	<30	<30
	May-04	AB	NS	NS	NS	NS	33	NS	NS	NS	NS	NS	NS
	Oct-04	AB	210	180	260	90	60	140	310	230	1960	120	180
	May-05	AB	105	25	25	76	39	39	NS	14	404	27	18
	Oct-05	AB	110.3	34.2	39.9	90.8	38.6	30.5	NS	193.7	327	38.9	18.9
	29-Jun-06	AB	95.7	Dry	Dry	50.8	35.8	67.6	NS	Dry	396	30.1	12.4
	07-Dec-06	AB	240	38.2	Dry	85.3	78.2	57.1	Dry	Dry	324	Dry	93.7
	28-Jun-07	AB	210	50.6	Dry	113	53.3	41.9	Dry	Dry	586	36.4	Dry
	27-Dec-07	AB	141	Dry	Dry	Dry	55.1	38.3	Dry	Dry	336	<30	Dry
	28-Apr-08	AB	177	37	Dry	Dry	54	36	Dry	Dry	465	33	<30
	30-Dec-08	AB	NS	Dry	Dry	Dry	NA	NA	Dry	Dry	NA	NA	NA
Resample	12-Mar-09	AB	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	11.7
	24-Jun-09	AB	147	Dry	21.5	91.8	NS	45.1	Dry	NS	371	Dry	19.2
Resample	24-Sep-09	AB	NS	NS	NS	NS	NS	NS	NS	NS	300	NS	NS
	16-Dec-09	AB	161	NS	19	107	NS	47	Dry	NS	361	26	14
	22-Jun-10	AB	159	NS	59.2	226	NS	798	Dry	NS	346	51.1	48.0
Resample	14-Sep-10	AB	NS	NS	NS	204	NS	NS	NS	NS	406	NS	NS

Notes:
1. MW = groundwater monitoring well
2. - = not measured or not reported
3. Jan-04 data are from a resampling event.
4. MW-8 was damaged prior to the April 04 sampling event and no sample could be obtained; therefore, a sample was obtained during May 04 after well repairs were made.
5. AB = Monitoring well abandoned.
6. Dry = Monitoring well considered to be dry and no samples collected.
7. NI = Monitoring well not installed.
8. NS = Not sampled.
9. NA = Not available.

TABLE 5

SUMMARY OF HISTORICAL LEACHATE CONSTITUENTS

Constituent	Date	Concentration in (µg/L)					
		DL	RL	Leachate		Blanks	
Antimony	28-Jun-07	1.2	6.0	ND		4.5	
	19-Dec-07	1.2	6.0	3.2	J	ND	
	28-Apr-08	1.2	6.0	2.3	J	ND	
	30-Dec-08	1.2	6.0	ND		ND	
	24-Jun-09	NR	30	ND		3.1	J
	16-Dec-09	1.2	6.0	ND		1.4	J
	22-Jun-10	1.2	6.0	1.2	B	1.8	J
Barium	Apr-94	NR	250	NS		NA	
	Oct-94	NR	500	NS		NA	
	Apr-95	NR	500	NS		NA	
	Oct-95	NR	500	NS		NA	
	Apr-96	NR	500	NS		NA	
	Nov-96	NR	500	NS		ND	
	Mar-97	NR	500	NS		ND	
	Sep-97	NR	500	NS		ND	
	Mar-98	NR	500	NS		ND	
	Sep-98	NR	500	NS		ND	
	Mar-99	NR	500	NS		ND	
	Sep-99	NR	500	NS		ND	
	Apr-00	NR	500	NS		ND	
	Sep-00	NR	500	NS		ND	
	Mar-01	NR	500	NS		ND	
	Jun-01	NR	500	NS		NA	
	Oct-01	NR	500	NS		ND	
	Apr-02	NR	500	NS		ND	
	Nov-02	NR	500	NS		ND	
	May-03	NR	500	NS		ND	
	Nov-03	NR	500	NS		ND	
	Apr-04	NR	500	NS		ND	
	May-04	NR	500	NS		ND	
	Oct-04	NR	500	NS		ND	
	May-05	NR	500	ND		ND	
	Oct-05	NR	500	ND		ND	
	29-Jun-06	NR	500	ND		ND	
	07-Dec-06	NR	100	103		ND	
	28-Jun-07	1.1	100	57.1	J	5.1	
	19-Dec-07	1.1	100	97.0	B	24.9	J
	28-Apr-08	1.1	100	113		33.2	J
	30-Dec-08	1.1	100	80.0	J	1.2	J
	24-Jun-09	NR	500	ND		9.2	J
	16-Dec-09	1.1	100	177		3.5	J
	22-Jun-10	1.1	100	55.8	J	1.7	J
Chromium	Apr-94	NR	20	NS		NA	
	Oct-94	NR	10	NS		NA	
	Apr-95	NR	10	NS		NA	
	Oct-95	NR	10	NS		NA	
	Apr-96	NR	10	NS		NA	
	Nov-96	NR	10	NS		ND	
	Mar-97	NR	10	NS		ND	
	Sep-97	NR	10	NS		ND	
	Mar-98	NR	10	NS		ND	
	Sep-98	NR	10	NS		ND	
	Mar-99	NR	10	NS		ND	
	Sep-99	NR	10	NS		ND	
	Apr-00	NR	10	NS		ND	
	Sep-00	NR	10	NS		ND	
	Jun-01	NR	10	NS		NA	
	Oct-01	NR	10	NS		ND	
	Apr-02	NR	10	NS		ND	
	Nov-02	NR	10	NS		ND	
	May-03	NR	10	NS		ND	
	Nov-03	NR	10	NS		ND	
	Apr-04	NR	10	NS		ND	
	May-04	NR	10	NS		ND	
	Oct-04	NR	10	NS		ND	
	May-05	NR	10	ND		ND	
	Oct-05	NR	10	ND		ND	
	29-Jun-06	NR	10	ND		ND	
	07-Dec-06	NR	10	ND		ND	
	28-Jun-07	0.70	10.0	8.3	B	5.2	
	19-Dec-07	0.7	10.0	2.7	J	ND	
	28-Apr-08	0.7	10.0	6.6	B	2.0	J
	30-Dec-08	0.7	10.0	7.4	J	ND	
	24-Jun-09	NR	10	ND		ND	
	16-Dec-09	0.7	10.0	6.9	J	ND	
	22-Jun-10	0.7	10.0	2.0	J	ND	

TABLE 5

SUMMARY OF HISTORICAL LEACHATE CONSTITUENTS

Constituent	Date	Concentration in (µg/L)					
		DL	RL	Leachate		Blanks	
Cobalt	Apr-94	NR	50	NS		NA	
	Oct-94	NR	10	NS		NA	
	Apr-95	NR	10	NS		NA	
	Oct-95	NR	10	NS		NA	
	Apr-96	NR	10	NS		NA	
	Nov-96	NR	10	NS		ND	
	Mar-97	NR	10	NS		ND	
	Sep-97	NR	10	NS		ND	
	Mar-98	NR	10	NS		ND	
	Sep-98	NR	10	NS		ND	
	Mar-99	NR	10	NS		ND	
	Sep-99	NR	10	NS		ND	
	Apr-00	NR	10	NS		ND	
	Sep-00	NR	10	NS		ND	
	Mar-01	NR	10	NS		ND	
	Jun-01	NR	10	NS		NA	
	Oct-01	NR	10	NS		ND	
	Apr-02	NR	10	NS		ND	
	Nov-02	NR	10	NS		ND	
	May-03	NR	10	NS		ND	
	Nov-03	NR	10	NS		ND	
	Apr-04	NR	10	NS		ND	
	May-04	NR	10	NS		ND	
	Oct-04	NR	10	NS		ND	
	May-05	NR	10	10		ND	
	Oct-05	NR	10	12		ND	
	29-Jun-06	NR	10	12		ND	
	07-Dec-06	NR	10	13		ND	
	28-Jun-07	0.7	10.0	14.7		ND	
	19-Dec-07	0.7	10.0	8.7	J	ND	
	28-Apr-08	0.7	10.0	16.6		ND	
	30-Dec-08	0.7	10.0	20.4		ND	
	24-Jun-09	NR	10	15		ND	
	16-Dec-09	0.7	10.0	12.1		ND	
	22-Jun-10	0.7	10.0	9.1	J	ND	
Copper	Apr-94	NR	10	NS		NA	
	Oct-94	NR	200	NS		NA	
	Apr-95	NR	200	NS		NA	
	Oct-95	NR	200	NS		NA	
	Apr-96	NR	200	NS		NA	
	Nov-96	NR	200	NS		ND	
	Mar-97	NR	200	NS		ND	
	Sep-97	NR	200	NS		ND	
	Mar-98	NR	200	NS		ND	
	Sep-98	NR	200	NS		ND	
	Mar-99	NR	200	NS		ND	
	Sep-99	NR	200	NS		ND	
	Apr-00	NR	200	NS		ND	
	Sep-00	NR	200	NS		ND	
	Mar-01	NR	200	NS		ND	
	Jun-01	NR	200	NS		NA	
	Oct-01	NR	200	NS		ND	
	Apr-02	NR	200	NS		ND	
	Nov-02	NR	200	NS		ND	
	May-03	NR	200	NS		ND	
	Nov-03	NR	200	NS		ND	
	Apr-04	NR	200	NS		ND	
	May-04	NR	200	NS		ND	
	Oct-04	NR	200	NS		ND	
	May-05	NR	200	ND		ND	
	Oct-05	NR	200	ND		ND	
	29-Jun-06	NR	200	ND		ND	
	07-Dec-06	NR	10	ND		ND	
	28-Jun-07	2.0	10.0	10.1	B	5.2	
	19-Dec-07	2.0	10.0	4.4	B	2.6 J	
	28-Apr-08	2.0	10.0	18.2	B	5.8	J
	30-Dec-08	2.0	10.0	16.2		ND	
	24-Jun-09	NR	200	ND		2.2	J
	16-Dec-09	2.0	10.0	2.4	J	ND	
	22-Jun-10	2.0	10.0	4.2	J	ND	

TABLE 5

SUMMARY OF HISTORICAL LEACHATE CONSTITUENTS

Constituent	Date	Concentration in (µg/L)					
		DL	RL	Leachate		Blanks	
Lead	Apr-94	NR	5	NS		NA	
	Oct-94	NR	10	NS		NA	
	Apr-95	NR	10	NS		NA	
	Oct-95	NR	10	NS		NA	
	Apr-96	NR	10	NS		NA	
	Nov-96	NR	10	NS		ND	
	Mar-97	NR	10	NS		ND	
	Sep-97	NR	10	NS		ND	
	Mar-98	NR	10	NS		ND	
	Sep-98	NR	10	NS		ND	
	Mar-99	NR	10	NS		ND	
	Apr-00	NR	10	NS		ND	
	Sep-00	NR	10	NS		ND	
	Mar-01	NR	10	NS		ND	
	Jun-01	NR	10	NS		NA	
	Oct-01	NR	10	NS		ND	
	Apr-02	NR	10	NS		ND	
	Nov-02	NR	10	NS		ND	
	May-03	NR	10	NS		ND	
	Nov-03	NR	10	NS		ND	
	Apr-04	NR	10	NS		ND	
	May-04	NR	10	NS		ND	
	Oct-04	NR	10	NS		ND	
	May-05	NR	10	ND		ND	
	Oct-05	NR	10	ND		ND	
	29-Jun-06	NR	10	ND		ND	
	07-Dec-06	NR	10	ND		ND	
	28-Jun-07	2.0	10.0	ND		ND	
	19-Dec-07	2.0	10.0	ND		ND	
	28-Apr-08	2.0	10.0	ND		3.8	J
	30-Dec-08	2.0	10.0	3.0	J	ND	
	24-Jun-09	NR	10	ND		ND	
	16-Dec-09	2.0	10.0	ND		ND	
	22-Jun-10	2.0	10.0	ND		ND	
Manganese	07-Dec-06	NR	5	848		ND	
	28-Jun-07	0.2	NR	9.9		NA	
	19-Dec-07	0.2	NR	333		NA	
	28-Apr-08	0.2	NR	362		NA	
	30-Dec-08	0.2	NR	628		NA	
	24-Jun-09	NR	10	398		NA	
	16-Dec-09	0.2	NR	1180		NA	
	22-Jun-10	0.2	NR	311		NA	
Mercury	16-Dec-09	0.01	0.2	0.11	J	NA	
	22-Jun-10	0.01	0.2	0.04	J	NA	
Molybdenum	22-Jun-10	1.3	10.0	1.6	J	NA	
Nickel	Apr-94	NR	50	NS		NA	
	Oct-94	NR	50	NS		NA	
	Apr-95	NR	50	NS		NA	
	Oct-95	NR	50	NS		NA	
	Apr-96	NR	50	NS		NA	
	Nov-96	NR	50	NS		ND	
	Mar-97	NR	50	NS		ND	
	Sep-97	NR	50	NS		ND	
	Mar-98	NR	50	NS		ND	
	Sep-98	NR	50	NS		ND	
	Sep-99	NR	50	NS		ND	
	Apr-00	NR	50	NS		ND	
	Sep-00	NR	50	NS		ND	
	Mar-01	NR	50	NS		ND	
	Jun-01	NR	50	NS		NA	
	Oct-01	NR	50	NS		ND	
	Apr-02	NR	50	NS		ND	
	Nov-02	NR	50	NS		ND	
	May-03	NR	50	NS		ND	
	Nov-03	NR	50	NS		ND	
	Apr-04	NR	50	NS		ND	
	May-04	NR	50	NS		ND	
	Oct-04	NR	50	NS		ND	
	May-05	NR	50	ND		ND	
	Oct-05	NR	50	ND		ND	
	29-Jun-06	NR	50	ND		ND	
	07-Dec-06	NR	50	ND		ND	
	28-Jun-07	0.6	50.0	60.5		5.0	
	19-Dec-07	0.6	50.0	45.9	J	ND	
	28-Apr-08	0.6	50.0	45.2		1.9	J
	30-Dec-08	0.6	50.0	41.3	J	0.7	J
	24-Jun-09	NR	50	ND		2.4	J
	16-Dec-09	0.6	50.0	51.2		0.7	J
	22-Jun-10	0.6	50.0	35.8	J	ND	

TABLE 5

SUMMARY OF HISTORICAL LEACHATE CONSTITUENTS

Constituent	Date	Concentration in (µg/L)					
		DL	RL	Leachate		Blanks	
Selenium	28-Apr-08	6.3	10.0	13.4		ND	
	30-Dec-08	6.3	10.0	ND		ND	
	24-Jun-09	NR	20	ND		6.3	J
	16-Dec-09	6.3	10.0	6.5	J	ND	
	22-Jun-10	6.3	10.0	ND		ND	
Silver	19-Dec-07	1.1	10.0	1.4	B	1.5 J	
	28-Apr-08	1.1	10.0	ND		ND	
	30-Dec-08	1.1	10.0	ND		ND	
	24-Jun-09	NR	10	ND		ND	
	16-Dec-09	1.1	10.0	ND		ND	
	22-Jun-10	1.1	10.0	ND		ND	
Vanadium	Apr-94	NR	80	NS		NA	
	Oct-94	NR	40	NS		NA	
	Apr-95	NR	40	NS		NA	
	Oct-95	NR	40	NS		NA	
	Apr-96	NR	40	NS		NA	
	Nov-96	NR	40	NS		ND	
	Mar-97	NR	40	NS		ND	
	Sep-97	NR	40	NS		ND	
	Mar-98	NR	40	NS		ND	
	Sep-98	NR	40	NS		ND	
	Mar-99	NR	40	NS		ND	
	Sep-99	NR	40	NS		ND	
	Apr-00	NR	40	NS		ND	
	Sep-00	NR	40	NS		ND	
	Mar-01	NR	40	NS		ND	
	Jun-01	NR	40	NS		NA	
	Oct-01	NR	40	NS		ND	
	Apr-02	NR	40	NS		ND	
	Nov-02	NR	40	NS		ND	
	May-03	NR	40	NS		ND	
	Nov-03	NR	40	NS		ND	
	Apr-04	NR	40	NS		ND	
	May-04	NR	40	NS		ND	
	Oct-04	NR	40	NS		ND	
	May-05	NR	40	ND		ND	
	Oct-05	NR	40	ND		ND	
	29-Jun-06	NR	40	ND		ND	
	07-Dec-06	NR	25	ND		ND	
	28-Jun-07	0.4	25.0	ND		ND	
	19-Dec-07	0.4	25.0	0.5	J	ND	
	28-Apr-08	0.4	25.0	1.8	J	ND	
	30-Dec-09	0.4	25.0	9.8	J	ND	
	24-Jun-09	NR	40	ND		ND	
	16-Dec-09	0.4	25.0	5.9	J	0.8	J
	22-Jun-10	0.4	25.0	1.2	J	ND	
Zinc	Apr-94	NR	20	NS		NA	
	Oct-94	NR	50	NS		NA	
	Apr-95	NR	50	NS		NA	
	Oct-95	NR	50	NS		NA	
	Apr-96	NR	50	NS		NA	
	Nov-96	NR	50	NS		ND	
	Mar-97	NR	50	NS		ND	
	Sep-97	NR	50	NS		ND	
	Mar-98	NR	50	NS		ND	
	Sep-98	NR	50	NS		ND	
	Mar-99	NR	50	NS		ND	
	Sep-99	NR	50	NS		ND	
	Apr-00	NR	50	NS		ND	
	Sep-00	NR	50	NS		ND	
	Mar-01	NR	50	NS		ND	
	Jun-01	NR	50	NS		NA	
	Oct-01	NR	50	NS		ND	
	Apr-02	NR	50	NS		ND	
	Nov-02	NR	50	NS		ND	
	May-03	NR	50	NS		ND	
	Nov-03	NR	50	NS		ND	
	Apr-04	NR	50	NS		ND	
	May-04	NR	50	NS		ND	
	Oct-04	NR	50	NS		ND	
	May-05	NR	50	ND		ND	
	Oct-05	NR	50	ND		ND	
	29-Jun-06	NR	50	ND		ND	
	07-Dec-06	NR	10	48		ND	
	28-Jun-07	2.7	10.0	31.1		ND	
	19-Dec-07	2.7	10.0	20.1	B	5.4 J	
	28-Apr-08	2.7	10.0	134		ND	
	30-Dec-08	2.7	10.0	44.5		ND	
	24-Jun-09	NR	50	ND		61.8	B
	16-Dec-09	2.7	10.0	30.4	B	9.0	J
	22-Jun-10	2.7	10.0	46.2		4.9	J

TABLE 5

SUMMARY OF HISTORICAL LEACHATE CONSTITUENTS

Constituent	Date	Concentration in (µg/L)					
		DL	RL	Leachate		Blanks	
Acetone	28-Apr-08	1.2	100	21.5	J	ND	
	30-Dec-08	1.2	100	ND		ND	
	24-Jun-09	NR	100	ND		ND	
	16-Dec-09	1.2	100	ND		ND	
	22-Jun-10	1.2	100	ND		ND	
Benzene	30-Dec-08	0.1	1.0	0.3	J	ND	
	24-Jun-09	NR	5	ND		ND	
	16-Dec-09	0.1	1.0	0.7	J	ND	
	22-Jun-10	0.1	1.0	ND		ND	
2-Butanone	16-Dec-09	0.9	100	16.4	J	ND	
	22-Jun-10	0.9	100	ND		ND	
Carbon Disulfide	28-Jun-07	0.5	100	ND		ND	
	19-Dec-07	0.5	100	ND		ND	
	28-Apr-08	0.5	100	ND		0.54	J
	30-Dec-08	0.5	100	ND		ND	
	24-Jun-09	NR	100	ND		ND	
	16-Dec-09	0.5	100	ND		ND	
	22-Jun-10	0.5	100	ND		ND	
Ethyl Benzene	16-Dec-09	0.3	1.0	1.1		ND	
	22-Jun-10	0.1	1.0	ND		ND	
Toluene	28-Apr-08	0.3	1.0	0.41	J	ND	
	30-Dec-08	0.3	1.0	1.3	B	1.1	B
	24-Jun-09	NR	5	ND		ND	
	16-Dec-09	0.3	1.0	4.1		ND	
	22-Jun-10	0.3	1.0	ND		ND	
Xylenes, total	19-Dec-07	0.3	4.0	0.33	J	ND	
	28-Apr-08	0.3	4.0	ND		ND	
	30-Dec-08	0.3	4.0	ND		ND	
	23-Jun-09	NR	5	ND		ND	
	16-Dec-09	0.3	4.0	2.7	J	ND	
	22-Jun-10	0.3	5.0	ND		ND	
Cyanide	28-Jun-07	5.0	10.0	6.0	J	NA	
	19-Dec-07	5.0	10.0	ND		NA	
	28-Apr-08	5.0	10.0	ND		NA	
	30-Dec-08	5.0	10.0	ND		NA	
	24-Jun-09	NR	5	8		NA	
	16-Dec-09	5.0	10.0	ND		NA	
	22-Jun-10	5.0	10.0	ND		NA	
Biochemical Oxygen Demand	07-Dec-06	NR	2000	16300		ND	
	28-Jun-07	2000	NR	34600		NA	
	19-Dec-07	2000	120,000	ND		NA	
	28-Apr-08	2000	NR	50000		NA	
	30-Dec-08	2000	NR	27800		NA	
	24-Jun-09	NR	2,000	<30000		NA	
	16-Dec-09	2000	NR	34200		NA	
	22-Jun-10	2000	NR	ND		NA	
Total Suspended Solids	07-Dec-06	NR	5000	36000		ND	
	28-Jun-07	5.0	NR	40		NA	
	19-Dec-07	5.0	NR	32.0		NA	
	28-Apr-08	5000	NR	64000		NA	
	30-Dec-08	5000	NR	84000		NA	
	24-Jun-09	NR	1000	13500		NA	
	16-Dec-09	5000	NR	45500		NA	
	22-Jun-10	1000.0	NR	5500		NA	
Oil & Grease	19-Dec-07	5000	NR	5800		NA	
	28-Apr-08	5000	NR	ND		NA	
	30-Dec-08	5000	NR	ND		NA	
	24-Jun-09	NR	5000	ND		NA	
	16-Dec-09	5000	NR	5200		NA	
	22-Jun-10	5000	NR	ND		NA	

Notes:

1. All concentrations are reported in micrograms per liter (ug/L).
2. DL = Laboratory detection limit.
3. RL = Laboratory reporting limit (NC SWSL June 2007 - present).
4. ND = Not detected above laboratory reporting limit.
5. NA = Not available.
6. NS = Not sampled.
7. NR = Not reported.

TABLE 6

SUMMARY OF HISTORICAL LEACHATE FIELD PARAMETERS

Parameter	Date	Leachate
pH	Sep-98	7.30
(S.U.)	Mar-99	8.05
	Sep-99	6.16
	Apr-00	5.80
	Sep-00	5.82
	Mar-01	6.47
	Oct-01	5.69
	Apr-02	6.77
	Nov-02	6.17
	May-03	6.09
	Nov-03	5.96
	Jan-04	NS
	Apr-04	7.91
	May-04	NS
	Oct-04	7.37
	May-05	8.26
	Oct-05	8.54
	29-Jun-06	8.76
	07-Dec-06	8.33
	28-Jun-07	8.47
	27-Dec-07	7.99
	28-Apr-08	8.28
	30-Dec-08	8.40
	24-Jun-09	7.96
	16-Dec-09	7.12
	22-Jun-10	7.34
Temperature	Sep-98	23
(^{o}C)	Mar-99	17
	Sep-99	17
	Apr-00	9.8
	Sep-00	16.3
	Mar-01	20
	Oct-01	19
	Apr-02	14
	Nov-02	15
	May-03	16
	Nov-03	18
	Jan-04	NS
	Apr-04	21
	May-04	NS
	Oct-04	16
	May-05	29
	Oct-05	14.7
	29-Jun-06	30.9
	07-Dec-06	8.6
	28-Jun-07	27.6
	27-Dec-07	6.2
	28-Apr-08	17.8
	30-Dec-08	5.3
	24-Jun-09	19.4
	16-Dec-09	2.4
	22-Jun-10	24.9

TABLE 6

SUMMARY OF HISTORICAL LEACHATE FIELD PARAMETERS

Parameter	Date	Leachate
Conductivity	Sep-98	NS
(uohms/cm)	Mar-99	NS
	Sep-99	296
	Apr-00	347
	Sep-00	323
	Mar-01	NS
	Oct-01	260
	Apr-02	NS
	Nov-02	NS
	May-03	NS
	Nov-04	220
	Jan-04	NS
	Apr-04	2210
	May-04	NS
	Oct-04	110
	May-05	3
	Oct-05	296
	29-Jun-06	2000
	07-Dec-06	2330
	28-Jun-07	NS
	27-Dec-07	NS
	28-Apr-08	NS
	30-Dec-08	NS
	23-Jun-09	4260
	16-Dec-09	4300
	22-Jun-10	3180

Notes:
1. NA = Not available.
2. NS = Not sampled for field parameter.

Figure

Figure No. 1 Site Location Map

ROARING RIVER LINDFILL WILKES COUNTY,NORTH CAROLINA	JOYCE ENGINEERING, INC. 2211 W. MEADOWVIEW ROAD GREENSBORO, NC 27407 PHONE: (336) 323-0092	DESIGNED JJK DRAWN CADD/JJK CHECKED GVB APPROVED GVB DATE 09/08/10	SCALE AS NOTED	PROJECT NO. 356.0900.11
SITE LOCATION MAP		© 2010 Joyce Engineering, Inc. All rights reserved.		FIGURE NO. 1

P:\Wilkes\Roaring River\Groundwater\GMR\June 2010\Drawings\, Roaring River Site Location Map June 2010.dwg

Drawing

Drawing No. 1 Groundwater Surface Contour Map, June 22, 2010

LEGEND

- 1070 — EXISTING 10' TOPOGRAPHIC CONTOUR
- EXISTING 2' TOPOGRAPHIC CONTOUR
- 970 — GROUNDWATER SURFACE CONTOUR [FEET ABOVE MEAN SEA LEVEL (AMSL)]
- PROPERTY LINE
- EXISTING ROAD
- APPROXIMATE LIMITS OF WASTE
- CENTERLINE OF STREAM
- TREELINE
- MW-9 944.20 — GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION WITH STATIC WATER LEVEL ELEVATION (FEET AMSL)
- GROUNDWATER FLOW DIRECTION WITH GRADIENT CALCULATION SEGMENT
- i_1 — SEGMENT USED FOR GRADIENT CALCULATIONS

NOTES:

1. TOPOGRAPHIC CONTOUR INTERVAL = 2 FEET.
2. GROUNDWATER SURFACE CONTOUR INTERVAL = 10 FEET.
3. STATIC WATER LEVELS MEASURED ON 06/22/10.
4. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL GROUNDWATER CONDITIONS.
5. DIGITAL MAPPING PROVIDED BY SPATIAL DATA CONSULTANTS, INC. FLYOVER DATE: MARCH 11, 2003. GROUND CONTROL AND PROPERTY LINE TIE-IN TO NC GRID COORDINATE SYSTEM SET BY SUTTLES SURVEYING, INC.
6. GROUNDWATER CONTOUR LINES SHOW THE WATER TABLE SHAPE AND ELEVATION. THESE CONTOURS ARE INFERRED LINES FOLLOWING THE GROUNDWATER SURFACE AT A CONSTANT ELEVATION ABOVE SEA LEVEL. THE GROUNDWATER FLOW DIRECTION IS GENERALLY PERPENDICULAR TO THE GROUNDWATER SURFACE CONTOURS, SIMILAR TO THE RELATIONSHIP BETWEEN SURFACE WATER FLOW AND TOPOGRAPHIC CONTOURS.
7. MW-12D WATER ELEVATIONS ARE NOT INCLUDED IN REGARDS TO MAPPING THE GROUNDWATER SURFACE CONTOURS.

GRAPHIC SCALE
0 50 100 200
(FEET)

DATE	REVISIONS AND RECORD OF ISSUE	NO	BY	CK	APP

DESIGNED ACE
DRAWN ACE/JJK
CHECKED JJK
APPROVED JJK
DATE 09/02/10

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

WILKES COUNTY-ROARING RIVER LANDFILL
WILKES COUNTY, NORTH

GROUNDWATER SURFACE CONTOUR MAP
JUNE 22, 2010
PERMIT NO. 97-04

PROJECT NO.
356.0900.11

SCALE
AS NOTED

DRAWING NO.
1

P:\Wilkes\Roaring River\Groundwater\GMR\June 2010\Drawings\GW June 2010.dwg Layout=Layout1

Appendices

Appendix 1	Statistical Analyses Worksheets
Appendix 2	Laboratory Analytical Reports and Field Data

Appendix 1 Statistical Analyses Worksheets

JEI Project: **Roaring River Landfill - Wilkes County**
Project No: **00356.0900.11**
Task No: **03**
Date: **22-Jun-10**

Analyte: **Barium**

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	Apr-94	MW-2	398		250
2	Oct-94	MW-2	850		500
3	Apr-95	MW-2	730		500
4	Oct-95	MW-2	ND		500
5	Apr-96	MW-2	ND		500
6	Nov-96	MW-2	ND		500
7	Mar-97	MW-2	ND		500
8	Sep-97	MW-2	ND		500
9	Mar-98	MW-2	508		500
10	Sep-98	MW-2	ND		500
11	Apr-02	MW-2R	ND		500
12	Nov-02	MW-2R	ND		500
13	May-03	MW-2R	ND		500
14	Nov-03	MW-2R	ND		500
15	Apr-04	MW-2R	ND		500
16	Oct-04	MW-2R	ND		500
17	May-05	MW-2R	ND		500
18	Oct-05	MW-2R	ND		500
19	29-Jun-06	MW-2R	ND		500
20	07-Dec-06	MW-2R	ND		100
21	28-Jun-07	MW-2R	11.2	B	100
22	19-Dec-07	MW-2R	7.6	B	100
23	28-Apr-08	MW-2R	11.7	B	100
24	30-Dec-08	MW-2R	12.9	J	100
25	24-Jun-09	MW-2R	9.2	B	100
26	17-Dec-09	MW-2R	7.7	J	100
27	22-Jun-10	MW-2R	4.8	B	100
28	Apr-04	MW-17	ND		500
29	Oct-04	MW-17	ND		500
30	May-05	MW-17	ND		500
31	Oct-05	MW-17	ND		500
32	Apr-04	MW-18	ND		500
33	Oct-04	MW-18	ND		500
34	May-05	MW-18	ND		500
35	Oct-05	MW-18	ND		500

Number of Data: 30
Number of Truncated Data: 24
Percentage of Truncated Data: 80%

Non-parametric Prediction Interval: 850

- All concentrations in micrograms per liter.
- Blank qualified data not used in statistical calculations.
- ND = Non-detect

JEI Project: **Roaring River Landfill - Wilkes County**
Project No: **00356.0900.11**
Task No: **03**
Date: **22-Jun-10**

Analyte: **Lead**

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	Apr-94	MW-2	38		5
2	Oct-94	MW-2	106		10
3	Apr-95	MW-2	82		10
4	Oct-95	MW-2	12		10
5	Apr-96	MW-2	38		10
6	Nov-96	MW-2	46		10
7	Mar-97	MW-2	32		10
8	Sep-97	MW-2	43		10
9	Mar-98	MW-2	67		10
10	Sep-98	MW-2	34		10
11	Apr-02	MW-2R	ND		10
12	Nov-02	MW-2R	ND		10
13	May-03	MW-2R	ND		10
14	Nov-03	MW-2R	ND		10
15	Apr-04	MW-2R	ND		10
16	Oct-04	MW-2R	ND		10
17	May-05	MW-2R	ND		10
18	Oct-05	MW-2R	ND		10
19	29-Jun-06	MW-2R	ND		10
20	07-Dec-06	MW-2R	ND		10
21	28-Jun-07	MW-2R	ND		10
22	19-Dec-07	MW-2R	ND		10.0
23	28-Apr-08	MW-2R	2.0	B	10.0
24	30-Dec-08	MW-2R	5.2	J	10.0
25	24-Jun-09	MW-2R	ND		10.0
26	17-Dec-09	MW-2R	ND		10.0
27	22-Jun-10	MW-2R	ND		5.0
28	Apr-04	MW-17	10		10
29	Oct-04	MW-17	ND		10
30	May-05	MW-17	ND		10
31	Oct-05	MW-17	ND		10
32	Apr-04	MW-18	ND		10
33	Oct-04	MW-18	ND		10
34	May-05	MW-18	ND		10
35	Oct-05	MW-18	ND		10

Number of Data: 34
Number of Truncated Data: 22
Percentage of Truncated Data: 65%

Non-parametric Prediction Interval: 106

- All concentrations in micrograms per liter.
- Blank qualified data not used in statistical calculations.
- ND = Non-detect

JEI Project: **Roaring River Landfill - Wilkes County**
Project No: **00356.0900.11**
Task No: **03**
Date: **22-Jun-10**

Analyte: **Silver**

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	28-Jun-07	MW-2R	ND		10
2	19-Dec-07	MW-2R	ND		10
3	28-Apr-08	MW-2R	ND		10
4	30-Dec-08	MW-2R	ND		10
5	24-Jun-09	MW-2R	ND		10
6	17-Dec-09	MW-2R	1.1	J	10
7	22-Jun-10	MW-2R	ND		10
8	Apr-04	MW-17	ND		10
9	Oct-04	MW-17	ND		10
10	May-05	MW-17	ND		10
11	Oct-05	MW-17	ND		10
12	Apr-04	MW-18	ND		10
13	Oct-04	MW-18	ND		10
14	May-05	MW-18	ND		10
15	Oct-05	MW-18	ND		10

Number of Data: 15
Number of Truncated Data: 14
Percentage of Truncated Data: 93%

Upper Poisson Prediction Limit: 40

- All concentrations in micrograms per liter.
- ND = Non-detect

JEI Project: **Roaring River Landfill - Wilkes County**
Project No: **00356.0900.11**
Task No: **03**
Date: **22-Jun-10**

Upper Poisson Prediction Limit

Analyte: **Silver**

Background Data

Sample No.	Sample Date	Location	Concentration (ug/l)		PQL/RL (ug/l)	Result or Half PQL/RL	Discrete Poisson Count	Rounded Discrete Poisson Count
1	28-Jun-07	MW-2R	ND		10	5	5	5
2	19-Dec-07	MW-2R	ND		10	5	5	5
3	28-Apr-08	MW-2R	ND		10	5	5	5
4	30-Dec-08	MW-2R	ND		10	5	5	5
5	24-Jun-09	MW-2R	ND		10	5	5	5
6	17-Dec-09	MW-2R	1.1	J	10	1.1	1.1	1
7	22-Jun-10	MW-2R	ND		10	5	5	5
8	Apr-04	MW-17	ND		10	5	5	5
9	Oct-04	MW-17	ND		10	5	5	5
10	May-05	MW-17	ND		10	5	5	5
11	Oct-05	MW-17	ND		10	5	5	5
12	Apr-04	MW-18	ND		10	5	5	5
13	Oct-04	MW-18	ND		10	5	5	5
14	May-05	MW-18	ND		10	5	5	5
15	Oct-05	MW-18	ND		10	5	5	5

Poisson Discrete Distribution Adjustment Factor: 1

Note: All sample concentrations are micrograms per liter

Using the background data, the upper Poisson Prediction Limit, y*, is determined by:

$$y^* = c\,y + [(t^2)\,c / 2] + t\,c\,[y\,(1 + (1/c)) + ((t^2) / 4)]^{0.5}$$

where:

c = k / n
y = Poisson count
t = t(n-1, 0.95), Student's t-distribution
n-1 = degrees of freedom (number of samples - 1)
k = number of downgradient samples per event
.95 = confidence interval
n = number of background samples

For:

c = 0.400
y = 71.00
t = 1.761
k = 6
n = 15

y* = 40
Adjusted y* = 40

JEI Project: **Roaring River Landfill - Wilkes County**
Project No: **00356.0900.11**
Task No: **03**
Date: **22-Jun-10**

Analyte: **Vanadium**

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	Apr-94	MW-2	ND		80
2	Oct-94	MW-2	138		40
3	Apr-95	MW-2	205		40
4	Oct-95	MW-2	ND		40
5	Apr-96	MW-2	148		40
6	Nov-96	MW-2	156		40
7	Mar-97	MW-2	101		40
8	Sep-97	MW-2	125		40
9	Mar-98	MW-2	43		40
10	Sep-98	MW-2	44		40
11	Apr-02	MW-2R	ND		40
12	Nov-02	MW-2R	ND		40
13	May-03	MW-2R	ND		40
14	Nov-03	MW-2R	ND		40
15	Apr-04	MW-2R	ND		40
16	Oct-04	MW-2R	ND		40
17	May-05	MW-2R	ND		40
18	Oct-05	MW-2R	ND		40
19	29-Jun-06	MW-2R	ND		40
20	07-Dec-06	MW-2R	ND		25
21	28-Jun-07	MW-2R	ND		25.0
22	19-Dec-07	MW-2R	2.3	J	25.0
23	28-Apr-08	MW-2R	1.9	J	25.0
24	30-Dec-08	MW-2R	4.7	J	25.0
25	24-Jun-09	MW-2R	1.4	J	25.0
26	16-Dec-09	MW-2R	1.6	B	25.0
27	22-Jun-10	MW-2R	ND		25.0
28	Apr-04	MW-17	ND		40
29	Oct-04	MW-17	ND		40
30	May-05	MW-17	ND		40
31	Oct-05	MW-17	ND		40
32	Apr-04	MW-18	ND		40
33	Oct-04	MW-18	ND		40
34	May-05	MW-18	ND		40
35	Oct-05	MW-18	ND		40

Number of Data: 34
Number of Truncated Data: 22
Percentage of Truncated Data: 65%

Non-parametric Prediction Interval: 205

- All concentrations in micrograms per liter.
- ND = Non-detect

JEI Project: **Roaring River Landfill - Wilkes County**
Project No: **00356.0900.11**
Task No: **03**
Date: **22-Jun-10**

Analyte: **Zinc**

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	Apr-94	MW-2	213		20
2	Oct-94	MW-2	995		50
3	Apr-95	MW-2	821		50
4	Oct-95	MW-2	ND		50
5	Apr-96	MW-2	622		50
6	Nov-96	MW-2	546		50
7	Mar-97	MW-2	313		50
8	Sep-97	MW-2	382		50
9	Mar-98	MW-2	267		50
10	Sep-98	MW-2	256		50
11	Apr-02	MW-2R	ND		50
12	Nov-02	MW-2R	ND		50
13	May-03	MW-2R	ND		50
14	Nov-03	MW-2R	ND		50
15	Apr-04	MW-2R	ND		50
16	Oct-04	MW-2R	ND		50
17	May-05	MW-2R	ND		50
18	Oct-05	MW-2R	138		50
19	29-Jun-06	MW-2R	ND		50
20	07-Dec-06	MW-2R	ND		10
21	28-Jun-07	MW-2R	12.4		10.0
22	19-Dec-07	MW-2R	15.0	B	10.0
23	28-Apr-08	MW-2R	15.5		10.0
24	30-Dec-08	MW-2R	ND		10.0
25	24-Jun-09	MW-2R	45.5	B	10.0
26	17-Dec-09	MW-2R	7.7	J	10.0
27	22-Jun-10	MW-2R	ND		10.0
28	Apr-04	MW-17	ND		50
29	Oct-04	MW-17	ND		50
30	May-05	MW-17	ND		50
31	Oct-05	MW-17	ND		50
32	Apr-04	MW-18	ND		50
33	Oct-04	MW-18	ND		50
34	May-05	MW-18	50		50
35	Oct-05	MW-18	ND		50

Number of Data: 33
Number of Truncated Data: 19
Percentage of Truncated Data: 58%

Non-parametric Prediction Interval: 995

- All concentrations in micrograms per liter.
- Blank qualified data not used in statistical calculations.
- ND = Non-detect

Appendix 2 Laboratory Analytical Reports and Field Data

Wilkes County- Roaring River Landfill - Inorganics																
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	MW-2R	7440-36-0	13	Antimony	**5.0**	ug/L	J	SW846 7010	1.2	3.0	6.0	1	06/22/2010	06/24/2010	07/16/2010	34
97-04	MW-2R	7440-38-2	14	Arsenic	10.0	ug/L	U	SW846 6010C	5.5	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-2R	7440-39-3	15	Barium	**4.8**	ug/L	J	SW846 6010C	1.1	40.0	100	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-2R	7440-41-7	23	Beryllium	1.0	ug/L	U	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-2R	744-43-9	34	Cadmium	1.0	ug/L	U	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-2R	7440-47-3	51	Chromium	10.0	ug/L	U	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-2R	7440-48-4	53	Cobalt	10.0	ug/L	U	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-2R	7440-50-8	54	Copper	10.0	ug/L	U	SW846 6010C	2.0	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-2R	7439-92-1	131	Lead	10.0	ug/L	U	SW846 6010C	2.0	5.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-2R	7440-02-0	152	Nickel	50.0	ug/L	U	SW846 6010C	0.6	10.0	50.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-2R	7782-49-2	183	Selenium	10.0	ug/L	U	SW846 6010C	6.3	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-2R	7440-22-4	184	Silver	10.0	ug/L	U	SW846 6010C	1.1	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-2R	7440-28-0	194	Thallium	5.5	ug/L	U	SW846 6010C	2.7	5.0	5.5	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-2R	7440-62-2	209	Vanadium	25.0	ug/L	U	SW846 6010C	0.4	10.0	25.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-2R	7440-66-6	213	Zinc	10.0	ug/L	U	SW846 6010C	2.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34

RAL Sample #: 676795

N/A = Not Applicable

U = Not detected.

J = Concentrations that are detected below the SWSLs. These concentrations are considered "estimated" per NCDENR.

B = Lab blank contamination.

µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County- Roaring River Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	MW-2R	75-09-2	140	Methylene Chloride	1.0	ug/L	U	SW846 8260B	0.6	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	SW846 8260B	0.2	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	67-66-3	44	Chloroform	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	79-01-6	201	Trichloroethene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	124-48-1	66	Dibromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	79-00-5	202	1,1,2-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	108-90-7	39	Chlorobenzene	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	71-43-2	16	Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	75-25-2	30	Bromoform	3.0	ug/L	U	SW846 8260B	0.3	1.0	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	108-88-3	196	Toluene	1.0	ug/L	U	SW846 8260B	0.3	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	74-87-3	137	Chloromethane	1.0	ug/L	U	SW846 8260B	0.1	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	74-83-9	136	Bromomethane	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	75-00-3	41	Chloroethane	10.0	ug/L	U	SW846 8260B	0.1	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	67-64-1	3	Acetone	100	ug/L	U	SW846 8260B	1.2	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	75-15-0	35	Carbon Disulfide	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	SW846 8260B	0.2	1.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	78-93-3	141	2-Butanone	100	ug/L	U	SW846 8260B	0.9	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	SW846 8260B	1.0	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	591-78-6	124	2-Hexanone	50.0	ug/L	U	SW846 8260B	1.4	5.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	100-42-5	186	Styrene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	1330-20-7	346	Total Xylenes	5.0	ug/L	U	SW846 8260B	0.3	1.0	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	107-13-1	8	Acrylonitrile	200	ug/L	U	SW846 8260B	12.4	100	200	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	74-88-4	142	Methyl Iodide	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	74-97-5	28	Bromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	74-95-3	139	Dibromomethane	10.0	ug/L	U	SW846 8260B	0.3	0.5	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	ug/L	U	SW846 8260B	0.5	5.0	13.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-2R	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34

RAL Sample #: 676795

N/A = Not Applicable

U = Not detected.

J = Concentrations that are detected below the SWSLs. These concentrations are considered "estimated" per NCDENR.

B = Lab blank contamination.

µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County- Roaring River Landfill - Inorganics																
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	MW-6	7440-36-0	13	Antimony	**1.7**	ug/L	J	SW846 7010	1.2	3.0	6.0	1	06/22/2010	06/24/2010	07/16/2010	34
97-04	MW-6	7440-38-2	14	Arsenic	10.0	ug/L	U	SW846 6010C	5.5	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-6	7440-39-3	15	Barium	**118**	ug/L		SW846 6010C	1.1	40.0	100	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-6	7440-41-7	23	Beryllium	**0.3**	ug/L	J	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-6	744-43-9	34	Cadmium	**0.4**	ug/L	J	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-6	7440-47-3	51	Chromium	**2.8**	ug/L	J	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-6	7440-48-4	53	Cobalt	**4.0**	ug/L	J	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-6	7440-50-8	54	Copper	**4.5**	ug/L	J	SW846 6010C	2.0	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-6	7439-92-1	131	Lead	**8.8**	ug/L	J	SW846 6010C	2.0	5.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-6	7440-02-0	152	Nickel	50.0	ug/L	U	SW846 6010C	0.6	10.0	50.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-6	7782-49-2	183	Selenium	10.0	ug/L	U	SW846 6010C	6.3	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-6	7440-22-4	184	Silver	10.0	ug/L	U	SW846 6010C	1.1	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-6	7440-28-0	194	Thallium	5.5	ug/L	U	SW846 6010C	2.7	5.0	5.5	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-6	7440-62-2	209	Vanadium	**5.6**	ug/L	J	SW846 6010C	0.4	10.0	25.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-6	7440-66-6	213	Zinc	**25.4**	ug/L		SW846 6010C	2.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34

RAL Sample #: 676796

N/A = Not Applicable

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Wilkes County- Roaring River Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	MW-6	75-09-2	140	Methylene Chloride	1.0	ug/L	U	SW846 8260B	0.6	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	SW846 8260B	0.2	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	67-66-3	44	Chloroform	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	79-01-6	201	Trichloroethene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	124-48-1	66	Dibromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	79-00-5	202	1,1,2-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	108-90-7	39	Chlorobenzene	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	71-43-2	16	Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	75-25-2	30	Bromoform	3.0	ug/L	U	SW846 8260B	0.3	1.0	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	108-88-3	196	Toluene	1.0	ug/L	U	SW846 8260B	0.3	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	74-87-3	137	Chloromethane	1.0	ug/L	U	SW846 8260B	0.1	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	74-83-9	136	Bromomethane	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	75-00-3	41	Chloroethane	10.0	ug/L	U	SW846 8260B	0.1	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	67-64-1	3	Acetone	100	ug/L	U	SW846 8260B	1.2	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	75-15-0	35	Carbon Disulfide	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	SW846 8260B	0.2	1.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	78-93-3	141	2-Butanone	100	ug/L	U	SW846 8260B	0.9	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	SW846 8260B	1.0	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	591-78-6	124	2-Hexanone	50.0	ug/L	U	SW846 8260B	1.4	5.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	100-42-5	186	Styrene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	1330-20-7	346	Total Xylenes	5.0	ug/L	U	SW846 8260B	0.3	1.0	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	107-13-1	8	Acrylonitrile	200	ug/L	U	SW846 8260B	12.4	100	200	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	74-88-4	142	Methyl Iodide	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	74-97-5	28	Bromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	74-95-3	139	Dibromomethane	10.0	ug/L	U	SW846 8260B	0.3	0.5	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	ug/L	U	SW846 8260B	0.5	5.0	13.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-6	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34

RAL Sample #: 676796

N/A = Not Applicable

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Wilkes County- Roaring River Landfill - Inorganics																
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	MW-7	7440-36-0	13	Antimony	**13.0**	ug/L		SW846 7010	1.2	3.0	6.0	1	06/22/2010	06/24/2010	07/16/2010	34
97-04	MW-7	7440-38-2	14	Arsenic	10.0	ug/L	U	SW846 6010C	5.5	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-7	7440-39-3	15	Barium	**507**	ug/L		SW846 6010C	1.1	40.0	100	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-7	7440-41-7	23	Beryllium	1.0	ug/L	U	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-7	744-43-9	34	Cadmium	**0.6**	ug/L	J	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-7	7440-47-3	51	Chromium	10.0	ug/L	U	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-7	7440-48-4	53	Cobalt	**0.9**	ug/L	J	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-7	7440-50-8	54	Copper	**5.2**	ug/L	J	SW846 6010C	2.0	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-7	7439-92-1	131	Lead	**3.7**	ug/L	J	SW846 6010C	2.0	5.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-7	7440-02-0	152	Nickel	**2.2**	ug/L	J	SW846 6010C	0.6	10.0	50.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-7	7782-49-2	183	Selenium	10.0	ug/L	U	SW846 6010C	6.3	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-7	7440-22-4	184	Silver	10.0	ug/L	U	SW846 6010C	1.1	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-7	7440-28-0	194	Thallium	**4.3**	ug/L	J	SW846 6010C	2.7	5.0	5.5	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-7	7440-62-2	209	Vanadium	**1.6**	ug/L	J	SW846 6010C	0.4	10.0	25.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-7	7440-66-6	213	Zinc	**66.5**	ug/L		SW846 6010C	2.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34

RAL Sample #: 676797

N/A = Not Applicable

U = Not detected.

J = Concentrations that are detected below the SWSLs. These concentrations are considered "estimated" per NCDENR.

B = Lab blank contamination.

µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County- Roaring River Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	MW-7	75-09-2	140	Methylene Chloride	1.0	ug/L	U	SW846 8260B	0.6	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	SW846 8260B	0.2	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	67-66-3	44	Chloroform	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	79-01-6	201	Trichloroethene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	124-48-1	66	Dibromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	79-00-5	202	1,1,2-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	108-90-7	39	Chlorobenzene	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	71-43-2	16	Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	75-25-2	30	Bromoform	3.0	ug/L	U	SW846 8260B	0.3	1.0	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	108-88-3	196	Toluene	1.0	ug/L	U	SW846 8260B	0.3	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	74-87-3	137	Chloromethane	1.0	ug/L	U	SW846 8260B	0.1	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	74-83-9	136	Bromomethane	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	75-00-3	41	Chloroethane	10.0	ug/L	U	SW846 8260B	0.1	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	67-64-1	3	Acetone	100	ug/L	U	SW846 8260B	1.2	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	75-15-0	35	Carbon Disulfide	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	SW846 8260B	0.2	1.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	78-93-3	141	2-Butanone	100	ug/L	U	SW846 8260B	0.9	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	SW846 8260B	1.0	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	591-78-6	124	2-Hexanone	50.0	ug/L	U	SW846 8260B	1.4	5.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	100-42-5	186	Styrene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	1330-20-7	346	Total Xylenes	5.0	ug/L	U	SW846 8260B	0.3	1.0	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	107-13-1	8	Acrylonitrile	200	ug/L	U	SW846 8260B	12.4	100	200	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	74-88-4	142	Methyl Iodide	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	74-97-5	28	Bromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	74-95-3	139	Dibromomethane	10.0	ug/L	U	SW846 8260B	0.3	0.5	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	ug/L	U	SW846 8260B	0.5	5.0	13.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-7	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34

RAL Sample #: 676797

N/A = Not Applicable

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Wilkes County- Roaring River Landfill - Inorganics																
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	MW-9	7440-36-0	13	Antimony	**1.0**	ug/L	J	SW846 7010	1.2	3.0	6.0	1	06/22/2010	06/24/2010	07/16/2010	34
97-04	MW-9	7440-38-2	14	Arsenic	10.0	ug/L	U	SW846 6010C	5.5	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-9	7440-39-3	15	Barium	**62.2**	ug/L	J	SW846 6010C	1.1	40.0	100	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-9	7440-41-7	23	Beryllium	1.0	ug/L	U	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-9	744-43-9	34	Cadmium	**0.3**	ug/L	J	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-9	7440-47-3	51	Chromium	10.0	ug/L	U	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-9	7440-48-4	53	Cobalt	10.0	ug/L	U	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-9	7440-50-8	54	Copper	**2.0**	ug/L	J	SW846 6010C	2.0	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-9	7439-92-1	131	Lead	**3.1**	ug/L	J	SW846 6010C	2.0	5.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-9	7440-02-0	152	Nickel	**2.3**	ug/L	J	SW846 6010C	0.6	10.0	50.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-9	7782-49-2	183	Selenium	10.0	ug/L	U	SW846 6010C	6.3	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-9	7440-22-4	184	Silver	10.0	ug/L	U	SW846 6010C	1.1	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-9	7440-28-0	194	Thallium	5.5	ug/L	U	SW846 6010C	2.7	5.0	5.5	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-9	7440-62-2	209	Vanadium	25.0	ug/L	U	SW846 6010C	0.4	10.0	25.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-9	7440-66-6	213	Zinc	**37.0**	ug/L		SW846 6010C	2.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34

RAL Sample #: 676798

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Wilkes County- Roaring River Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	MW-9	75-09-2	140	Methylene Chloride	1.0	ug/L	U	SW846 8260B	0.6	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	SW846 8260B	0.2	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	67-66-3	44	Chloroform	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	79-01-6	201	Trichloroethene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	124-48-1	66	Dibromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	79-00-5	202	1,1,2-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	108-90-7	39	Chlorobenzene	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	71-43-2	16	Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	75-25-2	30	Bromoform	3.0	ug/L	U	SW846 8260B	0.3	1.0	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	108-88-3	196	Toluene	1.0	ug/L	U	SW846 8260B	0.3	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	74-87-3	137	Chloromethane	1.0	ug/L	U	SW846 8260B	0.1	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	74-83-9	136	Bromomethane	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	75-00-3	41	Chloroethane	10.0	ug/L	U	SW846 8260B	0.1	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	67-64-1	3	Acetone	100	ug/L	U	SW846 8260B	1.2	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	75-15-0	35	Carbon Disulfide	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	SW846 8260B	0.2	1.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	78-93-3	141	2-Butanone	100	ug/L	U	SW846 8260B	0.9	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	SW846 8260B	1.0	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	591-78-6	124	2-Hexanone	50.0	ug/L	U	SW846 8260B	1.4	5.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	100-42-5	186	Styrene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	1330-20-7	346	Total Xylenes	5.0	ug/L	U	SW846 8260B	0.3	1.0	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	107-13-1	8	Acrylonitrile	200	ug/L	U	SW846 8260B	12.4	100	200	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	74-88-4	142	Methyl Iodide	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	74-97-5	28	Bromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	74-95-3	139	Dibromomethane	10.0	ug/L	U	SW846 8260B	0.3	0.5	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	ug/L	U	SW846 8260B	0.5	5.0	13.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-9	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34

RAL Sample #: 676798

N/A = Not Applicable

U = Not detected.

J = Concentrations that are detected below the SWSLs. These concentrations are considered "estimated" per NCDENR.

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µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County- Roaring River Landfill - Inorganics																
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	MW-12D	7440-36-0	13	Antimony	**5.6**	ug/L	J	SW846 7010	1.2	3.0	6.0	1	06/22/2010	06/24/2010	07/16/2010	34
97-04	MW-12D	7440-38-2	14	Arsenic	10.0	ug/L	U	SW846 6010C	5.5	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-12D	7440-39-3	15	Barium	**7.8**	ug/L	J	SW846 6010C	1.1	40.0	100	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-12D	7440-41-7	23	Beryllium	1.0	ug/L	U	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-12D	744-43-9	34	Cadmium	**0.5**	ug/L	J	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-12D	7440-47-3	51	Chromium	**3.0**	ug/L	J	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-12D	7440-48-4	53	Cobalt	10.0	ug/L	U	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-12D	7440-50-8	54	Copper	**9.3**	ug/L	J	SW846 6010C	2.0	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-12D	7439-92-1	131	Lead	**1.6**	ug/L	J	SW846 6010C	2.0	5.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-12D	7440-02-0	152	Nickel	10.0	ug/L	U	SW846 6010C	0.6	10.0	50.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-12D	7782-49-2	183	Selenium	10.0	ug/L	U	SW846 6010C	6.3	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-12D	7440-22-4	184	Silver	**26.4**	ug/L		SW846 6010C	1.1	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-12D	7440-28-0	194	Thallium	**3.5**	ug/L	J	SW846 6010C	2.7	5.0	5.5	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-12D	7440-62-2	209	Vanadium	**26.3**	ug/L		SW846 6010C	0.4	10.0	25.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-12D	7440-66-6	213	Zinc	**15.4**	ug/L		SW846 6010C	2.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34

RAL Sample #: 676799

N/A = Not Applicable

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B = Lab blank contamination.

µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County- Roaring River Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	MW-12D	75-09-2	140	Methylene Chloride	1.0	ug/L	U	SW846 8260B	0.6	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	SW846 8260B	0.2	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	67-66-3	44	Chloroform	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	79-01-6	201	Trichloroethene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	124-48-1	66	Dibromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	79-00-5	202	1,1,2-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	108-90-7	39	Chlorobenzene	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	71-43-2	16	Benzene	**0.6**	ug/L	J	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	75-25-2	30	Bromoform	3.0	ug/L	U	SW846 8260B	0.3	1.0	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	108-88-3	196	Toluene	1.0	ug/L	U	SW846 8260B	0.3	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	74-87-3	137	Chloromethane	1.0	ug/L	U	SW846 8260B	0.1	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	74-83-9	136	Bromomethane	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	75-00-3	41	Chloroethane	10.0	ug/L	U	SW846 8260B	0.1	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	67-64-1	3	Acetone	100	ug/L	U	SW846 8260B	1.2	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	75-15-0	35	Carbon Disulfide	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	SW846 8260B	0.2	1.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	78-93-3	141	2-Butanone	100	ug/L	U	SW846 8260B	0.9	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	SW846 8260B	1.0	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	591-78-6	124	2-Hexanone	50.0	ug/L	U	SW846 8260B	1.4	5.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	100-42-5	186	Styrene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	1330-20-7	346	Total Xylenes	5.0	ug/L	U	SW846 8260B	0.3	1.0	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	107-13-1	8	Acrylonitrile	200	ug/L	U	SW846 8260B	12.4	100	200	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	74-88-4	142	Methyl Iodide	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	74-97-5	28	Bromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	74-95-3	139	Dibromomethane	10.0	ug/L	U	SW846 8260B	0.3	0.5	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	ug/L	U	SW846 8260B	0.5	5.0	13.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-12D	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34

RAL Sample #: 676799

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Wilkes County- Roaring River Landfill - Inorganics																
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	MW-17	7440-36-0	13	Antimony	**5.6**	ug/L	J	SW846 7010	1.2	3.0	6.0	1	06/22/2010	06/24/2010	07/16/2010	34
97-04	MW-17	7440-38-2	14	Arsenic	10.0	ug/L	U	SW846 6010C	5.5	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-17	7440-39-3	15	Barium	**49.7**	ug/L	J	SW846 6010C	1.1	40.0	100	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-17	7440-41-7	23	Beryllium	1.0	ug/L	U	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-17	744-43-9	34	Cadmium	1.0	ug/L	U	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-17	7440-47-3	51	Chromium	**2.3**	ug/L	J	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-17	7440-48-4	53	Cobalt	10.0	ug/L	U	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-17	7440-50-8	54	Copper	**2.3**	ug/L	J	SW846 6010C	2.0	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-17	7439-92-1	131	Lead	10.0	ug/L	U	SW846 6010C	2.0	5.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-17	7440-02-0	152	Nickel	50.0	ug/L	U	SW846 6010C	0.6	10.0	50.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-17	7782-49-2	183	Selenium	10.0	ug/L	U	SW846 6010C	6.3	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-17	7440-22-4	184	Silver	10.0	ug/L	U	SW846 6010C	1.1	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-17	7440-28-0	194	Thallium	5.5	ug/L	U	SW846 6010C	2.7	5.0	5.5	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-17	7440-62-2	209	Vanadium	25.0	ug/L	U	SW846 6010C	0.4	10.0	25.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-17	7440-66-6	213	Zinc	**21.8**	ug/L		SW846 6010C	2.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34

RAL Sample #: 676800

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Wilkes County- Roaring River Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	MW-17	75-09-2	140	Methylene Chloride	1.0	ug/L	U	SW846 8260B	0.6	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	SW846 8260B	0.2	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	67-66-3	44	Chloroform	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	79-01-6	201	Trichloroethene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	124-48-1	66	Dibromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	79-00-5	202	1,1,2-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	108-90-7	39	Chlorobenzene	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	71-43-2	16	Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	75-25-2	30	Bromoform	3.0	ug/L	U	SW846 8260B	0.3	1.0	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	108-88-3	196	Toluene	1.0	ug/L	U	SW846 8260B	0.3	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	74-87-3	137	Chloromethane	1.0	ug/L	U	SW846 8260B	0.1	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	74-83-9	136	Bromomethane	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	75-00-3	41	Chloroethane	10.0	ug/L	U	SW846 8260B	0.1	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	67-64-1	3	Acetone	100	ug/L	U	SW846 8260B	1.2	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	75-15-0	35	Carbon Disulfide	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	SW846 8260B	0.2	1.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	78-93-3	141	2-Butanone	100	ug/L	U	SW846 8260B	0.9	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	SW846 8260B	1.0	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	591-78-6	124	2-Hexanone	50.0	ug/L	U	SW846 8260B	1.4	5.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	100-42-5	186	Styrene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	1330-20-7	346	Total Xylenes	5.0	ug/L	U	SW846 8260B	0.3	1.0	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	107-13-1	8	Acrylonitrile	200	ug/L	U	SW846 8260B	12.4	100	200	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	74-88-4	142	Methyl Iodide	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	74-97-5	28	Bromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	74-95-3	139	Dibromomethane	10.0	ug/L	U	SW846 8260B	0.3	0.5	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	ug/L	U	SW846 8260B	0.5	5.0	13.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-17	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34

RAL Sample #: 676800

N/A = Not Applicable

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B = Lab blank contamination.

µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County- Roaring River Landfill - Inorganics																
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	MW-18	7440-36-0	13	Antimony	**1.1**	ug/L	J	SW846 7010	1.2	3.0	6.0	1	06/22/2010	06/24/2010	07/16/2010	34
97-04	MW-18	7440-38-2	14	Arsenic	10.0	ug/L	U	SW846 6010C	5.5	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-18	7440-39-3	15	Barium	**55.4**	ug/L	J	SW846 6010C	1.1	40.0	100	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-18	7440-41-7	23	Beryllium	**0.3**	ug/L	J	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-18	744-43-9	34	Cadmium	**0.8**	ug/L	J	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-18	7440-47-3	51	Chromium	**1.5**	ug/L	J	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-18	7440-48-4	53	Cobalt	**2.8**	ug/L	J	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-18	7440-50-8	54	Copper	**5.3**	ug/L	J	SW846 6010C	2.0	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-18	7439-92-1	131	Lead	**4.4**	ug/L	J	SW846 6010C	2.0	5.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-18	7440-02-0	152	Nickel	50.0	ug/L	U	SW846 6010C	0.6	10.0	50.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-18	7782-49-2	183	Selenium	10.0	ug/L	U	SW846 6010C	6.3	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-18	7440-22-4	184	Silver	10.0	ug/L	U	SW846 6010C	1.1	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-18	7440-28-0	194	Thallium	5.5	ug/L	U	SW846 6010C	2.7	5.0	5.5	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-18	7440-62-2	209	Vanadium	**1.7**	ug/L	J	SW846 6010C	0.4	10.0	25.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	MW-18	7440-66-6	213	Zinc	**33.5**	ug/L		SW846 6010C	2.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34

RAL Sample #: 676801

N/A = Not Applicable

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Wilkes County- Roaring River Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	MW-18	75-09-2	140	Methylene Chloride	1.0	ug/L	U	SW846 8260B	0.6	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	SW846 8260B	0.2	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	67-66-3	44	Chloroform	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	79-01-6	201	Trichloroethene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	124-48-1	66	Dibromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	79-00-5	202	1,1,2-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	108-90-7	39	Chlorobenzene	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	71-43-2	16	Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	75-25-2	30	Bromoform	3.0	ug/L	U	SW846 8260B	0.3	1.0	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	108-88-3	196	Toluene	1.0	ug/L	U	SW846 8260B	0.3	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	74-87-3	137	Chloromethane	1.0	ug/L	U	SW846 8260B	0.1	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	74-83-9	136	Bromomethane	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	75-00-3	41	Chloroethane	10.0	ug/L	U	SW846 8260B	0.1	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	67-64-1	3	Acetone	100	ug/L	U	SW846 8260B	1.2	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	75-15-0	35	Carbon Disulfide	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	SW846 8260B	0.2	1.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	78-93-3	141	2-Butanone	100	ug/L	U	SW846 8260B	0.9	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	SW846 8260B	1.0	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	591-78-6	124	2-Hexanone	50.0	ug/L	U	SW846 8260B	1.4	5.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	100-42-5	186	Styrene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	1330-20-7	346	Total Xylenes	5.0	ug/L	U	SW846 8260B	0.3	1.0	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	107-13-1	8	Acrylonitrile	200	ug/L	U	SW846 8260B	12.4	100	200	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	74-88-4	142	Methyl Iodide	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	74-97-5	28	Bromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	74-95-3	139	Dibromomethane	10.0	ug/L	U	SW846 8260B	0.3	0.5	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	ug/L	U	SW846 8260B	0.5	5.0	13.0	1	06/22/2010	N/A	07/01/2010	34
97-04	MW-18	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34

RAL Sample #: 676801

N/A = Not Applicable

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Wilkes County- Roaring River Landfill - Inorganics																
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	Duplicate	7440-36-0	13	Antimony	**3.2**	ug/L	J	SW846 7010	1.2	3.0	6.0	1	06/22/2010	06/24/2010	07/19/2010	34
97-04	Duplicate	7440-38-2	14	Arsenic	10.0	ug/L	U	SW846 6010C	5.5	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Duplicate	7440-39-3	15	Barium	**55.3**	ug/L	J	SW846 6010C	1.1	40.0	100	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Duplicate	7440-41-7	23	Beryllium	1.0	ug/L	U	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Duplicate	744-43-9	34	Cadmium	**0.2**	ug/L	J	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Duplicate	7440-47-3	51	Chromium	**1.5**	ug/L	J	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Duplicate	7440-48-4	53	Cobalt	**1.2**	ug/L	J	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Duplicate	7440-50-8	54	Copper	**2.3**	ug/L	J	SW846 6010C	2.0	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Duplicate	7439-92-1	131	Lead	**2.3**	ug/L	J	SW846 6010C	2.0	5.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Duplicate	7440-02-0	152	Nickel	50.0	ug/L	U	SW846 6010C	0.6	10.0	50.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Duplicate	7782-49-2	183	Selenium	10.0	ug/L	U	SW846 6010C	6.3	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Duplicate	7440-22-4	184	Silver	10.0	ug/L	U	SW846 6010C	1.1	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Duplicate	7440-28-0	194	Thallium	5.5	ug/L	U	SW846 6010C	2.7	5.0	5.5	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Duplicate	7440-62-2	209	Vanadium	**1.3**	ug/L	J	SW846 6010C	0.4	10.0	25.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Duplicate	7440-66-6	213	Zinc	**28.4**	ug/L		SW846 6010C	2.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34

RAL Sample #: 676802

N/A = Not Applicable

U = Not detected.

J = Concentrations that are detected below the SWSLs. These concentrations are considered "estimated" per NCDENR.

B = Lab blank contamination.

µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County- Roaring River Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	Duplicate	75-09-2	140	Methylene Chloride	1.0	ug/L	U	SW846 8260B	0.6	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	SW846 8260B	0.2	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	67-66-3	44	Chloroform	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	79-01-6	201	Trichloroethene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	124-48-1	66	Dibromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	79-00-5	202	1,1,2-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	108-90-7	39	Chlorobenzene	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	71-43-2	16	Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	75-25-2	30	Bromoform	3.0	ug/L	U	SW846 8260B	0.3	1.0	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	108-88-3	196	Toluene	1.0	ug/L	U	SW846 8260B	0.3	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	74-87-3	137	Chloromethane	1.0	ug/L	U	SW846 8260B	0.1	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	74-83-9	136	Bromomethane	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	75-00-3	41	Chloroethane	10.0	ug/L	U	SW846 8260B	0.1	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	67-64-1	3	Acetone	100	ug/L	U	SW846 8260B	1.2	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	75-15-0	35	Carbon Disulfide	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	SW846 8260B	0.2	1.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	78-93-3	141	2-Butanone	100	ug/L	U	SW846 8260B	0.9	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	SW846 8260B	1.0	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	591-78-6	124	2-Hexanone	50.0	ug/L	U	SW846 8260B	1.4	5.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	100-42-5	186	Styrene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	1330-20-7	346	Total Xylenes	5.0	ug/L	U	SW846 8260B	0.3	1.0	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	107-13-1	8	Acrylonitrile	200	ug/L	U	SW846 8260B	12.4	100	200	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	74-88-4	142	Methyl Iodide	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	74-97-5	28	Bromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	74-95-3	139	Dibromomethane	10.0	ug/L	U	SW846 8260B	0.3	0.5	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	ug/L	U	SW846 8260B	0.5	5.0	13.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Duplicate	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34

RAL Sample #: 676802

N/A = Not Applicable

U = Not detected.
J = Concentrations that are detected below the SWSLs. These concentrations are considered "estimated" per NCDENR.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County- Roaring River Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	FB	75-09-2	140	Methylene Chloride	1.0	ug/L	U	SW846 8260B	0.6	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	SW846 8260B	0.2	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	67-66-3	44	Chloroform	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	79-01-6	201	Trichloroethene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	124-48-1	66	Dibromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	79-00-5	202	1,1,2-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	108-90-7	39	Chlorobenzene	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	71-43-2	16	Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	75-25-2	30	Bromoform	3.0	ug/L	U	SW846 8260B	0.3	1.0	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	108-88-3	196	Toluene	1.0	ug/L	U	SW846 8260B	0.3	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	74-87-3	137	Chloromethane	1.0	ug/L	U	SW846 8260B	0.1	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	74-83-9	136	Bromomethane	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	75-00-3	41	Chloroethane	10.0	ug/L	U	SW846 8260B	0.1	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	67-64-1	3	Acetone	100	ug/L	U	SW846 8260B	1.2	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	75-15-0	35	Carbon Disulfide	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	SW846 8260B	0.2	1.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	78-93-3	141	2-Butanone	100	ug/L	U	SW846 8260B	0.9	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	SW846 8260B	1.0	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	591-78-6	124	2-Hexanone	50.0	ug/L	U	SW846 8260B	1.4	5.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	100-42-5	186	Styrene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	1330-20-7	346	Total Xylenes	5.0	ug/L	U	SW846 8260B	0.3	1.0	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	107-13-1	8	Acrylonitrile	200	ug/L	U	SW846 8260B	12.4	100	200	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	74-88-4	142	Methyl Iodide	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	74-97-5	28	Bromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	74-95-3	139	Dibromomethane	10.0	ug/L	U	SW846 8260B	0.3	0.5	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	ug/L	U	SW846 8260B	0.5	5.0	13.0	1	06/22/2010	N/A	07/01/2010	34
97-04	FB	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34

RAL Sample #: 676803

N/A = Not Applicable

U = Not detected.

J = Concentrations that are detected below the SWSLs. These concentrations are considered "estimated" per NCDENR.

B = Lab blank contamination.

µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County- Roaring River Landfill - Inorganics																
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	FB	7440-36-0	13	Antimony	**1.8**	ug/L	J	SW846 7010	1.2	3.0	6.0	1	06/22/2010	06/24/2010	07/16/2010	34
97-04	FB	7440-38-2	14	Arsenic	10.0	ug/L	U	SW846 6010C	5.5	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	FB	7440-39-3	15	Barium	**1.7**	ug/L	J	SW846 6010C	1.1	40.0	100	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	FB	7440-41-7	23	Beryllium	1.0	ug/L	U	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	FB	744-43-9	34	Cadmium	1.0	ug/L	U	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	FB	7440-47-3	51	Chromium	10.0	ug/L	U	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	FB	7440-48-4	53	Cobalt	10.0	ug/L	U	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	FB	7440-50-8	54	Copper	10.0	ug/L	U	SW846 6010C	2.0	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	FB	7439-92-1	131	Lead	**1.3**	ug/L	J	SW846 6010C	2.0	5.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	FB	7440-02-0	152	Nickel	50.0	ug/L	U	SW846 6010C	0.6	10.0	50.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	FB	7782-49-2	183	Selenium	10.0	ug/L	U	SW846 6010C	6.3	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	FB	7440-22-4	184	Silver	10.0	ug/L	U	SW846 6010C	1.1	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	FB	7440-28-0	194	Thallium	5.5	ug/L	U	SW846 6010C	2.7	5.0	5.5	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	FB	7440-62-2	209	Vanadium	25.0	ug/L	U	SW846 6010C	0.4	10.0	25.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	FB	7440-66-6	213	Zinc	**4.9**	ug/L	J	SW846 6010C	2.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34

RAL Sample #: 676803

N/A = Not Applicable

U = Not detected.

J = Concentrations that are detected below the SWSLs. These concentrations are considered "estimated" per NCDENR.

B = Lab blank contamination.

µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County- Roaring River Landfill - Inorganics																
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	TB	7440-36-0	13	Antimony	**4.4**	ug/L	J	SW846 7010	1.2	3.0	6.0	1	06/22/2010	06/24/2010	07/19/2010	34
97-04	TB	7440-38-2	14	Arsenic	10.0	ug/L	U	SW846 6010C	5.5	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	TB	7440-39-3	15	Barium	**1.7**	ug/L	J	SW846 6010C	1.1	40.0	100	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	TB	7440-41-7	23	Beryllium	1.0	ug/L	U	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	TB	744-43-9	34	Cadmium	1.0	ug/L	U	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	TB	7440-47-3	51	Chromium	10.0	ug/L	U	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	TB	7440-48-4	53	Cobalt	10.0	ug/L	U	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	TB	7440-50-8	54	Copper	10.0	ug/L	U	SW846 6010C	2.0	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	TB	7439-92-1	131	Lead	**2.9**	ug/L	J	SW846 6010C	2.0	5.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	TB	7440-02-0	152	Nickel	50.0	ug/L	U	SW846 6010C	0.6	10.0	50.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	TB	7782-49-2	183	Selenium	10.0	ug/L	U	SW846 6010C	6.3	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	TB	7440-22-4	184	Silver	10.0	ug/L	U	SW846 6010C	1.1	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	TB	7440-28-0	194	Thallium	5.5	ug/L	U	SW846 6010C	2.7	5.0	5.5	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	TB	7440-62-2	209	Vanadium	25.0	ug/L	U	SW846 6010C	0.4	10.0	25.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	TB	7440-66-6	213	Zinc	**7.9**	ug/L	J	SW846 6010C	2.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34

RAL Sample #: 676804

N/A = Not Applicable

U = Not detected.

J = Concentrations that are detected below the SWSLs. These concentrations are considered "estimated" per NCDENR.

B = Lab blank contamination.

µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County- Roaring River Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	TB	75-09-2	140	Methylene Chloride	1.0	ug/L	U	SW846 8260B	0.6	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	SW846 8260B	0.2	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	67-66-3	44	Chloroform	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	79-01-6	201	Trichloroethene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	124-48-1	66	Dibromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	79-00-5	202	1,1,2-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	108-90-7	39	Chlorobenzene	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	71-43-2	16	Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	75-25-2	30	Bromoform	3.0	ug/L	U	SW846 8260B	0.3	1.0	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	108-88-3	196	Toluene	1.0	ug/L	U	SW846 8260B	0.3	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	74-87-3	137	Chloromethane	1.0	ug/L	U	SW846 8260B	0.1	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	74-83-9	136	Bromomethane	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	75-00-3	41	Chloroethane	10.0	ug/L	U	SW846 8260B	0.1	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	67-64-1	3	Acetone	100	ug/L	U	SW846 8260B	1.2	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	75-15-0	35	Carbon Disulfide	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	SW846 8260B	0.2	1.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	78-93-3	141	2-Butanone	100	ug/L	U	SW846 8260B	0.9	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	SW846 8260B	1.0	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	591-78-6	124	2-Hexanone	50.0	ug/L	U	SW846 8260B	1.4	5.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	100-42-5	186	Styrene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	1330-20-7	346	Total Xylenes	5.0	ug/L	U	SW846 8260B	0.3	1.0	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	107-13-1	8	Acrylonitrile	200	ug/L	U	SW846 8260B	12.4	100	200	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	74-88-4	142	Methyl Iodide	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	74-97-5	28	Bromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	74-95-3	139	Dibromomethane	10.0	ug/L	U	SW846 8260B	0.3	0.5	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	ug/L	U	SW846 8260B	0.5	5.0	13.0	1	06/22/2010	N/A	07/01/2010	34
97-04	TB	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34

RAL Sample #: 676804

N/A = Not Applicable

U = Not detected.

J = Concentrations that are detected below the SWSLs. These concentrations are considered "estimated" per NCDENR.

B = Lab blank contamination.

µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County - Roaring River - Leachate - Inorganics																
FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	Leachate	7440-36-0	13	Antimony	**1.2**	ug/L	J	SW846 7010	1.2	3.0	6.0	1	06/22/2010	06/24/2010	08/09/2010	34
97-04	Leachate	7440-38-2	14	Arsenic	10.0	ug/L	U	SW846 6010C	5.5	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Leachate	7440-39-3	15	Barium	**55.8**	ug/L	J	SW846 6010C	1.1	40.0	100	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Leachate	7440-41-7	23	Beryllium	1.0	ug/L	U	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Leachate	744-43-9	34	Cadmium	1.0	ug/L	U	SW846 6010C	0.2	1.0	1.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Leachate	7440-47-3	51	Chromium	**2.0**	ug/L	J	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Leachate	7440-48-4	53	Cobalt	**9.1**	ug/L	J	SW846 6010C	0.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Leachate	7440-50-8	54	Copper	**4.2**	ug/L	J	SW846 6010C	2.0	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Leachate	7439-92-1	131	Lead	10.0	ug/L	U	SW846 6010C	2.0	5.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Leachate	7440-02-0	152	Nickel	**35.8**	ug/L	J	SW846 6010C	0.6	10.0	50.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Leachate	7782-49-2	183	Selenium	10.0	ug/L	U	SW846 6010C	6.3	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Leachate	7440-22-4	184	Silver	10.0	ug/L	U	SW846 6010C	1.1	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Leachate	7440-28-0	194	Thallium	5.5	ug/L	U	SW846 6010C	2.7	5.0	5.5	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Leachate	7440-62-2	209	Vanadium	**1.2**	ug/L	J	SW846 6010C	0.4	10.0	25.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Leachate	7440-66-6	213	Zinc	**46.2**	ug/L		SW846 6010C	2.7	10.0	10.0	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Leachate	7439-96-5	342	Manganese	**311**	ug/L		SW846 6010C	0.2	10.0	NE	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Leachate	7439-98-7	397	Molydenum	**1.6**	ug/L	J	SW846 6010C	1.3	10.0	NE	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Leachate	7439-97-6	132	Mercury	**0.04**	ug/L	J	EPA 245.1	0.01	10.0	0.2	1	06/22/2010	07/13/2010	07/14/2010	34
97-04	Leachate	SW316	316	BOD	6.0	mg/L	U	SM5210B	2.0	2.0	NE	1	06/22/2010	06/24/2010	06/24/2010	34
97-04	Leachate	NE	NE	Oil & Grease	5.0	mg/L	U	EPA 1664	5.0	5.0	NE	1	06/22/2010	06/24/2010	06/30/2010	34
97-04	Leachate	57-12-5	58	Cyanide	5.0	ug/L	U	SM4500 CN E	5.0	5.0	10.0	1	06/22/2010	06/24/2010	06/24/2010	34
97-04	Leachate	SW343	343	TSS	**5.5**	mg/L		SM2540D	1.0	1.0	NE	1	06/22/2010	06/24/2010	06/25/2010	34

RAL Sample #: 676805

N/A = Not Applicable

U = Not detected.

J = Concentrations that are detected below the SWSLs. These concentrations are considered "estimated" per NCDENR.

B = Lab blank contamination.

µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County - Roaring River -Leachate - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	METHOD	MDL	MRL	SWSL	DILUTION FACTOR	COLLECTION DATE	EXTRACTION DATE	ANALYSIS DATE	NC Laboratory Certification Number
97-04	Leachate	75-09-2	140	Methylene Chloride	1.0	ug/L	U	SW846 8260B	0.6	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	SW846 8260B	0.2	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	67-66-3	44	Chloroform	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	79-01-6	201	Trichloroethene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	124-48-1	66	Dibromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	79-00-5	202	1,1,2-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	108-90-7	39	Chlorobenzene	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	71-43-2	16	Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	75-25-2	30	Bromoform	3.0	ug/L	U	SW846 8260B	0.3	1.0	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	79-34-5	191	1,1,2,2-Tetrachloroethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	108-88-3	196	Toluene	1.0	ug/L	U	SW846 8260B	0.3	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	74-87-3	137	Chloromethane	1.0	ug/L	U	SW846 8260B	0.1	1.0	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	74-83-9	136	Bromomethane	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	75-00-3	41	Chloroethane	10.0	ug/L	U	SW846 8260B	0.1	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	67-64-1	3	Acetone	100	ug/L	U	SW846 8260B	1.2	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	75-15-0	35	Carbon Disulfide	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	SW846 8260B	0.2	1.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	78-93-3	141	2-Butanone	100	ug/L	U	SW846 8260B	0.9	25	100	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	SW846 8260B	1.0	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	591-78-6	124	2-Hexanone	50.0	ug/L	U	SW846 8260B	1.4	5.0	50.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	100-42-5	186	Styrene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	1330-20-7	346	Total Xylenes	5.0	ug/L	U	SW846 8260B	0.3	1.0	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	107-13-1	8	Acrylonitrile	200	ug/L	U	SW846 8260B	12.4	100	200	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	SW846 8260B	0.5	5.0	100	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	74-88-4	142	Methyl Iodide	10.0	ug/L	U	SW846 8260B	0.2	1.0	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	74-97-5	28	Bromochloromethane	3.0	ug/L	U	SW846 8260B	0.1	0.5	3.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	74-95-3	139	Dibromomethane	10.0	ug/L	U	SW846 8260B	0.3	0.5	10.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	SW846 8260B	0.1	0.5	5.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	SW846 8260B	0.1	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	13.0	ug/L	U	SW846 8260B	0.5	5.0	13.0	1	06/22/2010	N/A	07/01/2010	34
97-04	Leachate	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	SW846 8260B	0.2	0.5	1.0	1	06/22/2010	N/A	07/01/2010	34

RAL Sample #: 676805

N/A = Not Applicable

U = Not detected.

J = Concentrations that are detected below the SWSLs. These concentrations are considered "estimated" per NCDENR.

B = Lab blank contamination.

µg/L = micrograms per Liter = parts per billion (ppb)

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical / Process Consultations
Phone (336) 996-2841

CHAIN OF CUSTODY RECORD

COMPANY: Wilkes Co. Landfills
JOB NO.:
STREET ADDRESS:
PROJECT: Roaring River
CITY, STATE, ZIP:
SAMPLER NAME (PLEASE PRINT): Glenn Rice
CONTACT:
PHONE:
SAMPLER SIGNATURE:

WATER / WASTEWATER | MISC.

SAMPLE NUMBER (LAB USE ONLY)	DATE	TIME	COMP	GRAB	TEMP °C	RES Cl	CHLORINE REMOVED (Y or N)	SAMPLE MATRIX (S or W)	SAMPLE LOCATION / I.D.	NO. OF CONTAINERS	2L G (BNA, Herb. / Pest.)	2 40ml Vials (VOA) HCL	250ml G (TOX)	250ml P (TOC) H_2SO_4	1L P.G (BOD, TSS, Unpreserved, etc.)	1L G (Phenol, Oil & Grease) H_2SO_4	1L P.G (COD, N, P) H_2SO_4	1L P.G (Metals, Hardness) HNO_3	Sterile P.G (Coliform)	1L Small plastic				REQUESTED ANALYSIS
676795	6/22/10	0951		✓				W	MW 2R	6		4						1			1				*See Remarks
796		1101		✓				W	MW-6	6		4						1			1				
797		1056		✓				W	MW-7	6		4						1			1				
798		1039		✓				W	MW-9	6		4						1			1				
799		1022		✓				W	MW-12D	6		4						1			1				
800		~~1045~~ 1037		✓				W	MW-17	6		4						1			1				
801	1038	~~1037~~		✓				W	MW-18	6		4						1			1				
802		1037		✓				W	Duplicate	6		4						1			1				
803		1116		✓				W	FB	5		4						1							FB
804		0500		✓				W	TB	3		2						1							TB
~~805~~																									
~~806~~		1045		✓				W	Leachate	9		4			1	2		1	1						*Remarks + Hg, Mn, Mo,
676 805																									BOD, TSS, O&G, CN

RELINQUISHED BY	DATE/TIME	RECEIVED BY
[signature]	6/23/10 1015	[signature]
RELINQUISHED BY	DATE/TIME	RECEIVED BY

REMARKS: (* Sb, As, Ba, Be, Cd, Cr, Co, Cu, Ni, Pb, Se, Ag, Ti, V, Zn, VOA 8260, Cond)
ON ICE

SAMPLE TEMPERATURE AT RECEIPT: 3.3 °C

GROUNDWATER MONITORING FIELD LOG

			Personnel Present:	Comments:
Facility	Wilkes County		Glenn Price	**Well Shaft bent ~ 50' down unable to purge
	Roaring River Landfill	June 22, 2010		***Well shaft bent ~3' down unable to purge
Weather	Partly Cloudy 84°F	Date		****Well shaft filled and sealed

Monitoring Well No..	MW-2 R	MW-5***	MW-6	MW-7	MW-8 ****	MW-9	MW-10	MW-12 S**	MW-12 D	Leachate	MW-17*	MW-18
Total Depth (FT.)	116.00	38.11	37.60	41.77	58.50	37.57	76.75	104.00	134.00		24.63	46.85
Surface Depth (FT.)	72.81	37.01	30.93	37.81		27.69	76.49	97.17	116.42		19.82	30.77
Water Depth (FT.)	43.19	1.10	6.67	3.96		9.88	0.26	6.83	17.58		4.81	16.08
Diameter (IN.)	2"	2"	2"	2"	2"	2"	2"	2"	2"		2"	2"
Conversion Factor	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16		0.16	0.16
Well Volume (GAL.)	6.91	0.18	1.07	0.63		1.58	0.04	1.09	2.81		0.77	2.57
Volume (GAL.) X 3	20.73		3.2	1.9		4.74			8.44		2.31	7.72
# Bails (L)	83		13	8		19			34		10	31
Purge Date	06/22/10		06/22/10	06/22/10		06/22/10			06/22/10		06/22/10	06/22/10
Purge Time (hrs.)	0909		0750	0803		0812			1000		0830	0851
Purge Method	Bailer		Bailer	Bailer		Bailer			Bailer		Bailer	Bailer
Volume Removed (GAL.)	21.00		2.75-Dry	0.75-Dry		4.75			6.50-Dry		2.50	7.75
Sampling Date	06/22/10	*Unable to Purge*	06/22/10	06/22/10	*Unable to Purge*	06/22/10	*Well Dry*	*Unable to Purge*	06/22/10	06/22/10	06/22/10	06/22/10
Sampling Time (hrs.)	0951		1101	1056		1039			1022	1045	1037	1030
Sampling Method	Bailer		Bailer	Bailer		Bailer			Bailer	Grab	Bailer	Bailer
pH (Standard Units)	6.72		6.19	6.44		6.11			10.39	7.34	5.01	5.89
Temperature (EC)	18.4		16.9	17.6		17.7			18.3	24.9	17.9	17.4
Conductivity (µmhos/cm)	159		59.2	226		798			346	3,180	51.1	48.0
Dissolved Oxygen (mg/L)												
Observations/Sampling	Clear		Slightly Turbid	Clear		Clear			Clear	Clear	Clear	Clear

* Duplicate

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Pace Analytical Services, Inc.
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(704)875-9092

September 30, 2010

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

RE: Project: WILKES CO. 356.1001.11.01
Pace Project No.: 9277628

Dear Mr. Kerly:
Enclosed are the analytical results for sample(s) received by the laboratory on September 15, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: WILKES CO. 356.1001.11.01
Pace Project No.: 9277628

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

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SAMPLE SUMMARY

Project: WILKES CO. 356.1001.11.01
Pace Project No.: 9277628

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9277628001	**9704-MW7**	Water	09/14/10 08:15	09/15/10 14:25
9277628002	**9704-MW12D**	Water	09/13/10 13:02	09/15/10 14:25
9277628003	**9704-FIELD BLANK**	Water	09/14/10 08:30	09/15/10 14:25

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SAMPLE ANALYTE COUNT

Project: WILKES CO. 356.1001.11.01
Pace Project No.: 9277628

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9277628001	**9704-MW7**	EPA 6010	JMW	1
9277628002	**9704-MW12D**	EPA 6010	JMW	2
9277628003	**9704-FIELD BLANK**	EPA 6010	JMW	3

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ANALYTICAL RESULTS

Project: WILKES CO. 356.1001.11.01
Pace Project No.: 9277628

Sample: 9704-MW7 **Lab ID: 9277628001** Collected: 09/14/10 08:15 Received: 09/15/10 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	09/27/10 12:15	09/29/10 05:41	7440-36-0	

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ANALYTICAL RESULTS

Project: WILKES CO. 356.1001.11.01
Pace Project No.: 9277628

Sample: 9704-MW12D **Lab ID: 9277628002** Collected: 09/13/10 13:02 Received: 09/15/10 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Silver	**0.11J**	ug/L	10.0	0.10	1	09/27/10 12:15	09/29/10 05:48	7440-22-4	
Vanadium	**11.5J**	ug/L	25.0	0.20	1	09/27/10 12:15	09/29/10 05:48	7440-62-2	

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ANALYTICAL RESULTS

Project: WILKES CO. 356.1001.11.01
Pace Project No.: 9277628

Sample: 9704-FIELD BLANK **Lab ID: 9277628003** Collected: 09/14/10 08:30 Received: 09/15/10 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	09/27/10 12:15	09/29/10 06:05	7440-36-0	
Silver	ND	ug/L	10.0	0.10	1	09/27/10 12:15	09/29/10 06:05	7440-22-4	
Vanadium	ND	ug/L	25.0	0.20	1	09/27/10 12:15	09/29/10 06:05	7440-62-2	

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QUALITY CONTROL DATA

Project: WILKES CO. 356.1001.11.01
Pace Project No.: 9277628

QC Batch: MPRP/7131 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9277628001, 9277628002, 9277628003

METHOD BLANK: 503363 Matrix: Water
Associated Lab Samples: 9277628001, 9277628002, 9277628003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	09/29/10 05:33	
Silver	ug/L	ND	10.0	09/29/10 05:33	
Vanadium	ug/L	ND	25.0	09/29/10 05:33	

LABORATORY CONTROL SAMPLE: 503364

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	480	96	80-120	
Silver	ug/L	250	234	94	80-120	
Vanadium	ug/L	500	485	97	80-120	

MATRIX SPIKE SAMPLE: 503365

Parameter	Units	9277628001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	473	95	75-125	
Silver	ug/L	0.43J	250	231	92	75-125	
Vanadium	ug/L	3.1J	500	479	95	75-125	

SAMPLE DUPLICATE: 503366

Parameter	Units	9277628002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Silver	ug/L	0.11J	ND		25	
Vanadium	ug/L	11.5J	11.1J	4	25	

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QUALIFIERS

Project: WILKES CO. 356.1001.11.01
Pace Project No.: 9277628

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WILKES CO. 356.1001.11.01
Pace Project No.: 9277628

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9277628001	**9704-MW7**	EPA 3010	MPRP/7131	EPA 6010	ICP/6575
9277628002	**9704-MW12D**	EPA 3010	MPRP/7131	EPA 6010	ICP/6575
9277628003	**9704-FIELD BLANK**	EPA 3010	MPRP/7131	EPA 6010	ICP/6575

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Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

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

Section B
Required Project Information:

Report To:	Jeremey Kerly
Copy To:	
Purchase Order No.	
Client Project ID:	Wilkes Co. 356.1001.11.01
Container Order Number:	

Section C
Invoice Information:

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

Regulatory Agency
DENR
State / Location
North Carolina

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

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

ITEM#	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Antimony	Antimondy (Dissolved)	Silver	Silver (Dissolved)	Vanadium	Vanadium (Dissolved)	Residual Chlorine (Y/N)	9277628
1	9704-MW7	WT	G			9/14/10	815		2			X						X	X						001
2	9704-MW12D	WT	G			9/15/10	1302		2			X								X	X	X	X		002
3	9704-Field Blank	WT	G			9/14/10	830		2			X						X		X		X			003
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Please provide DI water for the Field Blank.	Alex Everhart / SEI	9/15/10	1055	[illegible] / Pace	9/15/10	1055
Hold dissolved samples until analyses requested.	[illegible] / Pace	9/15	1425	[illegible] / PAI	09/15/10	1425
Dissolved samples will be laboratory filtered.						

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Alex Everhart

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/15/10

Sample Condition Upon Receipt

Pace Analytical

Client Name: Joyce Project # 92776628

Where Received: ☒ Huntersville ☐ Asheville ☐ Eden

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

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

Temp Correction Factor: Add / Subtract _____0_____C

Corrected Cooler Temp.: 3.0 C **Biological Tissue is Frozen:** Yes (No)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: LEA 09/15/10

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: WT	☑Yes	☐No	☐N/A	12. Recived Dissolved metals for 9704 Field BLANK
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased): _____				

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: QW **Date:** 9/15/10

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

F-CHR-CS-003-rev.00

DATE: 9/13-14/10

ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: Wilkes Co, Roaring River **Project No./Task No.:** 356.1001.11.01

Well ID: 9704-MW7 **Sampler(s):** Alex Everhart

Well Location: Between leachate lagoon and maintenance garage

Well Diameter: 2 inches

Initial Depth to Water (DTW): 38.07 feet

Depth to Bottom (DTB): 41.77 feet

Water Column Thickness (WCT): 3.70 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 0.60 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 1.80 gallons

Actual Amount Purged/Bailed : 1.80 gallons

Purged with: Disposable PVC bailer

Sampled with: Disposable PVC bailer

Depth to Water before Sampling : 38.07 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	920	15.6	7.21	191	49.3	AE
0.60	922	15.3	6.13	188	337	AE
1.20	925	15.0	5.99	179	628	AE
1.80	928	15.1	5.87	196	898	AE
	9/14/10					
Before Sampling	815	15.2	6.76	204	143	AE

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

A QED 0.45 micron QuickFilter used with bailer for dissolved sample.

Weather: 9/13-Sunny, 70's

9/14- Clear, 60's Field Blank Collected 9/14/10 @ 8:30

Signature: [signature] **Date:** 9/14/10

QA/QC Sign Off: [signature] **Date:** 9-21-10

DATE: 9/13/10

ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: Wilkes Co, Roaring River **Project No./Task No.:** 356.1001.11.01

Well ID: 9704-MW12D **Sampler(s):** Alex Everhart

Well Location: part-way up beside access road to fill area

Well Diameter: 2 inches

Initial Depth to Water (DTW): 102.12 feet

Depth to Bottom (DTB): 134.00 feet

Water Column Thickness (WCT): 31.88 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 5.20 gallons

For 4" Well: WCT X 0.653 = _____ gallons

For THREE Well Volumes: WV X 3 = 15.60 gallons

Actual Amount Purged/Bailed : 8.5 gallons

Purged with: Disposable PVC bailer

Sampled with: Disposable PVC bailer

Depth to Water before Sampling : 115.81 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	820	15.1	9.41	297	20.1	AE
5.20	845	15.2	10.31	354	820	AE
DRY@ 8.5 Gal	-	-	-	-	-	
	9/13/10					
Before Sampling	1302	19.4	8.57	406	42.0	AE

Comments (weather conditions, odor, color, silt, etc.): well was dry after 8.5 gallons purged. A QED 0.45 micron QuickFilter used with bailer for dissolved sample.

Weather: Sunny, 60's and Sunny 80's at sample time

Signature: [signature] **Date:** 9/13/10

QA/QC Sign Off: [signature] **Date:** 9-21-10