Prepared for:

Coastal Regional Solid Waste Management Authority
P.O. Box 128
Cove City, North Carolina 28523

JEI Project No. 00618.1001.12, Task No. 01

FIRST SEMIANNUAL GROUNDWATER MONITORING REPORT OF 2011

COASTAL REGIONAL SOLID WASTE MANAGEMENT AUTHORITY
TUSCARORA LANDFILL
CRAVEN COUNTY, NORTH CAROLINA
PERMIT NUMBERS 25-04 & 25-09

August 2011

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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)
Coastal Regional Solid Waste Management Authority Tuscarora Landfills	7400 Old Hwy 70 West New Bern, NC 28562	25-04 & 25-09	.1600	April 27, 2011

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Jeremey J. Kerly — Facility Representative Name (Print)

Senior Project Consultant — Title

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

Signature — Date: 8-5-11

Affix NC Licensed/ Professional Geologist Seal

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

Revised 6/2009

First Semiannual Groundwater Monitoring Report of 2011
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Craven County, North Carolina

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1.0 INTRODUCTION

1.1 Site Information

The Tuscarora Landfill is owned and operated by the Coastal Regional Solid Waste Management Authority (CRSWMA) and is currently operating under North Carolina Solid Waste Permit Nos. 25-04 and 25-09. The landfill is located off of Old Highway 70, near the town of New Bern in northwestern Craven County, North Carolina. The property boundary is indicated on an excerpt from the 7.5 minute USGS topographic map for Jasper, North Carolina (Figure No. 1). Surface water is directed through a network of constructed drainage ditches to the north-northeast towards Jumping Run, a tributary of Bachelor Creek. Groundwater flow is to the east-southeast towards Beaverdam Branch, which is another tributary of Bachelor Creek located approximately 2.25 miles away. Bachelor Creek flows to the east to its confluence with the Neuse River.

The Tuscarora Landfill is indentified by three waste cells; the closed Tuscarora Interim Regional Landfill and Phases 1&2 of the Tuscarora Long-Term Regional Landfill. The Interim Regional Landfill and Phases 1&2 of the Long-Term Regional Landfill were constructed with a composite liner and leachate collection system. The current waste footprint comprises approximately 74.8 acres. The Closed Tuscarora Interim Regional Landfill was permitted and constructed in accordance with Subtitle D regulations in 1993 and stopped receiving waste in November 1999. Phase 1 of the Long-Term Regional Landfill was constructed in accordance with Subtitle D regulations in 1999 while Phase 2 was constructed in 2005. The Tuscarora Long-Term Regional Landfill began receiving waste after November 1999 and is still operational.

1.2 Site Geology

The Tuscarora Landfill is located in the Coastal Plain physiographic province. The Coastal Plain consists of a wedge of continental and marine sediments that are Cretaceous, Tertiary, and Quaternary in age. These sediments are approximately 1,500 feet thick in the area of the Tuscarora Landfill according to the North Carolina State Geologic Map (Brown, 1985).

The uppermost aquifer at the site consists of Miocene to Pleistocene age silty sands, clayey sands, and sandy clays. The uppermost aquifer is separated from a lower aquifer by a lean to fat clay associated with the Pungo River Formation. The Pungo River Formation is Miocene in age and consists mainly of marine fat clay to silty clay, which represents a regressive marine sequence that grades from sandy clay to silty sand at the bottom of the formation (Harris, 1991). The lower aquifer is middle to upper Eocene in age and is part of the Castle Hayne Formation. It consists of a combination of coquina and a weakly cemented calcarenite. In general, the material becomes denser with depth.

1.3 Regulatory Status

The Tuscarora Landfill groundwater and surface water monitoring are completed in accordance with North Carolina Solid Waste Management Regulations (NCSWMR) § 1633 (Detection Monitoring Program) and NCSWMR § 0602 (Surface Water 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 NCSWMR.

Dissolved zinc for well IRL-5S continues to be analyzed, as requested by Larry Rose of the Solid Waste Section in September 2004, due to past statistically significant increases. Since statistically significant increases can initiate Assessment Monitoring, dissolved samples can be used as Alternate Source Demonstrations (ASD). An ASD is used to explain the contamination or statistically significant increases as coming from sources other than landfill influence.

2.0 FACILITY MONITORING PROGRAMS

Groundwater programs for the landfill, surface water, and the leachate storage system are discussed in the following sections and locations are shown on Drawing Nos. 1 & 2.

2.1 Tuscarora Interim Regional Landfill Monitoring Program

Groundwater monitoring at the closed Tuscarora Interim Regional Landfill is completed in accordance with NCSWMR § 1633 (Detection Monitoring Program) and the approved Groundwater Monitoring Plan for the facility. Groundwater samples are collected semiannually and are analyzed for the constituents listed in NCSWMR Appendix I.

The groundwater monitoring network at the Closed Interim Regional Landfill consists of two upgradient/background wells (IRL-1S & IRL-1D) and six downgradient wells (IRL-3S, IRL-3D, IRL-4S, IRL-4D, IRL-5S, and MW-A). Wells IRL-2SA, IRL-2DA, IRL-5D, MW-B, and PZ-Z are measured for water levels only.

Monitoring Well	Date Installed	Classification	Monitoring Program	Total Depth from TOC (ft)	Lithology of Screened Interval
IRL-1S	6/29/93	Background	Detection	18.34	Shallow Aquifer / Sediment
IRL-1D	6/29/93	Background	Detection	45.91	Deep Aquifer / Sediment
IRL-2S	6/30/93	Abandoned	-	-	-
IRL-2SA	1/13/01	Observation	Water Level	17.63	Shallow Aquifer / Sediment
IRL-2D	6/30/93	Abandoned	-	-	-
IRL-2SD	1/13/01	Observation	Water Level	41.76	Deep Aquifer / Sediment
IRL-3S	7/02/93	Compliance	Detection	16.59	Shallow Aquifer / Sediment
IRL-3D	7/02/93	Compliance	Detection	40.91	Deep Aquifer / Sediment
IRL-4S	7/02/93	Compliance	Detection	15.23	Shallow Aquifer / Sediment
IRL-4D	7/02/93	Compliance	Detection	25.87	Deep Aquifer / Sediment
IRL-5S	7/01/93	Compliance	Detection	14.69	Shallow Aquifer / Sediment
IRL-5D	7/01/93	Observation	Water Level	26.10	Deep Aquifer / Sediment
IRL-6S	7/02/93	Abandoned	-	-	-
IRL-6D	7/02/93	Abandoned	-	-	-
MW-A	12/13/00	Compliance	Detection	22.00	Shallow Aquifer / Sediment
MW-B	1/12/01	Observation	Water Level	22.06	Shallow Aquifer / Sediment
PZ-Z	12/15/00	Observation	Water Level	32.35	Shallow Aquifer / Sediment

2.2 Tuscarora Long-Term Regional Landfill Monitoring Program

Groundwater monitoring at the Tuscarora Long-Term Regional Landfill is completed in accordance with NCSWMR § 1633 (Detection Monitoring Program) and the approved Groundwater Monitoring Plan for the facility. Groundwater samples are collected semiannually and are analyzed for the constituents listed in NCSWMR Appendix I.

The groundwater monitoring network at the Tuscarora Long-Term Regional Landfill area consists of two upgradient/background wells (MW-12S and MW-12D) and eight downgradient wells (MW-7, MW-8, MW-10, MW-11S, MW-11D, MW-13S, MW-13D, and MW-14). Well MW-9, which was previously monitored, was abandoned on July 15, 2004, to begin construction of Phase 2 of the Long-Term Regional Landfill. Well MW-14 was accidentally destroyed by facility equipment prior to the October 2006 sampling event and was replaced as MW-14R prior to the October 2007 sampling event.

Monitoring Well	Date Installed	Classification	Monitoring Program	Total Depth from TOC (ft)	Lithology of Screened Interval
MW-7	7/15/99	Compliance	Detection	17.89	Shallow Aquifer / Sediment
MW-8	7/15/99	Compliance	Detection	15.14	Shallow Aquifer / Sediment
MW-9	7/15/99	Abandoned	-	-	-
MW-10	7/15/99	Compliance	Detection	16.92	Shallow Aquifer / Sediment
MW-11S	7/15/99	Compliance	Detection	12.07	Shallow Aquifer / Sediment
MW-11D	7/15/99	Compliance	Detection	36.85	Deep Aquifer / Sediment
MW-12S	4/09/02	Background	Detection	18.02	Shallow Aquifer / Sediment
MW-12D	4/09/02	Background	Detection	38.00	Deep Aquifer / Sediment
MW-13S	4/21/03	Compliance	Detection	17.48	Shallow Aquifer/ Sediment
MW-13D	4/23/03	Compliance	Detection	42.29	Deep Aquifer / Sediment
MW-14	4/18/03	Abandoned	-	-	-
MW-14R	10/04/07	Compliance	Detection	16.85	Shallow Aquifer / Sediment

2.3 Leachate Storage Lagoon Area Monitoring Program

Groundwater monitoring at the Leachate Storage Lagoons are completed in accordance with NCSWMR § 1633 (Detection Monitoring Program) and the approved Groundwater Monitoring Plan for the facility. Groundwater samples are collected semiannually and analyzed for the constituents listed in NCSWMR Appendix I.

The groundwater monitoring network at the Leachate Storage Lagoons consist of one up gradient/background well (LST-5S) and seven downgradient wells (LST-1S, LST-1D, LST-2S, LST-3S, LST-4S, LST-5D, and LST-6S). Well LST-5S replaced LST-6S as the background well due to drawdown effects from the borrow area north of the Leachate Storage Lagoons. Wells LST-2D, LST-3D, LST-4D, and LST-6D are measured for water levels only.

Monitoring Well	Date Installed	Classification	Monitoring Program	Total Depth from TOC (ft)	Lithology of Screened Interval
LST-1S	6/24/93	Compliance	Detection	15.83	Shallow Aquifer / Sediment
LST-1D	6/24/93	Compliance	Detection	36.01	Deep Aquifer / Sediment
Table Continues on Next Page					

Monitoring Well	Date Installed	Classification	Monitoring Program	Total Depth from TOC (ft)	Lithology of Screened Interval
LST-2S	6/24/93	Compliance	Detection	14.74	Shallow Aquifer / Sediment
LST-2D	6/24/93	Observation	Water Level	33.96	Deep Aquifer / Sediment
LST-3S	6/25/93	Compliance	Detection	18.34	Shallow Aquifer / Sediment
LST-3D	6/24/93	Observation	Water Level	35.57	Deep Aquifer / Sediment
LST-4S	6/25/93	Compliance	Detection	18.18	Shallow Aquifer / Sediment
LST-4D	6/24/93	Observation	Water Level	36.39	Deep Aquifer / Sediment
LST-5S	6/28/93	Background	Detection	16.75	Shallow Aquifer / Sediment
LST-5D	6/28/93	Compliance	Detection	39.04	Deep Aquifer / Sediment
LST-6S	6/28/93	Compliance	Detection	17.25	Shallow Aquifer / Sediment
LST-6D	9/28/93	Observation	Water Level	35.17	Deep Aquifer / Sediment

2.4 Surface Water Monitoring Program

Surface water monitoring at the Tuscarora Landfill is completed in accordance with NCSWMR § 0602 (Surface Water Monitoring) and the approved Groundwater Monitoring Plan for the facility. Groundwater samples are collected semiannually and analyzed for the constituents listed in NCSWMR Appendix I. The surface water monitoring network includes one upstream surface water sampling point (SWPT-1) and three downstream surface water monitoring points (SWPT-2, UD-1, and UD-2).

Surface Point	Classification	Monitoring Program
SWPT-1	Upstream	Surface Water
SWPT-2	Compliance	Surface Water
UD-1	Compliance	Surface Water
UD-2	Compliance	Surface Water

2.5 Leachate Monitoring Program

One leachate monitoring point (Leachate Manhole) is sampled at the Tuscarora Landfill on a semiannual basis and the laboratory results are included in this report. The following constituents are required for laboratory leachate analysis:

- North Carolina Appendix I Metals
- North Carolina Appendix I 8260 Volatiles

3.0 FIRST SEMIANNUAL SAMPLING EVENT OF 2011

3.1 Field Work

On April 27, 2011 personnel from Environment 1, Incorporated visited the facility to obtain water levels to the nearest 0.01 foot, purge, and sample monitoring wells at the closed Tuscarora Interim Regional Landfill, Tuscarora Long-Term Regional Landfill, and Leachate Storage Lagoon areas. Four surface monitoring points and one leachate monitoring point were also sampled during the April 2011 event. In addition, for monitoring wells not part of the

compliance network, depth-to-water measurements were obtained to the nearest 0.01 foot using an electronic water level indicator.

Monitoring wells were purged and sampled using reusable bailers during the April 2011 sampling event. Measurements of temperature, pH, specific conductivity, and turbidity were recorded prior to purging, after each purge volume, and during sampling. Prior to sampling, laboratory-supplied containers were prepared with the following information:

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

During the April 2011 sampling event, 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.

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

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

3.2 Laboratory Analysis and JEI Quality Control

The April 2011 groundwater, surface water, and leachate samples were submitted to Environment 1, Incorporated of Greenville, North Carolina under chain-of-custody control for analysis. As discussed earlier, the groundwater, surface water, and leachate samples were analyzed for North Carolina Appendix I constituents. JEI requested a Level II data report for the final laboratory reports. The samples were received by the laboratory on April 27, 2011 in good condition, properly preserved, and within analysis hold times.

In addition to samples collected for compliance monitoring at the CRSWMA Landfills, an Equipment Blank was collected by Environment 1, Incorporated personnel as part of the April 2011 sampling event. Also, a Trip Blank was prepared by the laboratory to accompany the volatile sampling containers during shipment. The Equipment Blank was analyzed for North

Carolina Appendix I constituents while the Trip Blank was analyzed for North Carolina Appendix I volatile organics only.

Upon receipt of laboratory data packages, 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 Surrogate Recoveries, Matrix Spike, Matrix Spike Duplicate, and Laboratory Control Samples;
- Blank qualified data (B-flags);
- Detections above the North Carolina SWSLs, groundwater and surface water standards; and
- Detections that are above historical levels.

After review of the April 2011 data package and statistical analysis, it was determined that no resampling was required. The laboratory data packages for the April 2011 event are included in Appendix 1 of this report, and the results are summarized in the detection and historical tables for the Interim Regional Landfill.

4.0 HYDROGEOLOGICAL CONDITIONS

Depth to groundwater was measured in the compliance monitoring wells prior to sampling. The groundwater elevation at each well was calculated relative to the surveyed measuring point (top of casing) for each monitoring well. Tables 1-3 summarize the groundwater elevations. In general, groundwater elevations for the shallow aquifer are similar to previous events. Groundwater elevations for the deep aquifer have been influenced by borrow area pumping.

Both the upper and lower aquifers at the site are primarily made up of coarse sand and silty sand. The aquifers are separated by a confining layer consisting of marine clays, silty clays, and very fine silty sands.

Groundwater elevation contours for the shallow and deep aquifers are shown on Drawing Nos. 1 and 2, and were interpreted from the April 2011 water level measurements. Groundwater at the site flows predominantly from the northwest to the southeast for the shallow aquifer. However, due to borrow area pumping, groundwater in the deep aquifer flows to the southeast from the closed Tuscarora Interim Regional Landfill while groundwater beneath the Tuscarora Long Term Regional Landfill flows to the northwest. The borrow area is situated in the northwestern area of the property.

Horizontal groundwater gradients were estimated based on April 2011 groundwater levels. The groundwater contours and the groundwater flow arrows were used to calculate hydraulic gradients for the site. The horizontal gradients were estimated to range from 0.0031 to 0.0049 ft/ft (Table 4) for the shallow aquifer and 0.0022 to 0.0025 ft/ft (Table 5) for the deep aquifer. The low gradients reported for this event likely reflect the shallow depth to the uppermost aquifer

underlying the site, the flat topography of the site, and wet stormwater drainage ditches and basins located within the site.

Average hydraulic conductivity (K) for each slug-tested well was used to estimate average linear groundwater flow velocities. The gradient and flow velocity calculations are included in Tables 4 and 5. Linear groundwater flow velocities were computed using the following modified Darcy equation:

$$V = Ki/n$$

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

The calculated linear groundwater flow velocities range from 0.010 to 0.016 ft/day (Table 4) for the shallow aquifer range and 0.046 to 0.053 ft/day (Table 5) for the deep aquifer. However, the linear velocity equation and resultant rates make the simplified assumptions of a homogeneous and isotropic aquifer. This equation can overestimate velocity when applied to heterogeneous and/or anisotropic conditions.

5.0 DATA ANALYSIS AND STATISTICAL RESULTS

Results from the April 2011 sampling event were received May 20, 2011 from Environment 1, Inc. and are found in Appendix 1. Statistical comparisons of baseline monitoring data to compliance groundwater data are part of the required compliance demonstration (Rule .1632(g), (h), and (i)) for the Tuscarora Landfill. Background data and statistical methods used to evaluate the data from the Tuscarora Landfill are discussed as follows.

5.1 Statistical Methods

The data were evaluated through the use of 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.

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 April 2011 statistical background calculations are provided below in the following table. Detailed results of statistical analyses can

be found in Appendix 2. The data set from wells IRL-1S, IRL-1D, LST-5S, MW-7, MW-12S, MW-12D, MW-13S, MW-13D, and MW-14 were evaluated to determine the appropriate procedure for calculation of the background value for each parameter.

Constituent	Data Distribution	Statistical Method used to Establish Background	Background Concentration	Noted Increased
Barium	N/A	Non-Parametric Prediction Limit	869	None
Beryllium	N/A	Non-Parametric Prediction Limit	6	None
Zinc	N/A	Non-Parametric Prediction Limit	192	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. Based on statistical analyses and analytical results, there were no inorganic or organic detections that are considered to be statistically significant over background values.

5.3 Analytical Results for Groundwater/Surface Water and Comparisons to Standards

5.3.1 Tuscarora Interim Regional Landfill

The following inorganic and organic constituents were detected during the April 2011 sampling event for the Tuscarora Interim Regional Landfill monitoring wells. 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	NC2L/ (GWPS)	Background		Downgradient						Blanks
		IRL-1S	IRL-1D	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	MW-A	
Antimony	(1)	ND	ND	1.6 J	0.28 J	ND	ND	ND	ND	ND
Arsenic	10	0.18 J	0.82 J	0.71 J	0.22 J	0.79 J	0.34 J	2.2 J	2.2 J	ND
Barium	700	170	45.8 J	48.3 J	66.5 J	150	51.6 J	107	37.3 J	0.10 J
Beryllium	(4)	0.59 J	0.06 J	0.14 J	0.13 J	0.26 J	0.13 J	ND	0.16 J	ND
Cadmium	2	0.11 J	0.10 J	0.06 J	0.19 J	0.24 J	0.08 J	0.11 J	0.06 J	ND
Chromium	10	0.81 B	0.56 B	1.6 J	1.8 J	0.90 B	1.4 J	0.37 B	0.98 J	0.18 J
Cobalt	(1)	1.3 J	0.24 J	0.69 J	0.26 J	2.3 J	0.33 J	0.71 J	0.50 J	ND
Copper	1,000	0.96 B	1.1 B	0.62 B	0.68 B	0.83 B	0.57 B	0.64 B	1.2 B	0.66
Lead	15	1.3 J	0.63 J	1.0 J	0.51 J	0.52 J	0.44 J	0.26 J	0.76 J	ND
Nickel	100	2.7 J	0.88 B	3.1 J	1.9 J	3.3 J	1.6 J	4.4 J	1.2 B	0.30 J
Selenium	20	ND	0.31 J	1.5 J	0.76 J	2.3 J	0.34 J	3.8 J	0.81 J	ND
Thallium	(0.2)	0.03 B	ND	0.05 B	ND	0.04 B	ND	ND	ND	0.03 J
Vanadium	(0.3)	1.2 J	0.79 J	2.0 J	1.6 J	0.49 J	1.4 J	1.5 J	1.3 J	ND
Zinc	1,000	4.4 B	3.2 B	8.7 J	1.8 B	8.1 J	3.1 B	118	5.3 B	1.1 J

1. NS = Not sampled.
2. ND = Not detected.

The inorganic and organic analytical results from the April 2011 groundwater sampling event at the closed Tuscarora Interim Regional Landfill are summarized in Table 6 and field parameters are summarized on Table 7 of this report. The results, as reported by the laboratory, the laboratory quality assurance/quality control information, and the chain of custody records are included in Appendix 1. No quantified detections of inorganic or organic constituents were reported above the Groundwater Standard (NC 2L) or Groundwater Protection Standards (GWPS) for the Interim Regional Landfill.

5.3.2 Tuscarora Long-Term Regional Landfill

The following inorganic and organic constituents were detected during the April 2011 sampling event for the Tuscarora Long-Term Regional Landfill monitoring wells. 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	NC2L/ (GWPS)	Background		Downgradient								Blanks
		MW-12S	MW-12D	MW-7	MW-8	MW-10	MW-11S	MW-11D	MW-13S	MW-13D	MW-14R	
Antimony	(1)	ND	ND	ND	0.37 J	0.22 J	0.17 J	ND	ND	ND	ND	ND
Arsenic	10	0.28 J	ND	2.9 J	1.5 J	2.4 J	0.26 J	ND	0.86 J	ND	0.20 J	ND
Barium	700	64.9 J	26.1 J	52.1 J	86.4 J	55.5 J	33.7 J	38.6 J	56.9 J	44.4 J	128	0.10 J
Beryllium	(4)	0.36 J	ND	0.11 J	0.47 J	0.31 J	3	ND	0.25 J	ND	1	ND
Cadmium	2	0.20 J	0.09 J	0.21 J	0.11 J	0.31 J	0.52 J	0.06 J	0.14 J	0.08 J	0.31 J	ND
Chromium	10	0.43 B	0.78 B	3.3 J	3.2 J	2.2 J	2.0 J	ND	1.1 J	0.51 B	1.5 J	0.18 J
Cobalt	(1)	1.3 J	0.14 J	0.56 J	0.69 J	0.93 J	4.7 J	0.08 J	0.45 J	0.14 J	1.5 J	ND
Copper	1,000	1.2 B	0.77 B	1.5 B	1.0 B	1.7 B	0.98 B	0.72 B	1.3 B	0.93 B	1.4 B	0.66 J
Lead	15	0.27 J	0.21 J	2.0 J	2.5 J	2.0 J	2.8 J	0.12 J	0.57 J	0.31 J	1.2 J	ND
Nickel	100	1.9 J	1.2 B	2.2 J	1.3 B	1.9 J	8.1 J	1.1 B	1.0 B	1.0 B	3.1 J	0.30 J
Selenium	20	0.83 J	ND	0.28 J	ND	0.43 J	0.92 J	ND	0.35 J	ND	1.1 J	ND
Thallium	(0.2)	ND	ND	0.12 B	0.06 B	0.05 B	0.04 B	0.11 B	ND	ND	0.07 B	0.03 J
Vanadium	(0.3)	ND	ND	4.7 J	6.8 J	3.5 J	2.2 J	ND	0.97 J	0.48 J	0.62 J	ND
Zinc	1,000	12	2.0 B	14	4.9 B	10	9.3 J	3.8 B	4.9 B	1.2 B	7.5 J	1.1 J

* ND = Not detected.

The inorganic and organic analytical results from the April 2011 groundwater sampling event at the Tuscarora Long-Term Regional Landfill are summarized in Table 8 and field parameters are summarized on Table 9 of this report. 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 1. No quantified detections of inorganic or organic constituents were reported above the NC 2L or GWPS for the Long-Term Regional Landfill.

5.3.3 Leachate Storage Lagoon Area

The following inorganic and organic constituents were detected during the April 2011 sampling event for the Leachate Storage monitoring network. 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	NC2L/ (GWPS)	Background	Downgradient							Blanks
		LST-5S	LST-1S	LST-1D	LST-2S	LST-3S	LST-4S	LST-5D	LST-6S	
Antimony	(1)	0.36 J	ND	ND	1.5 J	ND	0.30 J	ND	ND	ND
Arsenic	10	1.7 J	0.41 J	0.44 J	0.72 J	0.31 J	1.7 J	1.4 J	0.54 J	ND
Barium	700	41.5 J	46.4 J	38.5 J	37.8 J	59.4 J	41.1 J	95.4 J	51.6 J	0.10 J
Beryllium	(4)	0.15 J	0.29 J	0.07 J	0.28 J	0.30 J	0.33 J	0.23 J	0.17 J	ND
Cadmium	2	0.12 J	0.18 J	0.05 J	0.18 J	0.07 J	0.21 J	0.17 J	0.06 J	ND
Chromium	10	6.7 J	1.5 J	0.40 B	3.9 J	1.1 J	6.1 J	1.2 J	3.9 J	0.18 J
Cobalt	(1)	0.45 J	0.36 J	0.26 J	0.45 J	3.4 J	1.4 J	0.41 J	0.50 J	ND
Copper	1,000	2.5 B	1.2 B	0.58 B	1.6 B	0.51 B	1.7 B	1.4 B	1.2 B	0.66 J
Lead	15	4.9 J	1.4 J	0.30 J	3.6 J	1.7 J	5.2 J	0.77 J	3.3 J	ND
Nickel	100	2.3 J	0.72 B	1.4 B	1.0 B	3.9 J	2.2 J	1.9 J	0.98 B	0.30 J
Selenium	20	1.1 J	1.1 J	ND	0.26 J	ND	0.42 J	0.52 J	ND	ND
Thallium	(0.2)	0.10 B	0.18 J	0.27 J	0.12 B	0.04 B	0.10 B	ND	0.08 B	0.03 J
Vanadium	(0.3)	10.2 J	2.1 J	0.66 J	5.3 J	1.6 J	7.8 J	1.4 J	5.9 J	ND
Zinc	1,000	20	4.0 B	2.4 B	5.2 B	28	12	5.3 B	24	1.1 J

* ND = Not detected.

The inorganic and organic analytical results from the April 2011 sampling event at the Leachate Storage Lagoon Area are summarized in the Table 10 and field parameters are summarized on the Table 11 of this report. 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 1 of this report. No quantified detections of inorganic or organic constituents were reported above the NC 2L or GWPS for the Leachate Storage Lagoon Area.

5.3.4 Surface Water

The following inorganic and organic constituents were detected during the April 2011 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. Detections above the NC 2B standard are highlighted.

Constituent	NC 2B	Upstream	Downstream			Blanks
		SWPT-1	SWPT-2	UD-1	UD-2	
Antimony	NE	ND	ND	0.16 J	ND	ND
Arsenic	50	0.79 J	2.6 J	0.63 J	0.55 J	ND
Barium	NE	86.4 J	45.5 J	19.1 J	46.7 J	0.10 J
Cadmium	2	0.08 J	ND	0.04 J	0.04 J	ND
Chromium	50	0.52 B	0.70 B	0.59 B	0.38 B	0.18 J
Cobalt	NE	1.7 J	1.8 J	0.20 J	0.52 J	ND
Copper	7	0.81 B	0.85 B	1.2 B	1.0 B	0.66 J
Lead	25	0.32 J	0.19 J	0.43 J	0.09 J	ND
Nickel	88	5.1 J	6.1 J	1.5 B	4.1 J	0.30 J
Selenium	5	0.72 J	2.4 J	ND	1.1 J	ND
Thallium	NE	ND	ND	0.15 B	0.05 B	0.03 J
Vanadium	NE	0.74 J	0.87 J	0.38 J	ND	ND
Zinc	50	77	3.4 B	4.6 B	2.3 B	1.1 J

1. ND = Not detected.
2. NE =Not established.

The analytical results from the surface water April 2011 sampling event at the CRSWMA landfills are summarized in Table 12 and field parameters are summarized on Table 13. 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 1 of this report. Zinc was detected above the North Carolina 2B Surface Water Standards in SWPT-1. SWPT-1 is upstream of the landfill; therefore, the detection of zinc is not a result of the waste unit. No other inorganic or organic constituents were detected above the North Carolina 2B Surface Water Standards for the first semiannual sampling event in 2011.

5.3.5 Leachate

The following inorganic and organic constituents were detected in leachate during the April 2011 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	7	ND
Arsenic	114	ND
Barium	934	0.10 J
Beryllium	0.10 J	ND
Cadmium	4	ND
Chromium	42	0.18 J
Cobalt	14	ND
Copper	6.7 J	0.66 J
Lead	0.13 J	ND
Nickel	74	0.3 J
Silver	0.82 J	ND
Thallium	0.04 B	0.03 J
Vanadium	13.3 J	ND
Zinc	8.2 J	1.1 J
Benzene	3.50	ND
Chlorobenzene	1.10 J	ND
Cis-1,2-Dichloroethylene	3.00 J	ND
1,1-Dichloroethane	0.30 J	ND
1,2-Dichloropropane	0.30 J	ND
2-Butanone	4.60 J	ND
Styrene	11.70	ND
1,4-Dichlorobenzene	13.90	ND
Trichloroethylene	1.40	ND
Ethylbenzene	97.60	ND
Toluene	36.40	ND
4-Methyl-2-Pentanone	2.20 J	ND
Xylenes	90.90	ND

*ND = Not detected.

The analytical results from the April 2011 leachate sampling event at the CRSWMA landfills are summarized in Table 14 of this report. The results, as reported by the laboratory, the laboratory quality assurance/quality control information, and the chain of custody records, are included in Appendix 1 of this report.

6.0 CONCLUSION

Based on the analytical results from the April 27, 2011 sampling event, Zinc was detected above the North Carolina 2B Surface Water Standards in SWPT-1; however SWPT-1 is the upstream monitoring point and the zinc detection is not a result of the waste unit. No other constituents were detected above the NC 2L, GWPS, or NC 2B standards. No inorganic or organic constituents were considered to be detected at statistically significant levels above calculated background concentrations at the Leachate Storage Lagoon Area, closed Tuscarora Interim Regional Landfill, and Tuscarora Long-Term Regional Landfill. Therefore, the results of the first semiannual monitoring event of 2011 indicate that the Coastal Regional Solid Waste Management Authority Tuscarora Landfill shall remain in the Detection Monitoring Program. The next semiannual monitoring event is scheduled for October 2011.

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TABLE 1

SUMMARY OF GROUNDWATER ELEVATIONS
TUSCARORA INTERIM REGIONAL LANDFILL

Well No.	Background		Downgradient										
	IRL-1S	IRL-1D	IRL-2SA	IRL-2DA	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	IRL-5D	MW-A	MW-B	PZ-Z
Well TOC Elev.	50.56	50.19	51.37	51.58	49.02	48.93	48.34	48.35	48.78	48.66	46.04	48.90	49.52
Well Depth	17.73	45.20	17.68	30.95	16.40	39.22	14.99	34.64	14.62	35.42	20.40	14.90	32.35
Jul-93	46.57	36.02	NI	NI	38.68	34.26	43.13	34.24	40.19	34.73	NI	NI	NI
Aug-93	44.94	35.46	NI	NI	38.57	33.68	42.02	33.54	39.58	34.13	NI	NI	NI
Sep-93	44.29	34.70	NI	NI	38.42	32.97	41.77	33.01	39.50	33.39	NI	NI	NI
Sep-93	45.07	34.42	NI	NI	38.85	32.58	41.33	32.69	39.51	33.07	NI	NI	NI
Apr-94	45.55	38.93	NI	NI	37.74	37.27	39.48	37.33	37.95	37.79	NI	NI	NI
Oct-94	44.90	35.97	NI	NI	37.84	34.38	38.54	34.39	37.52	34.86	NI	NI	NI
Apr-95	45.50	38.73	NI	NI	38.02	37.15	38.82	37.16	37.56	37.60	NI	NI	NI
Oct-95	45.12	35.41	NI	NI	37.11	34.06	38.79	34.05	37.41	34.44	NI	NI	NI
Apr-96	46.60	40.25	NI	NI	38.98	38.82	38.58	38.83	37.51	39.28	NI	NI	NI
Oct-96	46.12	NS	NI	NI	37.88	39.01	38.52	39.06	37.29	NS	NI	NI	NI
Dec-96	47.26	40.19	NI	NI	38.12	38.73	37.94	38.85	37.28	39.26	NI	NI	NI
Apr-97	45.35	NS	NI	NI	37.71	37.50	38.82	37.54	37.30	NS	NI	NI	NI
Mar-97	46.65	40.46	NI	NI	37.67	39.00	38.70	39.03	37.40	39.48	NI	NI	NI
Oct-97	43.40	NS	NI	NI	37.68	NS	38.18	32.92	37.04	NS	NI	NI	NI
Apr-98	46.18	NS	NI	NI	38.05	38.57	38.51	38.62	37.52	NS	NI	NI	NI
Oct-98	44.11	36.69	NI	NI	37.52	35.32	37.78	35.38	37.23	35.79	NI	NI	NI
Mar-99	46.10	NS	NI	NI	38.35	37.95	38.35	37.99	38.18	38.39	NI	NI	NI
Jul-99	43.89	36.25	NI	NI	38.31	35.06	39.37	35.10	38.92	35.47	NI	NI	NI
Aug-99	43.27	34.79	NI	NI	38.18	33.34	39.37	33.41	38.96	33.75	NI	NI	NI
Oct-99	47.38	40.16	NI	NI	41.56	38.75	40.85	38.80	40.21	39.20	NI	NI	NI
Nov-99	45.52	39.56	NI	NI	38.70	38.16	39.21	38.23	39.29	38.65	NI	NI	NI
Apr-00	45.71	39.77	NI	NI	39.54	38.35	39.61	38.45	39.34	38.84	NI	NI	NI
Oct-00	44.52	38.90	NI	NI	39.76	37.43	39.46	37.52	39.45	37.94	NI	NI	NI
Apr-01	46.00	39.96	43.70	40.19	40.15	38.62	40.11	38.69	39.59	39.06	40.98	39.55	40.93
Oct-01	43.36	36.31	39.92	37.28	38.61	35.03	38.97	35.08	39.89	35.46	38.76	38.65	38.56
Apr-02	44.88	38.85	41.38	39.20	39.02	37.53	39.66	37.60	39.42	37.99	39.69	40.16	41.43
Oct-02	44.93	34.93	40.97	35.38	39.22	33.76	40.23	33.87	39.79	34.21	39.78	39.35	37.70
Apr-03	46.28	40.03	44.11	40.35	39.75	38.65	42.03	38.73	40.62	39.16	40.41	40.94	40.63
Oct-03	46.72	40.36	44.43	40.67	40.21	38.97	41.68	39.03	40.83	39.46	40.93	40.80	41.70
15-Apr-04	47.23	39.69	44.93	40.05	40.72	38.33	41.40	38.44	40.54	38.83	40.94	40.80	41.25
14-Oct-04	44.14	39.23	42.05	38.60	40.21	37.88	40.27	37.96	40.10	38.41	39.98	39.50	40.74
05-Apr-05	44.81	NS	NS	40.33	40.21	38.56	40.13	38.66	39.92	39.12	37.79	NS	41.27
27-Oct-05	46.74	NS	NS	41.01	40.88	39.18	41.16	39.31	40.44	39.70	40.67	NS	42.03
21-Apr-06	44.90	39.71	NS	39.89	40.41	38.23	40.31	38.35	40.07	38.77	40.15	NS	41.10
12-Oct-06	45.45	39.71	NS	40.00	39.80	38.28	40.86	38.37	40.18	38.79	40.58	NS	41.01
26-Apr-07	45.01	39.44	NS	39.85	39.85	38.13	40.32	38.22	40.08	38.66	40.29	NS	40.80
10-Oct-07	40.44	33.90	NS	34.20	39.19	32.54	39.06	32.65	39.05	33.02	38.21	NS	36.30
02-Apr-08	45.39	38.21	NS	38.64	40.08	37.08	39.79	37.17	39.54	37.49	40.03	NS	38.67
28-Oct-08	42.22	35.12	NS	36.03	40.24	34.70	39.69	34.76	39.27	34.93	39.88	NS	38.53
08-Apr-09	45.28	35.45	43.56	36.66	40.40	35.60	42.62	35.63	40.29	35.65	40.46	40.70	39.67
27-Oct-09	42.34	31.89	39.37	33.38	40.19	32.41	39.09	32.40	38.96	32.30	39.24	39.12	37.48
08-Apr-10	45.27	34.66	44.07	36.19	40.32	35.28	40.83	35.31	40.48	35.16	40.65	39.46	39.64
13-Oct-10	45.69	33.64	43.89	35.23	40.03	34.56	39.80	34.53	39.73	34.30	40.39	40.72	38.42
27-Apr-11	44.45	32.47	42.66	34.28	39.34	33.53	40.22	33.51	39.98	33.24	40.07	40.48	38.40

NOTES:

1. All elevations are referenced to mean sea level.
2. NS = Not sampled and/or groundwater depths not measured.
3. NI = Well/Piezometer not installed.
4. Elevations are measured in feet.

TABLE 2

SUMMARY OF GROUNDWATER ELEVATIONS
TUSCARORA LONG-TERM REGIONAL LANDFILL

Well No.	Background		Downgradient							
	MW-12S	MW-12D	MW-7	MW-8	MW-10	MW-11S	MW-11D	MW-13S	MW-13D	MW-14R
Well TOC Elev.	52.12	51.90	50.69	50.94	47.32	47.67	47.55	46.21	45.93	46.98
Well Depth	35.95	17.96	16.22	15.61	15.95	14.03	34.73	15.00	33.00	14.00
Jul-99	NI	NI	46.76	46.16	44.60	38.94	36.60	NI	NI	NI
Aug-99	NI	NI	45.10	44.41	43.13	39.19	34.87	NI	NI	NI
Oct-99	NI	NI	46.94	46.08	43.34	40.79	40.34	NI	NI	NI
Nov-99	NI	NI	46.19	44.13	42.34	38.85	39.71	NI	NI	NI
Apr-00	NI	NI	46.96	45.66	42.96	39.04	39.93	NI	NI	NI
Oct-00	NI	NI	45.79	43.94	42.30	38.74	39.05	NI	NI	NI
Apr-01	NI	NI	47.33	45.62	43.60	39.37	40.16	NI	NI	NI
Oct-01	NI	NI	44.81	42.99	41.57	38.92	35.41	NI	NI	NI
Apr-02	43.69	40.78	43.86	44.74	43.10	39.39	39.09	NI	NI	NI
Oct-02	45.15	36.77	45.18	44.19	41.28	39.49	35.26	NI	NI	NI
Apr-03	45.77	42.00	47.26	45.74	43.27	40.40	40.24	NI	NI	NI
Oct-03	46.32	42.32	47.98	46.34	42.64	41.67	40.44	NI	NI	NI
15-Apr-04	46.79	41.70	47.78	46.47	43.40	41.57	38.78	43.27	38.93	NI
14-Oct-04	45.16	41.09	46.69	45.04	43.09	40.29	39.53	41.28	38.41	NI
05-Apr-05	44.54	41.89	47.05	44.88	43.29	40.28	40.18	43.29	39.19	NI
27-Oct-05	45.51	42.62	47.16	46.12	42.63	41.93	40.81	44.51	39.82	NI
21-Apr-06	45.43	41.59	47.12	46.02	43.53	40.37	39.89	43.17	38.82	NI
12-Oct-06	45.70	41.72	47.20	46.27	43.05	40.85	39.87	44.03	38.79	NI
26-Apr-07	45.52	41.49	47.06	45.66	43.34	41.06	39.74	43.01	38.59	NI
11-Oct-07	42.18	35.60	43.67	43.94	41.35	39.98	34.08	41.19	33.02	39.25
03-Apr-08	44.74	39.14	45.99	45.68	42.42	38.85	38.47	44.00	37.32	42.10
28-Oct-08	44.67	35.23	44.56	45.67	41.58	38.95	35.90	44.07	34.59	42.13
08-Apr-09	45.31	33.90	46.77	45.98	42.67	39.69	36.40	43.17	34.92	41.94
27-Oct-09	43.96	29.37	43.45	44.89	40.72	38.59	33.16	42.66	31.48	41.32
08-Apr-10	45.17	31.48	46.57	45.94	42.74	40.28	36.00	43.01	34.27	41.67
13-Oct-10	45.16	29.72	45.69	45.76	41.11	39.74	35.02	43.33	33.29	41.54
27-Apr-11	44.73	29.09	45.77	45.63	42.17	39.76	34.01	42.99	32.18	41.30

NOTES:

1. All elevations are referenced to mean sea level.
2. NI = Well/Piezometer not installed.
3. Elevations are measured in feet.

TABLE 3

SUMMARY OF GROUNDWATER ELEVATIONS
LEACHATE STORAGE LAGOON AREA

Well No.	Background	Downgradient										
	LST-5S	LST-1S	LST-1D	LST-2S	LST-2D	LST-3S	LST-3D	LST-4S	LST-4D	LST-5D	LST-6S	LST-6D
Well TOC Elev.	52.37	50.92	50.92	51.00	50.94	52.17	51.87	51.38	51.56	52.27	51.23	51.17
Well Depth	16.12	15.32	34.99	14.59	33.25	17.93	34.69	17.85	36.16	39.11	16.61	34.31
Jul-93	47.21	47.48	36.53	46.95	36.79	47.01	36.85	47.12	37.02	36.68	47.11	37.42
Aug-93	46.38	45.92	35.80	45.71	35.98	45.79	35.98	45.89	36.19	35.86	45.82	36.74
Sep-93	45.91	45.54	35.03	45.63	35.48	45.04	35.27	44.25	34.96	34.37	44.94	35.87
Sep-93	45.93	45.74	34.47	45.35	34.66	45.23	35.08	45.49	34.94	33.67	45.29	35.28
Apr-94	46.71	46.78	37.59	46.29	34.59	45.72	38.01	46.18	39.81	37.16	46.41	40.16
Oct-94	46.14	45.99	36.41	46.00	36.64	45.65	36.63	45.41	36.76	36.47	44.52	37.17
Apr-95	46.92	46.43	39.16	46.39	39.40	46.06	39.42	45.91	39.57	39.26	45.94	39.95
Oct-95	45.86	46.89	35.72	46.06	35.95	45.90	35.95	45.77	36.11	35.83	43.70	36.32
Apr-96	47.56	47.25	40.74	47.23	41.00	46.88	40.91	46.87	41.05	40.84	47.41	41.51
Oct-96	46.88	46.42	40.93	46.81	NS	46.38	NS	46.48	NS	41.05	48.06	NS
Dec-96	46.87	47.62	40.62	47.10	40.94	47.07	40.87	46.08	41.06	40.77	47.73	41.37
Apr-97	46.97	46.40	39.40	46.37	NS	46.05	NS	45.97	NS	39.51	45.89	NS
Mar-97	47.99	47.92	40.88	47.49	41.11	47.12	41.13	47.01	41.28	40.98	47.56	41.63
Oct-97	45.21	45.43	34.80	44.19	NS	45.03	NS	45.06	NS	34.83	44.09	NS
Apr-98	47.20	46.67	40.47	46.47	NS	46.54	NS	46.56	NS	40.54	46.30	41.63
Oct-98	44.65	43.89	37.00	44.10	37.19	44.44	37.22	44.42	37.35	37.06	42.24	37.57
Mar-99	46.50	45.92	39.73	46.00	39.95	46.54	40.00	46.73	40.11	39.81	45.88	40.45
Jul-99	45.86	45.34	37.48	45.37	36.64	45.53	36.75	45.33	36.80	36.55	41.58	36.96
Aug-99	44.90	45.07	34.78	45.30	34.95	45.29	35.05	45.12	35.11	34.84	40.70	35.26
Oct-99	46.97	46.37	40.52	46.86	40.76	47.97	40.85	47.96	40.94	40.62	46.35	41.24
Nov-99	45.85	45.44	39.94	45.51	40.18	46.35	40.20	45.22	40.38	40.06	44.58	40.62
Apr-00	46.87	45.97	40.09	46.04	40.35	46.50	40.42	46.39	40.56	40.27	45.59	40.82
Oct-00	45.34	44.92	39.27	45.10	39.50	45.38	39.54	45.28	39.71	40.37	43.57	39.98
Apr-01	46.85	46.11	40.30	46.14	40.49	46.37	40.56	46.27	40.65	40.39	44.93	40.95
Oct-01	45.22	44.58	36.62	44.79	36.76	44.92	36.87	44.82	36.90	36.72	42.23	37.22
Apr-02	46.47	45.97	39.22	45.98	39.43	46.07	39.51	45.93	39.64	39.29	44.25	39.93
Oct-02	45.97	45.61	35.22	45.57	35.39	45.72	35.44	45.39	35.56	35.27	42.22	35.85
Apr-03	47.04	46.33	40.39	46.37	40.61	46.61	40.68	46.66	40.80	40.51	45.38	41.11
Oct-03	47.21	46.52	40.71	46.76	40.95	46.99	41.02	47.18	41.15	40.83	45.78	41.42
15-Apr-04	47.38	46.62	40.08	46.82	40.30	47.38	40.35	47.75	40.52	40.17	45.91	40.78
14-Oct-04	46.37	45.72	39.58	44.82	39.76	45.76	39.87	45.68	39.95	39.67	44.48	40.22
05-Apr-05	46.35	46.02	40.37	46.03	40.56	46.17	40.60	46.00	40.73	40.45	44.99	40.99
27-Oct-05	46.86	42.38	41.01	46.39	41.23	46.99	41.18	47.50	41.05	41.10	45.55	41.75
21-Apr-06	46.41	46.05	40.07	45.98	40.27	46.05	40.33	45.93	40.41	40.24	44.56	40.75
12-Oct-06	46.92	46.51	40.11	46.38	40.36	46.49	40.43	46.40	40.58	40.24	44.95	40.88
26-Apr-07	46.52	46.05	39.67	45.99	39.78	46.17	40.07	46.03	40.29	39.76	44.93	40.59
10-Oct-07	43.46	43.34	34.12	42.53	34.24	41.99	34.31	41.81	34.44	34.15	41.90	34.70
03-Apr-08	46.54	46.17	38.12	46.00	38.20	46.42	38.31	46.28	38.42	38.23	44.77	38.48
28-Oct-08	45.96	45.99	34.75	45.66	34.71	45.28	34.85	45.13	34.87	34.83	43.99	34.58
08-Apr-09	45.47	46.27	34.56	46.07	34.43	46.40	34.87	46.26	34.66	34.84	44.75	33.79
27-Oct-09	45.15	45.05	30.72	44.55	30.42	44.66	30.85	44.54	30.51	30.94	43.37	29.33
08-Apr-10	46.69	46.00	33.15	45.95	32.79	46.16	33.35	46.09	32.99	33.47	44.77	31.42
13-Oct-10	46.63	45.99	31.83	45.99	31.43	46.41	32.01	46.41	31.58	32.26	44.42	29.69
27-Apr-11	46.27	45.75	30.80	45.72	30.48	45.63	30.99	45.53	30.62	31.17	44.28	28.87

NOTES:

1. All elevations are referenced to mean sea level.
2. NS = Not sampled and/or groundwater depths not measured.
3. Elevations are measured in feet.

TABLE 4

ESTIMATED HYDRAULIC GRADIENTS AND AVERAGE LINEAR VELOCITIES FOR THE SHALLOW AQUIFER

			APRIL 2011				
GRADIENT CALCULATION SEGMENT	FLOW LINE LENGTH (feet)	FLOW DIRECTION	GROUND-WATER ELEV. (feet)	HORIZ. GRADIENT, i (ft/ft)	HYDRAULIC CONDUCTIVITY, K (ft/day)	EFFECTIVE POROSITY n	LINEAR VELOCITY, V (ft/day)
i_1	1612	SE	45 40	0.0031	5.67E-01	0.17	0.010
i_2	1018	SE	45 40	0.0049	5.67E-01	0.17	0.016
i_3	1181	E-NE	45 41	0.0034	5.67E-01	0.17	0.011
			Average	0.0038		Average	0.013

Notes:

1. The hydraulic conductivity value used to calculate flow velocity was determined by using the geometric mean of hydraulic conductivities of all shallow aquifer monitoring wells listed in Table 6 of the *CRSWMA Tuscarora Long-Term Regional Landfill Phase 2 Expansion, Application for a Permit to Construct* by Joyce Engineering, Inc. (Revised January 2004).
2. Velocity = Ki/n; assume homogeneous isotropic porous aquifer.
3. An effective porosity (n) of 0.17 was assumed in the velocity calculations based on site-specific soil laboratory data.

TABLE 5

ESTIMATED HYDRAULIC GRADIENTS AND AVERAGE LINEAR VELOCITIES FOR THE DEEP AQUIFER

			APRIL 2011				
GRADIENT CALCULATION SEGMENT	FLOW LINE LENGTH (feet)	FLOW DIRECTION	GROUND-WATER ELEV. (feet)	HORIZ. GRADIENT, i (ft/ft)	HYDRAULIC CONDUCTIVITY, K (ft/day)	EFFECTIVE POROSITY n	LINEAR VELOCITY, V (ft/day)
i_4	2025	NW	34.0 29.0	0.0025	5.39E+00	0.25	0.053
i_5	464	E	34.5 33.5	0.0022	5.39E+00	0.25	0.046
i_6	1624	NW	33.0 29.0	0.0025	5.39E+00	0.25	0.053
			Average	0.0024		Average	0.051

Notes:

1. The hydraulic conductivity value used to calculate flow velocity was determined by using the geometric mean of hydraulic conductivities of all deep aquifer monitoring wells listed in Table 7 of the *CRSWMA Tuscarora Long-Term Regional Landfill Phase 2 Expansion, Application for a Permit to Construct* by Joyce Engineering, Inc. (Revised January 2004).
2. Velocity = Ki/n; assume homogeneous isotropic porous aquifer.
3. An effective porosity (n) of 0.25 was assumed in the velocity calculations based on site-specific soil laboratory data.

TABLE 6
SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS
TUSCARORA INTERIM REGIONAL LANDFILL

Constituent	Date	Concentrations (ug/L)																													
		DL	RL	Background				Downgradient																						Blanks	
				IRL-1S		IRL-1D		IRL-2S	IRL-2SA	IRL-2D	IRL-2DA	IRL-3S		IRL-3D		IRL-4S		IRL-4D		IRL-5S		IRL-5D	IRL-6S	IRL-6D	MW-A		MW-B		
Antimony	10-Oct-07	0.05	6.0	0.1	B	0.1	B	AB	WL	AB	WL	0.1	B	0.5	B	0.1	B	0.1	B	0.1	B	WL	AB	AB	0.1	B	WL		0.1	J
GWPS = 1.4 µg/L (10/23/07)	02-Apr-08	0.08	6.0	0.5	B	ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		0.1	J
	28-Oct-08	0.08	6.0	0.1	J	0.1	J	AB	WL	AB	WL	0.5	J	0.1	J	ND		0.1	J	0.1	J	WL	AB	AB	ND		WL		ND	
	08-Apr-09	0.06	6.0	ND		ND		AB	WL	AB	WL	0.1	J	0.1	J	ND		ND		0.9	J	WL	AB	AB	0.1	J	WL		ND	
	27-Oct-09	0.06	6.0	ND		0.7	J	AB	WL	AB	WL	0.2	J	0.1	J	ND		ND		ND		WL	AB	AB	ND		WL		ND	
	08-Apr-10	0.22	6.0	1.0	B	0.9	B	AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		0.7	J
GWPS = 1 µg/L (8/1/10)	13-Oct-10	0.22	6.0	ND		ND		AB	WL	AB	WL	0.5	J	ND		ND		ND		ND		WL	AB	AB	ND		WL		ND	
	27-Apr-11	0.14	6.0	ND		ND		AB	WL	AB	WL	1.6	J	0.28	J	ND		ND		ND		WL	AB	AB	ND		WL		ND	
Arsenic	Jul-93	NR	5	11		8		ND	NI	ND	NI	ND		ND		ND		22		ND		34	11	ND	NI		NI		ND	
	Aug-93	NR	5	6		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	6	ND	NI		NI		ND	
	Sep-93	NR	5	ND		ND		ND	NI	ND	NI	ND		ND		ND		6		ND		ND	ND	ND	NI		NI		ND	
	Sep-93	NR	5	6		10		ND	NI	ND	NI	ND		ND		ND		168		ND		ND	ND	ND	NI		NI		ND	
	Apr-94	NR	5	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Oct-94	NR	10	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Apr-95	NR	10	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Oct-95	NR	10	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Apr-96	NR	10	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Oct-96	NR	10	ND		NS		ND	NI	AB	NI	ND		ND		ND		ND		ND		WL	ND	AB	NI		NI		ND	
	Apr-97	NR	10	ND		NS		ND	NI	AB	NI	ND		ND		ND		ND		ND		WL	ND	AB	NI		NI		ND	
	Oct-97	NR	10	ND		NS		ND	NI	AB	NI	ND		ND		ND		ND		ND		WL	ND	AB	NI		NI		ND	
	Apr-98	NR	10	ND		NS		ND	NI	AB	NI	ND		ND		ND		ND		10		WL	14	AB	NI		NI		ND	
	Oct-98	NR	10	ND		NS		ND	NI	AB	NI	ND		ND		ND		ND		ND		WL	AB	AB	NI		NI		ND	
	Mar-99	NR	10	ND		NS		ND	NI	AB	NI	ND		ND		ND		ND		ND		WL	AB	AB	NI		NI		ND	
	Oct-99	NR	10	ND		NS		AB	NI	AB	NI	ND		ND		ND		ND		ND		WL	AB	AB	NI		NI		ND	
	Apr-00	NR	10	ND		NS		AB	NI	AB	NI	ND		ND		ND		ND		ND		WL	AB	AB	NI		NI		ND	
	Oct-00	NR	10	ND		NS		AB	NI	AB	NI	ND		ND		ND		ND		ND		WL	AB	AB	NI		NI		ND	
	Apr-01	NR	10	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	NS		NS		ND	
	Oct-01	NR	10	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	NS		NS		ND	
	Apr-02	NR	10	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	Oct-02	NR	10	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	Apr-03	NR	10	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	Oct-03	NR	10	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	15-Apr-04	NR	10	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	14-Oct-04	NR	10	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	05-Apr-05	NR	10	ND		NS		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND	
	05-Oct-05	NR	10	ND		52		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND	
	21-Apr-06	NR	10	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND	
	12-Oct-06	NR	10	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND	
	26-Apr-07	NR	10	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND	
	10-Oct-07	0.47	10.0	3.0	J	ND		AB	WL	AB	WL	2.3	J	ND		1.6	J	0.7	J	1.2	J	WL	AB	AB	2.0	J	WL		ND	
NC 2L = 50 µg/L (10/23/07)	02-Apr-08	0.07	10.0	0.8	J	0.8	J	AB	WL	AB	WL	0.4	J	0.4	J	1.7	J	0.4	J	2.2	J	WL	AB	AB	1.2	J	WL		ND	
	28-Oct-08	0.07	10.0	1	B	1.6	B	AB	WL	AB	WL	1.7	B	1	B	2	B	0.5	B	4.3	J	WL	AB	AB	5	J	WL		0.5	J
	08-Apr-09	0.17	10.0	1.2	J	1.4	J	AB	WL	AB	WL	1.2	J	1.4	J	2.7	J	0.5	B	4.2	J	WL	AB	AB	3.8	J	WL		0.2	J
	27-Oct-09	0.17	10.0	2.1	J	1.8	J	AB	WL	AB	WL	1.3	J	0.5	J	1.3	J	0.6	J	5.2	J	WL	AB	AB	3.6	J	WL		ND	
NC 2L = 10 µg/L (1/1/10)	08-Apr-10	0.04	10.0	1.0	J	0.9	J	AB	WL	AB	WL	1.5	J	ND		1.2	J	ND		2.8	J	WL	AB	AB	2.5	J	WL		ND	
	13-Oct-10	0.04	10.0	ND		2.7	J	AB	WL	AB	WL	3.2	J	0.5	J	2.4	J	0.8	J	4.8	J	WL	AB	AB	4.3	J	WL		ND	
	27-Apr-11	0.10	10.0	0.18	J	0.82	J	AB	WL	AB	WL	0.71	J	0.22	J	0.79	J	0.34	J	2.2	J	WL	AB	AB	2.2	J	WL		ND	
Barium	Jul-93	NR	50	268		343		302	NI	188	NI	296		189		202		580		280		365	785	182	NI		NI		ND	
	Aug-93	NR	50	122		252		109	NI	210	NI	248		110		110		125		294		116	96	54	NI		NI		ND	
	Sep-93	NR	50	113		105		107	NI	125	NI	159		166		91		215		181		80	70	ND	NI		NI		ND	
	Sep-93	NR	50	109		212		152	NI	204	NI	200		145		143		-		250		137	75	87	NI		NI		ND	
	Apr-94	NR	50	73		131		97	NI	113	NI	83		86		103		65		309		73	ND	ND	NI		NI		ND	
	Oct-94	NR	500	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Apr-95	NR	500	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Oct-95	NR	500	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Apr-96	NR	500	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Oct-96	NR	500	ND		NS		ND	NI	AB	NI	ND		ND		ND		ND		ND		WL	ND	AB	NI		NI		ND	
	Apr-97	NR	500	ND		NS		ND	NI	AB	NI	ND		ND		ND		ND		986		WL	ND	AB	NI		NI		ND	
	Oct-97	NR	500	ND		NS		ND	NI	AB	NI	ND		ND		ND		ND		1084		WL	ND	AB	NI		NI		ND	
	Apr-98	NR	500	ND		NS		ND	NI	AB	NI	ND		657		ND		515		971		WL	ND	AB	NI		NI		ND	
	Oct-98	NR	500	ND		NS		ND	NI	AB	NI	ND		ND		ND		ND		898		WL	AB	AB	NI		NI		ND	
	Mar-99	NR	500	ND		NS		ND	NI	AB	NI	ND		ND		ND		ND		ND		WL	AB	AB	NI		NI		ND	
	Oct-99	NR	500	ND		NS		AB	NI	AB	NI	ND		ND		ND		ND		ND		WL	AB	AB	NI		NI		ND	
	Apr-00	NR	500	ND		NS		AB	NI	AB	NI	ND		ND		ND		ND		ND		WL	AB	AB	NI		NI		ND	
	Oct-00	NR	500	ND		NS		AB	NI	AB	NI	ND		ND		ND		ND		ND		WL	AB	AB	NI		NI		ND	
	Apr-01	NR	500	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	NS		NS		ND	
	Oct-01	NR	500	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	NS		NS		ND	
	Apr-02	NR	500	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	Oct-02	NR	500	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	Apr-03	NR	500	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	Oct-03	NR	500	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	15-Apr-04	NR	500	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	14-Oct-04	NR	500	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	05-Apr-05	NR	500	ND		NS		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND	
	05-Oct-05	NR	500	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND	
	21-Apr-06	NR	500	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND	
	12-Oct-06	NR	500	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND	
	26-Apr-07	NR	100	ND		ND		AB	WL	AB	WL	ND		ND		113		ND		ND		WL	AB	AB	ND		WL		ND	
	10-Oct-07	0.04	100.0	44.8	J	56.4	J	AB	WL	AB	WL	69.9	J	67.2	J	133		39	J	96.9	J	WL	AB	AB	28.8	J	WL		0.2	J
NC 2L = 2,000 µg/L (10/23/07)	02-Apr-08	0.11	100.0	72.9	J	33.4	J	AB	WL	AB	WL	74.7	J	64.2	J	140		40.2	J	69.5	J	WL	AB	AB	33.8	J	WL		ND	
	28-Oct-08	0.11	100.0	94.9	J	39.6	J	AB	WL	AB	WL	91.7	J	95.9	J	149		39	J	116		WL	AB	AB	44.2	J	WL		0.7	J
	08-Apr-09	0.04	100.0	118		41.1	J	AB	WL	AB	WL	72.6	J	107		176		43.8	J	92.8	J	WL	AB	AB	42.0	J	WL		0.2	J
	27-Oct-09	0.04	100.0	113		42.9	J	AB	WL	AB	WL	58.4	J	92.0	J	176		46.9	J	120		WL	AB	AB	29.6	J	WL		0.1	J
NC 2L = 700 µg/L (1/1/10)	08-Apr-10	0.03	100.0	109		47.0	J	AB	WL	AB	WL	53.9	J	81.2	J	180		47.2	J	107		WL	AB	AB	35.0	J	WL		0.1	J
	13-Oct-10	0.03	100.0	131		53.4	J	AB	WL	AB	WL	59.9	J	68.8	J	140		44.9	J	114		WL	AB	AB	37.7	J	WL		0.2	J
	27-Apr-11	0.02	100.0	170		45.8	J	AB	WL	AB	WL	48.3	J	66.5	J	150		51.6	J	107		WL	AB	AB	37.3	J	WL		0.10	J
Beryllium	Jul-93	NR	1	3		1		ND	NI	ND	NI	ND		ND		2		ND		ND		8	4	ND	NI		NI		ND	
	Aug-93	NR	1	1		1		ND	NI	1	NI	ND		1		ND		1		ND		1	ND	ND	NI		NI		ND	
	Sep-93	NR	1	1		ND		ND	NI	ND	NI	ND		ND		ND		3		ND		ND	ND	ND	NI		NI		ND	
	Sep-93	NR	1	2		3		ND	NI	ND	NI	ND		2		ND		ND		ND		1	ND	ND	NI		NI		ND	
	Apr-94	NR	1	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Oct-94	NR	2	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Apr-95	NR	2	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Oct-95	NR	2	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Apr-96	NR	2	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Oct-96	NR	2	ND		NS		ND	NI	AB	NI	ND		ND		ND		ND		ND		WL	ND	AB	NI		NI		ND	
	Apr-97	NR	2	3		NS		ND	NI	AB	NI	ND		ND		ND		ND		3		WL	ND	AB	NI		NI		ND	
	Oct-97	NR	2	3		NS		ND	NI	AB	NI	ND		ND		ND		ND		ND		WL	ND	AB	NI		NI		ND	
	Apr-98	NR	2	ND		NS		ND	NI	AB	NI	ND		ND		ND		2.5		ND		WL	2	AB	NI		NI		ND	
	Oct-98	NR	2	2		NS		ND	NI	AB	NI	ND		ND		ND		ND		ND		WL	AB	AB	NI		NI		ND	
	Mar-99	NR	2	ND		NS		ND	NI	AB	NI	ND		ND		ND		ND		ND		WL	AB	AB	NI		NI		ND	
	Oct-99	NR	2	ND		NS		AB	NI	AB	NI	ND		ND		ND		ND		ND		WL	AB	AB	NI		NI		ND	
	Apr-00	NR	2	ND		NS		AB	NI	AB	NI	ND		ND		ND		ND		ND		WL	AB	AB	NI		NI		ND	
	Oct-00	NR	2	ND		NS		AB	NI	AB	NI	ND		ND		ND		ND		ND		WL	AB	AB	NI		NI		ND	
	Apr-01	NR	2	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	NS		NS		ND	
	Oct-01	NR	2	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	NS		NS		ND	
	Apr-02	NR	2	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	Oct-02	NR	2	ND		NS		AB	6	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	Apr-03	NR	2	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	Oct-03	NR	2	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	15-Apr-04	NR	2	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	14-Oct-04	NR	2	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	05-Apr-05	NR	2	ND		NS		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND	
	05-Oct-05	NR	2	ND		6		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND	
	21-Apr-06	NR	2	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND	
	12-Oct-06	NR	2	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND	
	26-Apr-07	NR	1.0	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND	
	10-Oct-07	0.08	1.0	0.1	J	ND		AB	WL	AB	WL	ND		0.3	J	0.1	J	0.1	J	ND		WL	AB	AB	ND		WL		ND	
GWPS = 4 µg/L (10/23/07)	02-Apr-08	0.06	1.0	0.4	J	0.1	J	AB	WL	AB	WL	0.1	J	0.1	J	0.2	J	0.1	J	ND		WL	AB	AB	0.2	J	WL		ND	
	28-Oct-08	0.06	1.0	0.5	J	0.1	J	AB	WL	AB	WL	0.1	J	0.2	J	0.2	J	0.1	J	ND		WL	AB	AB	0.2	J	WL		ND	
	08-Apr-09	0.06	1.0	0.6	J	0.1	J	AB	WL	AB	WL	0.2	J	0.5	J	0.2	J	0.1	J	ND		WL	AB	AB	0.2	J	WL		ND	
	27-Oct-09	0.06	1.0	0.7	J	0.2	J	AB	WL	AB	WL	0.2	J	0.2	J	0.2	J	0.2	J	ND		WL	AB	AB	0.2	J	WL		ND	
	08-Apr-10	0.02	1.0	0.6	J	0.1	B	AB	WL	AB	WL	0.3	B	0.1	B	0.2	B	0.1	B	0.1	B	WL	AB	AB	0.2	B	WL		0.1	J
GWPS = 4 µg/L (10/1/10)	13-Oct-10	0.02	1.0	0.6	J	0.3	J	AB	WL	AB	WL	0.1	J	0.2	J	0.2	J	0.2	J	0.1	J	WL	AB	AB	0.2	J	WL		ND	
	27-Apr-11	0.02	1.0	0.59	J	0.06	J	AB	WL	AB	WL	0.14	J	0.13	J	0.26	J	0.13	J	ND		WL	AB	AB	0.16	J	WL		ND	
Cadmium	Jul-93	NR	1	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Aug-93	NR	1	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Sep-93	NR	1	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Sep-93	NR	1	ND		ND		ND	NI	ND	NI	ND		ND		ND		10		ND		ND	ND	ND	NI		NI		ND	
	Apr-94	NR	1	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Oct-94	NR	1	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Apr-95	NR	1	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Oct-95	NR	1	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Apr-96	NR	1	ND		ND		ND	NI	ND	NI	ND		ND		ND		ND		ND		ND	ND	ND	NI		NI		ND	
	Oct-96	NR	1	ND		NS		ND	NI	AB	NI	ND		ND		ND		ND		ND		WL	ND	AB	NI		NI		ND	
	Apr-97	NR	1	ND		NS		ND	NI	AB	NI	ND		ND		ND		ND		ND		WL	ND	AB	NI		NI		ND	
	Oct-97	NR	1	ND		NS		ND	NI	AB	NI	ND		ND		ND		ND		ND		WL	ND	AB	NI		NI		ND	
	Apr-98	NR	1	ND		NS		ND	NI	AB	NI	ND		ND		ND		ND		ND		WL	ND	AB	NI		NI		ND	
	Oct-98	NR	1	ND		NS		ND	NI	AB	NI	ND		ND		ND		ND		ND		WL	AB	AB	NI		NI		ND	
	Mar-99	NR	1	ND		NS		ND	NI	AB	NI	ND		ND		ND		ND		ND		WL	AB	AB	NI		NI		ND	
	Oct-99	NR	1	ND		NS		AB	NI	AB	NI	ND		ND		ND		ND		ND		WL	AB	AB	NI		NI		ND	
	Apr-00	NR	1	ND		NS		AB	NI	AB	NI	ND		ND		ND		ND		ND		WL	AB	AB	NI		NI		ND	
	Oct-00	NR	1	ND		NS		AB	NI	AB	NI	ND		ND		ND		ND		ND		WL	AB	AB	NI		NI		ND	
	Apr-01	NR	1	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	NS		NS		ND	
	Oct-01	NR	1	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	NS		NS		ND	
	Apr-02	NR	1	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	Oct-02	NR	1	1		NS		AB	ND	AB	WL	ND		ND		1		ND		ND		WL	AB	AB	ND		ND		ND	
	Apr-03	NR	1	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	Oct-03	NR	1	ND		NS		AB	ND	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		ND		ND	
	15-Apr-04	NR	1	ND		NS		AB	3	AB	WL	1		ND		ND		ND		ND		WL	AB	AB	1		ND		ND	
	14-Oct-04	NR	1	ND		NS		AB	2	AB	WL	ND		ND		ND		ND		1		WL	AB	AB	ND		ND		ND	
	05-Apr-05	NR	1	ND		NS		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND	
	05-Oct-05	NR	1	ND		4		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND	
	21-Apr-06	NR	1	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND	
	12-Oct-06	NR	1	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND	
	26-Apr-07	NR	1.0	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND	
	10-Oct-07	0.06	1.0	0.3	B	0.4	B	AB	WL	AB	WL	0.6	J	0.1	B	0.4	B	0.1	B	0.4	B	WL	AB	AB	0.1	B	WL		0.1	J
NC 2L = 1.75 µg/L (10/23/07)	02-Apr-08	0.04	1.0	0.2	J	0.4	J	AB	WL	AB	WL	0.2	J	0.7	J	0.5	J	0.1	J	0.1	J	WL	AB	AB	0.1	J	WL		ND	
	28-Oct-08	0.04	1.0	0.3	J	0.8	J	AB	WL	AB	WL	0.1	J	0.1	J	0.2	J	0.2	J	0.3	J	WL	AB	AB	0.2	J	WL		ND	
	08-Apr-09	0.04	1.0	0.2	J	0.1	J	AB	WL	AB	WL	0.6	J	0.4	J	0.6	J	0.1	J	0.7	J	WL	AB	AB	0.1	J	WL		ND	
	27-Oct-09	0.04	1.0	0.4	J	0.3	J	AB	WL	AB	WL	0.2	J	0.2	J	0.2	J	0.2	J	0.2	J	WL	AB	AB	0.2	J	WL		ND	
NC 2L = 2 µg/L (1/1/10)	08-Apr-10	0.02	1.0	0.4	B	0.2	B	AB	WL	AB	WL	0.9	J	0.1	B	0.2	B	0.1	B	0.1	B	WL	AB	AB	0.1	B	WL		0.1	J
	13-Oct-10	0.02	1.0	0.7	J	0.3	J	AB	WL	AB	WL	0.3	J	0.2	J	1.1		0.2	J	0.1	J	WL	AB	AB	0.5	J	WL		ND	
	27-Apr-11	0.02	1.0	0.11	J	0.10	J	AB	WL	AB	WL	0.06	J	0.19	J	0.24	J	0.08	J	0.11	J	WL	AB	AB	0.06	J	WL		ND	

TABLE 6
SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS
TUSCARORA INTERIM REGIONAL LANDFILL

| Constituent | Date | DL | RL | Concentrations (ug/L) | | |

TABLE 6
SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS
TUSCARORA INTERIM REGIONAL LANDFILL

Constituent	Date	Concentrations (ug/L)																																				
		DL	RL	Background				Downgradient																														Blanks
				IRL-1S		IRL-1D		IRL-2S		IRL-2SA		IRL-2D		IRL-2DA		IRL-3S		IRL-3D		IRL-4S		IRL-4D		IRL-5S		IRL-5D		IRL-6S		IRL-6D		MW-A		MW-B		
Nickel	Jul-93	NR	10	45		30		15		NI		21		NI		23		53		26		133		51		144		54		35		NI		NI		ND	
	Aug-93	NR	10	25	B	16	B	16	B	NI		36	B	NI		31	B	28	B	99		62		60		42	B	213		35	B	NI		NI		11	
	Sep-93	NR	10	25	B	28	B	33	B	NI		22	B	NI		20	B	28	B	27	B	53	B	48	B	42	B	36	B	24	B	NI		NI		17	
	Sep-93	NR	10	24		32		16		NI		22		NI		17		22		11		ND		20		21		ND		ND		NI		NI		ND	
	Apr-94	NR	10	34	B	38	B	36	B	NI		54	B	NI		53	B	57	B	45	B	40	B	50	B	27	B	ND		ND		NI		NI		20	
	Oct-94	NR	50	ND		ND		ND		NI		ND		NI		ND		ND		ND		ND		64		ND		ND		ND		NI		NI		ND	
	Apr-95	NR	50	ND		ND		ND		NI		ND		NI		ND		ND		ND		ND		ND		ND		ND		17		NI		NI		ND	
	Oct-95	NR	50	ND		ND		ND		NI		ND		NI		ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		ND	
	Apr-96	NR	50	ND		ND		ND		NI		ND		NI		ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		ND	
	Oct-96	NR	50	ND		NS		ND		NI		AB		NI		ND		ND		ND		ND		ND		WL		ND		AB		NI		NI		ND	
	Apr-97	NR	50	ND		NS		ND		NI		AB		NI		ND		ND		ND		ND		ND		WL		ND		AB		NI		NI		ND	
	Oct-97	NR	50	ND		NS		ND		NI		AB		NI		ND		ND		ND		ND		ND		WL		ND		AB		NI		NI		ND	
	Apr-98	NR	50	ND		NS		ND		NI		AB		NI		ND		ND		ND		ND		ND		WL		ND		AB		NI		NI		ND	
	Oct-98	NR	50	ND		NS		ND		NI		AB		NI		ND		ND		ND		ND		ND		WL		AB		AB		NI		NI		ND	
	Mar-99	NR	50	ND		NS		ND		NI		AB		NI		ND		ND		ND		ND		ND		WL		AB		AB		NI		NI		ND	
	Oct-99	NR	50	ND		NS		AB		NI		AB		NI		ND		ND		ND		ND		ND		WL		AB		AB		NI		NI		ND	
	Apr-00	NR	50	ND		NS		AB		NI		AB		NI		ND		ND		ND		ND		ND		WL		AB		AB		NI		NI		ND	
	Oct-00	NR	50	ND		NS		AB		NI		AB		NI		ND		ND		ND		ND		ND		WL		AB		AB		NI		NI		ND	
	Apr-01	NR	50	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		NS		NS		ND	
	Oct-01	NR	50	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		NS		NS		ND	
	Apr-02	NR	50	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		ND		ND	
	Oct-02	NR	50	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		ND		ND	
	Apr-03	NR	50	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		ND		ND	
	Oct-03	NR	50	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		ND		ND	
	15-Apr-04	NR	50	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		ND		ND	
	14-Oct-04	NR	50	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		ND		ND	
	05-Apr-05	NR	50	ND		NS		AB		WL		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		WL		ND	
	05-Oct-05	NR	50	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		WL		ND	
	21-Apr-06	NR	50	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		WL		ND	
	12-Oct-06	NR	50	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		WL		ND	
	26-Apr-07	NR	50	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		WL		ND	
	10-Oct-07	0.66	50.0	1.5	J	0.9	J	AB		WL		AB		WL		3.3	J	2.7	J	2.3	J	2.1	J	6.1	J	WL		AB		AB		1.0	J	WL		ND	
NC 2L = 100 µg/L (10/23/07)	02-Apr-08	0.06	50.0	1.6	J	1.4	B	AB		WL		AB		WL		5.4	J	3.9	J	2.0	J	2.5	J	5.3	J	WL		AB		AB		2.1	J	WL		0.3	J
	28-Oct-08	0.06	50.0	2	J	1.6	J	AB		WL		AB		WL		5	J	4.8	J	1.9	J	2.9	J	8.4	J	WL		AB		AB		1.1	J	WL		0.2	J
	08-Apr-09	0.04	50.0	3.1	J	1.0	J	AB		WL		AB		WL		4.6	J	6.4	J	1.9	J	1.7	J	6.3	J	WL		AB		AB		0.8	J	WL		ND	
	27-Oct-09	0.04	50.0	2.5	J	1.4	J	AB		WL		AB		WL		2.8	J	2.3	J	1.9	J	1.8	J	4.9	J	WL		AB		AB		0.8	B	WL		0.2	J
	08-Apr-10	0.05	50.0	1.9	J	0.5	J	AB		WL		AB		WL		4.6	J	1.9	J	2.0	J	1.1	J	4.9	J	WL		AB		AB		1.1	J	WL		ND	
	13-Oct-10	0.05	50.0	2.1	J	4	J	AB		WL		AB		WL		8.2	J	4.5	J	2.8	J	3.5	J	10.7	J	WL		AB		AB		1.1	J	WL		0.1	J
	27-Apr-11	0.04	50.0	2.7	J	0.88	B	AB		WL		AB		WL		3.1	J	1.9	J	3.3	J	1.6	J	4.4	J	WL		AB		AB		1.2	B	WL		0.30	J
Selenium	10-Oct-07	0.35	10.0	1.2	B	1.0	B	AB		WL		AB		WL		8.0	J	1.7	B	3.5	B	1.2	B	4.5	B	WL		AB		AB		1.6	B	WL		0.9	J
NC 2L = 50 µg/L (10/23/07)	02-Apr-08	0.14	10.0	ND		ND		AB		WL		AB		WL		1.0	J	0.9	J	5.2	J	ND		6.2	J	WL		AB		AB		0.7	J	WL		ND	
	28-Oct-08	0.14	10.0	0.2	B	ND		AB		WL		AB		WL		2.8	B	2.4	B	5	B	ND		4.5	B	WL		AB		AB		1.2	B	WL		1.9	J
	08-Apr-09	0.12	10.0	ND		ND		AB		WL		AB		WL		0.8	J	2.0	J	3.0	J	ND		3.1	J	WL		AB		AB		0.9	J	WL		ND	
	27-Oct-09	0.12	10.0	0.3	J	0.3	J	AB		WL		AB		WL		2.0	J	1.5	J	2.3	J	ND		3.4	J	WL		AB		AB		0.7	J	WL		ND	
NC 2L = 20 µg/L (1/1/10)	08-Apr-10	0.32	10.0	ND		ND		AB		WL		AB		WL		0.5	J	0.8	J	3.6	J	ND		5.1	J	WL		AB		AB		0.6	J	WL		ND	
	13-Oct-10	0.32	10.0	ND		ND		AB		WL		AB		WL		1.6	J	1.2	J	5.1	J	ND		6.6	J	WL		AB		AB		1.6	J	WL		ND	
	27-Apr-11	0.20	10.0	ND		0.31	J	AB		WL		AB		WL		1.5	J	0.76	J	2.3	J	0.34	J	3.8	J	WL		AB		AB		0.81	J	WL		ND	
Silver	02-Apr-08	0.04	10.0	0.1	B	0.1	B	AB		WL		AB		WL		0.1	B	ND		0.1	B	ND		ND		WL		AB		AB		0.1	B	WL		0.1	J
NC 2L = 17.5 µg/L (10/23/07)	28-Oct-08	0.04	10.0	0.1	B	0.1	B	AB		WL		AB		WL		0.1	B	ND		ND		ND		0.1	B	WL		AB		AB		ND		WL		0.1	J
	08-Apr-09	0.04	10.0	ND		ND		AB		WL		AB		WL		ND		ND		0.1	J	ND		ND		WL		AB		AB		ND		WL		ND	
	27-Oct-09	0.04	10.0	ND		0.1	J	AB		WL		AB		WL		0.1	J	0.1	J	0.1	J	ND		ND		WL		AB		AB		0.1	J	WL		ND	
NC 2L = 20 µg/L (1/1/10)	08-Apr-10	0.03	10.0	ND		ND		AB		WL		AB		WL		0.1	B	0.1	B	0.1	B	ND		0.1	B	WL		AB		AB		ND		WL		0.1	J
	13-Oct-10	0.03	10.0	ND		ND		AB		WL		AB		WL		ND		ND		ND		0.1	J	0.1	J	WL		AB		AB		ND		WL		ND	
	27-Apr-11	0.02	10.0	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		WL		ND	
Thallium	02-Apr-08	0.04	5.0	0.1	J	0.2	J	AB		WL		AB		WL		0.1	J	ND		0.1	J	ND		ND		WL		AB		AB		0.1	J	WL		ND	
GWPS = 0.28 µg/L (10/23/07)	28-Oct-08	0.04	5.0	0.2	J	ND		AB		WL		AB		WL		0.1	J	ND		0.1	J	ND		ND		WL		AB		AB		ND		WL		ND	
	08-Apr-09	0.03	5.0	0.1	J	ND		AB		WL		AB		WL		0.1	J	0.1	J	0.1	J	ND		ND		WL		AB		AB		ND		WL		ND	
	27-Oct-09	0.03	5.0	0.1	J	0.1	J	AB		WL		AB		WL		0.1	J	0.1	J	ND		ND		ND		WL		AB		AB		ND		WL		ND	
	08-Apr-10	0.05	5.0	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		WL		ND	
GWPS = 0.2 µg/L (10/1/10)	13-Oct-10	0.05	5.0	ND		ND		AB		WL		AB		WL		ND		ND		ND		0.2	J	0.1	J	WL		AB		AB		ND		WL		ND	
	27-Apr-11	0.02	5.5	0.03	B	ND		AB		WL		AB		WL		0.05	B	ND		0.04	B	ND		ND		WL		AB		AB		ND		WL		0.03	J
Vanadium	Jul-93	NR	2000	ND		ND		ND		NI		ND		NI		ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		ND	
	Aug-93	NR	2000	ND		ND		ND		NI		ND		NI		ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		ND	
	Sep-93	NR	2000	ND		ND		ND		NI		ND		NI		ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		ND	
	Sep-93	NR	2000	ND		ND		ND		NI		ND		NI		ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		ND	
	Apr-94	NR	25	ND		ND		ND		NI		ND		NI		ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		ND	
	Oct-94	NR	40	ND		ND		ND		NI		ND		NI		ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		ND	
	Apr-95	NR	40	ND		ND		ND		NI		ND		NI		ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		ND	
	Oct-95	NR	40	ND		ND		ND		NI		ND		NI		ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		ND	
	Apr-96	NR	40	ND		ND		ND		NI		ND		NI		ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		ND	
	Oct-96	NR	40	ND		NS		ND		NI		AB		NI		48		ND		ND		ND		ND		WL		ND		AB		NI		NI		ND	
	Apr-97	NR	40	48		NS		ND		NI		AB		NI		48		ND		ND		ND		ND		WL		ND		AB		NI		NI		ND	
	Oct-97	NR	40	56		NS		ND		NI		AB		NI		ND		ND		ND		ND		ND		WL		ND		AB		NI		NI		ND	
	Apr-98	NR	40	ND		NS		ND		NI		AB		NI		ND		ND		ND		ND		ND		WL		ND		AB		NI		NI		ND	
	Oct-98	NR	40	ND		NS		ND		NI		AB		NI		ND		ND		ND		ND		ND		WL		AB		AB		NI		NI		ND	
	Mar-99	NR	40	63		NS		ND		NI		AB		NI		ND		ND		ND		ND		ND		WL		AB		AB		NI		NI		ND	
	Oct-99	NR	40	ND		NS		AB		NI		AB		NI		ND		ND		ND		ND		ND		WL		AB		AB		NI		NI		ND	
	Apr-00	NR	40	ND		NS		AB		NI		AB		NI		ND		ND		ND		ND		ND		WL		AB		AB		NI		NI		ND	
	Oct-00	NR	40	ND		NS		AB		NI		AB		NI		ND		ND		ND		ND		ND		WL		AB		AB		NI		NI		ND	
	Apr-01	NR	40	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		NS		NS		ND	
	Oct-01	NR	40	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		NS		NS		ND	
	Apr-02	NR	40	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		ND		ND	
	Oct-02	NR	40	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		ND		ND	
	Apr-03	NR	40	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		ND		ND	
	Oct-03	NR	40	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		ND		ND	
	15-Apr-04	NR	40	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		ND		ND	
	14-Oct-04	NR	40	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		ND		ND	
	05-Apr-05	NR	40	ND		NS		AB		WL		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		WL		ND	
	05-Oct-05	NR	40	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		WL		ND	
	21-Apr-06	NR	40	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		WL		ND	
	12-Oct-06	NR	40	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		WL		ND	
	26-Apr-07	NR	25	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		WL		ND	
	10-Oct-07	0.42	25.0	0.6	J	ND		AB		WL		AB		WL		2.5	J	1.2	J	ND		0.8	J	1.2	J	WL		AB		AB		ND		WL		ND	
GWPS = 3.5 µg/L (10/23/07)	02-Apr-08	0.07	25.0	2.0	J	0.3	J	AB		WL		AB		WL		1.6	J	1.1	J	0.3	J	1.0	J	1.2	J	WL		AB		AB		1.1	J	WL		ND	
	28-Oct-08	0.07	25.0	4.2	J	2.1	J	AB		WL		AB		WL		3.3	J	1.9	J	1	B	1.7	J	2	J	WL		AB		AB		2.7	J	WL		0.2	J
	08-Apr-09	0.28	25.0	7.8	J	1.9	J	AB		WL		AB		WL		6.2	J	8.2	J	3.1	J	2.1	J	3.0	J	WL		AB		AB		3.7	J	WL		ND	
	27-Oct-09	0.28	25.0	10.3	J	2.7	J	AB		WL		AB		WL		5.9	J	2.5	J	1.5	B	2.3	J	2.4	J	WL		AB		AB		2.4	J	WL		0.4	J
	08-Apr-10	0.03	25.0	7.5	J	1.2	B	AB		WL		AB		WL		6.0	J	1.1	B	1.2	B	1.2	B	2.0	B	WL		AB		AB		3.1	J	WL		0.4	J
GWPS = 0.3 µg/L (10/1/10)	13-Oct-10	0.03	25.0	1.7	B	5.1	J	AB		WL		AB		WL		2.9	B	2.6	B	1.5	B	2.7	B	2.2	B	WL		AB		AB		3	B	WL		0.6	J
	27-Apr-11	0.14	25.0	1.2	J	0.79	J	AB		WL		AB		WL		2.0	J	1.6	J	0.49	J	1.4	J	1.5	J	WL		AB		AB		1.3	J	WL		ND	
Zinc	Jul-93	NR	10	42	B	41	B	10	B	NI		15	B	NI		11	B	43	B	14	B	293		ND		301		ND		25	B	NI		NI		10	
	Aug-93	NR	10	37		18		11		NI		14		NI		ND		ND		16		25		ND		64		12		22		NI		NI		ND	
	Sep-93	NR	10	31		20		ND		NI		ND		NI		ND		13		ND		57		ND		12		ND		ND		NI		NI		ND	
	Sep-93	NR	10	73		88		17		NI		27		NI		22		26		14		41		11		29		12		24		NI		NI		ND	
	Apr-94	NR	10	36	B	19	B	42	B	NI		21	B	NI		155		24	B	25	B	30	B	48	B	22	B	34	B	ND		NI		NI		20	
	Oct-94	NR	50	ND		ND		ND		NI		ND		NI		ND		ND		ND		ND		97		ND		ND		ND		NI		NI		ND	
	Apr-95	NR	50	ND		ND		ND		NI		ND		NI		ND		ND		ND		ND		803		ND		ND		25		NI		NI		ND	
	Oct-95	NR	50	ND		ND		ND		NI		ND		NI		ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		ND	
	Apr-96	NR	50	ND		ND		ND		NI		ND		NI		ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		ND	
	Oct-96	NR	50	ND		NS		ND		NI		AB		NI		ND		ND		ND		ND		ND		WL		ND		AB		NI		NI		ND	
	Apr-97	NR	50	ND		NS		ND		NI		AB		NI		ND		ND		ND		ND		1425		WL		ND		AB		NI		NI		ND	
	Oct-97	NR	50	110		NS		ND		NI		AB		NI		ND		ND		ND		ND		1240		WL		ND		AB		NI		NI		ND	
	Apr-98	NR	50	ND		NS		ND		NI		AB		NI		ND		ND		ND		ND		6340		WL		ND		AB		NI		NI		ND	
	Oct-98	NR	50	ND		NS		ND		NI		AB		NI		ND		ND		ND		ND		54		WL		AB		AB		NI		NI		ND	
	Mar-99	NR	50	ND		NS		ND		NI		AB		NI		ND		ND		ND		ND		1608		WL		AB		AB		NI		NI		ND	
	Oct-99	NR	50	ND		NS		AB		NI		AB		NI		ND		ND		ND		ND		65		WL		AB		AB		NI		NI		ND	
	Apr-00	NR	50	90		NS		AB		NI		AB		NI		ND		ND		ND		ND		596		WL		AB		AB		NI		NI		ND	
	Oct-00	NR	50	ND		NS		AB		NI		AB		NI		ND		ND		ND		ND		74		WL		AB		AB		NI		NI		ND	
	Apr-01	NR	50	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		1204		WL		AB		AB		NS		NS		ND	
	Oct-01	NR	50	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		362		WL		AB		AB		NS		NS		ND	
	Apr-02	NR	50	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		124		WL		AB		AB		ND		ND		ND	
	Oct-02	NR	50	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		131		WL		AB		AB		ND		ND		ND	
	Apr-03	NR	50	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		112		WL		AB		AB		ND		ND		ND	
	Oct-03	NR	50	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		277		WL		AB		AB		ND		ND		ND	
	15-Apr-04	NR	50	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		364		WL		AB		AB		ND		ND		ND	
	14-Oct-04	NR	50	ND		NS		AB		ND		AB		WL		ND		ND		ND		ND		63		WL		AB		AB		ND		ND		ND	
	05-Apr-05	NR	50	ND		NS		AB		WL		AB		WL		ND		ND		ND		ND		132		WL		AB		AB		ND		WL		ND	
	05-Oct-05	NR	50	ND		192		AB		WL		AB		WL		ND		ND		ND		ND		280		WL		AB		AB		ND		WL		ND	
	21-Apr-06	NR	50	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		76		WL		AB		AB		ND		WL		ND	
	12-Oct-06	NR	50	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		172		WL		AB		AB		ND		WL		ND	
	26-Apr-07	NR	10	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		30		WL		AB		AB		ND		WL		ND	
	10-Oct-07	0.20	10.0	7.5	B	5.3	B	AB		WL		AB		WL		3.8	B	3.0	B	7.4	B	6.8	B	55		WL		AB		AB		5.2	B	WL		6.6	
NC 2L = 1,050 µg/L (10/23/07)	02-Apr-08	0.04	10.0	5.5	B	14	B	AB		WL		AB		WL		3.3	B	2.1	B	4.4	B	1.6	B	37		WL		AB		AB		11	B	WL		6.3	J
	28-Oct-08	0.04	10.0	6.8	J	6.6	J	AB		WL		AB		WL		7.8	J	3.8	J	8.7	J	3.0	J	415		WL		AB		AB		6.8	J	WL		0.4	J
Resample	23-Dec-08	4.46	10.0	NS		NS		AB		NS		AB		NS		NS		NS		NS		NS		86		NS		AB		AB		NS		NS		NA	
	08-Apr-09	0.14	10.0	9.5	J	13		AB		NS		AB		WL		18		18		11		2.1	B	380		WL		AB		AB		6.4	J	WL		0.8	J
Resample	01-Jun-09	0.14	10.0	NS		NS		AB		NS		AB		NS		NS		NS		NS		NS		26		NS		AB		AB		NS		NS		NS	
	27-Oct-09	0.14	10.0	11		6.7	B	AB		NS		AB		WL		9.0	J	5.0	B	6.6	B	4.2	B	640		WL		AB		AB		7.0	B	WL		1.4	J
NC 2L = 1,000 µg/L (01/01/10) Resample	12-Feb-10	0.14	10.0	NS		NS		AB		NS		AB		NS		NS		NS		NS		NS		158		NS		AB		AB		NS		NS		NS	
	08-Apr-10	0.08	10.0	12		9.7	J	AB		WL		AB		WL		32		2.6	B	8.0	J	5.1	J	177		WL		AB		AB		7.3	J	WL		0.7	J
	13-Oct-10	0.08	10.0	7	B	14	B	AB		WL		AB		WL		10	B	4.4	B	9.5	B	13	B	362		WL		AB		AB		9.9	B	WL		4.1	J
Resample	01-Dec-10	0.08	10.0	NS		NS		AB		NS		AB		NS		NS		NS		NS		NS		106		NS		AB		AB		NS		NS		NS	
	27-Apr-11	0.24	10.0	4.4	B	3.2	B	AB		WL		AB		WL		8.7	J	1.8	B	8.1	J	3.1	B	118		WL		AB		AB		5.3	B	WL		1.1	J
1,1-Dichloroethylene	10-Oct-07	0.14	5.0	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		2.80	J	WL		AB		AB		3.10	J	WL		ND	
NC 2L = 7 µg/L (10/23/07) Resample	04-Dec-07	0.56	1.0	NS		NS		AB		NS		AB		WL		NS		NS		NS		NS		ND		NS		AB		AB		ND		NS		ND	
	02-Apr-08	0.14	5.0	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		WL		ND	
	28-Oct-08	0.14	5.0	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		WL		ND	
	08-Apr-09	0.14	5.0	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		WL		ND	
	27-Oct-09	0.17	5.0	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		WL		ND	
	08-Apr-10	0.17	5.0	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		WL		ND	
	13-Oct-10	0.17	5.0	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		WL		ND	
	27-Apr-11	0.17	5.0	ND		ND		AB		WL		AB		WL		ND		ND		ND		ND		ND		WL		AB		AB		ND		WL		ND	

TABLE 6
SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS
TUSCARORA INTERIM REGIONAL LANDFILL

Constituent	Date	Concentrations (ug/L)																												
		DL	RL	Background				Downgradient																						Blanks
				IRL-1S		IRL-1D		IRL-2S	IRL-2SA	IRL-2D	IRL-2DA	IRL-3S		IRL-3D		IRL-4S		IRL-4D		IRL-5S		IRL-5D	IRL-6S	IRL-6D	MW-A		MW-B	
2-Butanone	10-Oct-07	0.85	100.0	2.70	J	3.30	J	AB	WL	AB	WL	4.00	J	4.10	J	3.00	J	4.40	J	2.70	J	WL	AB	AB	3.90	J	WL		ND
NC 2L = 4,200 µg/L (10/23/07) Resample	04-Dec-07	0.96	5.0	ND		ND		AB	NS	AB	WL	ND		ND		ND		ND		ND		NS	AB	AB	ND		NS		ND
	02-Apr-08	0.85	100.0	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND
	28-Oct-08	0.85	100.0	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND
	08-Apr-09	0.85	100.0	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND
	27-Oct-09	2.21	100.0	ND		ND		AB	WL	AB	WL	2.60	J	2.80	J	5.20	J	2.90	J	2.90	J	WL	AB	AB	3.00	J	WL		ND
NC 2L = 4,000 µg/L (1/1/10)	08-Apr-10	2.21	100.0	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND
	13-Oct-10	2.21	100.0	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		2.50	J	WL	AB	AB	ND		WL		ND
	27-Apr-11	2.21	100.0	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND
Acetone	10-Oct-07	1.21	100.0	2.20	J	2.70	J	AB	WL	AB	WL	7.40	J	3.40	J	2.60	J	4.90	J	ND		WL	AB	AB	ND		WL		ND
NC 2L = 700 µg/L (10/23/07) Resample	04-Dec-07	2.2	25.0	ND		ND		AB	NS	AB	WL	ND		ND		ND		ND		NS		NS	AB	AB	NS		NS		ND
	02-Apr-08	1.21	100.0	3.50	B	6.60	B	AB	WL	AB	WL	4.90	B	4.90	B	4.00	B	3.60	B	3.90	B	WL	AB	AB	4.20	B	WL		1.50	J
	28-Oct-08	1.21	100.0	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		1.90	J	WL	AB	AB	ND		WL		ND
	08-Apr-09	1.21	100.0	ND		ND		AB	WL	AB	WL	ND		1.40	J	ND		ND		1.40	J	WL	AB	AB	ND		WL		ND
	27-Oct-09	9.06	100.0	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND
NC 2L = 6,000 µg/L (1/1/10)	08-Apr-10	9.06	100.0	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND
	13-Oct-10	9.06	100.0	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND
	27-Apr-11	9.06	100.0	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND
Chloromethane	10-Oct-07	0.18	1.0	0.50	J	0.60	J	AB	WL	AB	WL	0.80	J	0.70	J	0.50	J	0.90	J	0.50	J	WL	AB	AB	0.80	J	WL		ND
NC 2L = 2.6 µg/L (10/23/07) Resample	04-Dec-07	0.11	1.0	ND		ND		AB	NS	AB	WL	ND		ND		ND		ND		ND		NS	AB	AB	ND		NS		ND
	02-Apr-08	0.18	1.0	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND
	28-Oct-08	0.18	1.0	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND
	08-Apr-09	0.18	1.0	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND
	27-Oct-09	0.77	1.0	ND		ND		AB	WL	AB	WL	ND		ND		0.90	J	ND		ND		WL	AB	AB	ND		WL		ND
NC 2L = 3 µg/L (1/1/10)	08-Apr-10	0.77	1.0	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND
	13-Oct-10	0.77	1.0	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND
	27-Apr-11	0.77	1.0	ND		ND		AB	WL	AB	WL	ND		ND		ND		ND		ND		WL	AB	AB	ND		WL		ND

Notes:
1. All concentrations are in micrograms per liter (mg/L).
2. IRL = Interim Regional Landfill monitoring well
3. RL = Laboratory reporting limit (NC SWSL or lower from October 2007 to present).
4. ND = Not detected above laboratory reporting limit.
5. B = Blank-qualified data; result is expected to be biased high based on concentrations in the blanks.
6. NC 2L = North Carolina 2L Groundwater Standards.
7. GWPS = Groundwater Protection Standards.
8. When the NC 2L has not been established, the GWPS will be used.
9. Shaded values are above the NC 2L Groundwater Standards or Groundwater Protection Standards.
10. NA = Data not available.
11. DL = Laboratory detection limit.
12. J = Estimated value between the DL and the RL
13. NI = Well/Piezometer not installed.
14. AB = Abandoned.
15. NS = Not sampled and/or no water level measurements taken.
16. NR = Not Reported.
17. WL = May be monitored for water levels only.

TABLE 7
SUMMARY OF FIELD PARAMETERS
TUSCARORA INTERIM REGIONAL LANDFILL

Field Parameters	Date	Background		Downgradient													
		IRL-1S	IRL-1D	IRL-2S	IRL-2SA	IRL-2D	IRL-2DA	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	IRL-5D	IRL-6S	IRL-6D	MW-A	MW-B
Conductivity	Jun-93	1,000	480	30	NI	580	NI	430	520	370	600	800	590	310	460	NI	NI
[uMhos]	Aug-93	59	240	110	NI	360	NI	370	300	240	330	600	290	110	260	NI	NI
	Sep-93	75	300	150	NI	530	NI	420	450	250	460	880	400	150	400	NI	NI
	Sep-93	74	280	150	NI	520	NI	360	440	270	460	860	360	130	390	NI	NI
	Apr-94	76	350	140	NI	570	NI	360	620	290	560	990	460	77	460	NI	NI
	Oct-94	130	280	130	NI	820	NI	570	820	270	730	1,000	82	82	420	NI	NI
	Apr-95	67	360	160	NI	560	NI	240	670	290	520	1,900	490	69	450	NI	NI
	Oct-95	65	270	260	NI	660	NI	260	700	330	520	1,300	480	75	450	NI	NI
	Apr-96	79	360	340	NI	580	NI	700	320	290	520	1,500	450	77	440	NI	NI
	Oct-96	63	NS	NA	NI	AB	NI	410	530	250	400	1,000	WL	87	AB	NI	NI
	Apr-97	80	NS	640	NI	AB	NI	330	690	270	530	1,800	WL	NA	AB	NI	NI
	Oct-97	84	NS	630	NI	AB	NI	720	270	270	490	1,200	WL	NA	AB	NI	NI
	Apr-98	73	NS	700	NI	AB	NI	360	770	240	520	1,400	WL	110	AB	NI	NI
	Oct-98	74	NS	600	NI	AB	NI	480	750	230	490	1,200	WL	AB	AB	NI	NI
	Mar-99	77	NS	810	NI	AB	NI	880	760	760	520	1,200	WL	AB	AB	NI	NI
	Oct-99	74	NS	AB	NI	AB	NI	960	710	490	490	800	WL	AB	AB	NI	NI
	Apr-00	74	NS	AB	NI	AB	NI	1,100	1,400	170	500	900	WL	AB	AB	NI	NI
	Oct-00	76	NS	AB	NI	AB	NI	1,100	720	230	500	900	WL	AB	AB	NI	NI
	Apr-01	67	NS	AB	64	AB	WL	1,100	710	190	470	840	WL	AB	AB	NS	NS
	Oct-01	74	NS	AB	170	AB	WL	1,000	710	200	500	1,700	WL	AB	AB	NS	NS
	Apr-02	68	NS	AB	120	AB	WL	950	710	200	450	1,700	WL	AB	AB	90	120
	Oct-02	19	NS	AB	448	AB	WL	970	830	192	550	1,848	WL	AB	AB	98	132
	Apr-03	100	NS	AB	329	AB	WL	1,082	804	215	486	1,024	WL	AB	AB	86	157
	Oct-03	96	NS	AB	182	AB	WL	1,110	849	205	506	1,393	WL	AB	AB	81	180
	15-Apr-04	64	NS	AB	120	AB	WL	700	600	170	360	990	WL	AB	AB	56	100
	14-Oct-04	99	NS	AB	183	AB	WL	775	712	239	482	1,188	WL	AB	AB	86	123
	05-Apr-05	96	NS	AB	WL	AB	WL	1,033	942	287	601	1,491	WL	AB	AB	89	WL
	27-Oct-05	105	195	AB	WL	AB	WL	876	775	250	502	1,323	WL	AB	AB	91	WL
	21-Apr-06	104	231	AB	WL	AB	WL	927	736	271	553	1,424	WL	AB	AB	79	WL
	12-Oct-06	101	164	AB	WL	AB	WL	784	672	278	515	126	WL	AB	AB	87	WL
	26-Apr-07	103	155	AB	WL	AB	WL	850	721	287	536	1,287	WL	AB	AB	75	WL
	10-Oct-07	105	192	AB	WL	AB	WL	850	702	354	550	1,570	WL	AB	AB	98	WL
Resample	04-Dec-07	109.2	357	AB	WL	AB	WL	963	1,052	379	610	1,829	WL	AB	AB	108.7	WL
	02-Apr-08	109	169	AB	WL	AB	WL	1,096	713	253	540	1,272	WL	AB	AB	86	WL
	28-Oct-08	109	217	AB	WL	AB	WL	935	931	266	533	1,468	WL	AB	AB	103	WL
	08-Apr-09	106	215	AB	WL	AB	WL	1,092	894	283	541	1,265	WL	AB	AB	95	WL
	27-Oct-09	93	170	AB	WL	AB	WL	898	824	372	522	1,144	WL	AB	AB	91	WL
	08-Apr-10	103	220	AB	WL	AB	WL	1,030	860	338	576	1,538	WL	AB	AB	94	WL
	13-Oct-10	119	187	AB	WL	AB	WL	889	753	464	557	1,303	WL	AB	AB	93	WL
	27-Apr-11	156	252	AB	WL	AB	WL	982	734	505	605	1,472	WL	AB	AB	104	WL
pH	Jun-93	5.3	6.3	6.1	NI	6.2	NI	5.4	6.3	5.7	6.1	6	6.4	5.8	6.2	NI	NI
[units]	Aug-93	5.5	6.5	6.3	NI	6.8	NI	6	6.8	6.4	6.9	6.2	6.8	6.3	7	NI	NI
	Sep-93	5.9	6.6	5.7	NI	6.5	NI	5.9	6.5	6.7	7	6.1	6.6	6.5	6.7	NI	NI
	Sep-93	6.1	6.5	5.8	NI	6.1	NI	5.9	6.5	5.7	6.3	6.4	6.9	6.6	6.6	NI	NI
	Apr-94	5.9	6.1	5.4	NI	6.4	NI	5.7	6.5	6.2	6.7	6.4	6.8	6.4	6.7	NI	NI
	Oct-94	5.2	6.4	5.2	NI	6.7	NI	5.7	6.7	6	6.8	6.2	7	5.5	6.8	NI	NI
	Apr-95	5.7	6.1	5.5	NI	6.4	NI	6	6.2	6.2	6.6	6.2	3.8	6.2	6.6	NI	NI
	Oct-95	5	6.4	5.6	NI	6.7	NI	5.4	6.6	5.9	6.8	6.2	6.9	5.3	7	NI	NI
	Apr-96	5	6.3	5.8	NI	6.6	NI	6.7	6	6.1	6.7	6.4	7	5.5	6.6	NI	NI
	Oct-96	5.2	NS	NA	NI	AB	NI	6	6	6.4	6.4	5.8	WL	6	AB	NI	NI
	Apr-97	6.1	NS	6.3	NI	AB	NI	6.2	6.5	6.1	6.6	6.2	WL	NA	AB	NI	NI
	Oct-97	5.3	NS	5.8	NI	AB	NI	5.9	5.6	5.6	6.1	5.8	WL	NA	AB	NI	NI
	Apr-98	5.8	NS	6.5	NI	AB	NI	5.4	6.4	5.6	6.8	6.1	WL	5.2	AB	NI	NI
	Oct-98	5.5	NS	6.1	NI	AB	NI	5.6	6.3	5.7	6.7	6	WL	AB	AB	NI	NI
	Mar-99	5.2	NS	6.3	NI	AB	NI	5.7	6.5	6.0	6.7	6	WL	AB	AB	NI	NI
	Oct-99	4.9	NS	AB	NI	AB	NI	5.9	6.4	6.8	6.8	5.7	WL	AB	AB	NI	NI
	Apr-00	5.2	NS	AB	NI	AB	NI	5.8	6.4	5.7	6.9	5.8	WL	AB	AB	NI	NI
	Oct-00	4.8	NS	AB	NI	AB	NI	5.7	6.4	5.5	6.6	5.2	WL	AB	AB	NI	NI
	Apr-01	4.9	NS	AB	4.8	AB	WL	5.6	6.5	5.4	6.6	5.5	WL	AB	AB	NS	NS
	Oct-01	5	NS	AB	4.9	AB	WL	5.8	6.6	5.6	6.9	6.1	WL	AB	AB	NS	NS
	Apr-02	4.7	NS	AB	4.3	AB	WL	5.7	6.3	5.3	6.4	6.0	WL	AB	AB	5.2	4.5
	Oct-02	5.1	NS	AB	4.1	AB	WL	6.0	6.4	5.3	7.0	6.1	WL	AB	AB	5.2	4.7
	Apr-03	5.1	NS	AB	4.3	AB	WL	6.1	6.5	5.3	6.8	5.8	WL	AB	AB	5.2	4.7
	Oct-03	4.8	NS	AB	4.3	AB	WL	5.8	6.3	5.1	6.7	5.9	WL	AB	AB	5.0	4.8
	15-Apr-04	5.3	NS	AB	4.4	AB	WL	6.4	5.6	5.8	6.8	6.4	WL	AB	AB	5.4	5.8
	14-Oct-04	4.9	NS	AB	4.4	AB	WL	6.1	6.5	5.3	6.9	6.1	WL	AB	AB	4.9	4.8
	05-Apr-05	5.1	NS	AB	WL	AB	WL	6.3	6.7	5.2	7.0	6.1	WL	AB	AB	5.1	WL
	27-Oct-05	4.9	6.6	AB	WL	AB	WL	6	6.5	5.1	6.9	6.2	WL	AB	AB	5.1	WL
	21-Apr-06	5.0	6.3	AB	WL	AB	WL	6.2	7.0	5.4	7.9	6.0	WL	AB	AB	5.0	WL
	12-Oct-06	5.0	6.1	AB	WL	AB	WL	6.2	6.6	5.1	6.8	6.1	WL	AB	AB	5.2	WL
	26-Apr-07	4.9	6.1	AB	WL	AB	WL	6.2	6.7	5.4	6.9	6.1	WL	AB	AB	5.0	WL
	10-Oct-07	5.2	6.2	AB	WL	AB	WL	6.2	6.8	5.8	7.0	6.4	WL	AB	AB	5.3	WL
Resample	04-Dec-07	6.60	6.29	AB	WL	AB	WL	7.08	6.60	6.64	7.39	6.26	WL	AB	AB	6.61	WL
	08-Apr-08	4.9	6.7	AB	WL	AB	WL	5.6	6.8	5.2	6.8	6.0	WL	AB	AB	5.0	WL
	28-Oct-08	4.7	6.3	AB	WL	AB	WL	6.0	6.5	5.3	6.9	6.3	WL	AB	AB	5.2	WL
	08-Apr-09	4.9	6.0	AB	WL	AB	WL	5.5	6.4	4.9	6.7	8.5	WL	AB	AB	5.1	WL
	27-Oct-09	4.8	6.2	AB	WL	AB	WL	5.8	6.3	5.3	6.8	6.0	WL	AB	AB	4.9	WL
	08-Apr-10	4.7	6.3	AB	WL	AB	WL	5.6	6.5	4.8	6.9	6.1	WL	AB	AB	5.0	WL
	13-Oct-10	5.2	6.3	AB	WL	AB	WL	5.8	6.5	5.3	6.7	6.1	WL	AB	AB	5.1	WL
	27-Apr-11	4.9	6.3	AB	WL	AB	WL	5.6	6.6	5.0	6.7	6.0	WL	AB	AB	4.9	WL
Temperature	Jun-93	22	20	23	NI	20	NI	23	22	23	21	23	21	22	21	NI	NI
[°C]	Aug-93	23	20	22	NI	21	NI	22	22	23	20	24	21	23	20	NI	NI
	Sep-93	23	20	24	NI	20	NI	25	20	24	20	25	20	24	21	NI	NI
	Sep-93	23	21	24	NI	21	NI	24	21	23	20	24	22	24	21	NI	NI
	Apr-94	18	18	17	NI	17	NI	16	16	15	16	16	16	15	15	NI	NI
	Oct-94	21	18	21	NI	20	NI	21	19	21	19	21	20	21	20	NI	NI
	Apr-95	15	15	15	NI	17	NI	16	16	16	16	16	16	15	16	NI	NI
	Oct-95	22	20	22	NI	20	NI	22	20	22	22	22	21	22	20	NI	NI
	Apr-96	12	13	13	NI	14	NI	13	13	13	13	13	14	12	12	NI	NI
	Oct-96	20	NS	NA	NI	AB	NI	22	22	22	22	22	WL	22	AB	NI	NI
	Apr-97	13	NS	14	NI	AB	NI	15	14	15	15	14	WL	NA	AB	NI	NI
	Oct-97	18	NS	21	NI	AB	NI	17	19	19	18	20	WL	NA	AB	NI	NI
	Apr-98	15	NS	16	NI	AB	NI	15	16	15	17	15	WL	15	AB	NI	NI
	Oct-98	19	NS	21	NI	AB	NI	21	19	21	20	21	WL	AB	AB	NI	NI
	Mar-99	12	NS	16	NI	AB	NI	17	17	17	18	17	WL	AB	AB	NI	NI
	Oct-99	21	NS	AB	NI	AB	NI	20	20	21	21	21	WL	AB	AB	NI	NI
	Apr-00	15	NS	AB	NI	AB	NI	15	17	19	18	15	WL	AB	AB	NI	NI
	Oct-00	18	NS	AB	NI	AB	NI	18	20	21	20	16	WL	AB	AB	NI	NI
	Apr-01	15	NS	AB	15	AB	WL	18	17	16	15	15	WL	AB	AB	NS	NS
	Oct-01	19	NS	AB	20	AB	WL	20	20	21	21	21	WL	AB	AB	NS	NS
	Apr-02	15	NS	AB	16	AB	WL	15	15	16	17	17	WL	AB	AB	17	16
	Oct-02	24	NS	AB	26	AB	WL	23	22	24	23	24	WL	AB	AB	25	25
	Apr-03	15	NS	AB	17	AB	WL	16	16	15	16	17	WL	AB	AB	16	16
	Oct-03	20	NS	AB	21	AB	WL	21	20	21	22	21	WL	AB	AB	21	21
	15-Apr-04	13	NS	AB	14	AB	WL	13	13	14	14	15	WL	AB	AB	13	13
	14-Oct-04	20	NS	AB	21	AB	WL	21	21	22	22	22	WL	AB	AB	21	21
	05-Apr-05	15	NS	AB	WL	AB	WL	15	15	15	15	15	WL	AB	AB	15	WL
	27-Oct-05	20	17	AB	WL	AB	WL	22	22	23	23	23	WL	AB	AB	21	WL
	21-Apr-06	20	18	AB	WL	AB	WL	14	16	15	15	18	WL	AB	AB	18	WL
	12-Oct-06	20	18	AB	WL	AB	WL	22	19	23	21	23	WL	AB	AB	21	WL
	26-Apr-07	16	17	AB	WL	AB	WL	17	18	16	18	17	WL	AB	AB	17	WL
	10-Oct-07	19	18	AB	WL	AB	WL	22	19	23	20	24	WL	AB	AB	20	WL
Resample	04-Dec-07	16.7	16.7	AB	WL	AB	WL	18.2	16.8	18.6	18.8	18.7	WL	AB	AB	16.9	WL
	02-Apr-08	15	17	AB	WL	AB	WL	17	17	16	19	16	WL	AB	AB	16	WL
	28-Oct-08	19	19	AB	WL	AB	WL	20	20	21	21	19	WL	AB	AB	19	WL
	08-Apr-09	14	16	AB	WL	AB	WL	14	16	15	16	15	WL	AB	AB	14	WL
	27-Oct-09	20	19	AB	WL	AB	WL	21	20	21	21	22	WL	AB	AB	21	WL
	08-Apr-10	17	17	AB	WL	AB	WL	15	16	15	17	16	WL	AB	AB	16	WL
	13-Oct-10	21	20	AB	WL	AB	WL	21	20	22	21	23	WL	AB	AB	22	WL
	27-Apr-11	17	16	AB	WL	AB	WL	16	17	17	18	17	WL	AB	AB	17	WL
Turbidity	Jun-93	NA	NA	NA	NI	NA	NI	NA	NA	NA	NA	NA	NA	NA	NA	NI	NI
[NTU]	Aug-93	NA	NA	NA	NI	NA	NI	NA	NA	NA	NA	NA	NA	NA	NA	NI	NI
	Sep-93	NA	NA	NA	NI	NA	NI	NA	NA	NA	NA	NA	NA	NA	NA	NI	NI
	Sep-93	NA	NA	NA	NI	NA	NI	NA	NA	NA	NA	NA	NA	NA	NA	NI	NI
	Apr-94	NA	NA	NA	NI	NA	NI	NA	NA	NA	NA	NA	NA	NA	NA	NI	NI
	Oct-94	NA	NA	NA	NI	NA	NI	NA	NA	NA	NA	NA	NA	NA	NA	NI	NI
	Apr-95	NA	NA	NA	NI	NA	NI	NA	NA	NA	NA	NA	NA	NA	NA	NI	NI
	Oct-95	NA	NA	NA	NI	NA	NI	NA	NA	NA	NA	NA	NA	NA	NA	NI	NI
	Apr-96	NA	NA	NA	NI	NA	NI	NA	NA	NA	NA	NA	NA	NA	NA	NI	NI
	Oct-96	NA	NS	NA	NI	AB	NI	NA	NA	NA	NA	NA	WL	NA	AB	NI	NI
	Apr-97	NA	NS	NA	NI	AB	NI	NA	NA	NA	NA	NA	WL	NA	AB	NI	NI
	Oct-97	NA	NS	NA	NI	AB	NI	NA	NA	NA	NA	NA	WL	NA	AB	NI	NI
	Apr-98	NA	NS	NA	NI	AB	NI	NA	NA	NA	NA	NA	WL	NA	AB	NI	NI
	Oct-98	NA	NS	130	NI	AB	NI	60	180	220	190	650	WL	AB	AB	NI	NI
	Mar-99	650	NS	290	NI	AB	NI	85	180	180	270	95	WL	AB	AB	NI	NI
	Oct-99	600	NS	AB	NI	AB	NI	10	23	17	17	5.9	WL	AB	AB	NI	NI
	Apr-00	170	NS	AB	NI	AB	NI	18	40	33	40	13	WL	AB	AB	NI	NI
	Oct-00	700	NS	AB	NI	AB	NI	31	90	7.1	34	21	WL	AB	AB	NI	NI
	Apr-01	140	NS	AB	50	AB	WL	21	60	12	27	10	WL	AB	AB	NS	NS
	Oct-01	106	NS	AB	68	AB	WL	74	139	34	18	26	WL	AB	AB	NS	NS
	Apr-02	90	NS	AB	12	AB	WL	40	35	5.3	25	19	WL	AB	AB	140	5.9
	Oct-02	280	NS	AB	19	AB	WL	45	100	9.2	38	100	WL	AB	AB	75	4.0
	Apr-03	90	NS	AB	6.9	AB	WL	45	110	9.4	39	27	WL	AB	AB	110	8.8
	Oct-03	65	NS	AB	13	AB	WL	31	30	19	60	55	WL	AB	AB	160	40
	15-Apr-04	200	NS	AB	100	AB	WL	45	35	37	32	36	WL	AB	AB	110	13
	14-Oct-04	75	NS	AB	13	AB	WL	85	80	8.9	240	80	WL	AB	AB	95	5.9
	05-Apr-05	100	NS	AB	WL	AB	WL	40	18	13	25	32	WL	AB	AB	75	WL
	27-Oct-05	90	>1,000	AB	WL	AB	WL	22	29	14	36	19	WL	AB	AB	85	WL
	21-Apr-06	8.9	14	AB	WL	AB	WL	5.5	32	7.3	53	25	WL	AB	AB	4.1	WL
	12-Oct-06	5.1	40	AB	WL	AB	WL	21	140	1.6	37	170	WL	AB	AB	20	WL
	26-Apr-07	7.0	4.0	AB	WL	AB	WL	22	160	200	200	90	WL	AB	AB	25	WL
	10-Oct-07	11	10	AB	WL	AB	WL	58	65	12	45	110	WL	AB	AB	22	WL
Resample	04-Dec-07	79.4	14.97	AB	WL	AB	WL	15.00	525	47.5	64.6	9.42	WL	AB	AB	73.3	WL
	02-Apr-08	40	9.5	AB	WL	AB	WL	3.5	28	7.7	55	11	WL	AB	AB	20	WL
	28-Oct-08	80	50	AB	WL	AB	WL	36	37	36	40	38	WL	AB	AB	86	WL
	08-Apr-09	130	56	AB	WL	AB	WL	90	260	120	38	32	WL	AB	AB	90	WL
	27-Oct-09	270	55	AB	WL	AB	WL	85	85	23	70	62	WL	AB	AB	65	WL
	08-Apr-10	160	39	AB	WL	AB	WL	75	65	18	40	75	WL	AB	AB	65	WL
	13-Oct-10	10	85	AB	WL	AB	WL	34	75	35	50	170	WL	AB	AB	140	WL
	27-Apr-11	16	29	AB	WL	AB	WL	44	110	31	70	65	WL	AB	AB	50	WL

Notes:
1. NA = Data not available.
2. NI = Well/Piezometer not installed.
3. AB = Abandoned.
4. NS = Not sampled and/or no water level measurements taken.
5. WL = May be monitored for water levels only.

TABLE 8
SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS
TUSCARORA LONG-TERM REGIONAL LANDFILL

Constituent	Date	Concentrations (µg/L)																												
		DL	RL	Background				Downgradient																						Blanks
				MW-12S		MW-12D		MW-7		MW-8		MW-9		MW-10		MW-11S		MW-11D		MW-13S		MW-13D		MW-14		MW-14R			
Antimony	Jul-99	NR	30	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI				ND
	Aug-99	NR	30	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI				ND
	Oct-99	NR	30	NI		NI		ND		ND		40		ND		ND		ND		NI		NI		NI		NI				ND
	Nov-99	NR	30	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI				ND
	Apr-00	NR	30	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI				ND
	Oct-00	NR	30	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI				ND
	Apr-01	NR	30	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI				ND
	Oct-01	NR	30	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI				ND
	Apr-02	NR	30	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI				ND
	Oct-02	NR	30	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI				ND
	Apr-03	NR	30	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI				ND
	Oct-03	NR	30	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS		NS		NI				ND
	15-Apr-04	NR	30	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NI				ND
	14-Oct-04	NR	30	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI				ND
	05-Apr-05	NR	30	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI				ND
	27-Oct-05	NR	30	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI				ND
	21-Apr-06	NR	30	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI				ND
	12-Oct-06	NR	30	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI				ND
	26-Apr-07	NR	6.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI				ND
	11-Oct-07	0.05	6.0	ND		ND		0.1	B	ND		AB		ND		ND		ND		ND		ND		AB		0.1	B	0.1	J
GWPS = 1.4 µg/L (10/23/07)	03-Apr-08	0.44	6.0	ND		0.5	J	0.1	J	ND		AB		ND		ND		0.5	J	0.1	J	ND		AB		ND		ND		
	28-Oct-08	0.44	6.0	0.1	J	ND		0.9	J	0.2	J	AB		0.1	J	ND		ND		ND		ND		AB		ND		ND		
	08-Apr-09	0.06	6.0	0.1	J	0.2	J	0.1	J	ND		AB		ND		ND		ND		0.9	J	0.2	J	AB		0.1	J	ND		
	27-Oct-09	0.06	6.0	0.1	J	0.6	J	ND		ND		AB		ND		ND		ND		0.8	J	0.6	J	AB		0.1	J	ND		
	08-Apr-10	0.22	6.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		0.8	B	0.7	J
GWPS = 1 µg/L (8/1/10)	13-Oct-10	0.22	6.0	ND		ND		ND		ND		AB		0.5	J	ND		ND		ND		ND		AB		ND		ND		
	27-Apr-11	0.14	6.0	ND		ND		ND		0.37	J	AB		0.22	J	0.17	J	ND		ND		ND		AB		ND		ND		
Arsenic	Jul-99	NR	10	NI		NI		37		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Aug-99	NR	10	NI		NI		13		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Oct-99	NR	10	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Nov-99	NR	10	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Apr-00	NR	10	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Oct-00	NR	10	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Apr-01	NR	10	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Oct-01	NR	10	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Apr-02	NR	10	ND		ND		10		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Oct-02	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Apr-03	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Oct-03	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS		NS		NI		ND		
	15-Apr-04	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NI		ND		
	14-Oct-04	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND		
	05-Apr-05	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND		
	27-Oct-05	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND		
	21-Apr-06	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND		
	12-Oct-06	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI		ND		
	26-Apr-07	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI		ND		
	11-Oct-07	0.47	10.0	6.6	J	ND		3.5	J	4.3	J	AB		1.8	J	0.5	J	ND		9.4	J	ND		AB		1.0	J	ND		
NC 2L = 50 µg/L (10/23/07)	03-Apr-08	0.57	10.0	1.4	J	ND		1.0	B	1.3	J	AB		4.1	J	0.2	B	ND		1.3	J	ND		AB		0.2	B	0.2	J
	28-Oct-08	0.57	10.0	1	B	0.8	B	2.4	B	5.3	J	AB		3.1	J	0.4	B	0.2	B	1.3	B	0.5	B	AB		0.7	B	0.5	J
	08-Apr-09	0.17	10.0	1.2	J	0.8	B	1.2	J	3.9	J	AB		3.5	J	0.6	B	0.3	B	1.6	J	0.4	B	AB		0.4	B	0.2	J
	27-Oct-09	0.17	10.0	1	J	0.8	J	1.7	J	5.0	J	AB		2.3	J	0.4	J	0.2	J	1.2	J	0.7	J	AB		0.8	J	ND		
NC 2L = 10 µg/L (1/1/10)	08-Apr-10	0.04	10.0	0.4	J	ND		0.7	J	2.5	J	AB		2.9	J	ND		ND		1.9	J	ND		AB		0.2	J	ND		
	13-Oct-10	0.04	10.0	0.9	J	1	J	1	J	2.3	J	AB		3.4	J	0.3	J	0.4	J	1.8	J	0.7	J	AB		1.2	J	ND		
	27-Apr-11	0.10	10.0	0.28	J	ND		2.9	J	1.5	J	AB		2.4	J	0.26	J	ND		0.86	J	ND		AB		0.20	J	ND		
Barium	Jul-99	NR	500	NI		NI		869		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Aug-99	NR	500	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Oct-99	NR	500	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Nov-99	NR	500	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Apr-00	NR	500	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Oct-00	NR	500	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Apr-01	NR	500	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Oct-01	NR	500	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Apr-02	NR	500	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Oct-02	NR	500	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Apr-03	NR	500	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Oct-03	NR	500	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS		NS		NI		ND		
	15-Apr-04	NR	500	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NI		ND		
	14-Oct-04	NR	500	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND		
	05-Apr-05	NR	500	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND		
	27-Oct-05	NR	500	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND		
	21-Apr-06	NR	500	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND		
	12-Oct-06	NR	500	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI		ND		
	26-Apr-07	NR	100	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI		ND		
	11-Oct-07	0.04	100.0	81.8	J	47.4	J	63.3	J	32.7	J	AB		44.8	J	45.7	J	40.7	J	42.2	J	46.4	J	AB		42.8	J	0.2	J
NC 2L = 2,000 µg/L (10/23/07)	03-Apr-08	0.11	100.0	88.6	J	36.7	J	67.3	J	43.6	J	AB		40.1	J	45.8	J	44	J	43.0	J	35.0	J	AB		44.9	J	0.4	J
	28-Oct-08	0.11	100.0	85.2	J	30.9	J	115		80.3	J	AB		55.1	J	111		37.9	J	51.1	J	37.9	J	AB		50.7	J	0.7	J
	08-Apr-09	0.04	100.0	109		33.6	J	61.0	J	82.8	J	AB		66.5	J	52.4	J	42.8	J	59.4	J	50.4	J	AB		99.7	J	0.2	J
	27-Oct-09	0.04	100.0	66.5	J	27.3	J	93.0	J	94.1	J	AB		77.7	J	65.4	J	35.9	J	54.9	J	44.8	J	AB		112		0.1	J
NC 2L = 700 µg/L (1/1/10)	08-Apr-10	0.03	100.0	82.1	J	26.8	J	46.4	J	79.9	J	AB		53.9	J	35.2	J	39.2	J	45.5	J	45.4	J	AB		132		0.1	J
	13-Oct-10	0.03	100.0	54.4	J	26.7	J	42.2	J	94.1	J	AB		65.7	J	36.2	J	45.1	J	70.5	J	43.7	J	AB		197		0.2	J
	27-Apr-11	0.02	100.0	64.9	J	26.1	J	52.1	J	86.4	J	AB		55.5	J	33.7	J	38.6	J	56.9	J	44.4	J	AB		128		0.10	J
Beryllium	Jul-99	NR	2	NI		NI		5		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Aug-99	NR	2	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Oct-99	NR	2	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Nov-99	NR	2	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Apr-00	NR	2	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Oct-00	NR	2	NI		NI		ND		ND		6		ND		ND		ND		NI		NI		NI		NI		ND		
	Apr-01	NR	2	NI		NI		ND		ND		5		ND		ND		ND		NI		NI		NI		NI		ND		
	Oct-01	NR	2	NI		NI		ND		2		9		ND		ND		ND		NI		NI		NI		NI		ND		
	Apr-02	NR	2	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Oct-02	NR	2	ND		ND		ND		ND		3		ND		ND		ND		NI		NI		NI		NI		ND		
	Apr-03	NR	2	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Oct-03	NR	2	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS		NS		NI		ND		
	15-Apr-04	NR	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NI		ND		
	14-Oct-04	NR	2	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND		
	05-Apr-05	NR	2	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND		
	27-Oct-05	NR	2	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND		
	21-Apr-06	NR	2	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND		
	12-Oct-06	NR	2	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI		ND		
	26-Apr-07	NR	1.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI		ND		
	11-Oct-07	0.08	1.0	0.1	J	ND		0.2	J	0.2	J	AB		0.2	J	0.1	J	0.1	J	0.1	J	ND		AB		0.1	J	ND		
GWPS = 4 µg/L (10/23/07)	03-Apr-08	0.06	1.0	0.3	J	ND		ND		0.3	J	AB		0.2	J	1.5		0.1	J	0.3	J	ND		AB		0.2	J	ND		
	28-Oct-08	0.06	1.0	0.9	J	0.1	J	0.4	J	0.8	J	AB		0.3	J	1.2	J	0.1	J	0.4	J	ND		AB		0.3	J	ND		
	08-Apr-09	0.06	1.0	0.6	J	0.1	J	0.1	J	0.7	J	AB		0.3	J	2		0.1	J	0.4	J	0.1	J	AB		0.4	J	ND		
	27-Oct-09	0.06	1.0	0.5	J	0.1	J	0.4	J	0.9	J	AB		0.4	J	3		0.1	J	0.4	J	0.1	J	AB		0.7	J	ND		
	08-Apr-10	0.02	1.0	0.6	J	0.1	B	0.2	B	0.6	J	AB		0.3	B	2		0.1	B	0.3	B	0.1	B	AB		0.7	J	0.1	J
GWPS = 4 µg/L (10/1/10)	13-Oct-10	0.02	1.0	0.5	J	0.1	J	0.1	J	0.7	J	AB		0.4	J	3		0.1	J	0.3	J	0.1	J	AB		1.2		ND		
	27-Apr-11	0.02	1.0	0.36	J	ND		0.11	J	0.47	J	AB		0.31	J	3		ND		0.25	J	ND		AB		1		ND		
Cadmium	Jul-99	NR	1	NI		NI		1		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Aug-99	NR	1	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Oct-99	NR	1	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Nov-99	NR	1	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Apr-00	NR	1	NI		NI		ND		ND		ND		1		ND		ND		NI		NI		NI		NI		ND		
	Oct-00	NR	1	NI		NI		ND		ND		2		ND		ND		ND		NI		NI		NI		NI		ND		
	Apr-01	NR	1	NI		NI		ND		ND		3		ND		ND		ND		NI		NI		NI		NI		ND		
	Oct-01	NR	1	NI		NI		ND		ND		2		ND		ND		ND		NI		NI		NI		NI		ND		
	Apr-02	NR	1	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Oct-02	NR	1	ND		ND		1		ND		2		ND		ND		ND		NI		NI		NI		NI		ND		
	Apr-03	NR	1	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND		
	Oct-03	NR	1	ND		ND		ND		ND		ND		1		ND		ND		NS		NS		NS		NI		ND		
	15-Apr-04	NR	1	ND		2		ND		ND		ND		3		3		ND		ND		ND		ND		NI		ND		
	14-Oct-04	NR	1	ND		ND		ND		ND		AB		ND		ND		ND		ND		1		ND		NI		ND		
	05-Apr-05	NR	1	ND		ND		1		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND		
	27-Oct-05	NR	1	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND		
	21-Apr-06	NR	1	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND		
	12-Oct-06	NR	1	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI		ND		
	26-Apr-07	NR	1.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI		ND		
	11-Oct-07	0.06	1.0	0.2	B	0.1	B	0.6	J	0.1	B	AB		0.1	B	0.5	B	0.1	B	0.1	B	0.1	B	AB		0.9	J	0.1	J
NC 2L = 1.75 µg/L (10/23/07)	03-Apr-08	0.05	1.0	0.4	J	0.1	J	0.2	J	0.1	J	AB		0.2	J	0.2	J	0.3	J	0.1	J	ND		AB		0.1	J	ND		
	28-Oct-08	0.05	1.0	0.2	J	0.2	J	0.3	J	0.2	J	AB		0.1	J	0.3	J	0.2	J	0.5	J	0.1	J	AB		0.2	J	ND		
	08-Apr-09	0.04	1.0	0.2	J	0.2	J	0.3	J	0.3	J	AB		0.2	J	0.7	J	0.5	J	0.3	J	0.2	J	AB		0.2	J	ND		
	27-Oct-09	0.04	1.0	0.4	J	0.2	J	0.2	J	0.1	J	AB		0.2	J	0.4	J	0.1	J	0.2	J	0.1	J	AB		1.5		ND		
NC 2L = 2 µg/L (1/1/10)	08-Apr-10	0.02	1.0	0.9	J	0.1	B	0.3	B	2		AB		0.1	B	0.7	J	0.2	B	9		0.1	B	AB		0.7	J	0.1	J
Resample	01-Jun-10	0.02	1.0	NS		NS		NS		NS		AB		NS		NS		NS		1.6		NS		NS		NS		NS		
	13-Oct-10	0.02	1.0	1		0.2	J	0.1	J	0.6	J	AB		0.8	J	1		0.2	J	1.6		0.1	J	AB		1		ND		
	27-Apr-11	0.02	1.0	0.20	J	0.09	J	0.21	J	0.11	J	AB		0.31	J	0.52	J	0.06	J	0.14	J	0.08	J	AB		0.31	J	ND		

TABLE 8
SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS
TUSCARORA LONG-TERM REGIONAL LANDFILL

Constituent	Date	Concentrations (µg/L)																												
		DL	RL	Background				Downgradient																						Blanks
				MW-12S		MW-12D		MW-7		MW-8		MW-9		MW-10		MW-11S		MW-11D		MW-13S		MW-13D		MW-14		MW-14R		
Chromium	Jul-99	NR	10	NI		NI		112		35		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Aug-99	NR	10	NI		NI		29		38		10		ND		23		ND		NI		NI		NI		NI		ND	
	Oct-99	NR	1	NI		NI		14		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Nov-99	NR	10	NI		NI		22		36		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-00	NR	10	NI		NI		11		43		37		ND		24		ND		NI		NI		NI		NI		ND	
	Oct-00	NR	10	NI		NI		16		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-01	NR	10	NI		NI		11		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-01	NR	10	NI		NI		38		65		ND		ND		39		ND		NI		NI		NI		NI		ND	
	Apr-02	NR	10	ND		ND		43		12		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-02	NR	10	ND		ND		15		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-03	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-03	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS		NS		NI		ND	
	15-Apr-04	NR	10	ND		ND		18		ND		ND		ND		ND		ND		17		ND		ND		NI		ND	
	14-Oct-04	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	05-Apr-05	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	27-Oct-05	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	21-Apr-06	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	12-Oct-06	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI		ND	
	11-Oct-07	0.24	10.0	ND		ND		4.8	B	1.1	B	AB		0.3	B	ND		ND		0.5	B	ND		AB		ND		1.2	J
NC 2L = 50 µg/L (10/23/07)	03-Apr-08	0.11	10.0	ND		ND		0.4	J	1.0	J	AB		0.4	J	0.5	J	ND		0.3	J	ND		AB		ND		ND	
	28-Oct-08	0.11	10.0	ND		0.7	J	7.9	J	9.5	J	AB		0.9	J	0.7	J	ND		0.9	J	0.4	J	AB		3.1	J	ND	
	08-Apr-09	0.10	10.0	0.5	J	0.9	J	3.3	J	8.3	J	AB		3.1	J	1.4	J	ND		1.2	J	0.6	J	AB		1.3	J	ND	
	27-Oct-09	0.10	10.0	ND		1.1	J	8.2	J	9.8	J	AB		2.5	J	1.9	J	ND		1.1	J	0.6	J	AB		1.8	J	ND	
NC 2L = 10 µg/L (1/1/10)	08-Apr-10	0.03	10.0	ND		0.3	J	3.7	J	3.9	J	AB		1.9	J	0.6	J	ND		1.1	J	ND		AB		1.2	J	ND	
	13-Oct-10	0.03	10.0	0.2	J	0.7	J	2.3	J	3.8	J	AB		2.2	J	0.9	J	0.1	J	0.5	J	ND		AB		2.3	J	ND	
	27-Apr-11	0.04	10.0	0.43	B	0.78	B	3.3	J	3.2	J	AB		2.2	J	2.0	J	ND		1.1	J	0.51	B	AB		1.5	J	0.18	J
Cobalt	Jul-99	NR	10	NI		NI		13		24		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Aug-99	NR	10	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-99	NR	10	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Nov-99	NR	10	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-00	NR	10	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-00	NR	10	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-01	NR	10	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-01	NR	10	NI		NI		ND		ND		12		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-02	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-02	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-03	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-03	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS		NS		NI		ND	
	15-Apr-04	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NI		ND	
	14-Oct-04	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	05-Apr-05	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	27-Oct-05	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	21-Apr-06	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	12-Oct-06	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI		ND	
	11-Oct-07	0.41	10.0	1.4	J	ND		0.7	J	ND		AB		ND		1.0	J	ND		ND		ND		AB		2.7	J	ND	
GWPS = 70 µg/L (10/23/07)	03-Apr-08	0.03	10.0	4.6	J	0.1	J	1.8	J	0.4	J	AB		0.7	J	3.1	J	0.1	J	0.3	J	0.1	J	AB		0.9	J	ND	
	28-Oct-08	0.03	10.0	2.8	J	0.2	J	0.8	J	1	J	AB		0.5	J	2.8	J	0.1	J	0.4	J	0.2	J	AB		0.7	J	ND	
	08-Apr-09	0.02	10.0	2.3	J	0.2	J	0.6	J	1.1	J	AB		1.1	J	6.1	J	0.1	J	0.5	J	0.2	J	AB		1.2	J	ND	
	27-Oct-09	0.02	10.0	1.6	J	0.2	J	0.7	J	1.0	J	AB		0.6	J	5.9	J	0.2	J	0.5	J	0.3	J	AB		1.2	J	ND	
	08-Apr-10	0.10	10.0	1.8	J	0.2	J	0.5	J	0.7	J	AB		1.2	J	4.4	J	ND		0.5	J	0.2	J	AB		1.5	J	ND	
GWPS = 1 µg/L (10/1/10)	13-Oct-10	0.10	10.0	1.5	J	0.2	J	0.3	J	0.9	J	AB		0.9	J	3.1	J	0.2	J	0.5	J	0.2	J	AB		1.5	J	ND	
	27-Apr-11	0.03	10.0	1.3	J	0.14	J	0.56	J	0.69	J	AB		0.93	J	4.7	J	0.08	J	0.45	J	0.14	J	AB		1.5	J	ND	
Copper	Jul-99	NR	200	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Aug-99	NR	10	NI		NI		10		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-99	NR	200	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Nov-99	NR	200	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-00	NR	200	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-00	NR	200	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-01	NR	200	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-01	NR	200	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-02	NR	200	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-02	NR	200	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-03	NR	200	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-03	NR	200	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS		NS		NI		ND	
	15-Apr-04	NR	200	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NI		ND	
	14-Oct-04	NR	200	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	05-Apr-05	NR	200	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	27-Oct-05	NR	200	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	21-Apr-06	NR	200	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	12-Oct-06	NR	200	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI		ND	
	11-Oct-07	0.20	10.0	0.9	B	ND		1.2	B	0.5	B	AB		0.3	B	0.4	B	0.2	B	0.6	B	0.2	B	AB		3.3	J	0.4	J
NC 2L = 1,000 µg/L (10/23/07)	03-Apr-08	0.05	10.0	0.7	B	0.3	B	0.8	B	0.6	B	AB		0.7	B	0.6	B	0.3	B	0.6	B	0.1	B	AB		1.2	J	0.2	J
	28-Oct-08	0.05	10.0	1.1	B	0.8	B	2.1	B	1.7	B	AB		0.9	B	0.8	B	0.3	B	1.5	B	0.9	B	AB		2.8	B	1.1	J
	08-Apr-09	0.04	10.0	2	J	0.9	J	1.5	J	1.5	J	AB		1.6	J	1.0	J	0.4	B	1.1	J	0.7	J	AB		1.9	J	0.1	J
	27-Oct-09	0.04	10.0	1.2	J	3.4	J	3.1	J	1.5	J	AB		1.4	J	0.9	J	0.6	J	1.4	J	0.8	J	AB		3.4	J	0.1	J
	08-Apr-10	0.03	10.0	1.2	J	0.7	B	1.2	J	1.5	J	AB		1.4	J	1.1	J	0.8	B	4.5	J	0.7	B	AB		1.3	J	0.2	J
	13-Oct-10	0.03	10.0	1.6	J	1	B	0.9	B	1	B	AB		1.7	J	0.8	B	0.4	B	2.1	J	0.7	B	AB		2.4	J	0.2	J
	27-Apr-11	0.02	10.0	1.2	B	0.77	B	1.5	B	1.0	B	AB		1.7	B	0.98	B	0.72	B	1.3	B	0.93	B	AB		1.4	B	0.66	J
Lead	Jul-99	NR	10	NI		NI		129		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Aug-99	NR	10	NI		NI		18		14		ND		ND		17		ND		NI		NI		NI		NI		ND	
	Oct-99	NR	10	NI		NI		12		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Nov-99	NR	10	NI		NI		ND		14		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-00	NR	10	NI		NI		ND		17		14		ND		15		ND		NI		NI		NI		NI		ND	
	Oct-00	NR	10	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-01	NR	10	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-01	NR	10	NI		NI		16		19		ND		ND		18		ND		NI		NI		NI		NI		ND	
	Apr-02	NR	10	ND		ND		21		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-02	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-03	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-03	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS		NS		NI		ND	
	15-Apr-04	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		10		ND		ND		NI		ND	
	14-Oct-04	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	05-Apr-05	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	27-Oct-05	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	21-Apr-06	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	12-Oct-06	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI		ND	
	11-Oct-07	0.07	10.0	0.2	B	ND		3.0	J	1.6	J	AB		0.3	B	0.1	B	ND		1.1	J	0.1	B	AB		0.3	B	0.1	J
NC 2L = 15 µg/L (10/23/07)	03-Apr-08	0.32	10.0	0.1	B	0.1	B	0.5	B	1.4	J	AB		0.9	J	1.4	J	0.1	B	0.5	B	ND		AB		0.3	B	0.1	J
	28-Oct-08	0.32	10.0	0.3	B	0.4	B	7.2	J	8	J	AB		1.3	J	1.1	J	0.1	B	0.8	J	0.5	B	AB		2.5	J	0.1	J
	08-Apr-09	0.04	10.0	0.6	J	0.2	B	2.3	J	6.6	J	AB		2.7	J	1.9	J	0.1	B	0.9	J	0.4	B	AB		1	J	0.1	J
	27-Oct-09	0.04	10.0	0.1	J	0.3	J	6.7	J	7.8	J	AB		2.4	J	2.3	J	0.1	J	0.8	J	0.4	J	AB		1.9	J	ND	
	08-Apr-10	0.01	10.0	0.4	B	0.3	B	3.1	J	4.1	J	AB		2.6	J	2.2	J	0.1	B	1.6	J	0.3	B	AB		1.3	J	0.1	J
	13-Oct-10	0.01	10.0	0.4	B	0.3	B	1.4	J	3.8	J	AB		2.3	J	2.3	J	0.2	B	0.6	J	0.2	B	AB		2.6	J	0.1	J
	27-Apr-11	0.02	10.0	0.27	J	0.21	J	2.0	J	2.5	J	AB		2.0	J	2.8	J	0.12	J	0.57	J	0.31	J	AB		1.2	J	ND	
Nickel	11-Oct-07	0.66	50.0	2.0	J	1.6	J	2.3	J	ND		AB		0.7	J	1.8	J	1.8	J	0.8	J	1.2	J	AB		3.6	J	ND	
NC 2L = 100 µg/L (10/23/07)	03-Apr-08	0.06	50.0	4.3	J	2.0	J	4.0	J	0.8	B	AB		1.4	B	4.8	J	2.4	J	0.7	B	1.6	J	AB		1.4	B	0.3	J
	28-Oct-08	0.06	50.0	3.5	J	2.7	J	4	J	2.2	J	AB		1	B	4.9	J	2	J	1.1	J	2.0	J	AB		1.6	J	0.2	J
	08-Apr-09	0.04	50.0	2.9	J	2	J	2.5	J	1.6	J	AB		1.5	J	8.5	J	1.2	J	1.1	J	1.9	J	AB		2.2	J	ND	
	27-Oct-09	0.04	50.0	1.9	J	1.8	J	2.5	J	1.9	J	AB		1.3	J	8.7	J	1.1	J	0.5	B	1.3	J	AB		2.1	J	0.2	J
	08-Apr-10	0.05	50.0	2.8	J	1.4	J	2.1	J	1.4	J	AB		1.8	J	7	J	1	J	1	J	1.6	J	AB		2.4	J	ND	
	13-Oct-10	0.05	50.0	2	J	2.6	J	2.9	J	1.5	J	AB		2	J	6.1	J	2.5	J	1.3	J	2.1	J	AB		3.2	J	0.1	J
	27-Apr-11	0.04	50.0	1.9	J	1.2	B	2.2	J	1.3	B	AB		1.9	J	8.1	J	1.1	B	1.0	B	1.0	B	AB		3.1	J	0.30	J
Selenium	11-Oct-07	0.35	10.0	2.6	B	ND		1.4	B	ND		AB		0.4	B	0.8	B	ND		ND		ND		AB		ND		0.9	J
NC 2L = 50 µg/L (10/23/07)	03-Apr-08	0.51	10.0	3.1	B	ND		0.7	B	0.2	B	AB		0.7	B	0.3	B	ND		0.3	B	ND		AB		0.2	B	1.5	J
	28-Oct-08	0.51	10.0	3.1	B	ND		0.9	B	0.3	B	AB		0.7	B	0.5	B	ND		0.6	B	ND		AB		0.6	B	1.9	J
	08-Apr-09	0.12	10.0	2.4	J	0.7	J	ND		0.2	J	AB		0.3	J	0.5	J	ND		0.5	J	ND		AB		0.9	J	ND	
	27-Oct-09	0.12	10.0	3	J	0.7	J	0.5	J	0.2	J	AB		0.3	J	0.4	J	ND		0.8	J	0.2	J	AB		1.6	J	ND	
NC 2L = 20 µg/L (1/1/10)	08-Apr-10	0.32	10.0	1.6	J	ND		ND		ND		AB		0.3	J	ND		ND		1.4	J	ND		AB		1.6	J	ND	
	13-Oct-10	0.32	10.0	2	J	2	J	0.7	J	ND		AB		1.2	J	0.5	J	ND		2.2	J	1.1	J	AB		2.9	J	ND	
	27-Apr-11	0.20	10.0	0.83	J	ND		0.28	J	ND		AB		0.43	J	0.92	J	ND		0.35	J	ND		AB		1.1	J	ND	
Silver	03-Apr-08	0.04	10.0	ND		0.1	J	ND		0.1	J	AB		ND		ND		0.1	J	ND		ND		AB		ND		ND	
NC 2L = 17.5 µg/L (10/23/07)	28-Oct-08	0.04	10.0	0.1	B	ND		0.1	B	0.1	B	AB		ND		ND		ND		0.1	B	0.1	B	AB		ND		0.1	J
	08-Apr-09	0.04	10.0	0.1	J	ND		0.1	J	ND		AB		ND		ND		ND		0.1	J	ND		AB		ND		ND	
	27-Oct-09	0.04	10.0	0.1	J	ND		ND		ND		AB		ND		0.1	J	ND		0.2	J	ND		AB		ND		ND	
NC 2L = 20 µg/L (1/1/10)	08-Apr-10	0.03	10.0	ND		ND		0.1	B	ND		AB		ND		0.2	B	ND		ND		0.1	B	AB		0.1	B	0.1	J
	13-Oct-10	0.03	10.0	0.1	J	ND		ND		ND		AB		0.1	J	0.1	J	0.1	J	ND		ND		AB		0.1	J	ND	
	27-Apr-11	0.02	10.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
Thallium	11-Oct-07	0.07	5.0	0.2	J	ND		0.1	J	ND		AB		0.1	J	ND		ND		0.1	J	0.1	J	AB		ND		ND	
GWPS = 0.28 µg/L (10/23/07)	03-Apr-08	0.63	5.0	ND		0.1	J	0.1	J	ND		AB		ND		ND		0.1	J	ND		ND		AB		ND		ND	
	28-Oct-08	0.63	5.0	0.1	J	0.1	J	0.2	J	0.1	J	AB		ND		ND		ND		0.1	J	ND		AB		0.1	J	ND	
	08-Apr-09	0.03	5.0	0.1	J	ND		0.1	J	0.1	J	AB		0.1	J	ND		ND		0.1	J	ND		AB		ND		ND	
	27-Oct-09	0.03	5.0	0.1	J	ND		0.1	J	0.1	J	AB		ND		ND		ND		0.1	J	ND		AB		ND		ND	
	08-Apr-10	0.05	5.0	ND		ND		0.1	J	ND		AB		ND		ND		ND		ND		0.1	J	AB		0.1	J	ND	
GWPS = 0.2 µg/L (10/1/10)	13-Oct-10	0.05	5.5	ND		ND		ND		ND		AB		0.1	J	ND		0.1	J	ND		ND		AB		0.1	J	ND	
	27-Apr-11	0.02	5.5	ND		ND		0.12	B	0.06	B	AB		0.05	B	0.04	B	0.11	B	ND		ND		AB		0.07	B	0.03	J

TABLE 8
SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS
TUSCARORA LONG-TERM REGIONAL LANDFILL

Constituent	Date	Concentrations (µg/L)																											
		DL	RL	Background				Downgradient																				Blanks	
				MW-12S		MW-12D		MW-7		MW-8		MW-9		MW-10		MW-11S		MW-11D		MW-13S		MW-13D		MW-14		MW-14R			
Vanadium	Jul-99	NR	40	NI		NI		167		52		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Aug-99	NR	40	NI		NI		41		47		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-99	NR	40	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Nov-99	NR	40	NI		NI		ND		47		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-00	NR	40	NI		NI		ND		57		43		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-00	NR	40	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-01	NR	40	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-01	NR	40	NI		NI		55		83		ND		ND		64		ND		NI		NI		NI		NI		ND	
	Apr-02	NR	40	ND		ND		67		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-02	NR	40	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-03	NR	40	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-03	NR	40	ND		ND		ND		ND		ND		ND		ND		ND		NS		NS		NS		NI		ND	
	15-Apr-04	NR	40	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NI		ND	
	14-Oct-04	NR	40	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	05-Apr-05	NR	40	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	27-Oct-05	NR	40	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	21-Apr-06	NR	40	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	12-Oct-06	NR	40	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI		ND	
	26-Apr-07	NR	25	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI		ND	
	11-Oct-07	0.42	25.0	0.9	J	ND		8.6	J	3.8	J	AB		0.6	J	ND		ND		2.7	J	ND		AB		ND		ND	
GWPS = 3.5 µg/L (10/23/07)	03-Apr-08	0.07	25.0	0.3	B	0.3	B	1.7	J	3.6	J	AB		2.1	J	1.9	J	0.2	B	1.1	J	0.2	B	AB		0.3	B	0.1	J
	28-Oct-08	0.07	25.0	0.4	B	1.0	B	14.1	J	14	J	AB		3.1	J	1.9	J	0.4	B	1.5	J	0.9	B	AB		3.9	J	0.2	J
	08-Apr-09	0.28	25.0	1.5	J	1.7	J	6.9	J	13.5	J	AB		6.5	J	2.7	J	0.8	J	2.3	J	1.8	J	AB		2.1	J	ND	
	27-Oct-09	0.28	25.0	ND		1.4	B	13.3	J	15.2	J	AB		7.4	J	3.2	J	0.9	B	1.5	B	1.5	B	AB		2.1	J	0.4	J
	08-Apr-10	0.03	25.0	1.3	B	1.7	B	8.1	J	9.4	J	AB		4.9	J	2.1	J	0.7	B	3.1	J	1.3	B	AB		2.3	J	0.4	J
GWPS = 0.3 µg/L (10/1/10)	13-Oct-10	0.03	25.0	0.9	B	1.4	B	4.8	J	7.6	J	AB		5.4	J	1.4	B	0.8	B	1.5	B	1	B	AB		2.9	B	0.6	J
	27-Apr-11	0.14	25.0	ND		ND		4.7	J	6.8	J	AB		3.5	J	2.2	J	ND		0.97	J	0.48	J	AB		0.62	J	ND	
Zinc	Jul-99	NR	50	NI		NI		113		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Aug-99	NR	50	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-99	NR	50	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Nov-99	NR	50	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-00	NR	50	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-00	NR	50	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-01	NR	50	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-01	NR	50	NI		NI		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-02	NR	50	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-02	NR	50	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Apr-03	NR	50	ND		ND		ND		ND		ND		ND		ND		ND		NI		NI		NI		NI		ND	
	Oct-03	NR	50	11		ND		ND		ND		ND		ND		ND		ND		NS		NS		NS		NI		ND	
	15-Apr-04	NR	50	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		NI		ND	
	14-Oct-04	NR	50	ND		ND		72		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	05-Apr-05	NR	50	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	27-Oct-05	NR	50	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	21-Apr-06	NR	50	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		ND		NI		ND	
	12-Oct-06	NR	50	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		NI		ND	
	26-Apr-07	NR	10	ND		ND		13		ND		AB		ND		ND		ND		ND		ND		AB		NI		ND	
	11-Oct-07	0.20	10.0	22	B	2.1	B	28	B	4.9	B	AB		4.7	B	5.4	B	2.5	B	6.1	B	3.4	B	AB		14	B	6.6	J
NC 2L = 1,050 µg/L (10/23/07)	03-Apr-08	0.04	10.0	26		1.9	B	15		3.7	B	AB		7.8	B	8.7	B	4.7	B	4.7	B	2.1	B	AB		5.7	B	2.2	J
	28-Oct-08	0.04	10.0	20		15		22		11		AB		5.8	J	7.6	J	3.8	J	13		8.3	J	AB		17		0.4	J
	08-Apr-09	0.14	10.0	23		1.3	B	16		9.4	J	AB		7.5	J	14		1.8	B	5.4	J	1.9	B	AB		8.7	J	0.8	J
	27-Oct-09	0.14	10.0	16		4.2	B	25		9.6	J	AB		9.3	J	13		10		4.9	B	2.3	B	AB		8.9	J	1.4	J
NC 2L = 1,000 µg/L (1/1/10)	08-Apr-10	0.08	10.0	19		2.2	B	20		9.1	J	AB		6.8	J	9.9	J	3.5	B	9.9	J	2	B	AB		7.7	J	0.7	J
	13-Oct-10	0.08	10.0	17	B	7.7	B	6.1	B	8	B	AB		10	B	8.8	B	5.2	B	9.3	B	3.3	B	AB		12	B	4.1	J
	27-Apr-11	0.24	10.0	12		2.0	B	14		4.9	B	AB		10		9.3	J	3.8	B	4.9	B	1.2	B	AB		7.5	J	1.1	J
Acetone	11-Oct-07	1.21	100.0	ND		ND		1.40	J	ND		AB		1.40	J	ND		ND		ND		ND		AB		ND		ND	
Resample	04-Dec-07	2.2	25.0	NS		NS		ND		NS		AB		ND		NS		NS		NS		NS		AB		NS		4.3	J
NC 2L = 700 µg/L (10/23/07)	03-Apr-08	1.21	100.0	5.20	B	4.50	B	4.30	B	2.30	B	AB		2.30	B	2.20	B	2.00	B	5.00	B	3.80	B	AB		4.40	B	2.10	J
	28-Oct-08	1.21	100.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		1.30	J
	08-Apr-09	1.21	100.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
	27-Oct-09	9.06	100.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
NC 2L = 6,000 µg/L (1/1/10)	08-Apr-10	9.06	100.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
	13-Oct-10	9.06	100.0	10.20	J	32.20	J	ND		ND		AB		ND		ND		ND		15.00	J	22.10	J	AB		ND		ND	
	27-Apr-11	9.06	100.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
2-Butanone	03-Apr-08	0.85	100.0	0.90	J	ND		ND		1.50	J	AB		1.40	J	ND		ND		ND		ND		AB		ND		ND	
Resample	15-May-08	0.96	100.0	ND		NS		NS		ND		AB		ND		NS		NS		NS		NS		AB		NS		ND	
NC 2L = 4,200 µg/L (10/23/07)	28-Oct-08	0.85	100.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
	08-Apr-09	0.85	100.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
	27-Oct-09	2.21	100.0	2.30	J	2.50	J	3.60	J	2.80	J	AB		3.30	J	3.00	J	2.30	J	2.90	J	2.90	J	AB		4.60	J	ND	
NC 2L = 4,000 µg/L (1/1/10)	08-Apr-10	2.21	100.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
	13-Oct-10	2.21	100.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
	27-Apr-11	2.21	100.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
Chloromethane	11-Oct-07	0.18	1.0	0.90	J	0.70	J	0.80	J	0.80	J	AB		0.90	J	0.80	J	0.90	J	0.90	J	0.70	J	AB		0.90	J	ND	
Resample	04-Dec-07	0.11	1.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
NC 2L = 2.6 µg/L (10/23/07)	03-Apr-08	0.18	1.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
	28-Oct-08	0.18	1.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		0.20	J	ND	
	08-Apr-09	0.18	1.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
	27-Oct-09	0.77	1.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		0.90	J	ND	
NC 2L = 3 µg/L (1/1/10)	08-Apr-10	0.77	1.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
	13-Oct-10	0.77	1.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
	27-Apr-11	0.77	1.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
Methylene Chloride	11-Oct-07	0.14	1.0	ND		ND		ND		ND		AB		ND		0.20	B	ND		ND		ND		AB		ND		0.20	J
NC 2L = 4.6 µg/L (10/23/07)	03-Apr-08	0.14	1.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
	28-Oct-08	0.14	1.0	ND		ND		0.20	J	0.20	J	AB		0.20	J	0.20	J	0.20	J	ND		ND		AB		ND		ND	
	08-Apr-09	0.14	1.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
	27-Oct-09	0.64	1.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
NC 2L = 5 µg/L (1/1/10)	08-Apr-10	0.64	1.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
	13-Oct-10	0.64	1.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	
	27-Apr-11	0.64	1.0	ND		ND		ND		ND		AB		ND		ND		ND		ND		ND		AB		ND		ND	

Notes:
1. All concentrations are in micrograms per liter (mg/L).
2. RL = Laboratory reporting limit (NC SWSL or lower from October 2007 to present).
3. ND = Not detected above laboratory reporting limit.
4. B = Blank-qualified data; result is expected to be biased high based on concentrations in the blanks
5. NC 2L = North Carolina 2L Groundwater Standards.
6. GWPS = Groundwater Protection Standards.
7. When the NC 2L has not been established, the GWPS will be used.
8. Shaded values are above the NC 2L Groundwater Standards or Groundwater Protection Standards.
9. DL = Laboratory detection limit.
10. J = Estimated value between the DL and the RL
11. NI = Well/Piezometer not installed.
12. AB = Abandoned.
13. NS = Not sampled and/or no water level measurements taken.
14. NR = Not Reported.

TABLE 9
SUMMARY OF FIELD PARAMETERS
TUSCARORA LONG-TERM REGIONAL LANDFILL

Field Parameters	Date	Background		Downgradient									
		MW-12S	MW-12D	MW-7	MW-8	MW-9	MW-10	MW-11S	MW-11D	MW-13S	MW-13D	MW-14	MW-14R
Conductivity	Jul-99	NI	NI	180	110	320	150	200	440	NI	NI	NI	NI
[uMhos]	Aug-99	NI	NI	210	100	580	200	170	450	NI	NI	NI	NI
	Oct-99	NI	NI	140	89	2,000	150	200	420	NI	NI	NI	NI
	Nov-99	NI	NI	140	91	1,600	150	270	430	NI	NI	NI	NI
	Apr-00	NI	NI	150	88	1,800	140	270	420	NI	NI	NI	NI
	Oct-00	NI	NI	140	92	1,200	130	30	410	NI	NI	NI	NI
	Apr-01	NI	NI	140	88	1,300	120	290	390	NI	NI	NI	NI
	Oct-01	NI	NI	140	98	1,200	120	250	410	NI	NI	NI	NI
	Apr-02	160	460	140	82	1,600	110	290	370	NI	NI	NI	NI
	Oct-02	153	478	356	93	1,650	132	288	500	NI	NI	NI	NI
	Apr-03	164	448	482	169	1,857	167	406	440	NI	NI	NI	NI
	Oct-03	146	434	373	76	1,497	144	411	426	NS	NS	NS	NI
	15-Apr-04	170	300	220	57	960	87	290	300	79	280	56	NI
	14-Oct-04	189	405	272	70	AB	121	344	406	127	391	79	NI
	05-Apr-05	146	489	299	67	AB	140	417	496	99	475	95	NI
	27-Oct-05	144	419	234	63	AB	125	353	430	114	396	138	NI
	21-Apr-06	184	465	216	64	AB	147	406	469	121	434	69	NI
	12-Oct-06	182	448	245	59	AB	130	358	448	109	416	AB	NI
	26-Apr-07	192	452	210	69	AB	143	310	448	103	415	AB	NI
	11-Oct-07	187	454	273	80	AB	128	229	439	119	409	AB	78
Resample	04-Dec-07	159.2	501	340	83.5	AB	128.9	232	497	146.4	482	AB	73.1
	03-Apr-08	155	481	453	64	AB	131	409	443	124	402	AB	71
Resample	15-May-08	164.2	NS	NS	67.4	AB	129.8	NS	NS	NS	NS	AB	NS
	28-Oct-08	140	437	528	63	AB	124.0	542	449	152	422	AB	75
	08-Apr-09	148	429	475	60	AB	131	1,200	460	149	435	AB	116
	27-Oct-09	114	430	439	60	AB	114	613	427	124	417	AB	119
	08-Apr-10	146	433	450	73	AB	134	771	460	142	433	AB	158
	13-Oct-10	124	450	455	75	AB	121	639	474	144	440	AB	275
	27-Apr-11	123	439	551	84	AB	139	1115	475	164	437	AB	284
pH	Jul-99	NI	NI	5.7	5.4	5.1	5.6	6.0	7.0	NI	NI	NI	NI
[units]	Aug-99	NI	NI	5.4	5.0	4.2	5.0	5.6	6.4	NI	NI	NI	NI
	Oct-99	NI	NI	5.3	4.8	5.8	5.4	5.1	6.8	NI	NI	NI	NI
	Nov-99	NI	NI	5.2	4.8	5.6	5.3	5.2	6.7	NI	NI	NI	NI
	Apr-00	NI	NI	5.0	5.0	6.0	5.3	5.4	7.2	NI	NI	NI	NI
	Oct-00	NI	NI	5.0	4.8	5.3	5.3	4.8	6.3	NI	NI	NI	NI
	Apr-01	NI	NI	4.7	4.8	4.7	4.9	4.4	6.3	NI	NI	NI	NI
	Oct-01	NI	NI	5.1	5.0	4.4	5.2	5.0	6.6	NI	NI	NI	NI
	Apr-02	5.4	6.3	4.7	4.7	5.2	5.2	4.9	6.4	NI	NI	NI	NI
	Oct-02	4.9	7.1	5.9	4.9	5.0	5.5	4.9	7.2	NI	NI	NI	NI
	Apr-03	5.1	7.1	5.9	4.6	6.2	5.5	4.5	7.0	NI	NI	NI	NI
	Oct-03	4.6	6.7	6.0	4.6	5.9	5.1	3.9	6.9	NS	NS	NS	NI
	Oct-03	6.6	7.3	7.0	6.7	6.7	6.4	5.2	7.2	6.8	7.2	8.0	NI
	14-Oct-04	5.4	7.0	10.0	5.0	AB	5.3	4.7	6.8	4.9	6.7	5.3	NI
	05-Apr-05	5.1	7.0	5.9	5.1	AB	5.3	4.5	6.8	5.2	7.1	4.8	NI
	27-Oct-05	5.1	6.9	5.8	5.1	AB	5.1	4.1	6.9	4.9	7.1	4.8	NI
	21-Apr-06	5.3	7.0	5.9	5.0	AB	5.2	4.0	7.1	5.1	7.2	4.9	NI
	12-Oct-06	5.3	7.0	6.0	4.8	AB	5.2	4.2	7.0	5.1	7.1	AB	NI
	26-Apr-07	5.4	7.1	6.1	5.0	AB	5.3	4.6	7.1	4.9	7.2	AB	NI
	11-Oct-07	5.3	7.0	5.8	5.3	AB	5.1	5.1	7.1	5.1	7.2	AB	5.3
Resample	04-Dec-07	5.46	6.01	6.20	6.55	AB	6.22	4.53	5.82	5.17	5.98	AB	5.95
	03-Apr-08	4.9	6.8	6.1	4.9	AB	5.3	3.7	6.7	4.9	7.1	AB	4.8
Resample	15-May-08	5.66	NS	NS	5.80	AB	5.69	NS	NS	NS	NS	AB	NS
	28-Oct-08	4.6	7.0	6.2	4.9	AB	5.0	3.9	6.9	4.7	7.0	AB	5.0
	08-Apr-09	4.9	6.8	6.2	4.9	AB	5.0	4.0	6.7	4.8	6.6	AB	4.6
	27-Oct-09	4.6	6.8	6.1	5.0	AB	5.1	3.8	6.9	4.8	6.9	AB	4.2
	08-Apr-10	4.4	6.9	6.4	4.8	AB	5.1	4.0	7.0	5.0	7.1	AB	4.3
	13-Oct-10	4.7	6.7	6.2	4.8	AB	5.5	4.2	7.0	5.1	6.9	AB	3.9
	27-Apr-11	4.8	6.8	6.3	4.8	AB	5.1	4.0	6.8	5.1	6.9	AB	4.0
Temperature	Jul-99	NI	NI	20	23	21	23	20	24	NI	NI	NI	NI
[°C]	Aug-99	NI	NI	23	23	23	24	23	20	NI	NI	NI	NI
	Oct-99	NI	NI	20	21	20	21	20	21	NI	NI	NI	NI
	Nov-99	NI	NI	17	18	18	18	17	17	NI	NI	NI	NI
	Apr-00	NI	NI	15	15	15	14	14	17	NI	NI	NI	NI
	Oct-00	NI	NI	20	20	20	19	20	20	NI	NI	NI	NI
	Apr-01	NI	NI	17	15	14	14	14	14	NI	NI	NI	NI
	Oct-01	NI	NI	20	21	20	21	21	19	NI	NI	NI	NI
	Apr-02	17	17	17	18	17	17	17	16	NI	NI	NI	NI
	Oct-02	25	22	25	26	24	24	24	23	NI	NI	NI	NI
	Apr-03	16	18	15	15	16	16	15	15	NI	NI	NI	NI
	Oct-03	20	19	20	19	20	20	21	21	NS	NS	NS	NI
	15-Apr-04	15	17	15	16	14	14	14	12	15	14	15	NI
	14-Oct-04	21	20	21	21	AB	21	22	21	21	22	21	NI
	05-Apr-05	15	15	16	15	AB	14	15	15	14	14	13	NI
	27-Oct-05	21	21	21	21	AB	21	21	22	20	21	21	NI
	21-Apr-06	17	18	18	17	AB	16	15	17	16	17	17	NI
	12-Oct-06	22	19	22	23	AB	22	23	19	21	19	AB	NI
	26-Apr-07	17	18	17	17	AB	15	16	18	4.9	7.2	AB	NI
	11-Oct-07	21	19	22	22	AB	21	21	18	20	18	AB	22
Resample	04-Dec-07	18.2	18.9	17.4	18.5	AB	16.7	13.8	17.9	16.0	17.1	AB	16.9
	03-Apr-08	16	18	15	15	AB	14	15	17	16	17	AB	15
Resample	15-May-08	17.4	NS	NS	17.8	AB	17.1	NS	NS	NS	NS	AB	NS
	28-Oct-08	21	18	20	20	AB	19	20	20	18	19	AB	20
	08-Apr-09	14	17	14	14	AB	13	14	15	14	15	AB	13
	27-Oct-09	21	19	22	21	AB	21	22	20	20	20	AB	21
	08-Apr-10	16	19	16	15	AB	16	15	16	16	16	AB	16
	13-Oct-10	22	19	23	23	AB	22	22	21	22	21	AB	22
	27-Apr-11	17	18	18	18	AB	17	16	17	17	17	AB	18
Turbidity	Jul-99	NI	NI	450	650	18	3	75	70	NI	NI	NI	NI
[NTU]	Aug-99	NI	NI	95	500	50	100	330	120	NI	NI	NI	NI
	Oct-99	NI	NI	250	110	100	31	15	26	NI	NI	NI	NI
	Nov-99	NI	NI	110	290	150	100	75	130	NI	NI	NI	NI
	Apr-00	NI	NI	50	500	140	37	22	25	NI	NI	NI	NI
	Oct-00	NI	NI	70	110	17	16	33	31	NI	NI	NI	NI
	Apr-01	NI	NI	80	70	14	12	32	34	NI	NI	NI	NI
	Oct-01	NI	NI	60	290	5	10	20	70	NI	NI	NI	NI
	Apr-02	14	24	35	32	25	11	24	8	NI	NI	NI	NI
	Oct-02	3.0	14	22	8.3	23	10	6.2	50	NI	NI	NI	NI
	Apr-03	60	120	33	120	24	22	12	21	NI	NI	NI	NI
	Oct-03	18	22	55	27	65	25	19	26	NS	NS	NS	NI
	15-Apr-04	70	29	65	400	40	32	37	21	220	65	75	NI
	14-Oct-04	39	26	38	40	AB	60	140	39	45	30	37	NI
	05-Apr-05	39	32	70	170	AB	65	27	12	190	38	100	NI
	27-Oct-05	19	39	200	110	AB	37	55	25	26	50	26	NI
	21-Apr-06	5.9	17	56	4.8	AB	4.2	1.6	37	3.7	132	1.5	NI
	12-Oct-06	19	160	50	24	AB	34	3.0	60	19	70	AB	NI
	26-Apr-07	200	130	95	12	AB	50	6.6	90	2.5	110	AB	NI
	11-Oct-07	80	90	90	45	AB	8.0	7.1	60	40	80	AB	4.4
Resample	04-Dec-07	53.1	50.4	90.3	811.0	AB	31.4	34.3	9.86	46.1	17.85	AB	28.8
	03-Apr-08	35	6.4	13	50	AB	75	7.2	65	26	33	AB	5.2
Resample	15-May-08	26.1	NS	NS	630	AB	31.6	NS	NS	NS	NS	AB	NS
	23-Oct-08	18	75	200	320	AB	70	60	40	28	60	AB	80
	08-Apr-09	38	70	75	250	AB	90	39	50	40	120	AB	27
	27-Oct-09	13	100	170	290	AB	70	33	45	29	65	AB	60
	08-Apr-10	19	33	130	190	AB	90	38	45	90	55	AB	26
	13-Oct-10	11	36	70	170	AB	90	31	50	280	70	AB	45
	27-Apr-11	16	60	85	60	AB	75	27	55	30	75	AB	17

Notes:
1. NI = Well/Piezometer not installed.
2. AB = Abandoned.
3. NS = Not sampled and/or no water level measurements taken.

TABLE 10
SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS
LEACHATE STORAGE LAGOON AREA

Constituent	Date	Concentrations (µg/L)																											
		DL	RL	Background		Downgradient																						Blanks	
				LST-5S		LST-1S		LST-1D		LST-2S		LST-2D		LST-3S		LST-3D		LST-4S		LST-4D		LST-5D		LST-6S		LST-6D			
Antimony	Jul-93	NR	5	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Aug-93	NR	5	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Sep-93	NR	5	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Sep-93	NR	5	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-94	NR	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		2		ND	
	Oct-94	NR	30	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-95	NR	30	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-95	NR	30	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-96	NR	30	ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-96	NR	30	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-97	NR	30	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-97	NR	30	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-98	NR	30	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-98	NR	30	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Mar-99	NR	30	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-99	NR	30	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-00	NR	30	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-00	NR	30	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-01	NR	30	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-01	NR	30	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-02	NR	30	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-02	NR	30	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-03	NR	30	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-03	NR	30	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	15-Apr-04	NR	30	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	14-Oct-04	NR	30	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	05-Apr-05	NR	30	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Oct-05	NR	30	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	21-Apr-06	NR	30	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	12-Oct-06	NR	30	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	26-Apr-07	NR	6.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	10-Oct-07	0.05	6.0	0.2	B	0.1	B	0.1	B	0.1	B	WL		0.1	B	WL		0.5	B	WL		0.1	B	0.1	B	WL		0.1	J
GWPS = 1.4 µg/L (10/23/07)	03-Apr-08	0.08	6.0	0.1	B	ND		ND		ND		WL		ND		WL		ND		WL		ND		0.5	B	WL		0.1	J
	28-Oct-08	0.08	6.0	0.6	J	ND		0.2	J	ND		WL		0.4	J	WL		0.1	J	WL		0.2	J	0.1	J	WL		ND	
	08-Apr-09	0.06	6.0	0.2	J	0.2	J	0.1	J	ND		WL		ND		WL		ND		WL		0.1	J	ND		WL		ND	
	27-Oct-09	0.06	6.0	0.3	J	0.1	J	0.7	J	0.3	J	WL		0.2	J	WL		ND		WL		0.2	J	0.1	J	WL		ND	
	08-Apr-10	0.22	6.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		0.4	B	ND		WL		0.7	J
GWPS = 1 µg/L (8/1/10)	13-Oct-10	0.22	6.0	0.5	J	ND		ND		ND		WL		0.6	J	WL		ND		WL		ND		ND		WL		ND	
	27-Apr-11	0.14	6.0	0.36	J	ND		ND		1.5	J	WL		ND		WL		0.30	J	WL		ND		ND		WL		ND	
Arsenic	Jul-93	NR	5	ND		9		ND		ND		ND		ND		ND		16		ND		5		ND		27		ND	
	Aug-93	NR	5	ND		ND		ND		ND		ND		ND		ND		15		ND		ND		ND		6		ND	
	Sep-93	NR	5	ND		ND		ND		5		153		ND		ND		17		ND		ND		ND		ND		ND	
	Sep-93	NR	5	ND		ND		ND		ND		8		ND		ND		37		ND		ND		ND		ND		ND	
	Apr-94	NR	5	ND		ND		ND		ND		ND		ND		ND		9		ND		ND		ND		ND		ND	
	Oct-94	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-95	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-95	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-96	NR	10	ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-96	NR	10	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-97	NR	10	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-97	NR	10	ND		ND		ND		ND		ND		ND		WL		18		WL		ND		ND		WL		ND	
	Apr-98	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-98	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Mar-99	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-99	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-00	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-00	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-01	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-01	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-02	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-02	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-03	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-03	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	15-Apr-04	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	14-Oct-04	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	05-Apr-05	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Oct-05	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	21-Apr-06	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	12-Oct-06	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	10-Oct-07	0.47	10.0	2.4	J	1.0	J	ND		3.0	J	WL		1.7	J	WL		13		WL		ND		1.0	J	WL		ND	
NC 2L = 50 µg/L (10/23/07) Resample	04-Dec-07	2.7	5.0	NS		NS		NS		NS		NS		NS		NS		9.5		NS		NS		NS		NS		ND	
	03-Apr-08	0.07	10.0	1.2	J	0.6	J	0.4	J	0.3	J	WL		1.7	J	WL		11		WL		0.4	J	0.5	J	WL		ND	
	28-Oct-08	0.07	10.0	0.9	J	0.7	J	1.0	J	1.8	J	WL		1.7	J	WL		3.1	J	WL		0.8	J	1.5	J	WL		ND	
	08-Apr-09	0.17	10.0	1.9	J	0.8	B	0.8	B	1.0	B	WL		1.0	B	WL		2.1	J	WL		0.9	B	1.5	J	WL		0.2	J
	27-Oct-09	0.17	10.0	1.7	J	0.8	J	0.7	J	0.6	J	WL		0.6	J	WL		4.7	J	WL		1	J	2.1	J	WL		ND	
NC 2L = 10 µg/L (1/1/10)	08-Apr-10	0.04	10.0	1.9	J	0.5	J	0.3	J	0.8	J	WL		0.2	J	WL		0.9	J	WL		1.3	J	0.9	J	WL		ND	
	13-Oct-10	0.04	10.0	4.6	J	0.8	J	1.3	J	0.7	J	WL		0.6	J	WL		1.8	J	WL		1.9	J	1	J	WL		ND	
	27-Apr-11	0.10	10.0	1.7	J	0.41	J	0.44	J	0.72	J	WL		0.31	J	WL		1.7	J	WL		1.4	J	0.54	J	WL		ND	
Barium	Jul-93	NR	50	272		424		260		151		152		128		160		208		204		351		126		NA		ND	
	Aug-93	NR	50	196		216		144		133		128		240		242		126		256		292		68		112		ND	
	Sep-93	NR	50	92		71		212		75		460		79		104		194		94		120		61		62		ND	
	Sep-93	NR	50	113		194		120		94		121		121		170		155		132		184		74		77		ND	
	Apr-94	NR	50	ND		84		69		ND		94		ND		52		80		ND		62		90		ND		ND	
	Oct-94	NR	500	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-95	NR	500	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-95	NR	500	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-96	NR	500	ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-96	NR	500	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-97	NR	500	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-97	NR	500	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-98	NR	500	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-98	NR	500	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Mar-99	NR	500	ND		ND		ND		ND		WL		ND		WL		ND		WL		WL		ND		WL		ND	
	Oct-99	NR	500	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-00	NR	500	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-00	NR	500	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-01	NR	500	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-01	NR	500	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-02	NR	500	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-02	NR	500	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-03	NR	500	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-03	NR	500	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	15-Apr-04	NR	500	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	14-Oct-04	NR	500	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	05-Apr-05	NR	500	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Oct-05	NR	500	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	21-Apr-06	NR	500	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	12-Oct-06	NR	500	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	26-Apr-07	NR	100	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	10-Oct-07	0.04	100.0	30.9	J	63.7	J	37.3	J	42	J	WL		91.5	J	WL		184		WL		51.8	J	34	J	WL		0.2	J
NC 2L = 2,000 µg/L (10/23/07)	03-Apr-08	0.11	100.0	27.9	J	66.0	J	38.9	J	36.8	J	WL		119		WL		58.3	J	WL		58.4	J	43.8	J	WL		ND	
	28-Oct-08	0.11	100.0	34	J	53.5	J	47.6	J	64.8	J	WL		158		WL		66.2	J	WL		71.8	J	84.8	J	WL		0.2	J
	08-Apr-09	0.04	100.0	33.1	J	61.2	J	44.5	J	55.6	J	WL		77.3	J	WL		52.9	J	WL		85.0	J	79.7	J	WL		0.2	J
	27-Oct-09	0.04	100.0	37.9	J	48.8	J	35.3	J	43.3	J	WL		101		WL		68.2	J	WL		82.7	J	81.7	J	WL		0.1	J
NC 2L = 700 µg/L (1/1/10)	08-Apr-10	0.03	100.0	31.9	J	58.1	J	40.2	J	60.4	J	WL		45.7	J	WL		33.1	J	WL		96.7	J	78.6	J	WL		0.1	J
	13-Oct-10	0.03	100.0	161		38.3	J	36.2	J	32	J	WL		89.1	J	WL		53.2	J	WL		98.5	J	61	J	WL		0.2	J
	27-Apr-11	0.02	100.0	41.5	J	46.4	J	38.5	J	37.8	J	WL		59.4	J	WL		41.1	J	WL		95.4	J	51.6	J	WL		0.10	J

TABLE 10
SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS
LEACHATE STORAGE LAGOON AREA

Constituent	Date	Concentrations (µg/L)																											
		DL	RL	Background		Downgradient																						Blanks	
				LST-5S		LST-1S		LST-1D		LST-2S		LST-2D		LST-3S		LST-3D		LST-4S		LST-4D		LST-5D		LST-6S		LST-6D			
Beryllium	Jul-93	NR	1	3		4		ND		2		ND		2		ND		4		3		3		ND		4		ND	
	Aug-93	NR	1	2		2		ND		2		ND		4		ND		3		ND		ND		ND		2		ND	
	Sep-93	NR	1	1		ND		ND		2		25		2		ND		4		ND		ND		ND		ND		ND	
	Sep-93	NR	1	2		3		ND		ND		1		2		1		4		ND		ND		ND		ND		ND	
	Apr-94	NR	1	ND		ND		ND		ND		ND		2		ND		ND		ND		ND		ND		ND		ND	
	Oct-94	NR	2	ND		ND		ND		ND		ND		2		ND		2		ND		ND		ND		ND		ND	
	Apr-95	NR	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-95	NR	2	ND		ND		ND		2		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-96	NR	2	ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-96	NR	2	ND		ND		ND		ND		ND		ND		WL		3		WL		ND		ND		WL		ND	
	Apr-97	NR	2	ND		3		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-97	NR	2	3		ND		ND		2		ND		ND		WL		3		WL		ND		ND		WL		ND	
	Apr-98	NR	2	ND		ND		ND		2.1		WL		ND		WL		3.2		WL		ND		ND		WL		ND	
	Oct-98	NR	2	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Mar-99	NR	2	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-99	NR	2	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-00	NR	2	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-00	NR	2	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-01	NR	2	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-01	NR	2	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-02	NR	2	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-02	NR	2	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-03	NR	2	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-03	NR	2	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	15-Apr-04	NR	2	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	14-Oct-04	NR	2	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	05-Apr-05	NR	2	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Oct-05	NR	2	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	21-Apr-06	NR	2	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	12-Oct-06	NR	2	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	26-Apr-07	NR	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	10-Oct-07	0.08	1.0	ND		0.5	J	0.1	J	0.3	J	WL		0.5	J	WL		1.6		WL		0.1	J	0.1	J	WL		ND	
GWPS = 4 µg/L (10/23/07)	03-Apr-08	0.06	1.0	ND		0.4	J	0.1	J	0.2	J	WL		1.2		WL		0.4	J	WL		0.2	J	0.2	J	WL		ND	
	28-Oct-08	0.06	1.0	0.1	J	0.5	J	0.1	J	0.6	J	WL		1.0		WL		0.6	J	WL		0.3	J	0.4	J	WL		ND	
	08-Apr-09	0.06	1.0	0.2	J	0.5	J	0.1	J	0.4	J	WL		0.5	J	WL		0.6	J	WL		0.2	J	0.4	J	WL		ND	
	27-Oct-09	0.06	1.0	0.2	J	0.3	J	0.2	J	0.4	J	WL		0.7	J	WL		0.8	J	WL		0.3	J	0.5	J	WL		ND	
	08-Apr-10	0.02	1.0	0.1	B	0.3	B	0.1	B	0.4	B	WL		0.3	B	WL		0.3	B	WL		0.3	B	0.3	B	WL		0.1	J
GWPS = 4 µg/L (10/1/10)	13-Oct-10	0.02	1.0	0.1	J	0.3	J	0.2	J	0.3	J	WL		0.6	J	WL		0.6	J	WL		0.2	J	0.3	J	WL		ND	
	27-Apr-11	0.02	1.0	0.15	J	0.29	J	0.07	J	0.28	J	WL		0.30	J	WL		0.33	J	WL		0.23	J	0.17	J	WL		ND	
Cadmium	Jul-93	NR	1	ND		ND		ND		ND		ND		ND		ND		ND		ND		1		ND		ND		ND	
	Aug-93	NR	1	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Sep-93	NR	1	ND		ND		ND		ND		5		ND		ND		ND		ND		ND		ND		ND		ND	
	Sep-93	NR	1	ND		ND		ND		ND		5		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-94	NR	1	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-94	NR	1	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-95	NR	1	ND		ND		ND		ND		ND		1		ND		1		ND		ND		ND		ND		ND	
	Oct-95	NR	1	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-96	NR	1	ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-96	NR	1	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-97	NR	1	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-97	NR	1	1		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-98	NR	1	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-98	NR	1	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Mar-99	NR	1	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-99	NR	1	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-00	NR	1	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-00	NR	1	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-01	NR	1	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-01	NR	1	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-02	NR	1	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-02	NR	1	2		ND		ND		ND		WL		ND		WL		ND		WL		1		ND		WL		ND	
	Apr-03	NR	1	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-03	NR	1	ND		ND		ND		ND		WL		ND		WL		ND		WL		5		2		WL		ND	
	15-Apr-04	NR	1	ND		3		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	14-Oct-04	NR	1	1		ND		2		ND		WL		ND		WL		ND		WL		1		1		WL		ND	
	05-Apr-05	NR	1	ND		1		1		ND		WL		1		WL		1		WL		ND		2		WL		ND	
	27-Oct-05	NR	1	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	21-Apr-06	NR	1	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	12-Oct-06	NR	1	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	26-Apr-07	NR	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	10-Oct-07	0.06	1.0	0.4	B	0.5	B	0.1	B	0.5	B	WL		0.5	B	WL		0.5	B	WL		0.2	B	1.1		WL		0.1	J
NC 2L = 1.75 µg/L (10/23/07)	03-Apr-08	0.04	1.0	0.1	J	0.1	J	ND		0.1	J	WL		0.3	J	WL		0.2	J	WL		0.1	J	0.4	J	WL		ND	
	28-Oct-08	0.04	1.0	0.1	J	0.3	J	0.3	J	0.1	J	WL		0.4	J	WL		0.2	J	WL		0.1	J	0.1	J	WL		ND	
	08-Apr-09	0.04	1.0	0.1	J	0.3	J	0.1	J	0.2	J	WL		0.5	J	WL		0.2	J	WL		0.2	J	0.3	J	WL		ND	
	27-Oct-09	0.04	1.0	0.7	J	0.1	J	ND		0.2	J	WL		0.1	J	WL		0.7	J	WL		0.1	J	1		WL		ND	
NC 2L = 2 µg/L (1/1/10)	08-Apr-10	0.02	1.0	0.1	B	0.3	B	0.1	B	0.3	B	WL		0.1	B	WL		0.4	B	WL		0.8	J	0.1	B	WL		0.1	J
	13-Oct-10	0.02	1.0	0.4	J	0.2	J	0.2	J	0.3	J	WL		0.1	J	WL		0.2	J	WL		0.1	J	0.1	J	WL		ND	
	27-Apr-11	0.02	1.0	0.12	J	0.18	J	0.05	J	0.18	J	WL		0.07	J	WL		0.21	J	WL		0.17	J	0.06	J	WL		ND	
Chromium	Jul-93	NR	5	36		72		14		32		8		7		ND		ND		26		8		ND		35		ND	
	Aug-93	NR	5	18		17		ND		16		ND		23		ND		ND		ND		ND		ND		11		ND	
	Sep-93	NR	5	19		12		ND		17		136		9		ND		ND		ND		ND		ND		6		ND	
	Sep-93	NR	5	19		29		ND		8		9		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-94	NR	5	ND		9		34		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-94	NR	10	ND		10		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-95	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-95	NR	10	ND		ND		ND		22		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-96	NR	10	ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-96	NR	10	ND		13		ND		ND		ND		ND		WL		27		WL		ND		10		WL		ND	
	Apr-97	NR	10	16		32		ND		ND		ND		ND		WL		20		WL		10		14		WL		ND	
	Oct-97	NR	10	15		ND		ND		16		ND		ND		WL		32		WL		21		33		WL		ND	
	Apr-98	NR	10	32		ND		ND		12		WL		ND		WL		26		WL		ND		23		WL		ND	
	Oct-98	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Mar-99	NR	10	17		11		ND		18		WL		ND		WL		34		WL		ND		10		WL		ND	
	Oct-99	NR	10	ND		10		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-00	NR	5	28		170		ND		18		WL		ND		WL		51		WL		10		40		WL		ND	
	Oct-00	NR	10	ND		ND		ND		11		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-01	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-01	NR	10	ND		ND		ND		18		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-02	NR	10	20		ND		ND		19		WL		ND		WL		40		WL		ND		ND		WL		ND	
	Oct-02	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-03	NR	10	14		ND		ND		ND		WL		ND		WL		ND		WL		ND		10		WL		ND	
	Oct-03	NR	10	14		ND		ND		17		WL		ND		WL		19		WL		ND		ND		WL		ND	
	15-Apr-04	NR	10	11		20		ND		22		WL		ND		WL		ND		WL		11		13		WL		ND	
	14-Oct-04	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	05-Apr-05	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Oct-05	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	21-Apr-06	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	12-Oct-06	NR	10	ND		ND		ND		ND		WL		17		WL		ND		WL		ND		ND		WL		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	10-Oct-07	0.24	10.0	3.2	B	1.1	B	1.2	B	1.4	B	WL		1.6	B	WL		2	B	WL		1.4	B	2.2	B	WL		1.2	J
NC 2L = 50 µg/L (10/23/07)	03-Apr-08	0.11	10.0	0.5	J	ND		ND		1.2	J	WL		1.5	J	WL		2.1	J	WL		0.4	J	2.7	J	WL		ND	
	28-Oct-08	0.11	10.0	3.9	J	5.4	J	1.3	J	8.8	J	WL		3.1	J	WL		7.7	J	WL		1.7	J	9.2	J	WL		ND	
	08-Apr-09	0.10	10.0	6.4	J	1.9	J	0.2	J	2.8	J	WL		2.4	J	WL		6.2	J	WL		1.1	J	8.0	J	WL		ND	
	27-Oct-09	0.10	10.0	8.7	J	3.8	J	0.7	J	4.2	J	WL		1.6	J	WL		11		WL		1	J	11		WL		ND	
NC 2L = 10 µg/L (1/1/10)	08-Apr-10	0.03	10.0	6.1	J	2.1	J	0.6	J	4.3	J	WL		1.7	J	WL		5.5	J	WL		1.3	J	7.4	J	WL		ND	
	13-Oct-10	0.03	10.0	8.7	J	0.6	J	0.7	J	1.6	J	WL		1.3	J	WL		6.2	J	WL		0.7	J	6.6	J	WL		ND	
	27-Apr-11	0.04	10.0	6.7	J	1.5	J	0.40	B	3.9	J	WL		1.1	J	WL		6.1	J	WL		1.2	J	3.9	J	WL		0.18	J

TABLE 10
SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS
LEACHATE STORAGE LAGOON AREA

Constituent	Date	Concentrations (µg/L)																													
		DL	RL	Background		Downgradient																								Blanks	
				LST-5S		LST-1S		LST-1D		LST-2S		LST-2D		LST-3S		LST-3D		LST-4S		LST-4D		LST-5D		LST-6S		LST-6D			
Cobalt	Jul-93	NR	20	29		36		28		2		25		71		24		258		28		21		ND		52		ND	
	Aug-93	NR	20	ND		ND		ND		ND		ND		62		ND		117		ND		ND		24		42		ND	
	Sep-93	NR	20	ND		ND		ND		ND		186		83		ND		205		ND		ND		ND		ND		ND	
	Sep-93	NR	20	ND		ND		ND		ND		ND		61		ND		188		ND		ND		ND		ND		ND	
	Apr-94	NR	10	19	B	25		35		18	B	37	B	81	B	41	B	37	B	31	B	31	B	20	B	36	B	18	
	Oct-94	NR	10	ND		ND		ND		ND		ND		ND		ND		14		ND		ND		ND		ND		ND	
	Apr-95	NR	10	ND		ND		ND		ND		ND		53		ND		14		ND		ND		ND		ND		ND	
	Oct-95	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-96	NR	10	ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-96	NR	10	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-97	NR	10	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-97	NR	10	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-98	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-98	NR	10	ND		ND		ND		ND		WL		13		WL		ND		WL		ND		ND		WL		ND	
	Mar-99	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-99	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-00	NR	10	ND		ND		ND		ND		WL		11		WL		ND		WL		ND		ND		WL		ND	
	Oct-00	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-01	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-01	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-02	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-02	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-03	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-03	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	15-Apr-04	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	14-Oct-04	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	05-Apr-05	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Oct-05	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	21-Apr-06	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	12-Oct-06	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	10-Oct-07	0.41	10.0	0.5	J	0.5	J	ND		0.5	J	WL		5.8	J	WL		20		WL		ND		ND		WL		ND	
GWPS = 70 µg/L (10/23/07)	03-Apr-08	0.03	10.0	0.5	J	0.4	J	0.4	J	0.4	J	WL		2.8	J	WL		2.3	J	WL		0.2	J	0.6	J	WL		ND	
	28-Oct-08	0.03	10.0	0.3	J	0.7	J	0.7	J	0.8	J	WL		6.6	J	WL		1.8	J	WL		0.5	J	0.8	J	WL		ND	
	08-Apr-09	0.02	10.0	0.4	J	0.4	J	0.4	J	0.6	J	WL		2.8	J	WL		1.6	J	WL		0.4	J	0.7	J	WL		ND	
	27-Oct-09	0.02	10.0	0.4	J	0.4	J	0.5	J	0.5	J	WL		7.2	J	WL		2.2	J	WL		0.5	J	0.9	J	WL		ND	
	08-Apr-10	0.10	10.0	0.4	J	0.4	J	0.5	J	0.6	J	WL		2.9	J	WL		1.2	J	WL		0.5	J	0.8	J	WL		ND	
GWPS = 1 µg/L (10/1/10)	13-Oct-10	0.10	10.0	1	J	0.2	J	0.6	J	0.3	J	WL		6	J	WL		2.1	J	WL		0.4	J	0.5	J	WL		ND	
	27-Apr-11	0.03	10.0	0.45	J	0.36	J	0.26	J	0.45	J	WL		3.4	J	WL		1.4	J	WL		0.41	J	0.50	J	WL		ND	
Copper	Jul-93	NR	10	23	B	62		25		26	B	24	B	17	B	26	B	22	B	28	B	ND		19	B	36	B	17	
	Aug-93	NR	10	17	B	15		21		14	B	10	B	17	B	13	B	ND		12	B	11	B	16	B	33	B	19	
	Sep-93	NR	10	18	B	24		12		ND		195		16	B	14	B	11	B	13	B	14	B	14	B	ND		11	
	Sep-93	NR	10	19	B	27		12		36	B	46	B	29	B	35	B	44	B	31	B	10	B	38	B	37	B	39	
	Apr-94	NR	10	33	B	45		ND		25	B	31	B	15	B	58	B	47	B	41	B	31	B	25	B	27	B	21	
	Oct-94	NR	200	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-95	NR	200	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-95	NR	200	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-96	NR	200	ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-96	NR	200	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-97	NR	200	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-97	NR	200	ND		ND		ND		ND		ND		ND		WL		ND		WL		17		ND		WL		ND	
	Apr-98	NR	200	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-98	NR	200	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Mar-99	NR	200	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-99	NR	200	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-00	NR	200	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-00	NR	200	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-01	NR	200	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-01	NR	200	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-02	NR	200	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-02	NR	200	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-03	NR	200	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-03	NR	200	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	15-Apr-04	NR	200	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	14-Oct-04	NR	200	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	05-Apr-05	NR	200	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Oct-05	NR	200	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	21-Apr-06	NR	200	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	12-Oct-06	NR	200	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	10-Oct-07	0.20	10.0	1.1	B	0.6	B	0.9	B	0.8	B	WL		0.7	B	WL		0.7	B	WL		0.3	B	1.0	B	WL		0.4	J
NC 2L = 1,000 µg/L (10/23/07)	03-Apr-08	0.05	10.0	0.7	B	0.5	B	0.2	B	0.5	B	WL		1.6	J	WL		1.1	J	WL		0.3	B	0.8	B	WL		0.2	J
	28-Oct-08	0.05	10.0	1.6	B	2.2	J	1.1	B	2.6	J	WL		1.9	B	WL		1.9	B	WL		1.2	B	2.3	J	WL		0.4	J
	08-Apr-09	0.04	10.0	2.3	J	1.7	J	0.6	J	1.1	J	WL		1.3	J	WL		1.5	J	WL		0.9	J	1.7	J	WL		0.1	J
	27-Oct-09	0.04	10.0	2.4	J	1.9	J	1.4	J	3.1	J	WL		2.3	J	WL		3.7	J	WL		1.3	J	5.4	J	WL		0.1	J
	08-Apr-10	0.03	10.0	1.8	J	2.8	J	1.7	J	2.0	J	WL		0.9	B	WL		1.9	J	WL		3.5	J	2.1	J	WL		0.2	J
	13-Oct-10	0.03	10.0	3.7	J	1.1	J	1.1	J	1.1	J	WL		0.9	B	WL		1.5	J	WL		0.8	B	1.3	J	WL		0.2	J
	27-Apr-11	0.02	10.0	2.5	B	1.2	B	0.58	B	1.6	B	WL		0.51	B	WL		1.7	B	WL		1.4	B	1.2	B	WL		0.66	J
Lead	Jul-93	NR	5	34		67		ND		7		ND		ND		ND		ND		8		28		ND		13		ND	
	Aug-93	NR	5	33		21		ND		15		ND		17		ND		ND		ND		ND		12		7		ND	
	Sep-93	NR	5	17		ND		ND		13		102		ND		ND		ND		ND		ND		5		ND		ND	
	Sep-93	NR	5	ND		16		ND		10		5		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-94	NR	5	ND		12		47		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-94	NR	10	ND		13		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-95	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-95	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-96	NR	10	ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-96	NR	10	ND		ND		ND		ND		ND		ND		WL		14		WL		ND		ND		WL		ND	
	Apr-97	NR	10	10		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-97	NR	10	15		ND		ND		20		ND		ND		WL		41		WL		ND		33		WL		ND	
	Apr-98	NR	10	17		ND		ND		ND		WL		22		WL		20		WL		ND		ND		WL		ND	
	Oct-98	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Mar-99	NR	10	ND		ND		ND		ND		WL		ND		WL		12		WL		ND		ND		WL		ND	
	Oct-99	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-00	NR	10	11		23		ND		ND		WL		18		WL		20		WL		10		15		WL		ND	
	Oct-00	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-01	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-01	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-02	NR	10	ND		ND		ND		ND		WL		ND		WL		14		WL		ND		ND		WL		ND	
	Oct-02	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-03	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-03	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	15-Apr-04	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	14-Oct-04	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	05-Apr-05	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Oct-05	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	21-Apr-06	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	12-Oct-06	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	10-Oct-07	0.07	10.0	1.6	J	1.0	J	0.1	B	0.8	J	WL		1.0	J	WL		0.6	J	WL		0.1	B	1.8	J	WL		0.1	J
NC 2L = 15 µg/L (10/23/07)	03-Apr-08	0.04	10.0	0.8	J	0.6	J	0.2	J	1.1	J	WL		13		WL		5.0	J	WL		0.2	J	2.1	J	WL		ND	
	28-Oct-08	0.04	10.0	2.5	J	4	J	0.6	J	8.5	J	WL		11		WL		9.5	J	WL		1	J	12		WL		0.1	J
	08-Apr-09	0.04	10.0	4.4	J	1.6	J	0.3	B	3.0	J	WL		5.2	J	WL		6.2	J	WL		0.8	J	9.7	J	WL		0.1	J
	27-Oct-09	0.04	10.0	6.4	J	3.2	J	0.5	J	3.9	J	WL		3.3	J	WL		5.0	J	WL		0.9	J	9.7	J	WL		ND	
	08-Apr-10	0.01	10.0	5.1	J	1.8	J	0.4	B	4.4	J	WL		2.2	J	WL		4.3	J	WL		1.4	J	8.2	J	WL		0.1	J
	13-Oct-10	0.01	10.0	1.4	J	1.7	J	0.6	J	2.2	J	WL		2.1	J	WL		5.7	J	WL		0.6	J	7.5	J	WL		0.1	J
	27-Apr-11	0.02	10.0	4.9	J	1.4	J	0.30	J	3.6	J	WL		1.7	J	WL		5.2	J	WL		0.77	J	3.3	J	WL		ND	

TABLE 10
SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS
LEACHATE STORAGE LAGOON AREA

Constituent	Date	Concentrations (µg/L)																											
		DL	RL	Background		Downgradient																						Blanks	
				LST-5S		LST-1S		LST-1D		LST-2S		LST-2D		LST-3S		LST-3D		LST-4S		LST-4D		LST-5D		LST-6S		LST-6D			
Nickel	Jul-93	NR	10	35		52		36		18		28		63		17		253		47		ND		23		80		ND	
	Aug-93	NR	10	39	B	46		21		41	B	44	B	103		38	B	164		39	B	37	B	26	B	40	B	11	
	Sep-93	NR	10	20	B	23		51		23	B	240		89		20	B	212		15	B	20	B	12	B	15	B	17	
	Sep-93	NR	10	19		ND		ND		12		15		60		16		194		14		13		49		17		ND	
	Apr-94	NR	10	30	B	45		ND		26	B	32	B	87	B	19	B	44	B	45	B	50		17	B	39	B	20	
	Oct-94	NR	50	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-95	NR	50	ND		ND		ND		ND		ND		61		ND		ND		ND		ND		ND		ND		ND	
	Oct-95	NR	50	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-96	NR	50	ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-96	NR	50	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-97	NR	50	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-97	NR	50	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-98	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-98	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Mar-99	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-99	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-00	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-00	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-01	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-01	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-02	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-02	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-03	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-03	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	15-Apr-04	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	14-Oct-04	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	05-Apr-05	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Oct-05	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	21-Apr-06	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	12-Oct-06	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	26-Apr-07	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	10-Oct-07	0.66	50.0	1.6	J	1.2	J	1.9	J	1.3	J	WL		7.4	J	WL		25.5	J	WL		2.2	J	1	J	WL		ND	
NC 2L = 100 µg/L (10/23/07)	03-Apr-08	0.06	50.0	2.1	J	0.6	B	2.4	J	0.5	B	WL		3.5	J	WL		2.5	J	WL		3.4	J	1.0	B	WL		0.3	J
	28-Oct-08	0.06	50.0	1.4	B	1.4	B	3.3	J	1.5	B	WL		8	J	WL		2.7	J	WL		3.3	J	1.9	J	WL		0.3	J
	08-Apr-09	0.04	50.0	1.8	J	1.0	J	2.5	J	1.1	J	WL		3.5	J	WL		2.6	J	WL		2.9	J	1.7	J	WL		ND	
	27-Oct-09	0.04	50.0	2	J	1.4	J	1.7	J	1.4	J	WL		7.6	J	WL		3.4	J	WL		2.3	J	3.0	J	WL		0.2	J
	08-Apr-10	0.05	50.0	1.1	J	0.8	J	1.5	J	0.8	J	WL		3.0	J	WL		1.7	J	WL		2	J	1.0	J	WL		ND	
	13-Oct-10	0.05	50.0	11	J	2	J	3.4	J	1	J	WL		6.8	J	WL		3.1	J	WL		3.7	J	1.2	J	WL		0.1	J
	27-Apr-11	0.04	50.0	2.3	J	0.72	B	1.4	B	1.0	B	WL		3.9	J	WL		2.2	J	WL		1.9	J	0.98	B	WL		0.30	J
Selenium	Jul-93	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		ND		49		ND		ND		ND	
	Aug-93	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Sep-93	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Sep-93	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-94	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-94	NR	20	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-95	NR	20	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-95	NR	20	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-96	NR	20	ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-96	NR	20	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-97	NR	20	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-97	NR	20	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-98	NR	20	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-98	NR	20	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Mar-99	NR	20	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-99	NR	20	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-00	NR	20	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-00	NR	20	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-01	NR	20	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-01	NR	20	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-02	NR	20	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-02	NR	20	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-02	NR	20	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	05-Apr-05	NR	20	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Oct-05	NR	20	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	21-Apr-06	NR	20	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	12-Oct-06	NR	20	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	10-Oct-07	0.35	10.0	1.4	B	3.4	B	1.1	B	1.4	B	WL		1.3	B	WL		1.3	B	WL		1.1	B	1.0	B	WL		0.9	J
NC 2L = 50 µg/L (10/23/07)	03-Apr-08	0.14	10.0	0.9	J	1.7	J	ND		0.2	J	WL		0.9	J	WL		ND		WL		ND		0.2	J	WL		ND	
	28-Oct-08	0.14	10.0	0.3	J	0.8	J	ND		0.3	J	WL		0.3	J	WL		0.2	J	WL		0.2	J	0.2	J	WL		ND	
	08-Apr-09	0.12	10.0	0.3	J	1.1	J	ND		0.2	J	WL		ND		WL		0.2	J	WL		0.2	J	0.3	J	WL		ND	
	27-Oct-09	0.12	10.0	0.6	J	0.9	J	0.5	J	0.5	J	WL		0.7	J	WL		0.8	J	WL		0.6	J	1.3	J	WL		ND	
NC 2L = 20 µg/L (1/1/10)	08-Apr-10	0.32	10.0	ND		1.9	J	0.4	J	ND		WL		ND		WL		ND		WL		0.3	J	ND		WL		ND	
	13-Oct-10	0.32	10.0	12		1.5	J	1.5	J	0.5	J	WL		0.6	J	WL		0.3	J	WL		3.1	J	0.4	J	WL		ND	
	27-Apr-11	0.20	10.0	1.1	J	1.1	J	ND		0.26	J	WL		ND		WL		0.42	J	WL		0.52	J	ND		WL		ND	
Silver	03-Apr-08	0.04	10.0	0.1	B	0.1	B	ND		ND		WL		0.1	B	WL		ND		WL		ND		0.1	B	WL		0.1	J
NC 2L = 17.5 µg/L (10/23/07)	28-Oct-08	0.04	10.0	ND		0.1	J	ND		ND		WL		0.1	J	WL		0.1	J	WL		0.1	J	0.1	J	WL		ND	
	08-Apr-09	0.04	10.0	ND		ND		0.1	J	0.1	J	WL		ND		WL		ND		WL		0.1	J	ND		WL		ND	
	27-Oct-09	0.04	10.0	ND		0.1	J	0.1	J	ND		WL		ND		WL		0.1	J	WL		0.1	J	0.2	J	WL		ND	
NC 2L = 20 µg/L (1/1/10)	08-Apr-10	0.03	10.0	ND		ND		ND		ND		WL		ND		WL		0.1	B	WL		0.1	B	0.5	B	WL		0.1	J
	13-Oct-10	0.03	10.0	ND		ND		ND		ND		WL		0.1	J	WL		ND		WL		ND		ND		WL		ND	
	27-Apr-11	0.02	10.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
Thallium	10-Oct-07	0.07	5.0	ND		0.2	J	0.2	J	0.1	J	WL		ND		WL		ND		WL		ND		ND		WL		ND	
GWPS = 0.28 µg/L (10/23/07)	03-Apr-08	0.04	5.0	0.2	J	0.1	J	ND		0.1	J	WL		0.1	J	WL		0.1	J	WL		0.1	J	0.1	J	WL		ND	
	28-Oct-08	0.04	5.0	0.1	J	0.1	J	ND		0.1	J	WL		0.1	J	WL		0.1	J	WL		ND		0.2	J	WL		ND	
	08-Apr-09	0.03	5.0	0.1	J	0.1	J	0.1	J	0.1	J	WL		0.1	J	WL		0.1	J	WL		ND		0.1	J	WL		ND	
	27-Oct-09	0.03	5.0	0.1	J	0.1	J	ND		ND		WL		ND		WL		0.1	J	WL		ND		0.3	J	WL		ND	
	08-Apr-10	0.05	5.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
GWPS = 0.2 µg/L (10/1/10)	13-Oct-10	0.05	5.5	0.1	J	ND		ND		ND		WL		0.1	J	WL		0.1	J	WL		ND		0.1	J	WL		ND	
	27-Apr-11	0.02	5.5	0.10	B	0.18	J	0.27	J	0.12	B	WL		0.04	B	WL		0.10	B	WL		ND		0.08	B	WL		0.03	J
Vanadium	Jul-93	NR	2,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Aug-93	NR	2,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Sep-93	NR	2,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Sep-93	NR	2,000	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-94	NR	40	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-94	NR	40	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-95	NR	40	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-95	NR	40	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-96	NR	40	ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-96	NR	40	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-97	NR	40	ND		ND		ND		ND		ND		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-97	NR	40	ND		ND		ND		ND		ND		ND		WL		50		WL		ND		48		WL		ND	
	Apr-98	NR	40	43		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-98	NR	40	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Mar-99	NR	40	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-99	NR	40	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-00	NR	40	40		ND		ND		ND		WL		ND		WL		64		WL		ND		50		WL		ND	
	Oct-00	NR	40	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-01	NR	40	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-01	NR	40	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-02	NR	40	ND		ND		ND		ND		WL		ND		WL		55		WL		ND		ND		WL		ND	
	Oct-02	NR	40	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-03	NR	40	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-03	NR	40	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	15-Apr-04	NR	40	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	14-Oct-04	NR	40	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	05-Apr-05	NR	40	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Oct-05	NR	40	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	21-Apr-06	NR	40	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	12-Oct-06	NR	40	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	26-Apr-07	NR	25	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	10-Oct-07	0.42	25.0	4.0	J	0.5	J	ND		1.3	J	WL		0.9	J	WL		3.2	J	WL		ND		3.1	J	WL		ND	
GWPS = 3.5 µg/L (10/23/07)	03-Apr-08	0.07	25.0	2.0	J	0.8	J	0.6	J	2.4	J	WL		2.5	J	WL		9.5	J	WL		0.8	J	4.6	J	WL		ND	
	28-Oct-08	0.07	25.0	6.5	J	6.9	J	1.6	J	11.7	J	WL		4.5	J	WL		10.3	J	WL		2	J	14.8	J	WL		0.2	J
	08-Apr-09	0.28	25.0	12.6	J	4.6	J	2.3	J	6.4	J	WL		5.3	J	WL		10.0	J	WL		2.9	J	14.5	J	WL		ND	
	27-Oct-09	0.28	25.0	14.3	J	6.9	J	2.3	J	7.3	J	WL		3.3	J	WL		17.4	J	WL		2.2	J	17.1	J	WL		0.4	J
	08-Apr-10	0.03	25.0	10.4	J	3.0	J	1.0	B	6.3	J	WL		2.2	J	WL		6.9	J	WL		1.5	B	11.5	J	WL		0.4	J
GWPS = 0.3 µg/L (10/1/10)	13-Oct-10	0.03	25.0	3.6	J	2.1	B	1.9	B	3.5	J	WL		2.7	B	WL		9	J	WL		1.6	B	10.4	J	WL		0.6	J
	27-Apr-11	0.14	25.0	10.2	J	2.1	J	0.66	J	5.3	J	WL		1.6	J	WL		7.8	J	WL		1.4	J	5.9	J	WL		ND	

TABLE 10
SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS
LEACHATE STORAGE LAGOON AREA

Constituent	Date	Concentrations (µg/L)																													
		DL	RL	Background		Downgradient																								Blanks	
				LST-5S		LST-1S		LST-1D		LST-2S		LST-2D		LST-3S		LST-3D		LST-4S		LST-4D		LST-5D		LST-6S		LST-6D			
Zinc	Jul-93	NR	10	71		102		26		24	B	26	B	132		30	B	797		54		84		36	B	257		10	
	Aug-93	NR	10	45		36		17		31		20		182		67		294		20		23		43		116		ND	
	Sep-93	NR	10	13		12		30		23		660		135		22		404		10		ND		19		33		ND	
	Sep-93	NR	10	43		37		25		42		63		130		36		555		18		14		19		29		ND	
	Apr-94	NR	10	42	B	78		50		40	B	33	B	176		32	B	90	B	27	B	32	B	64	B	40	B	20	
	Oct-94	NR	50	800		ND		ND		ND		ND		88		ND		69		ND		ND		ND		ND		ND	
	Apr-95	NR	50	ND		ND		ND		ND		ND		128		ND		ND		ND		ND		ND		ND		ND	
	Oct-95	NR	50	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Apr-96	NR	50	ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND		ND		ND	
	Oct-96	NR	50	ND		ND		ND		ND		ND		ND		WL		67		WL		ND		ND		WL		ND	
	Apr-97	NR	50	ND		ND		ND		ND		ND		ND		WL		51		WL		ND		ND		WL		ND	
	Oct-97	NR	50	91		ND		ND		ND		ND		ND		WL		129		WL		ND		ND		WL		ND	
	Apr-98	NR	50	ND		ND		ND		ND		WL		ND		WL		62		WL		ND		ND		WL		ND	
	Oct-98	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Mar-99	NR	50	54		ND		ND		ND		WL		ND		WL		60		WL		ND		ND		WL		ND	
	Oct-99	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-00	NR	50	161		ND		ND		ND		WL		52		WL		67		WL		ND		ND		WL		ND	
	Oct-00	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-01	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Oct-01	NR	50	62		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-02	NR	50	105		ND		ND		ND		WL		ND		WL		77		WL		ND		ND		WL		ND	
	Oct-02	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	Apr-03	NR	50	82		ND		ND		ND		WL		ND		WL		ND		WL		ND		148		WL		ND	
	Oct-03	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	15-Apr-04	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	14-Oct-04	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	05-Apr-05	NR	50	55		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Oct-05	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	21-Apr-06	NR	50	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	16-Oct-06	NR	50	ND		ND		ND		ND		WL		68		WL		ND		WL		ND		ND		WL		ND	
	26-Apr-07	NR	10	22		ND		ND		ND		WL		17		WL		ND		WL		ND		11		WL		ND	
	10-Oct-07	0.20	10.0	17	B	3.8	B	4.9	B	7.7	B	WL		30	B	WL		53		WL		1.8	B	7.7	B	WL		6.6	J
NC 2L = 1,050 µg/L (10/23/07)	03-Apr-08	0.04	10.0	25	B	3.1	B	1.3	B	3.5	B	WL		24	B	WL		13	B	WL		4.4	B	15	B	WL		6.3	J
	28-Oct-08	0.04	10.0	18		8	J	6	J	11		WL		35		WL		15		WL		7.5	J	144		WL		0.9	J
	08-Apr-09	0.14	10.0	29		7.4	J	3.7	B	8.0	J	WL		22		WL		15		WL		6.6	J	107		WL		0.8	J
	27-Oct-09	0.14	10.0	21		17		5.4	B	9.2	J	WL		28		WL		22		WL		7.5	J	68		WL		1.4	J
NC 2L = 1,000 µg/L (1/1/10)	08-Apr-10	0.08	10.0	25		12		7.8	J	9.0	J	WL		26		WL		11		WL		8.7	J	78		WL		0.7	J
	13-Oct-10	0.08	10.0	39		5.1	B	8.1	B	5.2	B	WL		44		WL		14	B	WL		4.7	B	62		WL		4.1	J
	27-Apr-11	0.24	10.0	20		4.0	B	2.4	B	5.2	B	WL		28		WL		12		WL		5.3	B	24		WL		1.1	J
2-Butanone	10-Oct-07	0.85	100.0	3.90	J	4.60	J	4.00	J	3.70	J	WL		3.80	J	WL		4.50	J	WL		4.10	J	2.90	J	WL		ND	
NC 2L = 4,200 µg/L (10/23/07) Resample	04-Dec-07	0.96	5.0	ND		ND		ND		ND		NS		ND		NS		ND		NS		ND		ND		NS		ND	
	03-Apr-08	0.85	100.0	ND		ND		0.90	J	ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
Resample	15-May-08	0.96	100	NS		NS		ND		NS		NS		NS		NS		NS		NS		NS		NS		NS		ND	
	28-Oct-08	0.85	100.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	08-Apr-09	0.85	100.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Oct-09	2.21	100.0	2.60	J	ND		2.40	J	2.80	J	WL		3.20	J	WL		2.40	J	WL		ND		2.50	J	WL		ND	
NC 2L = 4,000 µg/L (1/1/10)	08-Apr-10	2.21	100.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	13-Oct-10	2.21	100.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Apr-11	2.21	100.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
Acetone	10-Oct-07	1.21	100.0	3.20	J	3.50	J	3.10	J	3.30	J	WL		2.90	J	WL		3.40	J	WL		3.50	J	2.50	J	WL		ND	
NC 2L = 700 µg/L (10/23/07) Resample	04-Dec-07	2.20	25.0	ND		ND		ND		ND		NS		ND		NS		ND		NS		ND		ND		NS		4.6	J
	02-Apr-08	1.21	100.0	2.20	B	2.40	B	1.60	B	2.00	B	WL		1.90	B	WL		2.30	B	WL		2.00	B	2.20	B	WL		1.60	J
	28-Oct-08	1.21	100.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	08-Apr-09	1.21	100.0	ND		ND		ND		1.30	J	WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Oct-09	9.06	100.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
NC 2L = 6,000 µg/L (1/1/10)	08-Apr-10	9.06	100.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	13-Oct-10	9.06	100.0	ND		ND		41.90	J	10.70	J	WL		ND		WL		ND		WL		42.60	J	ND		WL		ND	
	27-Apr-11	9.06	100.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
Benzene	13-Oct-10	0.24	1.0	0.30	J	ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
NC 2L = 1 µg/L (1/1/10)	27-Apr-11	0.24	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
Bromomethane	10-Oct-07	0.26	10.0	ND		0.30	J	ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
NC 2L = NE (10/23/07) Resample	04-Dec-07	0.29	5.0	NS		ND		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		ND	
	02-Apr-08	0.26	10.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	28-Oct-08	0.26	10.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	08-Apr-09	0.26	10.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Oct-09	0.67	10.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	08-Apr-10	0.67	10.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
GWPS = 10 (8/1/10)	13-Oct-10	0.67	10.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Apr-11	0.67	10.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
Bromodichloromethane	03-Apr-08	0.13	10.0	1.40	J	ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
NC 2L = 0.56 µg/L (10/23/07) Resample	04-Jun-08	0.13	10.0	ND		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		ND	
	28-Oct-08	0.13	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	08-Apr-09	0.13	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Oct-09	0.21	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
NC 2L = 0.6 µg/L (1/1/10)	08-Apr-10	0.21	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	13-Oct-10	0.21	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Apr-11	0.21	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
Chloromethane	10-Oct-07	0.18	1.0	ND		1.00		0.80	J	0.70	J	WL		0.90	J	WL		0.90	J	WL		0.70	J	0.60	J	WL		ND	
NC 2L = 2.6 µg/L (10/23/07) Resample	04-Dec-07	0.11	1.0	NS		ND		ND		ND		NS		ND		NS		ND		NS		ND		ND		NS		ND	
	03-Apr-08	0.18	1.0	ND		ND		ND		ND		WL		ND		WL		0.20	J	WL		ND		ND		WL		ND	
Resample	15-May-08	0.11	1.0	NS		NS		NS		NS		NS		NS		NS		ND		NS		NS		NS		NS		ND	
	28-Oct-08	0.18	1.0	ND		ND		ND		ND		WL		ND		WL		0.20	J	WL		ND		ND		WL		ND	
	08-Apr-09	0.18	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Oct-09	0.77	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
NC 2L = 3 µg/L (1/1/10)	08-Apr-10	0.77	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	13-Oct-10	0.77	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Apr-11	0.77	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
Methylene Chloride	10-Oct-07	0.14	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		0.20	J
NC 2L = 4.6 µg/L (10/23/07)	03-Apr-08	0.14	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	28-Oct-08	0.14	1.0	ND		0.30	J	ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	08-Apr-09	0.14	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Oct-09	0.64	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
NC 2L = 5 µg/L (1/1/10)	08-Apr-10	0.64	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	13-Oct-10	0.64	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	
	27-Apr-11	0.64	1.0	ND		ND		ND		ND		WL		ND		WL		ND		WL		ND		ND		WL		ND	

Notes:
1. All concentrations are in µg/L.
2. LST = Leachate storage tank monitoring well.
3. RL = Laboratory reporting limit (NC SWSL or lower from October 2007 to present).
4. ND = Not detected above laboratory reporting limit.
5. B = Blank-qualified data; result is expected to be biased high based on concentrations in the blanks.
6. NC 2L = North Carolina 2L Groundwater Standards.
7. GWPS = Groundwater Protection Standards.
8. When the NC 2L has not been established, the GWPS will be used.
9. Shaded values are above the NC 2L Groundwater Standards or Groundwater Protection Standards.
10. NE = Not established.
11. DL = Laboratory detection limit.
12. J = Estimated value between the DL and the RL.
13. NS = Not sampled and/or no water level measurements taken.
14. NR = Not Reported.
15. WL = May be monitored for water levels only.
16. NA = Data not available.

TABLE 11
SUMMARY OF FIELD PARAMETERS
LEACHATE STORAGE LAGOON AREA

Field Parameters	Date	Background	Downgradient										
		LST-5S	LST-1S	LST-1D	LST-2S	LST-2D	LST-3S	LST-3D	LST-4S	LST-4D	LST-5D	LST-6S	LST-6D
Conductivity	Jul-93	110	80	490	73	460	190	430	390	650	560	60	480
[uMhos]	Aug-93	140	110	400	81	400	210	360	280	520	500	62	270
	Sep-93	100	96	440	60	NA	210	330	270	460	680	86	380
	Sep-93	110	85	400	69	380	210	320	280	460	460	81	350
	Apr-94	120	84	470	60	480	230	400	11	430	530	97	480
	Oct-94	110	83	450	72	440	150	340	120	310	700	89	660
	Apr-95	120	77	460	54	460	250	360	120	320	480	56	490
	Oct-95	120	87	470	54	470	93	320	80	290	510	75	NA
	Apr-96	120	73	460	54	450	61	370	91	340	490	60	470
	Oct-96	120	63	380	52	WL	56	WL	98	WL	410	52	WL
	Apr-97	140	65	500	72	WL	90	WL	110	WL	490	55	WL
	Oct-97	120	61	440	72	WL	66	WL	110	WL	460	73	WL
	Apr-98	NA	60	60	84	WL	49	WL	NA	WL	500	40	WL
	Oct-98	130	64	440	77	WL	78	WL	78	WL	420	87	WL
	Mar-99	160	62	480	75	WL	46	WL	81	WL	500	46	WL
	Oct-99	210	56	450	77	WL	32	WL	49	WL	460	46	WL
	Apr-00	160	53	440	66	WL	62	WL	81	WL	460	34	WL
	Oct-00	160	53	460	68	WL	53	WL	83	WL	470	83	WL
	Apr-01	140	49	430	66	WL	NA	WL	71	WL	450	59	WL
	Oct-01	130	51	450	70	WL	49	WL	61	WL	NA	62	WL
	Apr-02	160	59	420	62	WL	52	WL	79	WL	430	38	WL
	Oct-02	38	71	296	65	WL	64	WL	11	WL	35	60	WL
	Apr-03	272	65	466	80	WL	81	WL	72	WL	484	70	WL
	Oct-03	196	73	449	95	WL	114	WL	77	WL	479	52	WL
	15-Apr-04	150	58	330	54	WL	41	WL	40	WL	340	48	WL
	14-Oct-04	126	73	436	87	WL	50	WL	55	WL	464	49	WL
	05-Apr-05	148	538	81	91	WL	65	WL	61	WL	561	40	WL
	27-Oct-05	212	81	468	88	WL	72	WL	49	WL	485	60	WL
	21-Apr-06	150	96	508	100	WL	77	WL	76	WL	525	42	WL
	12-Oct-06	134	87	489	94	WL	48	WL	52	WL	489	50	WL
	26-Apr-07	176	93	488	95	WL	47	WL	64	WL	509	43	WL
	10-Oct-07	190	95	494	100	WL	90	WL	199	WL	531	40	WL
Resample	04-Dec-07	229	89.8	54.5	103.0	NS	333	NS	163.5	NS	619	46.5	NS
	03-Apr-08	271	86	476	85	WL	130	WL	46	WL	518	44	WL
Resample	15-May-08	NS	NS	442	NS	NS	NS	NS	68.7	NS	NS	NS	NS
Resample	04-Jun-08	222	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	28-Oct-08	185	69	475	84	WL	117	WL	44	WL	553	46	WL
	08-Apr-09	217	75	473	91	WL	77	WL	69	WL	560	47	WL
	27-Oct-09	148	68	472	88	WL	123	WL	38	WL	558	39	WL
	08-Apr-10	232	76	487	96	WL	65	WL	53	WL	587	50	WL
	13-Oct-10	1413	65	499	75	WL	104	WL	50	WL	608	53	WL
	27-Apr-11	390	74	494	76	WL	78	WL	44	WL	603	46	WL
pH	Jun-93	5.5	5.1	6.4	4.9	6.1	5.3	6.4	4.4	6.2	6.1	5.5	6.9
[units]	Aug-93	6.1	5.8	6.5	5.9	6.4	5.7	6.5	4.5	6.4	6.9	5.7	6.8
	Sep-93	6.0	5.4	6.6	5.8	NA	5.9	6.9	4.6	6.3	6.6	5.5	6.4
	Sep-93	6.4	6.1	6.5	6.1	6.3	5.4	6.4	4.5	6.2	6.6	6.0	6.5
	Apr-94	6.3	6.0	6.4	5.9	6.5	5.1	6.3	5.1	6.2	6.4	5.6	6.4
	Oct-94	5.4	5.0	6.6	5.2	6.6	4.2	6.5	4.2	6.3	6.6	4.9	6.6
	Apr-95	6.0	6.2	6.0	6.4	6.2	5.3	6.0	5.3	6.0	6.5	6.5	6.4
	Oct-95	5.2	5.0	7.0	5.2	5.2	4.6	6.8	4.5	6.5	6.8	4.8	6.9
	Apr-96	5.6	5.0	6.3	5.9	6.6	5.4	6.5	4.7	6.2	6.5	5.8	6.6
	Oct-96	5.7	4.7	5.6	5.1	WL	4.6	WL	4.4	WL	5.8	4.8	WL
	Apr-97	5.7	5.3	6.1	5.2	WL	5.0	WL	5.2	WL	6.4	5.7	WL
	Oct-97	5.1	5.8	6.1	6.9	WL	4.9	WL	4.7	WL	5.8	4.7	WL
	Apr-98	NA	4.8	4.8	4.8	WL	4.6	WL	NA	WL	7.0	4.7	WL
	Oct-98	6.2	4.9	6.5	NA	WL	4.1	WL	4.9	WL	6.9	4.8	WL
	Mar-99	5.8	5.0	6.6	5.0	WL	4.5	WL	4.8	WL	6.8	4.9	WL
	Oct-99	5.8	5.0	6.8	4.8	WL	4.6	WL	4.6	WL	6.8	5.0	WL
	Apr-00	5.6	5.2	6.4	5.0	WL	5.4	WL	5.4	WL	6.5	5.0	WL
	Oct-00	5.2	4.8	6.6	4.8	WL	4.4	WL	4.1	WL	6.7	4.5	WL
	Apr-02	5.2	4.7	6.3	4.7	WL	4.9	WL	4.4	WL	6.5	4.6	WL
	Oct-02	5.2	5.0	6.0	5.2	WL	4.7	WL	4.4	WL	6.8	4.8	WL
	Apr-02	6.1	5.0	6.5	5.0	WL	4.7	WL	4.8	WL	6.7	4.9	WL
	Oct-02	5.9	5.1	7.0	5.0	WL	4.6	WL	4.7	WL	7.0	4.8	WL
	Apr-03	6.1	5.0	6.9	5.0	WL	4.5	WL	4.4	WL	6.9	4.8	WL
	Oct-03	6.4	4.6	6.7	4.4	WL	3.4	WL	3.9	WL	6.7	4.4	WL
	15-Apr-04	6.6	6.0	7.2	5.6	WL	5.4	WL	5.2	WL	7.0	5.6	WL
	14-Oct-04	6.7	4.7	6.7	4.8	WL	4.7	WL	4.5	WL	6.8	5.1	WL
	05-Apr-05	6.5	7.0	5.0	5.3	WL	4.9	WL	4.6	WL	6.9	4.9	WL
	27-Oct-05	6.5	4.8	6.8	4.9	WL	4.3	WL	4.6	WL	6.9	4.8	WL
	21-Apr-06	6.6	4.8	7.0	4.9	WL	4.5	WL	5.1	WL	7.0	5.1	WL
	12-Oct-06	6.5	4.8	7.0	4.8	WL	4.7	WL	5.0	WL	6.9	5.0	WL
	26-Apr-07	6.7	4.8	7.1	4.9	WL	4.8	WL	5.3	WL	7.0	5.0	WL
	10-Oct-07	6.1	4.8	7.1	5.0	WL	4.5	WL	4.6	WL	7.0	4.9	WL
Resample	04-Dec-07	7.13	5.81	6.88	5.30	NS	3.97	NS	4.05	NS	7.12	4.95	NS
	03-Apr-08	6.1	4.9	6.8	5.2	WL	5.5	WL	6.3	WL	6.9	5.2	WL
Resample	15-May-08	NS	NS	6.72	NS	NS	NS	NS	7.39	NS	NS	NS	NS
Resample	04-Jun-08	6.13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	28-Oct-08	6.0	4.9	6.5	5.2	WL	4.7	WL	4.7	WL	6.8	5.4	WL
	08-Apr-09	6.1	4.8	6.7	4.9	WL	4.6	WL	5.0	WL	6.7	6.4	WL
	27-Oct-09	6.3	4.7	6.7	4.7	WL	4.4	WL	4.5	WL	6.7	5.1	WL
	08-Apr-10	6.2	4.8	6.9	4.8	WL	4.4	WL	4.4	WL	6.8	5.2	WL
	13-Oct-10	6.1	4.8	6.6	5.0	WL	4.6	WL	4.8	WL	6.6	5.4	WL
	27-Apr-11	6.2	4.9	6.9	5.1	WL	4.7	WL	5.1	WL	7.2	5.4	WL
Temperature	Jun-93	23	25	21	26	22	27	19	23	20	18	23	24
[^{o}C]	Aug-93	25	24	21	25	24	24	19	22	20	20	24	19
	Sep-93	24	25	19	25	NA	24	21	24	20	20	24	21
	Sep-93	24	25	21	25	21	24	20	24	21	21	25	21
	Apr-94	18	17	17	19	18	18	18	18	17	17	18	18
	Oct-94	21	20	19	21	20	21	19	21	16	19	20	19
	Apr-95	17	16	16	17	16	15	16	15	20	16	16	17
	Oct-95	23	23	20	23	20	22	20	22	13	20	21	20
	Apr-96	13	12	14	13	14	12	13	12	WL	14	12	14
	Oct-96	21	20	20	21	WL	22	WL	21	WL	21	22	WL
	Apr-97	15	14	15	14	WL	13	WL	13	WL	16	13	WL
	Oct-97	21	20	17	21	WL	20	WL	19	WL	17	18	WL
	Apr-98	NA	15	15	15	WL	15	WL	NA	WL	17	15	WL
	Oct-98	21	20	18	21	WL	18	WL	19	WL	19	20	WL
	Mar-99	15	13	16	13	WL	13	WL	15	WL	18	15	WL
	Oct-99	21	20	20	21	WL	20	WL	20	WL	20	19	WL
	Apr-00	15	15	17	15	WL	15	WL	14	WL	19	14	WL
	Oct-00	20	19	20	20	WL	19	WL	19	WL	20	20	WL
	Apr-02	16	15	15	16	WL	15	WL	14	WL	16	15	WL
	Oct-02	21	20	20	21	WL	20	WL	20	WL	21	21	WL
	Apr-02	18	16	16	18	WL	18	WL	16	WL	16	18	WL
	Oct-02	26	24	24	27	WL	25	WL	25	WL	22	21	WL
	Apr-03	16	15	15	15	WL	15	WL	15	WL	16	15	WL
	Oct-03	20	20	18	20	WL	19	WL	20	WL	20	20	WL
	15-Apr-04	13	13	13	14	WL	12	WL	14	WL	13	13	WL
	14-Oct-04	22	21	21	21	WL	21	WL	21	WL	21	21	WL
	05-Apr-05	16	15	15	16	WL	15	WL	15	WL	16	15	WL
	27-Oct-05	22	21	21	21	WL	21	WL	20	WL	22	20	WL
	21-Apr-06	18	17	18	17	WL	17	WL	17	WL	18	18	WL
	12-Oct-06	23	21	19	22	WL	21	WL	21	WL	19	22	WL
	26-Apr-07	17	16	18	16	WL	16	WL	16	WL	18	17	WL
	10-Oct-07	22	22	19	22	WL	20	WL	20	WL	20	22	WL
Resample	04-Dec-07	18.5	17.1	17.2	17.3	NS	15.5	NS	16.9	NS	17.7	17.3	NS
	03-Apr-08	15	15	17	15	WL	14	WL	14	WL	18	15	WL
Resample	15-May-08	NS	NS	17.9	NS	NS	NS	NS	17.9	NS	NS	NS	NS
Resample	04-Jun-08	20.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	28-Oct-08	21	20	19	19	WL	19	WL	20	WL	20	19	WL
	08-Apr-09	14	14	16	14	WL	14	WL	14	WL	16	14	WL
	27-Oct-09	22	21	19	21	WL	20	WL	21	WL	19	21	WL
	08-Apr-10	16	16	18	16	WL	15	WL	15	WL	18	15	WL
	13-Oct-10	23	22	20	22	WL	22	WL	21	WL	20	23	WL
	27-Apr-11	17	18	18	18	WL	17	WL	17	WL	18	17	WL
Turbidity	Jun-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
[NTU]	Aug-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Sep-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Sep-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Apr-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Oct-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Apr-95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Oct-95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Apr-96	NA	NA	NA	NA	NA	NA	NA	NA	WL	NA	NA	NA
	Oct-96	NA	NA	NA	NA	WL	NA	WL	NA	WL	NA	NA	WL
	Apr-97	NA	NA	NA	NA	WL	NA	WL	NA	WL	NA	NA	WL
	Oct-97	NA	NA	NA	NA	WL	NA	WL	NA	WL	NA	NA	WL
	Apr-98	NA	NA	NA	NA	WL	NA	WL	NA	WL	NA	NA	WL
	Oct-98	150	330	170	270	WL	55	WL	360	WL	140	270	WL
	Mar-99	210	150	38	190	WL	15	WL	400	WL	75	NA	WL
	Oct-99	35	89	22	45	WL	39	WL	65	WL	18	32	WL
	Apr-00	80	110	14	110	WL	18	WL	180	WL	24	80	WL
	Oct-00	32	70	55	120	WL	12	WL	70	WL	22	28	WL
	Apr-02	26	36	24	38	WL	13	WL	27	WL	33	26	WL
	Oct-02	206	86	60	166	WL	20	WL	188	WL	51	85	WL
	Apr-02	70	27	25	130	WL	22	WL	57	WL	23	35	WL
	Oct-02	38	7.5	27	85	WL	28	WL	11	WL	35	21	WL
	Apr-03	85	33	22	55	WL	12	WL	45	WL	30	22	WL
	Oct-03	250	70	26	240	WL	16	WL	340	WL	100	36	WL
	15-Apr-04	45	250	20	270	WL	60	WL	70	WL	55	40	WL
	14-Oct-04	100	75	25	110	WL	9.3	WL	140	WL	80	95	WL
	05-Apr-05	160	32	60	220	WL	31	WL	100	WL	22	80	WL
	27-Oct-05	180	32	25	100	WL	36	WL	75	WL	27	90	WL
	21-Apr-06	14	<1.43	40	5.8	WL	1.7	WL	7.7	WL	75	45	WL
	12-Oct-06	25	12	50	<1.54	WL	310	WL	10	WL	60	70	WL
	26-Apr-07	9.6	<1.42	190	<1.42	WL	3.2	WL	3.5	WL	75	21	WL
	10-Oct-07	45	7.1	50	7.5	WL	9.5	WL	13	WL	70	40	WL
Resample	04-Dec-07	72.1	29.6	3.17	62.9	NS	91.0	NS	124	NS	19.56	885	NS
	03-Apr-08	11	14	42	23	WL	230	WL	220	WL	95	65	WL
Resample	15-May-08	NS	NS	42.9	NS	NS	NS	NS	64.3	NS	NS	NS	NS
Resample	04-Jun-08	212	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	28-Oct-08	110	90	55	230	WL	90	WL	230	WL	70	650	WL
	08-Apr-09	160	40	55	85	WL	24	WL	170	WL	75	450	WL
	27-Oct-09	450	75	65	110	WL	60	WL	300	WL	55	230	WL
	08-Apr-10	190	55	55	110	WL	45	WL	150	WL	130	370	WL
	13-Oct-10	50	30	70	65	WL	50	WL	180	WL	130	280	WL
	27-Apr-11	190	60	55	120	WL	23	WL	280	WL	70	110	WL

Notes:
1. NS = Not sampled and/or no water level measurements taken.
2. WL = May be monitored for water levels only.
3. NA = Data not available.

TABLE 12
SUMMARY OF HISTORICAL SURFACE WATER CONSTITUENTS

Constituent	Date	Concentrations (µg/L)											
		DL	RL	Upstream		Downstream						Blanks	
				SWPT-1		SWPT-2		UD-1		UD-2			
Antimony	11-Oct-07	0.05	6.0	0.1	B	0.7	J	Dry		Dry		0.1	J
NC 2B = NE (5/1/2007)	03-Apr-08	0.44	6.0	0.3	B	0.4	B	0.1	B	{0.2}	J	0.1 {ND}	J
	28-Oct-08	0.44	6.0	0.2	J	0.3	J	ND		{0.1}	J	ND {ND}	
	07-Apr-09	0.06	6.0	0.1	J	0.1	J	ND		0.1	J	ND	
	27-Oct-09	0.06	6.0	0.8	J	0.2	J	ND		ND		ND	
	07-Apr-10	0.22	6.0	0.2	B	0.3	B	0.2	B	0.2	B	0.7	J
	13-Oct-10	0.22	6.0	ND		ND		ND		ND		ND	
	27-Apr-11	0.14	6.0	ND		ND		0.16	J	ND		ND	
Arsenic	Jul-93	NR	5	ND		ND		ND		NA		ND	
	Aug-93	NR	5	NA		NA		NA		NA		ND	
	Sep-93	NR	5	NA		NA		NA		NA		ND	
	Sep-93	NR	5	NA		NA		NA		NA		ND	
	Apr-94	NR	5	7		ND		ND		NA		ND	
	Oct-94	NR	10	ND		ND		ND		NA		ND	
	Apr-95	NR	10	ND		ND		ND		NA		ND	
	Oct-95	NR	10	ND		ND		ND		NA		ND	
	Apr-96	NR	10	ND		ND		ND		NA		ND	
	Oct-96	NR	10	ND		ND		ND		NA		ND	
	Apr-97	NR	10	Dry		Dry		ND		NA		ND	
	Oct-97	NR	10	Dry		Dry		ND		NA		ND	
	Apr-98	NR	10	NA		Dry		ND		NA		ND	
	Oct-98	NR	10	Dry		ND		Dry		NA		ND	
	Mar-99	NR	10	ND		ND		ND		NA		ND	
	Jul-99	NR	10	NA		NA		NA		ND		ND	
	Aug-99	NR	10	NA		NA		NA		ND		ND	
	Oct-99	NR	10	ND		ND		ND		ND		ND	
	Nov-99	NR	10	NA		NA		NA		ND		ND	
	Apr-00	NR	10	ND		ND		ND		NA		ND	
	Oct-00	NR	10	ND		ND		ND		ND		ND	
	Apr-01	NR	10	Dry		Dry		ND		NA		ND	
	Oct-01	NR	10	ND		ND		ND		ND		ND	
	Apr-02	NR	10	NA		ND		ND		ND		ND	
	Oct-02	NR	10	ND		ND		ND		ND		ND	
	Apr-03	NR	10	ND		ND		ND		ND		ND	
	Oct-03	NR	10	ND		ND		ND		15		ND	
	15-Apr-04	NR	10	ND		ND		ND		ND		ND	
	14-Oct-04	NR	10	ND		ND		ND		ND		ND	
	05-Apr-05	NR	10	ND		ND		ND		ND		ND	
	27-Oct-05	NR	10	ND		ND		ND		ND		ND	
	21-Apr-06	NR	10	ND		ND		ND		ND		ND	
	12-Oct-06	NR	10	ND		ND		ND		ND		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		ND	
NC 2B = 50 µg/L (05/01/07)	11-Oct-07	0.47	10.0	1.4	J	13		Dry		Dry		ND	
	03-Apr-08	0.57	10.0	0.8	J	14		4.0	J	{2.0}	J	ND {0.2}	J
	28-Oct-08	0.57	10.0	0.8	B	9.7	J	0.9	B	1.3	B	0.5	J
	07-Apr-09	0.17	10.0	0.7	B	1.8	J	1.7	J	0.9	B	0.2	J
	27-Oct-09	0.17	10.0	1.2	J	7.2	J	1.3	J	1.1	J	ND	
	07-Apr-10	0.04	10.0	1.2	J	3.9	J	1.0	J	1.3	J	ND	
	13-Oct-10	0.04	10.0	0.8	J	2.2	J	1.9	J	1.7	J	ND	
	27-Apr-11	0.10	10.0	0.79	J	2.6	J	0.63	J	0.55	J	ND	
Barium	Jul-93	NR	50	ND		140		71		NA		ND	
	Aug-93	NR	50	NA		NA		NA		NA		ND	
	Sep-93	NR	50	NA		NA		NA		NA		ND	
	Sep-93	NR	50	NA		NA		NA		NA		ND	
	Apr-94	NR	50	ND		ND		ND		NA		ND	
	Oct-94	NR	500	ND		ND		ND		NA		ND	
	Apr-95	NR	500	ND		ND		ND		NA		ND	
	Oct-95	NR	500	ND		ND		ND		NA		ND	
	Apr-96	NR	500	ND		ND		ND		NA		ND	
	Oct-96	NR	500	ND		ND		ND		NA		ND	
	Apr-97	NR	500	Dry		Dry		ND		NA		ND	
	Oct-97	NR	500	Dry		Dry		ND		NA		ND	
	Apr-98	NR	500	NA		Dry		ND		NA		ND	
	Oct-98	NR	500	Dry		ND		Dry		NA		ND	
	Mar-99	NR	500	ND		ND		ND		NA		ND	
	Jul-99	NR	500	NA		NA		NA		ND		ND	
	Aug-99	NR	500	NA		NA		NA		ND		ND	
	Oct-99	NR	500	ND		ND		ND		ND		ND	
	Nov-99	NR	500	NA		NA		NA		ND		ND	
	Apr-00	NR	500	ND		ND		ND		NA		ND	
	Oct-00	NR	500	ND		ND		ND		ND		ND	
	Apr-01	NR	500	Dry		Dry		ND		NA		ND	
	Oct-01	NR	500	ND		ND		ND		ND		ND	
	Apr-02	NR	500	NA		ND		ND		ND		ND	
	Oct-02	NR	500	ND		ND		ND		ND		ND	
	Apr-03	NR	500	ND		ND		ND		ND		ND	
	Oct-03	NR	500	ND		ND		ND		ND		ND	
	15-Apr-04	NR	500	ND		ND		ND		ND		ND	
	14-Oct-04	NR	500	ND		ND		ND		ND		ND	
	05-Apr-05	NR	500	ND		ND		ND		ND		ND	
	27-Oct-05	NR	500	ND		ND		ND		ND		ND	
	21-Apr-06	NR	500	ND		ND		ND		ND		ND	
	12-Oct-06	NR	500	ND		ND		ND		ND		ND	
	26-Apr-07	NR	100	ND		ND		ND		ND		ND	
NC 2B = NE (05/01/07)	11-Oct-07	0.04	100.0	47.4	J	187		Dry		Dry		0.2	J
	03-Apr-08	0.11	100.0	30.7	J	72.4	J	94.6	J	{71.1}	J	ND {0.4}	J
	28-Oct-08	0.11	100.0	30.8	J	122		36.9	J	93.6	J	0.7	J
	07-Apr-09	0.04	100.0	31.3	J	48.3	J	73.1	J	64.2	J	0.2	J
	27-Oct-09	0.04	100.0	25.5	J	106		42.9	J	102		0.1	J
	07-Apr-10	0.03	100.0	58.7	J	85.9	J	26.1	J	56.1	J	0.1	J
	13-Oct-10	0.03	100.0	14.7	J	61.4	J	62.9	J	85.3	J	0.2	J
	27-Apr-11	0.02	100.0	86.4	J	45.5	J	19.1	J	46.7	J	0.10	J
Beryllium	Jul-93	NR	1	ND		ND		ND		NA		ND	
	Aug-93	NR	1	NA		NA		NA		NA		ND	
	Sep-93	NR	1	NA		NA		NA		NA		ND	
	Sep-93	NR	1	NA		NA		NA		NA		ND	
	Apr-94	NR	1	ND		ND		64		NA		ND	
	Oct-94	NR	2	ND		ND		ND		NA		ND	
	Apr-95	NR	2	ND		ND		ND		NA		ND	
	Oct-95	NR	2	ND		ND		ND		NA		ND	
	Apr-96	NR	2	ND		ND		ND		NA		ND	
	Oct-96	NR	2	ND		ND		ND		NA		ND	
	Apr-97	NR	2	Dry		Dry		ND		NA		ND	
	Oct-97	NR	2	Dry		Dry		ND		NA		ND	
	Apr-98	NR	2	NA		Dry		ND		NA		ND	
	Oct-98	NR	2	Dry		ND		Dry		NA		ND	
	Mar-99	NR	2	ND		ND		ND		NA		ND	
	Jul-99	NR	2	NA		NA		NA		ND		ND	
	Aug-99	NR	2	NA		NA		NA		ND		ND	
	Oct-99	NR	2	ND		ND		ND		ND		ND	
	Nov-99	NR	2	NA		NA		NA		ND		ND	
	Apr-00	NR	2	ND		ND		ND		NA		ND	
	Oct-00	NR	2	ND		ND		ND		ND		ND	
	Apr-01	NR	2	Dry		Dry		ND		NA		ND	
	Oct-01	NR	2	ND		ND		ND		ND		ND	
	Apr-02	NR	2	NA		ND		ND		ND		ND	
	Oct-02	NR	2	ND		ND		ND		ND		ND	
	Apr-03	NR	2	ND		ND		ND		ND		ND	
	Oct-03	NR	2	ND		ND		ND		ND		ND	
	15-Apr-04	NR	2	ND		ND		ND		ND		ND	
	14-Oct-04	NR	2	ND		ND		ND		ND		ND	
	05-Apr-05	NR	2	ND		ND		ND		ND		ND	
	27-Oct-05	NR	2	ND		ND		ND		ND		ND	
	21-Apr-06	NR	2	ND		ND		ND		ND		ND	
	12-Oct-06	NR	2	ND		ND		ND		ND		ND	
	26-Apr-07	NR	1.0	ND		ND		ND		ND		ND	
NC 2B = 6.5 µg/L (05/01/07)	11-Oct-07	0.08	1.0	ND		0.4	J	Dry		Dry		ND	
	03-Apr-08	0.06	1.0	ND		ND		ND		ND		ND	
	28-Oct-08	0.06	1.0	ND		0.1	J	ND		ND		ND	
	07-Apr-09	0.06	1.0	ND		ND		ND		ND		ND	
	27-Oct-09	0.06	1.0	ND		0.1	J	ND		ND		ND	
	07-Apr-10	0.02	1.0	0.1	B	ND		0.1	B	0.1	B	0.1	J
	13-Oct-10	0.02	1.0	0.1	J	0.1	J	0.1	J	0.1	J	ND	
	27-Apr-11	0.02	1.0	ND		ND		ND		ND		ND	

TABLE 12
SUMMARY OF HISTORICAL SURFACE WATER CONSTITUENTS

Constituent	Date	Concentrations (µg/L)											
		DL	RL	Upstream		Downstream						Blanks	
				SWPT-1		SWPT-2		UD-1		UD-2			
Cadmium	Jul-93	NR	1	ND		ND		ND		NA		ND	
	Aug-93	NR	1	NA		NA		NA		NA		ND	
	Sep-93	NR	1	NA		NA		NA		NA		ND	
	Sep-93	NR	1	NA		NA		NA		NA		ND	
	Apr-94	NR	1	ND		ND		ND		NA		ND	
	Oct-94	NR	1	ND		ND		ND		NA		ND	
	Apr-95	NR	1	ND		ND		ND		NA		ND	
	Oct-95	NR	1	ND		ND		ND		NA		ND	
	Apr-96	NR	1	ND		ND		ND		NA		ND	
	Oct-96	NR	1	ND		ND		ND		NA		ND	
	Apr-97	NR	1	Dry		Dry		ND		NA		ND	
	Oct-97	NR	1	Dry		Dry		ND		NA		ND	
	Apr-98	NR	1	NA		Dry		ND		NA		ND	
	Oct-98	NR	1	Dry		ND		Dry		NA		ND	
	Mar-99	NR	1	ND		ND		ND		NA		ND	
	Jul-99	NR	1	NA		NA		NA		ND		ND	
	Aug-99	NR	1	NA		NA		NA		ND		ND	
	Oct-99	NR	1	ND		ND		ND		ND		ND	
	Nov-99	NR	1	NA		NA		NA		ND		ND	
	Apr-00	NR	1	ND		ND		ND		NA		ND	
	Oct-00	NR	1	ND		ND		ND		ND		ND	
	Apr-01	NR	1	Dry		Dry		ND		NA		ND	
	Oct-01	NR	1	ND		ND		ND		ND		ND	
	Apr-02	NR	1	NA		ND		ND		ND		ND	
	Oct-02	NR	1	ND		ND		ND		ND		ND	
	Apr-03	NR	1	2		ND		ND		ND		ND	
	Oct-03	NR	1	ND		ND		ND		ND		ND	
	15-Apr-04	NR	1	ND		ND		ND		ND		ND	
	14-Oct-04	NR	1	ND		2		ND		ND		ND	
	05-Apr-05	NR	1	ND		ND		ND		ND		ND	
	27-Oct-05	NR	1	ND		ND		ND		ND		ND	
	21-Apr-06	NR	1	ND		ND		2 (ND)		4 (ND)		ND	
	12-Oct-06	NR	1	ND		ND		ND		ND		ND	
	26-Apr-07	NR	1.0	ND		ND		ND		ND		ND	
NC 2B = 2 µg/L (05/01/07)	11-Oct-07	0.06	1.0	0.1	B	0.2	B	Dry		Dry		0.1	J
	03-Apr-08	0.05	1.0	0.1	J	0.1	J	0.1	J	0.1	J	ND	
	28-Oct-08	0.05	1.0	0.1	J	0.3	J	ND		ND		ND	
	07-Apr-09	0.04	1.0	0.2	J	0.1	J	ND		0.1	J	ND	
	27-Oct-09	0.04	1.0	0.1	J	0.1	J	0.1	J	0.1	J	ND	
	07-Apr-10	0.02	1.0	0.1	B	0.3	B	0.1	B	0.1	B	0.1	J
	13-Oct-10	0.02	1.0	0.1	J	0.1	J	ND		0.1	J	ND	
	27-Apr-11	0.02	1.0	0.08	J	ND		0.04	J	0.04	J	ND	
Chromium	Jul-93	NR	5	ND		ND		ND		NA		ND	
	Aug-93	NR	5	NA		NA		NA		NA		ND	
	Sep-93	NR	5	NA		NA		NA		NA		ND	
	Sep-93	NR	5	NA		NA		NA		NA		ND	
	Apr-94	NR	5	ND		ND		ND		NA		ND	
	Oct-94	NR	10	ND		ND		ND		NA		ND	
	Apr-95	NR	10	ND		ND		ND		NA		ND	
	Oct-95	NR	10	ND		ND		ND		NA		ND	
	Apr-96	NR	10	ND		ND		ND		NA		ND	
	Oct-96	NR	10	ND		ND		ND		NA		ND	
	Apr-97	NR	10	Dry		Dry		ND		NA		ND	
	Oct-97	NR	10	Dry		Dry		ND		NA		ND	
	Apr-98	NR	10	NA		Dry		18		NA		ND	
	Oct-98	NR	10	Dry		ND		Dry		NA		ND	
	Mar-99	NR	10	ND		ND		ND		NA		ND	
	Jul-99	NR	10	NA		NA		NA		12		ND	
	Aug-99	NR	10	NA		NA		NA		13		ND	
	Oct-99	NR	10	ND		ND		ND		ND		ND	
	Nov-99	NR	10	NA		NA		NA		ND		ND	
	Apr-00	NR	5	ND		28		ND		NA		ND	
	Oct-00	NR	10	ND		16		ND		ND		ND	
	Apr-01	NR	10	Dry		Dry		ND		NA		ND	
	Oct-01	NR	10	ND		ND		ND		ND		ND	
	Apr-02	NR	10	NA		ND		ND		ND		ND	
	Oct-02	NR	10	ND		ND		ND		ND		ND	
	Apr-03	NR	10	ND		ND		ND		ND		ND	
	Oct-03	NR	10	ND		ND		ND		20		ND	
	15-Apr-04	NR	10	ND		ND		ND		22		ND	
	14-Oct-04	NR	10	ND		ND		ND		ND		ND	
	05-Apr-05	NR	10	ND		ND		ND		ND		ND	
	27-Oct-05	NR	10	ND		ND		ND		ND		ND	
	21-Apr-06	NR	10	ND		ND		ND		ND		ND	
	12-Oct-06	NR	10	ND		ND		ND		ND		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		ND	
NC 2B = 50 µg/L (05/01/07)	11-Oct-07	0.24	10.0	1.7	B	12		Dry		Dry		1.2	J
	03-Apr-08	0.11	10.0	1.3	J	12		0.8	J	0.5	J	ND	
	28-Oct-08	0.11	10.0	0.3	J	13		0.2	J	0.4	J	ND	
	07-Apr-09	0.10	10.0	0.3	J	1.2	J	0.5	J	ND		ND	
	27-Oct-09	0.10	10.0	0.6	J	11		0.5	J	0.5	J	ND	
	07-Apr-10	0.03	10.0	1.0	J	0.6	J	0.8	J	0.5	J	ND	
	13-Oct-10	0.03	10.0	2.5	J	1.1	J	1.3	J	0.3	J	ND	
	27-Apr-11	0.04	10.0	0.52	B	0.70	B	0.59	B	0.38	B	0.18	J
Cobalt	Jul-93	NR	20	ND		ND		28		NA		ND	
	Aug-93	NR	20	NA		NA		NA		NA		ND	
	Sep-93	NR	20	NA		NA		NA		NA		ND	
	Sep-93	NR	20	NA		NA		NA		NA		ND	
	Apr-94	NR	10	34	B	45	B	46	B	NA		18	
	Oct-94	NR	10	ND		ND		ND		NA		ND	
	Apr-95	NR	10	ND		ND		ND		NA		ND	
	Oct-95	NR	10	ND		ND		ND		NA		ND	
	Apr-96	NR	10	ND		ND		ND		NA		ND	
	Oct-96	NR	10	ND		ND		ND		NA		ND	
	Apr-97	NR	10	Dry		Dry		ND		NA		ND	
	Oct-97	NR	10	Dry		Dry		ND		NA		ND	
	Apr-98	NR	10	NA		Dry		ND		NA		ND	
	Oct-98	NR	10	Dry		ND		Dry		NA		ND	
	Mar-99	NR	10	ND		ND		ND		NA		ND	
	Jul-99	NR	10	NA		NA		NA		ND		ND	
	Aug-99	NR	10	NA		NA		NA		ND		ND	
	Oct-99	NR	10	ND		ND		ND		ND		ND	
	Nov-99	NR	10	NA		NA		NA		ND		ND	
	Apr-00	NR	10	ND		12		ND		NA		ND	
	Oct-00	NR	10	ND		ND		ND		ND		ND	
	Apr-01	NR	10	Dry		Dry		ND		NA		ND	
	Oct-01	NR	10	10		ND		ND		ND		ND	
	Apr-02	NR	10	NA		ND		ND		ND		ND	
	Oct-02	NR	10	ND		ND		ND		ND		ND	
	Apr-03	NR	10	ND		ND		ND		ND		ND	
	Oct-03	NR	10	ND		ND		ND		14		ND	
	15-Apr-04	NR	10	ND		ND		ND		ND		ND	
	14-Oct-04	NR	10	ND		ND		ND		ND		ND	
	05-Apr-05	NR	10	ND		ND		ND		ND		ND	
	27-Oct-05	NR	10	ND		ND		ND		ND		ND	
	21-Apr-06	NR	10	ND		ND		ND		ND		ND	
	12-Oct-06	NR	10	ND		ND		ND		ND		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		ND	
NC 2B = NE µg/L (05/01/07)	11-Oct-07	0.41	10.0	1.5	J	3.4	J	Dry		Dry		ND	
	03-Apr-08	0.03	10.0	0.6	J	3.2	J	3.0	J	1.0	J	ND	
	28-Oct-08	0.03	10.0	0.3	J	4.6	J	0.3	J	0.9	J	ND	
	07-Apr-09	0.02	10.0	0.7	J	2.7	J	1.7	J	0.7	J	ND	
	27-Oct-09	0.02	10.0	0.3	J	2.4	J	0.5	J	1.1	J	ND	
	07-Apr-10	0.10	10.0	1.1	J	2.3	J	0.5	J	1.0	J	ND	
	13-Oct-10	0.10	10.0	0.4	J	1.3	J	0.9	J	0.7	J	ND	
	27-Apr-11	0.03	10.0	1.7	J	1.8	J	0.20	J	0.52	J	ND	

TABLE 12
SUMMARY OF HISTORICAL SURFACE WATER CONSTITUENTS

Constituent	Date	Concentrations (µg/L)											
		DL	RL	Upstream		Downstream						Blanks	
				SWPT-1		SWPT-2		UD-1		UD-2			
Copper	Jul-93	NR	10	15	B	13	B	10	B	NA		17	
	Aug-93	NR	10	NA		NA		NA		NA		19	
	Sep-93	NR	10	NA		NA		NA		NA		11	
	Sep-93	NR	10	NA		NA		NA		NA		39	
	Apr-94	NR	10	28	B	40	B	43	B	NA		21	
	Oct-94	NR	200	ND		ND		ND		NA		ND	
	Apr-95	NR	200	ND		ND		ND		NA		ND	
	Oct-95	NR	200	ND		ND		ND		NA		ND	
	Apr-96	NR	200	ND		ND		ND		NA		ND	
	Oct-96	NR	200	ND		ND		ND		NA		ND	
	Apr-97	NR	200	Dry		Dry		ND		NA		ND	
	Oct-97	NR	200	Dry		Dry		ND		NA		ND	
	Apr-98	NR	200	NA		Dry		ND		NA		ND	
	Oct-98	NR	200	Dry		ND		Dry		NA		ND	
	Mar-99	NR	200	ND		ND		15		NA		ND	
	Jul-99	NR	200	NA		NA		NA		ND		ND	
	Aug-99	NR	200	NA		NA		NA		11		ND	
	Oct-99	NR	200	ND		ND		ND		ND		ND	
	Nov-99	NR	200	NA		NA		NA		ND		ND	
	Apr-00	NR	200	ND		ND		ND		NA		ND	
	Oct-00	NR	200	ND		ND		ND		ND		ND	
	Apr-01	NR	200	Dry		Dry		ND		NA		ND	
	Oct-01	NR	200	ND		ND		ND		ND		ND	
	Apr-02	NR	200	NA		ND		ND		ND		ND	
	Oct-02	NR	200	ND		ND		ND		ND		ND	
	Apr-03	NR	200	ND		ND		ND		ND		ND	
	Oct-03	NR	200	ND		ND		ND		ND		ND	
	15-Apr-04	NR	200	ND		ND		ND		ND		ND	
	14-Oct-04	NR	200	ND		ND		ND		ND		ND	
	05-Apr-05	NR	200	ND		ND		ND		ND		ND	
	27-Oct-05	NR	200	ND		ND		ND		ND		ND	
	21-Apr-06	NR	200	ND		ND		ND		ND		ND	
	12-Oct-06	NR	200	ND		ND		ND		ND		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		ND	
NC 2B =7 µg/L (05/01/07)	11-Oct-07	0.20	10.0	0.7	B	3.9	J	Dry		Dry		0.4	J
	03-Apr-08	0.05	10.0	1.0	B	2.8	J	1.7	J	0.7	B	0.2	J
	28-Oct-08	0.05	10.0	0.8	B	3	B	0.7	B	1.4	B	1.1	J
	07-Apr-09	0.04	10.0	0.9	J	1.2	J	1.3	J	1.0	J	0.1	J
	27-Oct-09	0.04	10.0	3.0	J	1.7	J	0.5	B	0.8	J	0.1	J
	07-Apr-10	0.03	10.0	1.8	J	1.3	J	1.2	J	0.7	B	0.2	J
	13-Oct-10	0.03	10.0	1.3	J	0.9	B	1	B	0.5	B	0.2	J
	27-Apr-11	0.02	10.0	0.81	B	0.85	B	1.2	B	1.0	B	0.66	J
Lead	Jul-93	NR	5	ND		ND		ND		NA		ND	
	Aug-93	NR	5	NA		NA		NA		NA		ND	
	Sep-93	NR	5	NA		NA		NA		NA		ND	
	Sep-93	NR	5	NA		NA		NA		NA		ND	
	Apr-94	NR	5	ND		5		ND		NA		ND	
	Oct-94	NR	10	ND		ND		ND		NA		ND	
	Apr-95	NR	10	ND		ND		ND		NA		ND	
	Oct-95	NR	10	ND		ND		ND		NA		ND	
	Apr-96	NR	10	ND		ND		ND		NA		ND	
	Oct-96	NR	10	ND		ND		ND		NA		ND	
	Apr-97	NR	10	Dry		Dry		ND		NA		ND	
	Oct-97	NR	10	Dry		Dry		ND		NA		ND	
	Apr-98	NR	10	NA		Dry		11		NA		ND	
	Oct-98	NR	10	Dry		ND		Dry		NA		ND	
	Mar-99	NR	10	ND		ND		ND		NA		ND	
	Jul-99	NR	10	NA		NA		NA		ND		ND	
	Aug-99	NR	10	NA		NA		NA		ND		ND	
	Oct-99	NR	10	ND		ND		ND		ND		ND	
	Nov-99	NR	10	NA		NA		NA		ND		ND	
	Apr-00	NR	10	ND		ND		ND		NA		ND	
	Oct-00	NR	10	ND		ND		ND		ND		ND	
	Apr-01	NR	10	Dry		Dry		ND		NA		ND	
	Oct-01	NR	10	ND		ND		ND		ND		ND	
	Apr-02	NR	10	NA		ND		ND		ND		ND	
	Oct-02	NR	10	ND		ND		ND		ND		ND	
	Apr-03	NR	10	ND		ND		ND		ND		ND	
	Oct-03	NR	10	ND		ND		ND		15		ND	
	15-Apr-04	NR	10	ND		ND		ND		12		ND	
	14-Oct-04	NR	10	ND		ND		ND		ND		ND	
	05-Apr-05	NR	10	ND		ND		ND		ND		ND	
	27-Oct-05	NR	10	ND		ND		ND		ND		ND	
	21-Apr-06	NR	10	ND		ND		ND		ND		ND	
	12-Oct-06	NR	10	ND		ND		ND		ND		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		ND	
NC 2B = 25 µg/L (05/01/07)	11-Oct-07	0.07	10.0	1.1	J	8.6	J	Dry		Dry		0.1	J
	03-Apr-08	0.32	10.0	1.0	J	0.8	J	0.3	B	0.1	B	0.1	J
	28-Oct-08	0.32	10.0	0.4	B	3.8	J	0.2	B	0.1	B	0.1	J
	07-Apr-09	0.04	10.0	0.9	J	0.1	B	0.2	B	0.1	B	0.1	J
	27-Oct-09	0.04	10.0	0.9	J	1.8	J	0.2	J	0.5	J	ND	
	07-Apr-10	0.01	10.0	0.8	J	0.3	B	0.5	B	0.3	B	0.1	J
	13-Oct-10	0.01	10.0	1.9	J	0.5	B	0.6	J	0.2	B	0.1	J
	27-Apr-11	0.02	10.0	0.32	J	0.19	J	0.43	J	0.09	J	ND	
Nickel	Jul-93	NR	10	20		20		24		NA		ND	
	Aug-93	NR	10	NA		NA		NA		NA		11	
	Sep-93	NR	10	NA		NA		NA		NA		17	
	Sep-93	NR	10	NA		NA		NA		NA		ND	
	Apr-94	NR	10	37	B	51	B	57	B	NA		20	
	Oct-94	NR	50	ND		ND		ND		NA		ND	
	Apr-95	NR	50	ND		ND		ND		NA		ND	
	Oct-95	NR	50	ND		ND		ND		NA		ND	
	Apr-96	NR	50	ND		ND		ND		NA		ND	
	Oct-96	NR	50	ND		ND		ND		NA		ND	
	Apr-97	NR	50	Dry		Dry		ND		NA		ND	
	Oct-97	NR	50	Dry		Dry		ND		NA		ND	
	Apr-98	NR	50	NA		Dry		ND		NA		ND	
	Oct-98	NR	50	Dry		ND		Dry		NA		ND	
	Mar-99	NR	50	ND		ND		ND		NA		ND	
	Jul-99	NR	50	NA		NA		NA		ND		ND	
	Aug-99	NR	50	NA		NA		NA		ND		ND	
	Oct-99	NR	50	ND		ND		ND		ND		ND	
	Nov-99	NR	50	NA		NA		NA		ND		ND	
	Apr-00	NR	50	ND		ND		ND		NA		ND	
	Oct-00	NR	50	ND		ND		ND		ND		ND	
	Apr-01	NR	50	Dry		Dry		ND		NA		ND	
	Oct-01	NR	50	ND		ND		ND		ND		ND	
	Apr-02	NR	50	NA		ND		ND		ND		ND	
	Oct-02	NR	50	ND		ND		ND		ND		ND	
	Apr-03	NR	50	ND		ND		ND		ND		ND	
	Oct-03	NR	50	ND		ND		ND		ND		ND	
	15-Apr-04	NR	50	ND		ND		ND		ND		ND	
	14-Oct-04	NR	50	ND		ND		ND		ND		ND	
	05-Apr-05	NR	50	ND		ND		ND		ND		ND	
	27-Oct-05	NR	50	ND		ND		ND		ND		ND	
	21-Apr-06	NR	50	ND		ND		ND		ND		ND	
	12-Oct-06	NR	50	ND		ND		ND		ND		ND	
	26-Apr-07	NR	50	ND		ND		ND		ND		ND	
NC 2B = 88 µg/L (05/01/07)	11-Oct-07	0.66	50.0	3.4	J	15.2	J	Dry		Dry		ND	
	03-Apr-08	0.06	50.0	5.2	J	16	J	9.6	J	8.4	J	0.3	J
	28-Oct-08	0.06	50.0	3.8	J	14.6	J	2.2	J	7	J	0.2	J
	07-Apr-09	0.04	50.0	6.9	J	11.8	J	5.7	J	6.5	J	ND	
	27-Oct-09	0.04	50.0	2.3	J	13.5	J	2.7	J	3.7	J	0.2	J
	07-Apr-10	0.05	50.0	4.3	J	4.2	J	1.8	J	3.7	J	ND	
	13-Oct-10	0.05	50.0	1.7	J	6.7	J	3.1	J	6.2	J	0.1	J
	27-Apr-11	0.04	50.0	5.1	J	6.1	J	1.5	B	4.1	J	0.30	J

TABLE 12
SUMMARY OF HISTORICAL SURFACE WATER CONSTITUENTS

Constituent	Date	Concentrations (µg/L)											
		DL	RL	Upstream		Downstream						Blanks	
				SWPT-1		SWPT-2		UD-1		UD-2			
Selenium	11-Oct-07	0.35	10.0	0.5	B	19		Dry		Dry		0.9	J
Resample	04-Dec-07	3.8	10.0	NS		ND		NS		NS		ND	
NC 2B = 5 µg/L (05/01/07)	03-Apr-08	0.51	10.0	0.5	J	7.2	J	ND		{4.5}	B	ND {1.5}	J
	28-Oct-08	0.51	10.0	0.7	B	ND		0.6	B	3.3	B	1.9	J
	07-Apr-09	0.12	10.0	0.2	J	2.3	J	2.9	J	0.9	J	ND	
	27-Oct-09	0.12	10.0	0.4	J	3.1	J	1.5	J	2.0	J	ND	
	07-Apr-10	0.32	10.0	ND		0.3	J	ND		0.6	J	ND	
	13-Oct-10	0.32	10.0	ND		3.1	J	2.9	J	2.5	J	ND	
	27-Apr-11	0.20	10.0	0.72	J	2.4	J	ND		1.1	J	ND	
Silver	28-Oct-08	0.04	10.0	0.1	B	0.1	B	0.1	B	0.1	B	0.1	J
NC 2B = 0.06 µg/L (05/01/07)	07-Apr-09	0.04	10.0	ND		0.1	J	ND		0.1	J	ND	
	27-Oct-09	0.04	10.0	0.1	J	ND		ND		ND		ND	
	07-Apr-10	0.03	10.0	0.1	B	ND		0.1	B	ND		0.1	J
	13-Oct-10	0.03	10.0	ND		ND		0.1	J	ND		ND	
	27-Apr-11	0.02	10.0	ND		ND		ND		ND		ND	
Thallium	11-Oct-07	0.07	5.0	ND		0.1	J	Dry		Dry		ND	
NC 2B = 0.47 µg/L (05/01/07)	03-Apr-08	0.63	5.0	ND		ND		ND		ND		ND	
	28-Oct-08	0.63	5.0	ND		ND		ND		ND		ND	
	27-Oct-09	0.03	5.0	0.1	J	ND		ND		ND		ND	
	07-Apr-10	0.05	5.0	ND		ND		ND		ND		ND	
	13-Oct-10	0.05	5.5	ND		ND		ND		ND		ND	
	27-Apr-11	0.02	5.5	ND		ND		0.15	B	0.05	B	0.03	J
Vanadium	10-Oct-07	0.42	25.0	2.5	J	16.5	J	Dry		Dry		ND	
NC 2B = NE (05/01/07)	03-Apr-08	0.07	25.0	2.1	J	2.6	J	1.7	J	{0.8}	J	ND {0.1}	J
	28-Oct-08	0.07	25.0	0.5	B	8.7	J	1.2	J	0.5	B	0.2	J
	07-Apr-09	0.28	25.0	1.9	J	1.4	J	2.1	J	2.4	J	ND	
	27-Oct-09	0.28	25.0	1.8	B	3.4	J	1.2	B	1.5	B	0.4	J
	07-Apr-10	0.03	25.0	1.1	B	1.0	B	1.1	B	0.7	B	0.4	J
	13-Oct-10	0.03	25.0	3.8	J	1.9	B	2.8	B	1.1	B	0.6	J
	27-Apr-11	0.14	25.0	0.74	J	0.9	J	0.38	J	ND		ND	
Zinc	Jul-93	NR	10	11	B	23	B	11	B	NA		10	
	Aug-93	NR	10	NA		NA		NA		NA		ND	
	Sep-93	NR	10	NA		NA		NA		NA		ND	
	Sep-93	NR	10	NA		NA		NA		NA		ND	
	Apr-94	NR	10	36	B	98	B	65	B	NA		20	
	Oct-94	NR	50	ND		ND		ND		NA		ND	
	Apr-95	NR	50	ND		ND		ND		NA		ND	
	Oct-95	NR	50	ND		ND		ND		NA		ND	
	Apr-96	NR	50	ND		ND		ND		NA		ND	
	Oct-96	NR	50	ND		ND		ND		NA		ND	
	Apr-97	NR	50	Dry		Dry		ND		NA		ND	
	Oct-97	NR	50	Dry		Dry		ND		NA		ND	
	Apr-98	NR	50	NA		Dry		ND		NA		ND	
	Oct-98	NR	50	Dry		ND		Dry		NA		ND	
	Mar-99	NR	50	ND		ND		ND		NA		ND	
	Jul-99	NR	50	NA		NA		NA		ND		ND	
	Aug-99	NR	50	NA		NA		NA		ND		ND	
	Oct-99	NR	50	ND		ND		ND		ND		ND	
	Nov-99	NR	50	NA		NA		NA		ND		ND	
	Apr-00	NR	50	ND		ND		ND		NA		ND	
	Oct-00	NR	50	ND		ND		ND		ND		ND	
	Apr-01	NR	50	Dry		Dry		ND		NA		ND	
	Oct-01	NR	50	ND		ND		ND		ND		ND	
	Apr-02	NR	50	NA		ND		ND		ND		ND	
	Oct-02	NR	50	ND		ND		ND		ND		ND	
	Apr-03	NR	50	ND		ND		ND		ND		ND	
	Oct-03	NR	50	ND		ND		ND		81		ND	
	15-Apr-04	NR	50	ND		ND		ND		ND		ND	
	14-Oct-04	NR	50	ND		ND		ND		ND		ND	
	05-Apr-05	NR	50	ND		ND		ND		ND		ND	
	27-Oct-05	NR	50	ND		ND		ND		ND		ND	
	21-Apr-06	NR	50	100 (ND)		ND		ND		ND		ND	
	12-Oct-06	NR	50	ND		ND		ND		ND		ND	
	26-Apr-07	NR	10	45		ND		17		19		ND	
NC 2B = 50 µg/L (05/01/07)	11-Oct-07	0.20	10.0	44		22	B	Dry		Dry		6.6	J
	03-Apr-08	0.04	10.0	35		9.0	B	9.8	B	{2.1}	B	6.3 {2.2}	J,J
	28-Oct-08	0.04	10.0	27		25		4.1	J	1.5	B	0.4	J
	07-Apr-09	0.14	10.0	44		6.8	J	7.1	J	2.8	B	0.8	J
	27-Oct-09	0.14	10.0	23		16		11		3.8	B	1.4	J
	07-Apr-10	0.08	10.0	24		8	J	8.2	J	3.7	J	0.7	J
	13-Oct-10	0.08	10.0	6.8	B	4.7	B	12		2.8	B	4.1	J
	27-Apr-11	0.24	10.0	77		3.4	B	4.6	B	2.3	B	1.1	J
Acetone	Jul-93	NR	NA	ND		ND		ND		NA		NA	
	Aug-93	NR	NA	NA		NA		NA		NA		NA	
	Sep-93	NR	NA	NA		NA		NA		NA		NA	
	Sep-93	NR	NA	NA		NA		NA		NA		NA	
	Apr-94	NR	NA	ND		ND		ND		NA		NA	
	Oct-94	NR	NA	ND		ND		ND		NA		NA	
	Apr-95	NR	NA	ND		ND		ND		NA		NA	
	Oct-95	NR	NA	ND		ND		ND		NA		NA	
	Apr-96	NR	NA	ND		ND		ND		NA		NA	
	Oct-96	NR	NA	ND		ND		ND		NA		NA	
	Apr-97	NR	NA	Dry		Dry		ND		NA		NA	
	Oct-97	NR	NA	Dry		Dry		ND		NA		NA	
	Apr-98	NR	NA	NA		Dry		ND		NA		NA	
	Oct-98	NR	NA	Dry		ND		Dry		NA		NA	
	Mar-99	NR	NA	NA		NA		NA		NA		NA	
	Jul-99	NR	NA	NA		NA		NA		ND		NA	
	Aug-99	NR	NA	NA		NA		NA		ND		NA	
	Oct-99	NR	NA	ND		172		ND		ND		NA	
	Nov-99	NR	NA	NA		NA		NA		ND		NA	
	Apr-00	NR	NA	ND		ND		ND		NA		NA	
	Oct-00	NR	NA	ND		ND		ND		ND		NA	
	Apr-01	NR	NA	Dry		Dry		ND		NA		NA	
	Oct-01	NR	100	ND		ND		ND		ND		ND	
	Apr-02	NR	100	NA		ND		ND		ND		ND	
	Oct-02	NR	100	ND		ND		ND		ND		ND	
	Apr-03	NR	100	ND		ND		ND		ND		ND	
	Oct-03	NR	100	ND		ND		ND		ND		ND	
	15-Apr-04	NR	100	ND		ND		ND		ND		ND	
	14-Oct-04	NR	100	ND		ND		ND		ND		ND	
	05-Apr-05	NR	100	ND		ND		ND		ND		ND	
	27-Oct-05	NR	100	ND		ND		ND		ND		ND	
	21-Apr-06	NR	100	ND		ND		ND		ND		ND	
	12-Oct-06	NR	100	ND		ND		ND		ND		ND	
	26-Apr-07	NR	100	ND		ND		ND		ND		ND	
NC 2B = 2,000 µg/L (05/01/07)	11-Oct-07	1.21	100.0	1.40	J	6.40	J	Dry		Dry		ND	
Resample	04-Dec-07	2.2	25.0	ND		ND		NS		NS		4.3	J
	03-Apr-08	1.21	100.0	2.90	B	9.20	J	5.40	B	{5.60}	B	1.50 {2.10}	J,J
Resample	14-May-08	20.0	100	NS		ND		NS		NS		ND	
	28-Oct-08	1.21	100.0	1.80	B	3.70	B	1.60	B	2.10	B	1.30	J
	07-Apr-09	1.21	100.0	ND		1.70	J	2.00	J	2.00	J	ND	
	27-Oct-09	9.06	100.0	ND		ND		ND		ND		ND	
	07-Apr-10	9.06	100.0	ND		ND		ND		ND		ND	
	13-Oct-10	9.06	100.0	ND		ND		ND		9.90	J	ND	
	27-Apr-11	9.06	100.0	ND		ND		ND		ND		ND	

TABLE 12
SUMMARY OF HISTORICAL SURFACE WATER CONSTITUENTS

Constituent	Date	Concentrations (µg/L)												
		DL	RL	Upstream		Downstream								Blanks
				SWPT-1		SWPT-2		UD-1		UD-2				
2-Butanone	Jul-93	NR	NA	ND		ND		ND		NA				NA
	Aug-93	NR	NA	NA		NA		NA		NA				NA
	Sep-93	NR	NA	NA		NA		NA		NA				NA
	Sep-93	NR	NA	NA		NA		NA		NA				NA
	Apr-94	NR	NA	ND		ND		ND		NA				NA
	Oct-94	NR	NA	ND		ND		ND		NA				NA
	Apr-95	NR	NA	ND		ND		ND		NA				NA
	Oct-95	NR	NA	ND		ND		ND		NA				NA
	Apr-96	NR	NA	ND		ND		ND		NA				NA
	Oct-96	NR	NA	ND		ND		ND		NA				NA
	Apr-97	NR	NA	Dry		Dry		ND		NA				NA
	Oct-97	NR	NA	Dry		Dry		ND		NA				NA
	Apr-98	NR	NA	NA		Dry		ND		NA				NA
	Oct-98	NR	NA	Dry		ND		Dry		NA				NA
	Mar-99	NR	NA	NA		NA		NA		NA				NA
	Jul-99	NR	NA	NA		NA		NA		ND				NA
	Aug-99	NR	NA	NA		NA		NA		ND				NA
	Oct-99	NR	NA	ND		137		ND		ND				NA
	Nov-99	NR	NA	NA		NA		NA		ND				NA
	Apr-00	NR	NA	ND		ND		ND		NA				NA
	Oct-00	NR	NA	ND		ND		ND		ND				NA
	Apr-01	NR	NA	Dry		Dry		ND		NA				NA
	Oct-01	NR	100	ND		ND		ND		ND				ND
	Apr-02	NR	100	NA		ND		ND		ND				ND
	Oct-02	NR	100	ND		ND		ND		ND				ND
	Apr-03	NR	100	ND		ND		ND		ND				ND
	Oct-03	NR	100	ND		ND		ND		ND				ND
	15-Apr-04	NR	100	ND		ND		ND		ND				ND
	14-Oct-04	NR	100	ND		ND		ND		ND				ND
	05-Apr-05	NR	100	ND		ND		ND		ND				ND
	27-Oct-05	NR	100	ND		ND		ND		ND				ND
	21-Apr-06	NR	100	ND		ND		ND		ND				ND
	12-Oct-06	NR	100	ND		ND		ND		ND				ND
	26-Apr-07	NR	100	ND		ND		ND		ND				ND
NC 2B = 160,000 µg/L (05/01/07)	11-Oct-07	0.85	100.0	ND		1.50	J	Dry		Dry				ND
Resample	04-Dec-07	0.96	5.0	NS		ND		NS		NS				ND
	03-Apr-08	0.85	100.0	1.50	J	2.20	J	1.40	J	2.50	J			ND
	14-May-08	0.96	100.0	ND		ND		ND		ND				ND
	28-Oct-08	0.85	100.0	1.20	J	ND		ND		ND				ND
	07-Apr-09	0.85	100.0	ND		ND		ND		ND				ND
	27-Oct-09	2.21	100.0	4.50	J	ND		2.40	J	6.60	J			ND
	07-Apr-10	2.21	100.0	4.70	J	5.20	J	ND		ND				ND
	13-Oct-10	2.21	100.0	ND		ND		ND		4.10	J			ND
	27-Apr-11	2.21	100.0	ND		ND		ND		ND				ND
Carbon Disulfide	11-Oct-07	0.14	100.0	ND		0.30	J	Dry		Dry				ND
Resample	04-Dec-07	1.2	2.0	NS		ND		NS		NS				ND
NC 2B = NE (05/01/07)	03-Apr-08	0.14	100.0	ND		ND		ND		ND				ND
	28-Oct-08	0.14	100.0	ND		ND		ND		ND				ND
	07-Apr-09	0.14	100.0	ND		ND		ND		ND				ND
	27-Oct-09	0.23	100.0	ND		ND		ND		ND				ND
	07-Apr-10	0.23	100.0	ND		ND		ND		ND				ND
	13-Oct-10	0.23	100.0	ND		ND		ND		ND				ND
	27-Apr-11	0.23	100.0	ND		ND		ND		ND				ND
Chloromethane	11-Oct-07	0.18	1.0	0.80	J	1.10		Dry		Dry				ND
Resample	04-Dec-07	0.11	1.0	ND		ND		NS		NS				ND
NC 2B = 96 µg/L (05/01/07)	03-Apr-08	0.18	1.0	ND		0.30	J	0.20	J	0.30	J			ND
Resample	14-May-08	0.11	1.0	NS		ND		ND		ND				ND
	28-Oct-08	0.18	1.0	0.20	J	0.20	J	ND		ND				ND
	07-Apr-09	0.18	1.0	ND		ND		ND		ND				ND
	27-Oct-09	0.77	1.0	ND		ND		ND		0.90	J			ND
	07-Apr-10	0.77	1.0	ND		ND		ND		ND				ND
	13-Oct-10	0.77	1.0	ND		ND		ND		ND				ND
	27-Apr-11	0.77	1.0	ND		ND		ND		ND				ND
1,1-Dichloroethane	27-Oct-09	0.02	5.0	ND		0.20	J	ND		ND				ND
NC 2B = 20,000 µg/L (05/01/07)	07-Apr-10	0.02	5.0	ND		ND		ND		ND				ND
	13-Oct-10	0.02	5.0	ND		ND		ND		ND				ND
	27-Apr-11	0.20	5.0	ND		ND		ND		ND				ND
1,4-Dichlorobenzene	03-Apr-08	0.21	1.0	ND		0.40	J	ND		ND				ND
Resample	14-May-08	0.33	1.0	NS		ND		NS		NS				ND
NC 2B = 100 µg/L (05/01/07)	28-Oct-08	0.21	1.0	ND		ND		ND		ND				ND
	07-Apr-09	0.21	1.0	ND		ND		ND		ND				ND
	27-Oct-09	0.39	1.0	ND		0.50	J	ND		ND				ND
	07-Apr-10	0.39	1.0	ND		ND		ND		ND				ND
	13-Oct-10	0.39	1.0	ND		ND		ND		ND				ND
	27-Apr-11	0.39	1.0	ND		ND		ND		ND				ND
Methylene Chloride	11-Oct-07	0.14	1.0	ND		ND		Dry		Dry				0.20	J
NC 2B = 590 µg/L (05/01/07)	03-Apr-08	0.14	1.0	ND		ND		ND		ND				ND
	28-Oct-08	0.14	1.0	0.20	J	0.20	J	0.20	J	0.20	J			ND
	07-Apr-09	0.14	1.0	ND		ND		ND		ND				ND
	27-Oct-09	0.64	1.0	ND		ND		ND		ND				ND
	07-Apr-10	0.64	1.0	ND		ND		ND		ND				ND
	13-Oct-10	0.64	1.0	ND		ND		ND		ND				ND
	27-Apr-11	0.64	1.0	ND		ND		ND		ND				ND
Styrene	27-Oct-09	0.19	1.0	ND		0.50	J	ND		ND				ND
NC 2B = NE (05/01/07)	07-Apr-10	0.19	1.0	ND		ND		ND		ND				ND
	13-Oct-10	0.19	1.0	ND		ND		ND		ND				ND
	27-Apr-11	0.19	1.0	ND		ND		ND		ND				ND
Toluene	Jul-93	NR	NA	ND		ND		ND		NA				NA
	Aug-93	NR	NA	NA		NA		NA		NA				NA
	Sep-93	NR	NA	NA		NA		NA		NA				NA
	Sep-93	NR	NA	NA		NA		NA		NA				NA
	Apr-94	NR	NA	ND		ND		ND		NA				NA
	Oct-94	NR	NA	12		ND		33		NA				NA
	Apr-95	NR	NA	ND		ND		ND		NA				NA
	Oct-95	NR	NA	ND		ND		ND		NA				NA
	Apr-96	NR	NA	ND		ND		ND		NA				NA
	Oct-96	NR	NA	ND		11		ND		NA				NA
	Apr-97	NR	NA	Dry		Dry		ND		NA				NA
	Oct-97	NR	NA	Dry		Dry		ND		NA				NA
	Apr-98	NR	NA	NA		Dry		ND		NA				NA
	Oct-98	NR	NA	Dry		ND		Dry		NA				NA
	Mar-99	NR	NA	NA		NA		NA		NA				NA
	Jul-99	NR	NA	NA		NA		NA		ND				NA
	Aug-99	NR	NA	NA		NA		NA		ND				NA
	Oct-99	NR	NA	ND		ND		ND		ND				NA
	Nov-99	NR	NA	NA		NA		NA		ND				NA
	Apr-00	NR	NA	ND		ND		ND		NA				NA
	Oct-00	NR	NA	ND		ND		ND		ND				NA
	Apr-01	NR	NA	Dry		Dry		ND		NA				NA
	Oct-01	NR	5	ND		ND		ND		ND				ND
	Apr-02	NR	5	NA		ND		ND		ND				ND
	Oct-02	NR	5	ND		ND		ND		ND				ND
	Apr-03	NR	5	ND		ND		ND		ND				ND
	Oct-03	NR	5	ND		ND		ND		ND				ND
	15-Apr-04	NR	5	ND		ND		ND		ND				ND
	14-Oct-04	NR	5	ND		ND		ND		ND				ND
	05-Apr-05	NR	5	ND		ND		ND		ND				ND
	27-Oct-05	NR	5	ND		ND		ND		ND				ND
	21-Apr-06	NR	5	ND		ND		ND		ND				ND
	12-Oct-06	NR	5	ND		ND		ND		ND				ND
	26-Apr-07	NR	5	ND		ND		ND		ND				ND
NC 2B = 11 µg/L (05/01/07)	11-Oct-07	0.13	1.0	ND		ND		Dry		Dry				ND
	03-Apr-08	0.13	1.0	ND		ND		ND		ND				ND
	28-Oct-08	0.13	1.0	ND		ND		ND		ND				ND
	07-Apr-09	0.13	1.0	ND		ND		ND		ND				ND
	27-Oct-09	0.23	1.0	ND		ND		ND		ND				ND
	07-Apr-10	0.23	1.0	ND		ND		ND		ND				ND
	13-Oct-10	0.23	1.0	ND		ND		ND		ND				ND
	27-Apr-11	0.23	1.0	ND		ND		ND		ND				ND

Notes:
1. All concentrations are in micrograms per Liter (ug/L).
2. SWPT = Surface water monitoring point
3. UD = Underdrain surface water monitoring point.
4. RL = Laboratory reporting limit (NC SWSL or lower October 2007 to present).
5. ND = Not detected above laboratory reporting limit.
6. B = Blank-qualified data; result is expected to be biased high based on concentrations in the blanks
7. Shaded values are above the NC 2B Surface Water Standards (NC2B)
8. NA = Not available.
9. NR = Not reported.
10. NS = Not sampled.
11. Dry = Surface water monitoring point was considered to be dry.
12. ( ) = Resample event results
13. DL = Laboratory detection limit.
14. J = Concentrations detected between the DL and RL and are considered estimated.
15. Surface waters are classified as Freshwater Aquatic life, nutrient sensitive, and swamp waters (Jumping Run).
16. { } = Samples assigned a different Eequipment Blank set containing Equipment Blank concentrations higher than the Trip and/or Method Blanks.
17. NE = Not established.

TABLE 13

SUMMARY OF FIELD PARAMETERS
SURFACE WATER

Field Parameters	Date	Upstream	Downstream		
		SWPT-1	SWPT-2	UD-1	UD-2
Conductivity	Jul-93	80	340	50	NA
[uMhos]	Apr-94	310	450	610	NA
	Oct-94	490	500	1100	NA
	Apr-95	500	380	480	NA
	Oct-95	480	910	500	NA
	Apr-96	400	560	390	NA
	Oct-96	460	920	260	NA
	Apr-97	Dry	Dry	840	NA
	Oct-97	Dry	Dry	1,900	NA
	Apr-98	NA	Dry	420	NA
	Oct-98	Dry	680	Dry	NA
	Jul-99	NA	NA	NA	160
	Aug-99	NA	NA	NA	1,300
	Oct-99	450	880	320	980
	Nov-99	NA	NA	NA	780
	Apr-00	420	3,000	470	NA
	Oct-00	110	1,100	480	790
	Apr-01	Dry	Dry	380	NA
	Oct-01	320	320	870	630
	Apr-02	NA	1,800	510	640
	Oct-02	1,000	1,700	620	778
	Apr-03	601	1,048	1,181	894
	Oct-03	741	974	481	1,331
	15-Apr-04	340	380	120	690
	14-Oct-04	255	363	375	329
	05-Apr-05	677	795	1,281	1,021
	27-Oct-05	722	522	199	607
	21-Apr-06	616	1,010	1,122	1,034
	12-Oct-06	456	523	530	538
	26-Apr-07	517	758	837	1,022
	11-Oct-07	562	2,820	Dry	Dry
Resample	04-Dec-07	2,140	3,630	NS	NS
	03-Apr-08	643	1,836	1,647	1,220
Resample	14-May-08	2,890	1,198	1,191	1,458
	28-Oct-08	571	2,320	410	1,245
	07-Apr-09	1,038	1,432	583	1,128
	27-Oct-09	521	1,820	319	1,004
	07-Apr-10	991	995	420	978
	13-Oct-10	78	911	625	896
	27-Apr-11	1,196	1,283	268	1,116
pH	Jun-93	5.9	6.3	6.3	-
[units]	Apr-94	6.7	7.0	7.2	NA
	Oct-94	7.2	7.3	7.6	NA
	Apr-95	7.2	7.1	7.3	NA
	Oct-95	7.1	7.5	7.4	NA
	Apr-96	7.1	6.0	7.1	NA
	Oct-96	6.1	6.8	6.8	NA
	Apr-97	Dry	Dry	6.3	NA
	Oct-97	Dry	Dry	7.1	NA
	Apr-98	NA	Dry	7.0	NA
	Oct-98	Dry	6.1	Dry	NA
	Jul-99	NA	NA	NA	7.0
	Aug-99	NA	NA	NA	6.2
	Oct-99	7.4	7.2	7.1	7.1
	Nov-99	NA	NA	NA	6.6
	Apr-00	6.9	8.1	6.6	NA
	Oct-00	7.0	7.6	6.6	6.4
	Apr-01	Dry	Dry	6.5	NA
	Oct-01	7.0	7.3	7.4	5.2
	Apr-02	NA	7.4	7.4	6.2
	Oct-02	7.5	7.9	7.0	6.2
	Apr-03	7.2	7.3	7.5	6.2
	Oct-03	7.3	7.2	6.9	6.4
	15-Apr-04	7.2	7.1	7.6	6.8
	14-Oct-04	7.4	4.0	7.0	7.2
	05-Apr-05	7.4	7.5	8.0	7.3
	27-Oct-05	7.3	7.0	6.9	7.1
	21-Apr-06	7.0	7.1	8.0	6.8
	12-Oct-06	7.1	7.8	7.2	7.1
	26-Apr-07	7.3	8.8	7.5	6.9
	11-Oct-07	7.1	7.1	Dry	Dry
Resample	04-Dec-07	8.09	7.48	NS	NS
	03-Apr-08	7.7	6.6	7.4	6.6
Resample	14-May-08	7.74	7.84	8.07	7.41
	28-Oct-08	7.3	7.4	7.2	6.8
	07-Apr-09	6.8	6.9	6.8	6.4
	27-Oct-09	6.6	7.0	7.3	6.8
	07-Apr-10	6.8	7.0	7.1	6.5
	13-Oct-10	6.8	7.1	7.0	6.2
	27-Apr-11	6.8	7.0	7.0	6.6

TABLE 13

SUMMARY OF FIELD PARAMETERS
SURFACE WATER

Field Parameters	Date	Upstream	Downstream		
		SWPT-1	SWPT-2	UD-1	UD-2
Temperature [oC]	Jun-93	17	15	15	NA
	Apr-94	23	20	23	NA
	Oct-94	17	16	18	NA
	Apr-95	20	22	18	NA
	Oct-95	19	19	22	NA
	Apr-96	11	10	11	NA
	Oct-96	21	21	23	NA
	Apr-97	Dry	Dry	15	NA
	Oct-97	Dry	Dry	15	NA
	Apr-98	NA	Dry	19	NA
	Oct-98	Dry	20	Dry	NA
	Jul-99	NA	NA	NA	24
	Aug-99	NA	NA	NA	23
	Oct-99	21	18	18	19
	Nov-99	NA	NA	NA	14
	Apr-00	11	15	19	NA
	Oct-00	13	13	15	15
	Apr-01	Dry	Dry	20	NA
	Oct-01	16	16	18	18
	Apr-02	NA	16	20	18
	Oct-02	25	22	22	22
	Apr-03	20	19	17	24
	Oct-03	17	15	15	15
	15-Apr-04	13	12	13	13
	14-Oct-04	20	20	19	19
	05-Apr-05	17	15	16	14
	27-Oct-05	15	13	14	14
	21-Apr-06	18	16	24	17
	12-Oct-06	21	26	21	23
	26-Apr-07	19	29	20	17
	11-Oct-07	21	23	Dry	Dry
Resample	04-Dec-07	8.5	8.1	NS	NS
	03-Apr-08	14	13	14	15
Resample	14-May-08	23.5	28.9	22.6	22.6
	28-Oct-08	14	9	12	13
	07-Apr-09	15	11	15	15
	27-Oct-09	18	17	18	18
	07-Apr-10	16	18	19	19
	13-Oct-10	21	21	19	21
	27-Apr-11	19	23	23	23
Turbidity [NTU]	Jun-93	NA	NA	NA	NA
	Apr-94	NA	NA	NA	NA
	Oct-94	NA	NA	NA	NA
	Apr-95	NA	NA	NA	NA
	Oct-95	NA	NA	NA	NA
	Apr-96	NA	NA	NA	NA
	Oct-96	NA	NA	NA	NA
	Apr-97	Dry	Dry	NA	NA
	Oct-97	Dry	Dry	NA	NA
	Apr-98	NA	Dry	NA	NA
	Oct-98	Dry	38	Dry	NA
	Jul-99	NA	NA	NA	NA
	Aug-99	NA	NA	NA	300
	Oct-99	160	120	65	70
	Nov-99	NA	NA	NA	21
	Apr-00	14	310	25	NA
	Oct-00	100	120	46	11
	Apr-01	Dry	Dry	26	NA
	Oct-01	70	60	4.2	60
	Apr-02	NA	21	8.6	140
	Oct-02	28	32	25	130
	Apr-03	33	60	35	170
	Oct-03	26	14	27	39
	15-Apr-04	28	55	50	330
	14-Oct-04	180	90	80	110
	05-Apr-05	23	80	27	8.1
	27-Oct-05	25	45	27	40
	21-Apr-06	34	21	13	11
	12-Oct-06	50	70	28	80
	26-Apr-07	50	80	31	12
	11-Oct-07	37	350	Dry	Dry
Resample	04-Dec-07	10.49	21.2	NS	NS
	03-Apr-08	40	65	28	40
Resample	14-May-08	43.2	45.5	11.64	79.0
	28-Oct-08	17	120	26	60
	07-Apr-09	17	15	12	80
	27-Oct-09	34	150	12	37
	07-Apr-10	33	26	15	35
	13-Oct-10	60	22	20	110
	27-Apr-11	32	16	15	28

Notes:
1. NA = Not available.
2. NS = Not sampled.
3. Dry = Surface water monitoring point was considered to be dry.

TABLE 14

SUMMARY OF HISTORICAL CONSISTUENTS
LEACHATE

Constituent	Date	Concentration (ug/L)					
		DL	RL	Leachate		Blanks	
Antimony	Oct-99	NR	30	47		ND	
	Apr-00	NR	30	ND		ND	
	Oct-00	NR	30	ND		ND	
	Apr-01	NR	30	ND		ND	
	Oct-01	NR	30	ND		ND	
	Apr-02	NR	30	ND		ND	
	Apr-03	NR	30	ND		ND	
	05-Apr-05	NR	30	ND		ND	
	15-Dec-05	NR	30	ND		ND	
	21-Apr-06	NS	NS	NS		ND	
	12-Oct-06	NS	NS	NS		ND	
	26-Apr-07	NR	6.0	7		ND	
	11-Oct-07	0.05	6.0	4.0	J	0.1	J
	03-Apr-08	0.08	6.0	6.2		ND	
	28-Oct-08	0.08	6.0	8.8		ND	
	07-Apr-09	0.06	6.0	5.7	J	ND	
	27-Oct-09	0.06	6.0	39		ND	
	08-Apr-10	0.22	6.0	1.8	B	0.7	J
	13-Oct-10	0.22	6.0	4.6	J	ND	
	27-Apr-11	0.14	6.0	7		ND	
Arsenic	Oct-99	NR	10	ND		ND	
	Apr-00	NR	10	ND		ND	
	Oct-00	NR	10	ND		ND	
	Apr-01	NR	10	ND		ND	
	Oct-01	NR	10	12		ND	
	Apr-02	NR	10	27		ND	
	Apr-03	NR	10	55		ND	
	05-Apr-05	NR	10	74		ND	
	15-Dec-05	NR	10	52		ND	
	21-Apr-06	NS	NS	NS		ND	
	12-Oct-06	NS	NS	NS		ND	
	26-Apr-07	NR	10	14		ND	
	11-Oct-07	0.47	10.0	59		ND	
	03-Apr-08	0.07	10.0	45		0.2	J
	28-Oct-08	0.07	10.0	66		0.5	J
	07-Apr-09	0.17	10.0	58		0.2	J
	27-Oct-09	0.17	10.0	124		ND	
	08-Apr-10	0.04	10.0	86		ND	
	13-Oct-10	0.35	10.0	75		ND	
	27-Apr-11	0.43	10.0	114		ND	
Barium	Oct-99	NR	500	ND		ND	
	Apr-00	NR	500	ND		ND	
	Oct-00	NR	500	ND		ND	
	Apr-01	NR	500	ND		ND	
	Oct-01	NR	500	537		ND	
	Apr-02	NR	500	1,358		ND	
	Apr-03	NR	500	794		ND	
	05-Apr-05	NR	500	542		ND	
	15-Dec-05	NR	500	ND		ND	
	21-Apr-06	NS	NS	NS		ND	
	12-Oct-06	NS	NS	NS		ND	
	26-Apr-07	NR	100	112		ND	
	11-Oct-07	0.04	100.0	754		0.2	J
	03-Apr-08	0.11	100.0	838		0.4	J
	28-Oct-08	0.11	100.0	868		0.7	J
	07-Apr-09	0.04	100.0	788		0.2	J
	27-Oct-09	0.04	100.0	1,055		0.1	J
	08-Apr-10	0.03	100.0	1,001		0.1	J
	13-Oct-10	0.03	100.0	1,022		0.2	J
	27-Apr-11	0.02	100.0	934		0.10	J
Beryllium	Oct-99	NR	2	ND		ND	
	Apr-00	NR	2	ND		ND	
	Oct-00	NR	2	ND		ND	
	Apr-01	NR	2	ND		ND	
	Oct-01	NR	2	ND		ND	
	Apr-02	NR	2	ND		ND	
	Apr-03	NR	2	ND		ND	
	05-Apr-05	NR	2	ND		ND	
	15-Dec-05	NR	2	ND		ND	
	21-Apr-06	NS	NS	NS		ND	
	12-Oct-06	NS	NS	NS		ND	
	26-Apr-07	NR	1.0	ND		ND	
	11-Oct-07	0.08	1.0	0.1	J	ND	
	03-Apr-08	0.06	1.0	0.1	J	ND	
	28-Oct-08	0.06	1.0	0.2	J	ND	
	07-Apr-09	0.06	1.0	0.1	J	ND	
	27-Oct-09	0.06	1.0	0.5	J	ND	
	08-Apr-10	0.02	1.0	0.1	B	0.1	J
	13-Oct-10	0.02	1.0	0.1	J	ND	
	27-Apr-11	0.02	1.0	0.10	J	ND	

TABLE 14

SUMMARY OF HISTORICAL CONSISTUENTS
LEACHATE

Constituent	Date	Concentration (ug/L)					
		DL	RL	Leachate		Blanks	
Cadmium	Oct-99	NR	1	ND		ND	
	Apr-00	NR	1	ND		ND	
	Oct-00	NR	1	ND		ND	
	Apr-01	NR	1	ND		ND	
	Oct-01	NR	1	ND		ND	
	Apr-02	NR	1	2		ND	
	Apr-03	NR	1	ND		ND	
	05-Apr-05	NR	1	ND		ND	
	15-Dec-05	NR	1	ND		ND	
	21-Apr-06	NS	NS	NS		ND	
	12-Oct-06	NS	NS	NS		ND	
	26-Apr-07	NR	1.0	ND		ND	
	11-Oct-07	0.06	1.0	2		0.1	J
	03-Apr-08	0.04	1.0	4		ND	
	28-Oct-08	0.04	1.0	3.6		ND	
	07-Apr-09	0.04	1.0	3		ND	
	27-Oct-09	0.04	1.0	2.5		ND	
	08-Apr-10	0.02	1.0	5		0.1	J
	13-Oct-10	0.02	1.0	7		ND	
	27-Apr-11	0.02	1.0	4		ND	
Chromium	Oct-99	NR	10	ND		ND	
	Apr-00	NR	10	ND		ND	
	Oct-00	NR	10	ND		ND	
	Apr-01	NR	10	20		ND	
	Oct-01	NR	10	37		ND	
	Apr-02	NR	10	158		ND	
	Apr-03	NR	10	50		ND	
	05-Apr-05	NR	10	48		ND	
	15-Dec-05	NR	10	36		ND	
	21-Apr-06	NS	NS	NS		ND	
	12-Oct-06	NS	NS	NS		ND	
	26-Apr-07	NR	10	ND		ND	
	11-Oct-07	0.24	10.0	81		1.2	J
	03-Apr-08	0.11	10.0	61		ND	
	28-Oct-08	0.11	10.0	72		ND	
	07-Apr-09	0.10	10.0	47		ND	
	27-Oct-09	0.10	10.0	108		ND	
	08-Apr-10	0.03	10.0	56		ND	
	13-Oct-10	0.03	10.0	49		ND	
	27-Apr-11	0.04	10.0	42		0.18	J
Cobalt	Oct-99	NR	10	ND		ND	
	Apr-00	NR	10	ND		ND	
	Oct-00	NR	10	ND		ND	
	Apr-01	NR	10	ND		ND	
	Oct-01	NR	10	ND		ND	
	Apr-02	NR	10	ND		ND	
	Apr-03	NR	10	23		ND	
	05-Apr-05	NR	10	15		ND	
	15-Dec-05	NR	10	22		ND	
	21-Apr-06	NS	NS	NS		ND	
	12-Oct-06	NS	NS	NS		ND	
	26-Apr-07	NR	10	ND		ND	
	11-Oct-07	0.41	10.0	14		ND	
	03-Apr-08	0.03	10.0	13		ND	
	28-Oct-08	0.03	10.0	15		ND	
	07-Apr-09	0.02	10.0	12		ND	
	27-Oct-09	0.02	10.0	18		ND	
	08-Apr-10	0.10	10.0	15		ND	
	13-Oct-10	0.10	10.0	15		ND	
	27-Apr-11	0.03	10.0	14		ND	
Copper	Oct-99	NR	200	ND		ND	
	Apr-00	NR	200	ND		ND	
	Oct-00	NR	200	ND		ND	
	Apr-01	NR	200	NA		ND	
	Oct-01	NR	200	ND		ND	
	Apr-02	NR	200	ND		ND	
	Apr-03	NR	200	ND		ND	
	05-Apr-05	NR	200	ND		ND	
	15-Dec-05	NR	200	ND		ND	
	21-Apr-06	NS	NS	NS		ND	
	12-Oct-06	NS	NS	NS		ND	
	26-Apr-07	NR	10	ND		ND	
	11-Oct-07	0.20	10.0	9.4	J	0.4	J
	03-Apr-08	0.05	10.0	12		0.2	J
	28-Oct-08	0.05	10.0	6.5	J	1.1	J
	07-Apr-09	0.04	10.0	10		0.1	J
	27-Oct-09	0.04	10.0	31		0.1	J
	08-Apr-10	0.03	10.0	10		0.2	J
	13-Oct-10	0.03	10.0	9.6	J	0.2	J
	27-Apr-11	0.02	10.0	6.7	J	0.66	J

TABLE 14

SUMMARY OF HISTORICAL CONSISTUENTS
LEACHATE

Constituent	Date	Concentration (ug/L)					
		DL	RL	Leachate		Blanks	
Lead	Oct-99	NR	10	ND		ND	
	Apr-00	NR	10	ND		ND	
	Oct-00	NR	10	ND		ND	
	Apr-01	NR	10	ND		ND	
	Oct-01	NR	10	ND		ND	
	Apr-02	NR	10	30		ND	
	Apr-03	NR	10	ND		ND	
	05-Apr-05	NR	10	11		ND	
	15-Dec-05	NR	10	ND		ND	
	21-Apr-06	NS	NS	NS		ND	
	12-Oct-06	NS	NS	NS		ND	
	26-Apr-07	NR	10	ND		ND	
	11-Oct-07	0.07	10.0	1.4	J	0.1	J
	03-Apr-08	0.04	10.0	0.7	J	0.1	J
	28-Oct-08	0.04	10.0	1.1	J	0.1	J
	07-Apr-09	0.04	10.0	0.3	B	0.1	J
	27-Oct-09	0.04	10.0	16		ND	
	08-Apr-10	0.01	10.0	0.2	B	0.1	J
	13-Oct-10	0.01	10.0	0.2	B	0.1	J
	27-Apr-11	0.02	10.0	0.13	J	ND	
Nickel	Oct-99	NR	50	ND		ND	
	Apr-00	NR	50	ND		ND	
	Oct-00	NR	50	ND		ND	
	Apr-01	NR	50	ND		ND	
	Oct-01	NR	50	77		ND	
	Apr-02	NR	50	394		ND	
	Apr-03	NR	50	141		ND	
	05-Apr-05	NR	50	112		ND	
	15-Dec-05	NR	50	84		ND	
	21-Apr-06	NS	NS	NS		ND	
	12-Oct-06	NS	NS	NS		ND	
	26-Apr-07	NR	50	ND		ND	
	11-Oct-07	0.66	50.0	77		ND	
	03-Apr-08	0.06	50.0	77		0.3	J
	28-Oct-08	0.06	50.0	81		0.2	J
	07-Apr-09	0.04	50.0	70		ND	
	27-Oct-09	0.04	50.0	130		0.2	J
	08-Apr-10	0.05	50.0	85		ND	
	13-Oct-10	0.05	50.0	82		0.1	J
	27-Apr-11	0.04	50.0	74		0.3	J
Selenium	Oct-99	NR	20	ND		ND	
	Apr-00	NR	20	ND		ND	
	Oct-00	NR	10	ND		ND	
	Apr-01	NR	20	ND		ND	
	Oct-01	NR	20	ND		ND	
	Apr-02	NR	20	ND		ND	
	Apr-03	NR	20	ND		ND	
	05-Apr-05	NR	20	20		ND	
	15-Dec-05	NR	20	33		ND	
	21-Apr-06	NS	NS	NS		ND	
	12-Oct-06	NS	NS	NS		ND	
	26-Apr-07	NR	10	20		ND	
	11-Oct-07	0.35	10.0	51		0.9	J
	03-Apr-08	0.14	10.0	0.6	B	1.5	J
	28-Oct-08	0.14	10.0	ND		1.9	J
	07-Apr-09	0.12	10.0	42		ND	
	27-Oct-09	0.12	10.0	60		ND	
	08-Apr-10	0.32	10.0	65		ND	
	13-Oct-10	0.30	10.0	ND		ND	
	27-Apr-11	0.32	10.0	ND		ND	
Silver	Oct-99	NR	10	ND		ND	
	Apr-00	NR	10	ND		ND	
	Oct-00	NR	10	ND		ND	
	Apr-01	NR	10	ND		ND	
	Oct-01	NR	10	ND		ND	
	Apr-02	NR	10	ND		ND	
	Apr-03	NR	10	ND		ND	
	05-Apr-05	NR	10	ND		ND	
	15-Dec-05	NR	10	ND		ND	
	21-Apr-06	NS	NS	NS		ND	
	12-Oct-06	NS	NS	NS		ND	
	26-Apr-07	NR	10	ND		ND	
	11-Oct-07	NA	10	ND		ND	
	03-Apr-08	0.04	10.0	0.7	J	ND	
	28-Oct-08	0.04	10.0	0.7	J	0.1	J
	07-Apr-09	0.04	10.0	0.8	J	ND	
	27-Oct-09	0.04	10.0	0.8	J	ND	
	08-Apr-10	0.03	10.0	1.0	J	0.1	J
	13-Oct-10	0.03	10.0	1.5	J	ND	
	27-Apr-11	0.02	10.0	0.82	J	ND	

TABLE 14

SUMMARY OF HISTORICAL CONSISTUENTS
LEACHATE

Constituent	Date	Concentration (ug/L)					
		DL	RL	Leachate		Blanks	
Thallium	27-Apr-11	0.02	5.5	0.04	B	0.03	J
Vanadium	Oct-99	NR	40	ND		ND	
	Apr-00	NR	40	ND		ND	
	Oct-00	NR	40	ND		ND	
	Apr-01	NR	40	ND		ND	
	Oct-01	NR	40	ND		ND	
	Apr-02	NR	40	ND		ND	
	Apr-03	NR	40	ND		ND	
	05-Apr-05	NR	40	ND		ND	
	15-Dec-05	NR	40	51		ND	
	21-Apr-06	NS	NS	NS		ND	
	12-Oct-06	NS	NS	NS		ND	
	26-Apr-07	NR	25	ND		ND	
	11-Oct-07	0.42	25.0	17.6	J	ND	
	03-Apr-08	0.07	25.0	14.9	J	0.1	J
	28-Oct-08	0.07	25.0	18.5	J	0.2	J
	07-Apr-09	0.28	25.0	13.3	J	ND	
	27-Oct-09	0.28	25.0	28		0.4	J
	08-Apr-10	0.03	25.0	17.2		0.4	J
	13-Oct-10	0.03	25.0	15.6	J	0.6	J
	27-Apr-11	0.14	25.0	13.3	J	ND	
Zinc	Oct-99	NR	50	ND		ND	
	Apr-00	NR	50	ND		ND	
	Oct-00	NR	50	ND		ND	
	Apr-01	NR	50	60		ND	
	Oct-01	NR	50	101		ND	
	Apr-02	NR	50	298		ND	
	Apr-03	NR	50	691		ND	
	05-Apr-05	NR	50	721		ND	
	15-Dec-05	NR	50	ND		ND	
	21-Apr-06	NS	NS	NS		ND	
	12-Oct-06	NS	NS	NS		ND	
	26-Apr-07	NR	10	22		ND	
	11-Oct-07	0.20	10.0	42		6.6	J
	03-Apr-08	0.04	10.0	23		2.2	J
	28-Oct-08	0.04	10.0	20		0.4	J
	07-Apr-09	0.14	10.0	11		0.8	J
	27-Oct-09	0.14	10.0	822		1.4	J
	08-Apr-10	0.08	10.0	12		0.7	J
	13-Oct-10	0.08	10.0	8.4	B	4.1	J
	27-Apr-11	0.24	10.0	8.2	J	1.1	J
Acetone	Oct-99	NR	NA	ND		ND	
	Apr-00	NR	NA	3,829		ND	
	Oct-00	NR	NA	ND		ND	
	Apr-01	NR	NA	ND		ND	
	Oct-01	NR	100	NA		ND	
	Apr-02	NR	100	9,690		ND	
	Apr-03	NR	500	1,090		ND	
	05-Apr-05	NR	500	4,570		ND	
	15-Dec-05	NR	500	ND		ND	
	21-Apr-06	NS	NS	NS		ND	
	12-Oct-06	NS	NS	NS		ND	
	26-Apr-07	NR	100	ND		ND	
	11-Oct-07	1.21	100.0	81.70	J	ND	
	03-Apr-08	1.21	100.0	148.00		2.10	J
	28-Oct-08	1.21	100.0	237.00		1.30	J
	07-Apr-09	1.21	100.0	40.60	J	ND	
	27-Oct-09	9.06	100.0	50.20	J	ND	
	08-Apr-10	9.06	100.0	13.60	J	ND	
	13-Oct-10	9.06	100.0	26.50	J	ND	
	27-Apr-11	9.06	100.0	ND		ND	
Benzene	Oct-99	NR	NA	ND		ND	
	Apr-00	NR	NA	ND		ND	
	Oct-00	NR	NA	ND		ND	
	Apr-01	NR	NA	12		ND	
	Oct-01	NR	5	NA		ND	
	Apr-02	NR	5	NA		ND	
	Apr-03	NR	25	ND		ND	
	05-Apr-05	NR	25	7.3		ND	
	15-Dec-05	NR	25	ND		ND	
	21-Apr-06	NS	NS	NS		ND	
	12-Oct-06	NS	NS	NS		ND	
	26-Apr-07	NR	3.00	ND		ND	
	11-Oct-07	0.16	1.0	3.90		ND	
	03-Apr-08	0.16	1.0	2.60		ND	
	28-Oct-08	0.16	1.0	1.80		ND	
	07-Apr-09	0.16	1.0	1.50		ND	
	27-Oct-09	0.24	1.0	1.60		ND	
	08-Apr-10	0.24	1.0	2.10		ND	
	13-Oct-10	0.24	1.0	2.20		ND	
	27-Apr-11	0.24	1.0	3.50		ND	

TABLE 14

SUMMARY OF HISTORICAL CONSISTUENTS
LEACHATE

Constituent	Date	Concentration (ug/L)				
		DL	RL	Leachate		Blanks
Chlorobenzene	11-Oct-07	0.13	3.0	1.80	J	ND
	03-Apr-08	0.13	3.0	1.30	J	ND
	28-Oct-08	0.13	3.0	0.90	J	ND
	07-Apr-09	0.13	3.0	0.60	J	ND
	27-Oct-09	0.30	3.0	0.50	J	ND
	08-Apr-10	0.30	3.0	0.70	J	ND
	13-Oct-10	0.30	3.0	0.70	J	ND
	27-Apr-11	0.30	3.0	1.10	J	ND
Chloroethane	Oct-99	NR	NA	ND		ND
	Apr-00	NR	NA	ND		ND
	Oct-00	NR	NA	ND		ND
	Apr-01	NR	NA	19		ND
	Oct-01	NR	10	NA		ND
	Apr-02	NR	10	NA		ND
	Apr-03	NR	50	ND		ND
	05-Apr-05	NR	50	ND		ND
	15-Dec-05	NR	50	ND		ND
	21-Apr-06	NS	NS	NS		ND
	12-Oct-06	NS	NS	NS		ND
	26-Apr-07	NR	5.00	ND		ND
	11-Oct-07	0.29	10.0	0.50	J	ND
	03-Apr-08	0.29	10.0	0.40	J	ND
	28-Oct-08	0.29	10.0	ND		ND
	07-Apr-09	0.29	10.0	ND		ND
	27-Oct-09	0.48	10.0	ND		ND
	08-Apr-10	0.48	10.0	ND		ND
	13-Oct-10	0.48	10.0	ND		ND
	27-Apr-11	0.48	10.0	ND		ND
Chloromethane	11-Oct-07	0.18	1.0	2.40		ND
	03-Apr-08	0.18	1.0	ND		ND
	28-Oct-08	0.18	1.0	ND		ND
	07-Apr-09	0.18	1.0	ND		ND
	27-Oct-09	0.77	1.0	ND		ND
	08-Apr-10	0.77	1.0	ND		ND
	13-Oct-10	0.77	1.0	ND		ND
	27-Apr-11	0.77	1.0	ND		ND
Cis-1,2-Dichloroethylene	11-Oct-07	0.14	5.0	2.00	J	ND
	03-Apr-08	0.14	5.0	2.00	J	ND
	28-Oct-08	0.14	5.0	1.40	J	ND
	07-Apr-09	0.14	5.0	0.70	J	ND
	27-Oct-09	0.25	5.0	0.80	J	ND
	08-Apr-10	0.25	5.0	2.10	J	ND
	13-Oct-10	0.25	5.0	1.70	J	ND
	27-Apr-11	0.25	5.0	3.00	J	ND
1,1-Dichloroethane	Oct-99	NR	NA	ND		ND
	Apr-00	NR	NA	15		ND
	Oct-00	NR	NA	ND		ND
	Apr-01	NR	NA	ND		ND
	Oct-01	NR	5	NA		ND
	Apr-02	NR	5	NA		ND
	Apr-03	NR	25	ND		ND
	05-Apr-05	NR	25	ND		ND
	15-Dec-05	NR	25	ND		ND
	21-Apr-06	NS	NS	NS		ND
	12-Oct-06	NS	NS	NS		ND
	26-Apr-07	NR	5.00	ND		ND
	11-Oct-07	0.16	5.0	0.30	J	ND
	03-Apr-08	0.14	5.0	ND		ND
	28-Oct-08	0.16	5.0	ND		ND
	07-Apr-09	0.16	5.0	ND		ND
	27-Oct-09	0.20	5.0	ND		ND
	08-Apr-10	0.20	5.0	ND		ND
	13-Oct-10	0.20	5.0	ND		ND
	27-Apr-11	0.20	5.0	0.30	J	ND
1,2-Dichloroethane	11-Oct-07	0.12	1.0	0.40	J	ND
	03-Apr-08	0.12	1.0	0.30	J	ND
	28-Oct-08	0.12	1.0	0.20	J	ND
	07-Apr-09	0.12	1.0	ND		ND
	27-Oct-09	0.27	1.0	ND		ND
	08-Apr-10	0.27	1.0	ND		ND
	13-Oct-10	0.27	1.0	ND		ND
	27-Apr-11	0.27	1.0	ND		ND
1,2-Dichloropropane	11-Oct-07	0.17	1.0	0.30	J	ND
	03-Apr-08	0.17	1.0	ND		ND
	28-Oct-08	0.17	1.0	0.20	J	ND
	07-Apr-09	0.17	1.0	ND		ND
	27-Oct-09	0.21	1.0	ND		ND
	08-Apr-10	0.21	1.0	ND		ND
	13-Oct-10	0.21	1.0	ND		ND
	27-Apr-11	0.21	1.0	0.30	J	ND

TABLE 14

SUMMARY OF HISTORICAL CONSISTUENTS
LEACHATE

Constituent	Date	Concentration (ug/L)				
		DL	RL	Leachate		Blanks
2-Butanone	Oct-99	NR	NA	ND		ND
	Apr-00	NR	NA	5,343		ND
	Oct-00	NR	NA	ND		ND
	Apr-01	NR	NA	ND		ND
	Oct-01	NR	100	ND		ND
	Apr-02	NR	100	5,640		ND
	Apr-03	NR	500	861		ND
	05-Apr-05	NR	500	1,580		ND
	15-Dec-05	NR	500	ND		ND
	21-Apr-06	NS	NS	NS		ND
	12-Oct-06	NS	NS	NS		ND
	26-Apr-07	NR	100.00	ND		ND
	11-Oct-07	0.85	100.0	45.10	J	ND
	03-Apr-08	0.85	100.0	81.90	J	ND
	28-Oct-08	0.85	100.0	166.00		ND
	07-Apr-09	0.85	100.0	33.30	J	ND
	27-Oct-09	2.21	100.0	6.70	J	ND
	08-Apr-10	2.21	100.0	ND		ND
	13-Oct-10	2.21	100.0	5.30	J	ND
	27-Apr-11	2.21	100.0	4.60	J	ND
2-Hexanone	05-Apr-05	NR	50	67.1		ND
	15-Dec-05	NR	250	ND		ND
	21-Apr-06	NS	NS	NS		ND
	12-Oct-06	NS	NS	NS		ND
	26-Apr-07	NR	50.00	ND		ND
	11-Oct-07	1.00	50.0	ND		ND
	03-Apr-08	1.00	50.0	ND		ND
	28-Oct-08	1.00	50.0	ND		ND
	07-Apr-09	1.00	50.0	ND		ND
	27-Oct-09	1.57	50.0	ND		ND
	08-Apr-10	1.57	50.0	ND		ND
	13-Oct-10	1.57	50.0	ND		ND
	27-Apr-11	1.57	50.0	ND		ND
Styrene	05-Apr-05	NR	10	33.2		ND
	15-Dec-05	NR	50	ND		ND
	21-Apr-06	NS	NS	NS		ND
	12-Oct-06	NS	NS	NS		ND
	26-Apr-07	NR	10.00	ND		ND
	11-Oct-07	0.16	1.0	2.10		ND
	03-Apr-08	0.16	1.0	1.70		ND
	28-Oct-08	0.16	1.0	ND		ND
	07-Apr-09	0.16	1.0	2.00		ND
	27-Oct-09	0.19	1.0	1.90		ND
	08-Apr-10	0.19	1.0	7.30		ND
	13-Oct-10	0.19	1.0	5.90		ND
	27-Apr-11	0.19	1.0	11.70		ND
1,2-Dichlorobenzene	11-Oct-07	0.13	5.0	1.10	J	ND
	03-Apr-08	0.13	5.0	1.10	J	ND
	28-Oct-08	0.13	5.0	0.90	J	ND
	07-Apr-09	0.13	5.0	ND		ND
	27-Oct-09	0.32	5.0	0.80	J	ND
	08-Apr-10	0.32	5.0	ND		ND
	13-Oct-10	0.32	5.0	ND		ND
	27-Apr-11	0.32	5.0	ND		ND
1,4-Dichlorobenzene	05-Apr-05	NR	5	12.5		ND
	15-Dec-05	NR	25	ND		ND
	21-Apr-06	NS	NS	NS		ND
	12-Oct-06	NS	NS	NS		ND
	26-Apr-07	NR	3.00	13.40		ND
	11-Oct-07	0.21	1.0	15.70		ND
	03-Apr-08	0.21	1.0	14.90		ND
	28-Oct-08	0.21	1.0	13.40		ND
	07-Apr-09	0.21	1.0	9.60		ND
	27-Oct-09	0.39	1.0	11.90		ND
	08-Apr-10	0.39	1.0	13.10		ND
	13-Oct-10	0.39	1.0	11.30		ND
	27-Apr-11	0.39	1.0	13.90		ND
Trichloroethylene	Oct-99	NR	NA	ND		ND
	Apr-00	NR	NA	5.6		ND
	Oct-00	NR	NA	ND		ND
	Apr-01	NR	NA	ND		ND
	Oct-01	NR	5	NA		ND
	Apr-02	NR	5	NA		ND
	Apr-03	NR	25	ND		ND
	05-Apr-05	NR	25	ND		ND
	15-Dec-05	NR	25	ND		ND
	21-Apr-06	NS	NS	NS		ND
	12-Oct-06	NS	NS	NS		ND
	26-Apr-07	NR	3.00	ND		ND
	11-Oct-07	0.13	1.0	0.30	J	ND
	03-Apr-08	0.13	1.0	0.20	J	ND
	28-Oct-08	0.13	1.0	0.50	J	ND
	07-Apr-09	0.13	1.0	ND		ND
	27-Oct-09	0.23	1.0	ND		ND
	08-Apr-10	0.23	1.0	0.50	J	ND
	13-Oct-10	0.23	1.0	ND		ND
	27-Apr-11	0.23	1.0	1.40		ND

TABLE 14

SUMMARY OF HISTORICAL CONSISTUENTS
LEACHATE

Constituent	Date	Concentration (ug/L)			
		DL	RL	Leachate	Blanks
Tetrachloroethylene	Oct-99	NR	NA	ND	ND
	Apr-00	NR	NA	22	ND
	Oct-00	NR	NA	ND	ND
	Apr-01	NR	NA	ND	ND
	Oct-01	NR	5	NA	ND
	Apr-02	NR	5	ND	ND
	Apr-03	NR	25	ND	ND
	05-Apr-05	NR	25	ND	ND
	15-Dec-05	NR	25	ND	ND
	21-Apr-06	NS	NS	NS	ND
	12-Oct-06	NS	NS	NS	ND
	26-Apr-07	NR	3.00	ND	ND
	11-Oct-07	0.16	1.0	ND	ND
	03-Apr-08	0.16	1.0	ND	ND
	28-Oct-08	0.16	1.0	ND	ND
	07-Apr-09	0.16	1.0	ND	ND
	27-Oct-09	0.17	1.0	ND	ND
	08-Apr-10	0.17	1.0	ND	ND
	13-Oct-10	0.17	1.0	ND	ND
	27-Apr-11	0.17	1.0	ND	ND
Ethylbenzene	Oct-99	NR	NA	ND	ND
	Apr-00	NR	NA	ND	ND
	Oct-00	NR	NA	ND	ND
	Apr-01	NR	NA	66	ND
	Oct-01	NR	5	NA	ND
	Apr-02	NR	5	93.8	ND
	Apr-03	NR	25	128	ND
	05-Apr-05	NR	25	176	ND
	15-Dec-05	NR	25	126	ND
	21-Apr-06	NS	NS	NS	ND
	12-Oct-06	NS	NS	NS	ND
	26-Apr-07	NR	5.00	9.50	ND
	11-Oct-07	0.16	1.0	179.00	ND
	03-Apr-08	0.16	1.0	160.00	ND
	28-Oct-08	0.16	1.0	105.00	ND
	07-Apr-09	0.16	1.0	34.60	ND
	27-Oct-09	0.21	1.0	37.80	ND
	08-Apr-10	0.21	1.0	113.00	ND
	13-Oct-10	0.21	1.0	93.70	ND
	27-Apr-11	0.21	1.0	97.60	ND
Methylene Chloride	Oct-99	NR	NA	32	ND
	Apr-00	NR	NA	234	ND
	Oct-00	NR	NA	ND	ND
	Apr-01	NR	NA	69	ND
	Oct-01	NR	10	NA	ND
	Apr-02	NR	10	NA	ND
	Apr-03	NR	50	ND	ND
	05-Apr-05	NR	50	ND	ND
	15-Dec-05	NR	50	ND	ND
	21-Apr-06	NS	NS	NS	ND
	12-Oct-06	NS	NS	NS	ND
	26-Apr-07	NR	5.00	ND	ND
	11-Oct-07	0.14	1.0	0.30 B	0.20 J
	03-Apr-08	0.14	1.0	ND	ND
	28-Oct-08	0.14	1.0	0.20 J	ND
	07-Apr-09	0.14	1.0	ND	ND
	27-Oct-09	0.64	1.0	ND	ND
	08-Apr-10	0.64	1.0	ND	ND
	13-Oct-10	0.64	1.0	ND	ND
	27-Apr-11	0.64	1.0	ND	ND
Toluene	Oct-99	NR	NA	9	ND
	Apr-00	NR	NA	16	ND
	Oct-00	NR	NA	ND	ND
	Apr-01	NR	NA	251	ND
	Oct-01	NR	5	NA	ND
	Apr-02	NR	5	148	ND
	Apr-03	NR	25	125	ND
	05-Apr-05	NR	25	108	ND
	15-Dec-05	NR	25	ND	ND
	21-Apr-06	NS	NS	NS	ND
	12-Oct-06	NS	NS	NS	ND
	26-Apr-07	NR	5.00	5.60	ND
	11-Oct-07	0.13	1.0	22.80	ND
	03-Apr-08	0.13	1.0	20.10	ND
	28-Oct-08	0.13	1.0	24.00	ND
	07-Apr-09	0.13	1.0	12.00	ND
	27-Oct-09	0.23	1.0	14.00	ND
	08-Apr-10	0.23	1.0	23.90	ND
	13-Oct-10	0.23	1.0	20.40	ND
	27-Apr-11	0.23	1.0	36.40	ND

TABLE 14

SUMMARY OF HISTORICAL CONSISTUENTS
LEACHATE

Constituent	Date	Concentration (ug/L)			
		DL	RL	Leachate	Blanks
1,1,1-Trichloroethane	Oct-99	NR	NA	75	ND
	Apr-00	NR	NA	29	ND
	Oct-00	NR	NA	ND	ND
	Apr-01	NR	NA	ND	ND
	Oct-01	NR	5	NA	ND
	Apr-02	NR	5	NA	ND
	Apr-03	NR	25	ND	ND
	05-Apr-05	NR	25	ND	ND
	15-Dec-05	NR	25	ND	ND
	21-Apr-06	NS	NS	NS	ND
	12-Oct-06	NS	NS	NS	ND
	26-Apr-07	NR	5.00	ND	ND
	11-Oct-07	0.11	1.0	ND	ND
	03-Apr-08	0.11	1.0	ND	ND
	28-Oct-08	0.11	1.0	ND	ND
	07-Apr-09	0.11	1.0	ND	ND
	27-Oct-09	0.19	1.0	ND	ND
	08-Apr-10	0.19	1.0	ND	ND
	13-Oct-10	0.19	1.0	ND	ND
	27-Apr-11	0.19	1.0	ND	ND
1,2,3-Trichloropropane	11-Oct-07	0.06	1.0	0.10 J	ND
	03-Apr-08	0.06	1.0	ND	ND
	28-Oct-08	0.06	1.0	ND	ND
	07-Apr-09	0.06	1.0	ND	ND
	27-Oct-09	0.43	1.0	ND	ND
	08-Apr-10	0.43	1.0	ND	ND
	13-Oct-10	0.43	1.0	ND	ND
	27-Apr-11	0.43	1.0	ND	ND
1,1,2,2-Tetrachloroethane	11-Oct-07	0.16	3.0	0.30 J	ND
	03-Apr-08	0.16	3.0	ND	ND
	28-Oct-08	0.16	3.0	ND	ND
	07-Apr-09	0.16	3.0	ND	ND
	27-Oct-09	0.26	3.0	ND	ND
	08-Apr-10	0.26	3.0	ND	ND
	13-Oct-10	0.26	3.0	ND	ND
	27-Apr-11	0.26	3.0	ND	ND
Trichlorofluoromethane	Oct-99	NR	NA	220	ND
	Apr-00	NR	NA	37	ND
	Oct-00	NR	NA	ND	ND
	Apr-01	NR	NA	10	ND
	Oct-01	NR	5	NA	ND
	Apr-02	NR	5	NA	ND
	Apr-03	NR	25	ND	ND
	05-Apr-05	NR	25	ND	ND
	15-Dec-05	NR	25	ND	ND
	21-Apr-06	NS	NS	NS	ND
	12-Oct-06	NS	NS	NS	ND
	26-Apr-07	NR	5.00	ND	ND
	11-Oct-07	0.13	1.0	ND	ND
	03-Apr-08	0.13	1.0	ND	ND
	28-Oct-08	0.13	1.0	ND	ND
	07-Apr-09	0.13	1.0	ND	ND
	27-Oct-09	0.24	1.0	ND	ND
	08-Apr-10	0.24	1.0	ND	ND
	13-Oct-10	0.24	1.0	ND	ND
	27-Apr-11	0.24	1.0	ND	ND
Vinyl Chloride	Oct-99	NR	NA	ND	ND
	Apr-00	NR	NA	ND	ND
	Oct-00	NR	NA	ND	ND
	Apr-01	NR	NA	36	ND
	Oct-01	NR	10	NA	ND
	Apr-02	NR	10	NA	ND
	Apr-03	NR	50	ND	ND
	05-Apr-05	NR	50	ND	ND
	15-Dec-05	NR	50	ND	ND
	21-Apr-06	NS	NS	NS	ND
	12-Oct-06	NS	NS	NS	ND
	26-Apr-07	NR	5.00	ND	ND
	11-Oct-07	0.34	1.0	1.10	ND
	03-Apr-08	0.34	1.0	ND	ND
	28-Oct-08	0.34	1.0	ND	ND
	07-Apr-09	0.34	1.0	ND	ND
	27-Oct-09	0.63	1.0	ND	ND
	08-Apr-10	0.63	1.0	ND	ND
	13-Oct-10	0.63	1.0	ND	ND
	27-Apr-11	0.63	1.0	ND	ND

TABLE 14

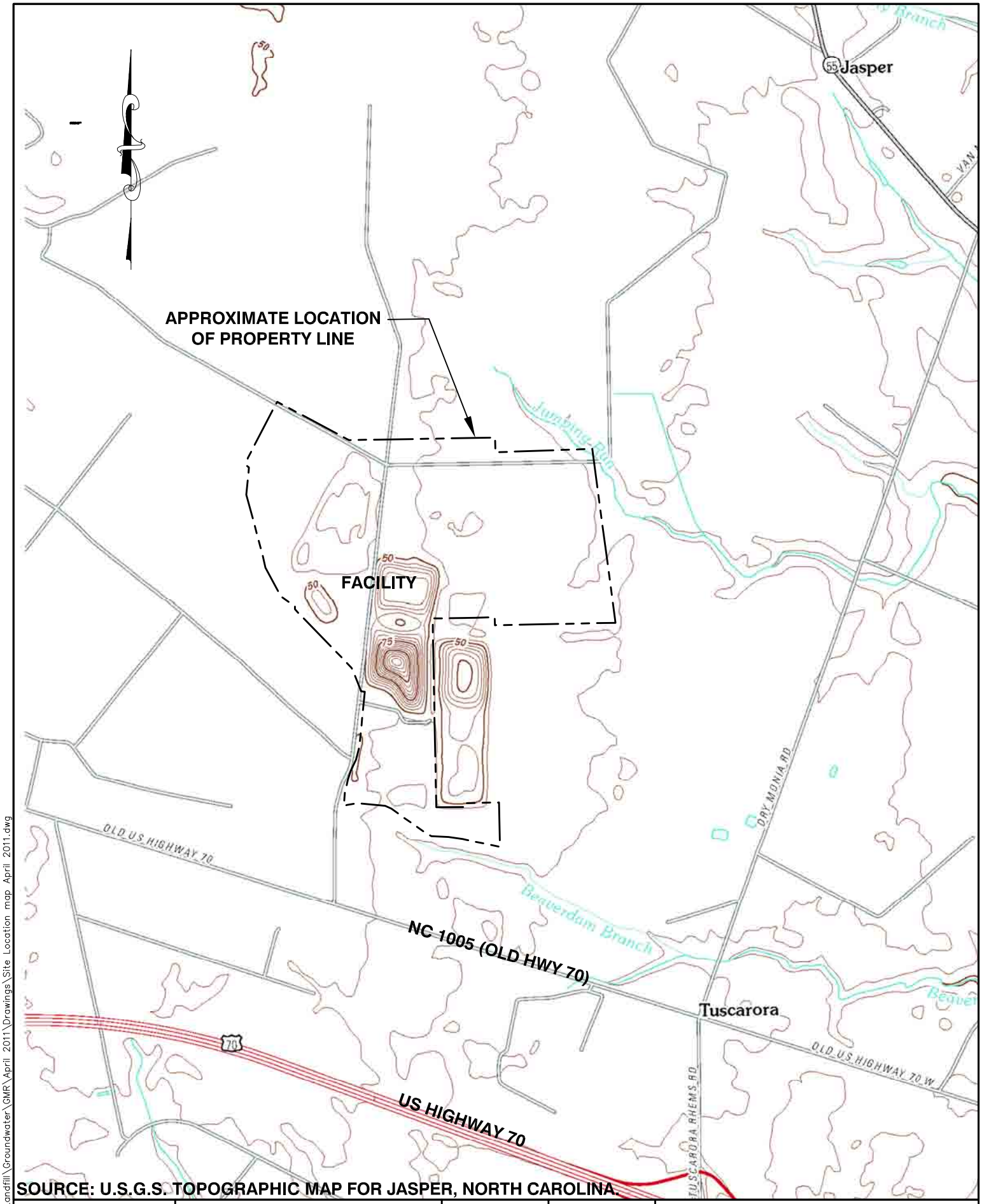
SUMMARY OF HISTORICAL CONSISTUENTS
LEACHATE

Constituent	Date	Concentration (ug/L)				
		DL	RL	Leachate		Blanks
4-Methyl-2-Pentanone	Oct-99	NR	NA	ND		ND
	Apr-00	NR	NA	116		ND
	Oct-00	NR	NA	ND		ND
	Apr-01	NR	NA	471		ND
	Oct-01	NR	50	NA		ND
	Apr-02	NR	50	NA		ND
	Apr-03	NR	500	923		ND
	05-Apr-05	NR	500	2530		ND
	15-Dec-05	NR	500	ND		ND
	21-Apr-06	NS	NS	NS		ND
	12-Oct-06	NS	NS	NS		ND
	26-Apr-07	NR	100.00	ND		ND
	11-Oct-07	0.68	100.0	51.50	J	ND
	03-Apr-08	0.68	100.0	130.00		ND
	28-Oct-08	0.68	100.0	230.00		ND
	07-Apr-09	0.68	100.0	25.80	J	ND
	27-Oct-09	1.19	100.0	1.40	J	ND
	08-Apr-10	1.19	100.0	3.60	J	ND
	13-Oct-10	1.19	100.0	7.10	J	ND
	27-Apr-11	1.19	100.0	2.20	J	ND
Xylenes (total)	Oct-99	NR	NA	ND		ND
	Apr-00	NR	NA	ND		ND
	Oct-00	NR	NA	ND		ND
	Apr-01	NR	NA	52		ND
	Oct-01	NR	5	NA		ND
	Apr-02	NR	5	60.6		ND
	Apr-03	NR	25	102		ND
	05-Apr-05	NR	25	147		ND
	15-Dec-05	NR	25	189		ND
	21-Apr-06	NR	NS	NS		ND
	12-Oct-06	NR	NS	NS		ND
	26-Apr-07	NR	4.00	37.20		ND
	11-Oct-07	0.48	5.0	158.00		ND
	03-Apr-08	0.48	5.0	97.20		ND
	23-Oct-08	0.48	5.0	61.70		ND
	07-Apr-09	0.48	5.0	33.20		ND
	27-Oct-09	0.68	5.0	36.00		ND
	08-Apr-10	0.68	5.0	55.40		ND
	13-Oct-10	0.68	5.0	51.20		ND
	27-Apr-11	0.68	5.0	90.90		ND

Notes:
1. All concentrations are in ug/L.
2. RL = Laboratory reporting limit (NC SWSL or lower from October 2007 to present)
3. ND = Not detected above reporting limit
4. J = Estimated value between the DL and the QL
5. B = Blank-qualified data; result is expected to be biased high based on concentrations in the blanks
6. DL = Laboratory detection limit
7. NA = Data not available.
8. NS = Not sampled.
9. NR = Not Reported.

Figure

Figure No. 1 Site Location Map



SOURCE: U.S.G.S. TOPOGRAPHIC MAP FOR JASPER, NORTH CAROLINA.

FIGURE NO. 1	JOYCE ENGINEERING, INC. 2211 WEST MEADOWVIEW ROAD GREENSBORO, N.C. 27407 PHONE: (336) 323-0092	SCALE 1"=2000'	PROJECT NO. 618.1001.12	CRSWMA: TUSCARORA LANDFILLS SITE LOCATION MAP

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P:\CRSWMA\Landfill\Groundwater\GMR\April 2011\Drawings\Site Location map April 2011.dwg

Drawings

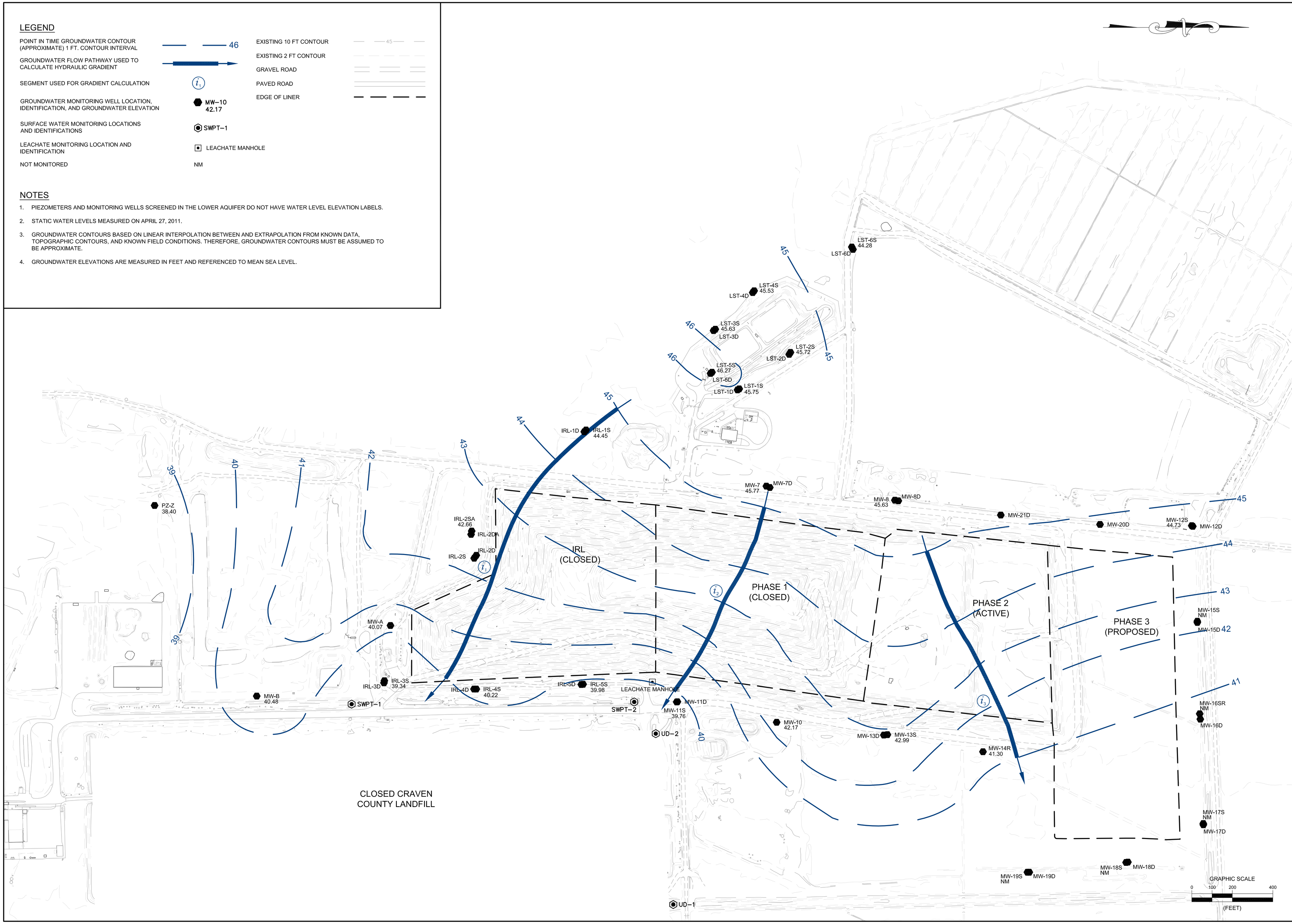
Drawing No. 1	Shallow Aquifer Groundwater Surface Contour Map
Drawing No. 2	Deep Aquifer Groundwater Surface Contour Map

LEGEND

POINT IN TIME GROUNDWATER CONTOUR (APPROXIMATE) 1 FT. CONTOUR INTERVAL	46
GROUNDWATER FLOW PATHWAY USED TO CALCULATE HYDRAULIC GRADIENT	
SEGMENT USED FOR GRADIENT CALCULATION	i_1
GROUNDWATER MONITORING WELL LOCATION, IDENTIFICATION, AND GROUNDWATER ELEVATION	MW-10 42.17
SURFACE WATER MONITORING LOCATIONS AND IDENTIFICATIONS	SWPT-1
LEACHATE MONITORING LOCATION AND IDENTIFICATION	LEACHATE MANHOLE
NOT MONITORED	NM
EXISTING 10 FT CONTOUR	45
EXISTING 2 FT CONTOUR	
GRAVEL ROAD	
PAVED ROAD	
EDGE OF LINER	

NOTES

1. PIEZOMETERS AND MONITORING WELLS SCREENED IN THE LOWER AQUIFER DO NOT HAVE WATER LEVEL ELEVATION LABELS.
2. STATIC WATER LEVELS MEASURED ON APRIL 27, 2011.
3. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE, GROUNDWATER CONTOURS MUST BE ASSUMED TO BE APPROXIMATE.
4. GROUNDWATER ELEVATIONS ARE MEASURED IN FEET AND REFERENCED TO MEAN SEA LEVEL.



DATE	REVISIONS AND RECORD OF ISSUE	NO	BY	CK	APP

DESIGNED ACE
DRAWN HRW
CHECKED DSG
APPROVED JJK
DATE 07/07/2011

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JOYCE ENGINEERING, INC.
2211 W. MEADOWVIEW ROAD
GREENSBORO, NC 27407
PHONE: (336) 292-1092
NC CORP. LIC. C-0782

CRSWMA: TUSCARORA LANDFILL
TUSCARORA, NORTH CAROLINA

SHALLOW AQUIFER GROUNDWATER SURFACE CONTOUR MAP
APRIL 27, 2011

PROJECT NO.
618.1001.12.01

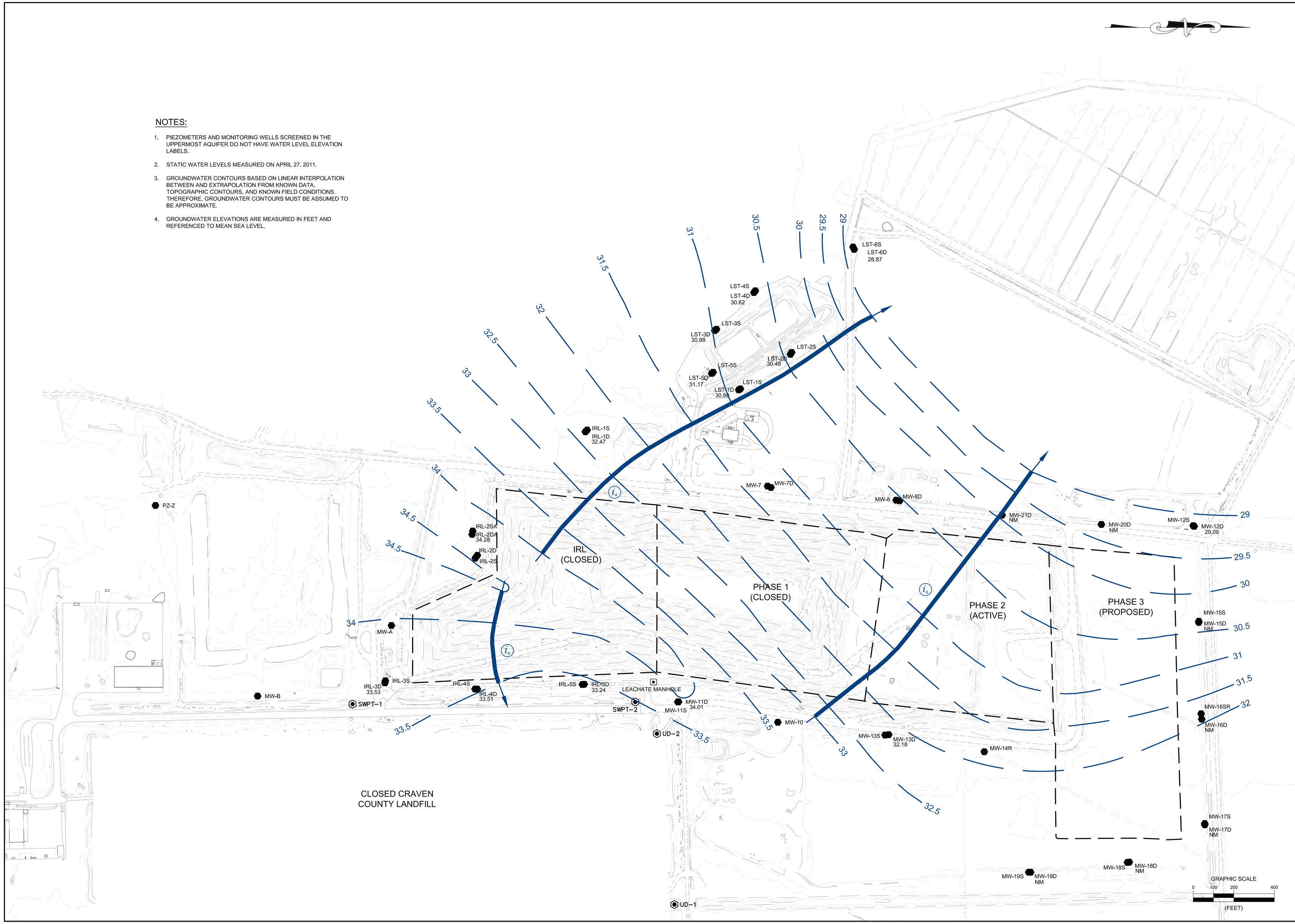
SCALE
AS NOTED

DRAWING NO.
1

L:\CRSWMA\dwg\GW EVENT MAPS\CRSWMA GW Event Upper Aquifer April 2011.dwg Layout=Layout1

NOTES:

1. PIEZOMETERS AND MONITORING WELLS SCREENED IN THE UPPERMOST AQUIFER DO NOT HAVE WATER LEVEL ELEVATION LABELS.
2. STATIC WATER LEVELS MEASURED ON APRIL 27, 2011.
3. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE, GROUNDWATER CONTOURS MUST BE ASSUMED TO BE APPROXIMATE.
4. GROUNDWATER ELEVATIONS ARE MEASURED IN FEET AND REFERENCED TO MEAN SEA LEVEL.



DATE	REVISIONS AND RECORD OF ISSUE	NO	BY	CK	APP

DESIGNED ACE
DRAWN HRW
CHECKED DSG
APPROVED JJK
DATE 07/07/2011

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NC CORP. LIC. C-0782

CRSWMA: TUSCARORA LANDFILL
TUSCARORA, NORTH CAROLINA

DEEP AQUIFER GROUNDWATER
SURFACE CONTOUR MAP
APRIL 27, 2011

PROJECT NO.
618.1001.12.01

SCALE
AS NOTED

DRAWING NO.
2

L:\CRSWMA\dwg\GW EVENT MAPS\CRSWMA GW Event Lower Aquifer April 2011.dwg Layout=Layout1

Appendices

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

Appendix 1 Laboratory Analytical Reports and Field Data

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6035 A

CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 04/27/11
DATE REPORTED : 05/19/11

REVIEWED BY:

PARAMETERS	MDL	Regional SWSL	Regional LF 1S	Regional LF 1D	Regional Land. 2S-A	Regional Land. 2-D-A	Regional LF 3S	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.9	6.3			5.6	04/27/11	RJH	SM4500HB
Antimony, ug/l	0.14	6.0	--- U	--- U			1.6 J	05/02/11	CMF	EPA200.8
Arsenic, ug/l	0.10	10.0	0.18 J	0.82 J			0.71 J	05/02/11	CMF	EPA200.8
Barium, ug/l	0.02	100.0	170	45.8 J			48.3 J	05/02/11	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	0.59 J	0.06 J			0.14 J	05/02/11	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	0.11 J	0.10 J			0.06 J	05/02/11	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	1.3 J	0.24 J			0.69 J	05/02/11	CMF	EPA200.8
Copper, ug/l	0.02	10.0	0.96 J	1.1 J			0.62 J	05/02/11	CMF	EPA200.8
Total Chromium, ug/l	0.04	10.0	0.81 J	0.56 J			1.6 J	05/02/11	CMF	EPA200.8
Lead, ug/l	0.02	10.0	1.3 J	0.63 J			1.0 J	05/02/11	CMF	EPA200.8
Nickel, ug/l	0.04	50.0	2.7 J	0.88 J			3.1 J	05/02/11	CMF	EPA200.8
Selenium, ug/l	0.20	10.0	--- U	0.31 J			1.5 J	05/02/11	CMF	EPA200.8
Silver, ug/l	0.02	10.0	--- U	--- U			--- U	05/02/11	CMF	EPA200.8
Thallium, ug/l	0.02	5.5	0.03 J	--- U			0.05 J	05/02/11	CMF	EPA200.8
Vanadium, ug/l	0.14	25.0	1.2 J	0.79 J			2.0 J	05/02/11	CMF	EPA200.8
Zinc, ug/l	0.24	10.0	4.4 J	3.2 J			8.7 J	05/02/11	CMF	EPA200.8
Turbidity, NTU	1.0	1.0	16	29			44	04/27/11	MEL	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0	156	252			982	04/27/11	RJH	SM2510B
Temperature, °C			17	16			16	04/27/11	RJH	SM2550B
Static Water Level, feet			6.11	17.72	8.71	17.30	9.68	04/27/11	RJH	
Well Depth, feet			17.72	43.96	17.78	30.99	16.34	04/27/11	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37115
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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ID#: 6035 A

CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 04/27/11
DATE REPORTED : 05/19/11

REVIEWED BY:

PARAMETERS	MDL	Regional SWSL	Regional LF 3D	Regional LF 4S	Regional LF 4D	Regional LF 5S	Regional LF 5D	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.6	5.0	6.7	6.0		04/27/11	RJH	SM4500HB
Antimony, ug/l	0.14	6.0	0.28 J	--- U	--- U	--- U		05/02/11	CMF	EPA200.8
Arsenic, ug/l	0.10	10.0	0.22 J	0.79 J	0.34 J	2.2 J		05/02/11	CMF	EPA200.8
Barium, ug/l	0.02	100.0	66.5 J	150	51.6 J	107		05/02/11	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	0.13 J	0.26 J	0.13 J	--- U		05/02/11	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	0.19 J	0.24 J	0.08 J	0.11 J		05/02/11	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	0.26 J	2.3 J	0.33 J	0.71 J		05/02/11	CMF	EPA200.8
Copper, ug/l	0.02	10.0	0.68 J	0.83 J	0.57 J	0.64 J		05/02/11	CMF	EPA200.8
Total Chromium, ug/l	0.04	10.0	1.8 J	0.90 J	1.4 J	0.37 J		05/02/11	CMF	EPA200.8
Lead, ug/l	0.02	10.0	0.51 J	0.52 J	0.44 J	0.26 J		05/02/11	CMF	EPA200.8
Nickel, ug/l	0.04	50.0	1.9 J	3.3 J	1.6 J	4.4 J		05/02/11	CMF	EPA200.8
Selenium, ug/l	0.20	10.0	0.76 J	2.3 J	0.34 J	3.8 J		05/02/11	CMF	EPA200.8
Silver, ug/l	0.02	10.0	--- U	--- U	--- U	--- U		05/02/11	CMF	EPA200.8
Thallium, ug/l	0.02	5.5	--- U	0.04 J	--- U	--- U		05/02/11	CMF	EPA200.8
Vanadium, ug/l	0.14	25.0	1.6 J	0.49 J	1.4 J	1.5 J		05/02/11	CMF	EPA200.8
Zinc, ug/l	0.24	10.0	1.8 J	8.1 J	3.1 J	118		05/02/11	CMF	EPA200.8
Turbidity, NTU	1.0	1.0	110	31	70	65		04/27/11	MEL	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0	734	505	605	1472		04/27/11	RJH	SM2510B
Temperature, °C			17	17	18	17		04/27/11	RJH	SM2550B
Static Water Level, feet			15.40	8.12	14.84	8.80	15.42	04/27/11	RJH	
Well Depth, feet			38.50	14.98	34.19	14.61	35.51	04/27/11	RJH	
Zinc, Total Dissolved, ug/l						5.5		05/02/11	CMF	EPA200.8

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
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C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
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COVE CITY ,NC 28523

DATE COLLECTED: 04/27/11
DATE REPORTED : 05/19/11

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-A	MW-B	Piezometer #1	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.9				04/27/11	RJH	SM4500HB
Antimony, ug/l	0.14	6.0	--- U				05/02/11	CMF	EPA200.8
Arsenic, ug/l	0.10	10.0	2.2 J				05/02/11	CMF	EPA200.8
Barium, ug/l	0.02	100.0	37.3 J				05/02/11	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	0.16 J				05/02/11	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	0.06 J				05/02/11	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	0.50 J				05/02/11	CMF	EPA200.8
Copper, ug/l	0.02	10.0	1.2 J				05/02/11	CMF	EPA200.8
Total Chromium, ug/l	0.04	10.0	0.98 J				05/02/11	CMF	EPA200.8
Lead, ug/l	0.02	10.0	0.76 J				05/02/11	CMF	EPA200.8
Nickel, ug/l	0.04	50.0	1.2 J				05/02/11	CMF	EPA200.8
Selenium, ug/l	0.20	10.0	0.81 J				05/02/11	CMF	EPA200.8
Silver, ug/l	0.02	10.0	--- U				05/02/11	CMF	EPA200.8
Thallium, ug/l	0.02	5.5	--- U				05/02/11	CMF	EPA200.8
Vanadium, ug/l	0.14	25.0	1.3 J				05/02/11	CMF	EPA200.8
Zinc, ug/l	0.24	10.0	5.3 J				05/02/11	CMF	EPA200.8
Turbidity, NTU	1.0	1.0	50				04/27/11	MEL	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0	104				04/27/11	RJH	SM2510B
Temperature, °C			17				04/27/11	RJH	SM2550B
Static Water Level, feet			5.97	8.42	11.12		04/27/11	RJH	
Well Depth, feet			20.46				04/27/11	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37115
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 A

ANALYST: MAO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/04/11
DATE REPORTED: 05/19/11

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Regional LF 1S	Regional LF 1D	Regional LF 3S	Regional LF 3D	Regional LF 4S
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 A

ANALYST: MAO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/04/11
DATE REPORTED: 05/19/11

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Regional LF 4D	Regional LF 5S	MW-A	Trip Blank
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
Mr. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 A

ANALYST: MO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/04/11
DATE REPORTED: 05/17/11

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B
METHOD BLANK RESULTS

PARAMETERS, ug/l	MDL	SWSL	Concentration
1. Chloromethane	0.77	1.00	--- U
2. Vinyl Chloride	0.63	1.00	--- U
3. Bromomethane	0.67	10.00	--- U
4. Chloroethane	0.48	10.00	--- U
5. Trichlorofluoromethane	0.24	1.00	--- U
6. 1,1-Dichloroethene	0.17	5.00	--- U
7. Acetone	9.06	100.00	--- U
8. Iodomethane	0.26	10.00	--- U
9. Carbon Disulfide	0.23	100.00	--- U
10. Methylene Chloride	0.64	1.00	--- U
11. trans-1,2-Dichloroethene	0.23	5.00	--- U
12. 1,1-Dichloroethane	0.20	5.00	--- U
13. Vinyl Acetate	0.20	50.00	--- U
14. cis-1,2-Dichloroethene	0.25	5.00	--- U
15. 2-Butanone	2.21	100.00	--- U
16. Bromochloromethane	0.27	3.00	--- U
17. Chloroform	0.25	5.00	--- U
18. 1,1,1-Trichloroethane	0.19	1.00	--- U
19. Carbon Tetrachloride	0.22	1.00	--- U
20. Benzene	0.24	1.00	--- U
21. 1,2-Dichloroethane	0.27	1.00	--- U
22. Trichloroethene	0.23	1.00	--- U
23. 1,2-Dichloropropane	0.21	1.00	--- U
24. Bromodichloromethane	0.21	1.00	--- U
25. cis-1,3-Dichloropropene	0.24	1.00	--- U
26. 4-methyl-2-Pentanone	1.19	100.00	--- U
27. Toluene	0.23	1.00	--- U
28. trans-1,3-Dichloropropene	0.28	1.00	--- U
29. 1,1,2-Trichloroethane	0.25	1.00	--- U
30. Tetrachloroethene	0.17	1.00	--- U
31. 2-Hexanone	1.57	50.00	--- U
32. Dibromochloromethane	0.24	3.00	--- U
33. 1,2-Dibromoethane	0.26	1.00	--- U
34. Chlorobenzene	0.30	3.00	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.00	--- U
36. Ethylbenzene	0.21	1.00	--- U
37. Xylenes	0.68	5.00	--- U
38. Dibromomethane	0.28	10.00	--- U
39. Styrene	0.19	1.00	--- U
40. Bromoform	0.20	3.00	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.00	--- U
42. 1,2,3-Trichloropropane	0.43	1.00	--- U
43. 1,4-Dichlorobenzene	0.39	1.00	--- U
44. 1,2-Dichlorobenzene	0.32	5.00	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.00	--- U
46. Acrylonitrile	2.72	200.00	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.00	--- U

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
Mr. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 A

ANALYST: MO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/04/11
DATE REPORTED: 05/17/11

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B
SURROGATE RECOVERY RESULTS

Sample Name	Limits (% recovery)	1,2-DCA-d4 (% recovery)	Toluene-d8 (% recovery)	4-BFB (% recovery)
Continuing Calibration std.	70-130	110	99.7	105
Laboratory Control std.	70-130	111	101	103
Method Blank	70-130	112	100	103
Regional Landfill 1S	70-130	110	99.1	103
Regional Landfill 1D	70-130	109	99.0	102
Regional Landfill 3S	70-130	110	99.3	103
Regional Landfill 3D	70-130	110	99.2	102
Regional Landfill 4S	70-130	110	99.2	103
Regional Landfill 4D	70-130	111	99.8	101
Regional Landfill 5S	70-130	111	101	102
Monitoring Well A	70-130	111	101	103
Trip Blank	70-130	112	99.9	102
Regional Landfill 1S M.S.	70-130	112	100	103
Regional Landfill 1S M.S.D.	70-130	112	100	104

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
Mr. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 A

ANALYST: MO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/04/11
DATE REPORTED: 05/17/11

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Sample Spiked: Regional Landfill 1S (6035A)	Spike Amount Ug/l	Sample Result Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)	Spike Dup. Result Ug/l	Spike Dup. Recovery (70-130%)	MS/MSD RPD (50%)
1,1-Dichloroethene	20.0	--- U	20.71	104	20.66	103	0.2
Benzene	20.0	--- U	20.20	101	20.34	102	0.7
Trichloroethene	20.0	--- U	21.08	105	21.56	108	2.3
Toluene	20.0	--- U	20.05	100	20.27	101	1.1
Chlorobenzene	20.0	--- U	20.44	102	20.80	104	1.7

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	20.00	17.69	88.5
Benzene	20.00	17.15	85.8
Trichloroethene	20.00	18.43	92.2
Toluene	20.00	17.08	85.4
Chlorobenzene	20.00	17.64	88.2

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6035 A **Week: 17**

CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY NC 28523

(252) 633-1564

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	Field Parameter	Metals (Dis.)	EPA 8260B	8260 Dup. 1	8260 Dup. 2	8260 Dup. 3
CHLORINE NEUTRALIZED AT COLLECTION																
pH CHECK (LAB)							12					12	12	12	12	12
CONTAINER TYPE, P/G						P	P	P	P	P		P	G	G	G	G
CHEMICAL PRESERVATION						A	A	A	A	A		A	E	E	E	E
Regional LF 1S	04 27 11	1130		17	7	G	G	G	G	G	G		G	G	G	G
Regional LF 1D	04 27 11	1135		16	5	G	G	G	G	G	G		G	G		
Regional Land. 2S-A	04 27 11				1						G					
Regional Land. 2-D-A	04 27 11				1						G					
Regional LF 3S	04 27 11	1150		16	5	G	G	G	G	G	G		G	G		
Regional LF 3D	04 27 11	1155		17	5	G	G	G	G	G	G		G	G		
Regional LF 4S	04 27 11	0910		17	5	G	G	G	G	G	G		G	G		
Regional LF 4D	04 27 11	0905		18	5	G	G	G	G	G	G		G	G		
Regional LF 5S	04 27 11	1205		17	7	G	G	G	G	G	G	G	G	G	G	
Regional LF 5D	04 27 11				1						G					
MW-A	04 27 11	1140		17	5	G	G	G	G	G	G		G	G		

PARAMETERS

CHEMICAL PRESERVATION:
A - NONE
B - HNO_3
C - H_2SO_4
D - NAOH
E - HCL
F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DWQ/GW
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: (Y) N

SAMPLES COLLECTED BY: (Please Print) [signature]

SAMPLES RECEIVED IN LAB AT 02 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
[signature]	04 27 11	[signature]	4/27 253
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested

FORM #5

№ 219688

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6035 A **Week: 17**

CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY NC 28523

(252) 633-1564

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	Field Parameter	Metals (Dis.)	EPA 8260B	8260 Dup. 1	8260 Dup. 2	8260 Dup. 3
CHLORINE NEUTRALIZED AT COLLECTION																
pH CHECK (LAB)																
CONTAINER TYPE, P/G						P	P	P	P	P		P	G	G	G	G
CHEMICAL PRESERVATION						A	A	A	A	A		A	E	E	E	E
MW-B	04 27 11				1						G					
Piezometer #1	04 27 11				1						G					
Trip Blank					2								G	G		

PARAMETERS: A - NONE; B - HNO_3; C - H_2SO_4; D - NAOH; E - HCL; F - ZINC ACETATE; G - NA THIOSULFATE

CLASSIFICATION:
☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DWQ/GW
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: (Y) N

SAMPLES COLLECTED BY: (Please Print) H Lage / Fat

SAMPLES RECEIVED IN LAB AT 02 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Lage	04 27 11	[illegible]	4/27/11
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested

FORM #5

№ 219687

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6035 D

CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 04/27/11
DATE REPORTED : 05/19/11

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-7	MW-8	MW-10	MW-11S	MW-11D	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.3	4.8	5.1	4.0	6.8	04/27/11	RJH	SM4500HB
Antimony, ug/l	0.14	6.0	--- U	0.37 J	0.22 J	0.17 J	--- U	05/03/11	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0	2.9 J	1.5 J	2.4 J	0.26 J	--- U	05/03/11	LFJ	EPA200.8
Barium, ug/l	0.02	100.0	52.1 J	86.4 J	55.5 J	33.7 J	38.6 J	05/03/11	LFJ	EPA200.8
Beryllium, ug/l	0.02	1.0	0.11 J	0.47 J	0.31 J	3	--- U	05/03/11	LFJ	EPA200.8
Cadmium, ug/l	0.02	1.0	0.21 J	0.11 J	0.31 J	0.52 J	0.06 J	05/03/11	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	0.56 J	0.69 J	0.93 J	4.7 J	0.08 J	05/03/11	LFJ	EPA200.8
Copper, ug/l	0.02	10.0	1.5 J	1.0 J	1.7 J	0.98 J	0.72 J	05/03/11	LFJ	EPA200.8
Total Chromium, ug/l	0.04	10.0	3.3 J	3.2 J	2.2 J	2.0 J	--- U	05/03/11	LFJ	EPA200.8
Lead, ug/l	0.02	10.0	2.0 J	2.5 J	2.0 J	2.8 J	0.12 J	05/03/11	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0	2.2 J	1.3 J	1.9 J	8.1 J	1.1 J	05/03/11	LFJ	EPA200.8
Selenium, ug/l	0.20	10.0	0.28 J	--- U	0.43 J	0.92 J	--- U	05/03/11	LFJ	EPA200.8
Silver, ug/l	0.02	10.0	--- U	--- U	--- U	--- U	--- U	05/03/11	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5	0.12 J	0.06 J	0.05 J	0.04 J	0.11 J	05/03/11	LFJ	EPA200.8
Vanadium, ug/l	0.14	25.0	4.7 J	6.8 J	3.5 J	2.2 J	--- U	05/03/11	LFJ	EPA200.8
Zinc, ug/l	0.24	10.0	14	4.9 J	10	9.3 J	3.8 J	05/03/11	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	85	60	75	27	55	04/27/11	MEL	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0	551	84	139	1115	475	04/27/11	RJH	SM2510B
Temperature, °C			18	18	17	16	17	04/27/11	RJH	SM2550B
Static Water Level, feet			4.92	5.31	5.15	7.91	13.54	04/27/11	RJH	
Well Depth, feet			16.59	15.62	15.95	14.04	34.42	04/27/11	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6035 D

CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 04/27/11
DATE REPORTED : 05/19/11

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-12s	Well #12 Deep	Well #13 Shallow	Well #13 Deep	MW-14R	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.8	6.8	5.1	6.9	4.0	04/27/11	RJH	SM4500HB
Antimony, ug/l	0.14	6.0	--- U	--- U	--- U	--- U	--- U	05/03/11	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0	0.28 J	--- U	0.86 J	--- U	0.20 J	05/03/11	LFJ	EPA200.8
Barium, ug/l	0.02	100.0	64.9 J	26.1 J	56.9 J	44.4 J	128	05/03/11	LFJ	EPA200.8
Beryllium, ug/l	0.02	1.0	0.36 J	--- U	0.25 J	--- U	1	05/03/11	LFJ	EPA200.8
Cadmium, ug/l	0.02	1.0	0.20 J	0.09 J	0.14 J	0.08 J	0.31 J	05/03/11	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	1.3 J	0.14 J	0.45 J	0.14 J	1.5 J	05/03/11	LFJ	EPA200.8
Copper, ug/l	0.02	10.0	1.2 J	0.77 J	1.3 J	0.93 J	1.4 J	05/03/11	LFJ	EPA200.8
Total Chromium, ug/l	0.04	10.0	0.43 J	0.78 J	1.1 J	0.51 J	1.5 J	05/03/11	LFJ	EPA200.8
Lead, ug/l	0.02	10.0	0.27 J	0.21 J	0.57 J	0.31 J	1.2 J	05/03/11	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0	1.9 J	1.2 J	1.0 J	1.0 J	3.1 J	05/03/11	LFJ	EPA200.8
Selenium, ug/l	0.20	10.0	0.83 J	--- U	0.35 J	--- U	1.1 J	05/03/11	LFJ	EPA200.8
Silver, ug/l	0.02	10.0	--- U	--- U	--- U	--- U	--- U	05/03/11	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5	--- U	--- U	--- U	--- U	0.07 J	05/03/11	LFJ	EPA200.8
Vanadium, ug/l	0.14	25.0	--- U	--- U	0.97 J	0.48 J	0.62 J	05/03/11	LFJ	EPA200.8
Zinc, ug/l	0.24	10.0	12	2.0 J	4.9 J	1.2 J	7.5 J	05/03/11	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	16	60	30	75	17	04/27/11	MEL	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0	123	439	164	437	284	04/27/11	RJH	SM2510B
Temperature, °C			17	18	17	17	18	04/27/11	RJH	SM2550B
Static Water Level, feet			7.39	22.81	3.22	13.75	5.68	04/27/11	RJH	
Well Depth, feet			17.99	36.03	17.74	34.31	17.37	04/27/11	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37775
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 D

ANALYST: MAO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/02/11
DATE REPORTED: 05/19/11

Page: 1

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VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	MW-7	MW-8	MW-10	MW-11S	MW-11D
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 D

ANALYST: MAO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/02/11
DATE REPORTED: 05/19/11

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	MW-12s	Well #12 Deep	Well #13 Shallow	Well #13 Deep	MW-14R
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
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CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 D

ANALYST: MAO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/02/11
DATE REPORTED: 05/19/11

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Trip Blank
1. Chloromethane	0.77	1.0	--- U
2. Vinyl Chloride	0.63	1.0	--- U
3. Bromomethane	0.67	10.0	--- U
4. Chloroethane	0.48	10.0	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U
7. Acetone	9.06	100.0	--- U
8. Iodomethane	0.26	10.0	--- U
9. Carbon Disulfide	0.23	100.0	--- U
10. Methylene Chloride	0.64	1.0	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U
13. Vinyl Acetate	0.20	50.0	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U
15. 2-Butanone	2.21	100.0	--- U
16. Bromochloromethane	0.27	3.0	--- U
17. Chloroform	0.25	5.0	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U
20. Benzene	0.24	1.0	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U
22. Trichloroethene	0.23	1.0	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U
24. Bromodichloromethane	0.21	1.0	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U
27. Toluene	0.23	1.0	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U
30. Tetrachloroethene	0.17	1.0	--- U
31. 2-Hexanone	1.57	50.0	--- U
32. Dibromochloromethane	0.24	3.0	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U
34. Chlorobenzene	0.30	3.0	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U
36. Ethylbenzene	0.21	1.0	--- U
37. Xylenes	0.68	5.0	--- U
38. Dibromomethane	0.28	10.0	--- U
39. Styrene	0.19	1.0	--- U
40. Bromoform	0.20	3.0	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U
46. Acrylonitrile	2.72	200.0	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
Mr. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 D

ANALYST: MO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/02/11
DATE REPORTED: 05/17/11

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B
METHOD BLANK RESULTS

PARAMETERS, ug/l	MDL	SWSL	Concentration
1. Chloromethane	0.77	1.00	--- U
2. Vinyl Chloride	0.63	1.00	--- U
3. Bromomethane	0.67	10.00	--- U
4. Chloroethane	0.48	10.00	--- U
5. Trichlorofluoromethane	0.24	1.00	--- U
6. 1,1-Dichloroethene	0.17	5.00	--- U
7. Acetone	9.06	100.00	--- U
8. Iodomethane	0.26	10.00	--- U
9. Carbon Disulfide	0.23	100.00	--- U
10. Methylene Chloride	0.64	1.00	--- U
11. trans-1,2-Dichloroethene	0.23	5.00	--- U
12. 1,1-Dichloroethane	0.20	5.00	--- U
13. Vinyl Acetate	0.20	50.00	--- U
14. cis-1,2-Dichloroethene	0.25	5.00	--- U
15. 2-Butanone	2.21	100.00	--- U
16. Bromochloromethane	0.27	3.00	--- U
17. Chloroform	0.25	5.00	--- U
18. 1,1,1-Trichloroethane	0.19	1.00	--- U
19. Carbon Tetrachloride	0.22	1.00	--- U
20. Benzene	0.24	1.00	--- U
21. 1,2-Dichloroethane	0.27	1.00	--- U
22. Trichloroethene	0.23	1.00	--- U
23. 1,2-Dichloropropane	0.21	1.00	--- U
24. Bromodichloromethane	0.21	1.00	--- U
25. cis-1,3-Dichloropropene	0.24	1.00	--- U
26. 4-methyl-2-Pentanone	1.19	100.00	--- U
27. Toluene	0.23	1.00	--- U
28. trans-1,3-Dichloropropene	0.28	1.00	--- U
29. 1,1,2-Trichloroethane	0.25	1.00	--- U
30. Tetrachloroethene	0.17	1.00	--- U
31. 2-Hexanone	1.57	50.00	--- U
32. Dibromochloromethane	0.24	3.00	--- U
33. 1,2-Dibromoethane	0.26	1.00	--- U
34. Chlorobenzene	0.30	3.00	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.00	--- U
36. Ethylbenzene	0.21	1.00	--- U
37. Xylenes	0.68	5.00	--- U
38. Dibromomethane	0.28	10.00	--- U
39. Styrene	0.19	1.00	--- U
40. Bromoform	0.20	3.00	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.00	--- U
42. 1,2,3-Trichloropropane	0.43	1.00	--- U
43. 1,4-Dichlorobenzene	0.39	1.00	--- U
44. 1,2-Dichlorobenzene	0.32	5.00	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.00	--- U
46. Acrylonitrile	2.72	200.00	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.00	--- U

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
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CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
Mr. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 D

ANALYST: MO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/02/11
DATE REPORTED: 05/17/11

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B
SURROGATE RECOVERY RESULTS

Sample Name	Limits (% recovery)	1,2-DCA-d4 (% recovery)	Toluene-d8 (% recovery)	4-BFB (% recovery)
Continuing Calibration std.	70-130	112	103	102
Laboratory Control std.	70-130	114	104	101
Method Blank	70-130	115	104	100
Monitoring Well #7	70-130	117	106	101
Monitoring Well #8	70-130	115	105	98.8
Monitoring Well #10	70-130	116	105	98.8
Monitoring Well #11S	70-130	117	105	98.5
Monitoring Well #11D	70-130	116	106	99.7
Monitoring Well #12S	70-130	116	105	99.8
Monitoring Well #12D	70-130	117	106	101
Monitoring Well #13S	70-130	115	105	99.6
Monitoring Well #13D	70-130	117	106	99.9
Monitoring Well #14R	70-130	116	107	101
Trip Blank	70-130	117	106	99.5
Regional Landfill 1S M.S.	70-130	117	106	102
Regional Landfill 1S M.S.D.	70-130	117	105	100

Environment 1, Incorporated

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REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Sample Spiked: Leachate Storage 1S (6035)	Spike Amount Ug/l	Sample Result Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)	Spike Dup. Result Ug/l	Spike Dup. Recovery (70-130%)	MS/MSD RPD (50%)
1,1-Dichloroethene	20.0	--- U	17.32	86.6	17.70	88.5	2.2
Benzene	20.0	--- U	18.34	91.7	18.69	93.5	1.9
Trichloroethene	20.0	--- U	19.43	97.2	20.02	19.43	3.0
Toluene	20.0	--- U	17.44	87.2	17.83	89.2	2.2
Chlorobenzene	20.0	--- U	18.20	91.0	18.52	92.6	1.7

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	20.00	17.12	85.6
Benzene	20.00	18.03	90.2
Trichloroethene	20.00	19.60	98.0
Toluene	20.00	17.43	87.2
Chlorobenzene	20.00	18.31	91.6

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6035 D **Week: 17**

CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY NC 28523

(252) 633-1564

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
CHLORINE NEUTRALIZED AT COLLECTION														
pH CHECK (LAB)							L2					L2	L2	L2
CONTAINER TYPE, P/G						P	P	P	P	P		G	G	G
CHEMICAL PRESERVATION						A	A	A	A	A		E	E	E
MW-7	04/27/11	1030		18	6	G	G	G	G	G	G	G	G	G
MW-8	04/27/11	1025		18	5	G	G	G	G	G	G	G	G	
MW-10	04/27/11	0945		17	5	G	G	G	G	G	G	G	G	
MW-11S	04/27/11	0925		16	5	G	G	G	G	G	G	G	G	
MW-11D	04/27/11	0920		17	5	G	G	G	G	G	G	G	G	
MW-12s	04/27/11	1015		17	5	G	G	G	G	G	G	G	G	
Well #12 Deep	04/27/11	1010		18	5	G	G	G	G	G	G	G	G	
Well #13 Shallow	04/27/11	0955		17	5	G	G	G	G	G	G	G	G	
Well #13 Deep	04/27/11	1000		17	5	G	G	G	G	G	G	G	G	
MW-14R	04/27/11	1005		18	5	G	G	G	G	G	G	G	G	
Trip Blank					2									

PARAMETERS: A - NONE, B - HNO_3, C - H_2SO_4, D - NAOH, E - HCL, F - ZINC ACETATE, G - NA THIOSULFATE

CLASSIFICATION:
☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DWQ/GW
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: (Y) N

SAMPLES COLLECTED BY: (Please Print) Bob Lopez / FOA

SAMPLES RECEIVED IN LAB AT 2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Lopez	04/27/11	[signature]	4/27/2011
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested

FORM #5

№ 219684

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6035 E

CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 04/27/11
DATE REPORTED : 05/19/11

REVIEWED BY:

PARAMETERS	MDL	Leachate SWSL	Manhole	Analysis Date	Analyst	Method Code
PH (field measurement), Units			7.2	04/27/11	RJH	SM4500HB
Antimony, ug/l	0.14	6.0	7	05/03/11	LFJ	EPA200.8
Arsenic, ug/l	0.43	10.0	114	05/11/11	CMF	SM3113B
Barium, ug/l	0.02	100.0	934	05/03/11	LFJ	EPA200.8
Beryllium, ug/l	0.02	1.0	0.10 J	05/03/11	LFJ	EPA200.8
Cadmium, ug/l	0.02	1.0	4	05/03/11	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	14	05/03/11	LFJ	EPA200.8
Copper, ug/l	0.02	10.0	6.7 J	05/03/11	LFJ	EPA200.8
Total Chromium, ug/l	0.04	10.0	42	05/03/11	LFJ	EPA200.8
Lead, ug/l	0.02	10.0	0.13 J	05/03/11	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0	74	05/03/11	LFJ	EPA200.8
Selenium, ug/l	0.32	10.0	--- U	05/05/11	CMF	SM3113B
Silver, ug/l	0.02	10.0	0.82 J	05/03/11	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5	0.04 J	05/03/11	LFJ	EPA200.8
Vanadium, ug/l	0.14	25.0	13.3 J	05/03/11	LFJ	EPA200.8
Zinc, ug/l	0.24	10.0	8.2 J	05/03/11	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	5.4	04/27/11	MEL	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0	9310	04/27/11	RJH	SM2510B
Temperature, °C			28	04/27/11	RJH	SM2550B

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 E

ANALYST: MAO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/04/11
DATE REPORTED: 05/19/11

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Leachate Manhole
1. Chloromethane	0.77	1.0	--- U
2. Vinyl Chloride	0.63	1.0	--- U
3. Bromomethane	0.67	10.0	--- U
4. Chloroethane	0.48	10.0	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U
7. Acetone	9.06	100.0	--- U
8. Iodomethane	0.26	10.0	--- U
9. Carbon Disulfide	0.23	100.0	--- U
10. Methylene Chloride	0.64	1.0	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U
12. 1,1-Dichloroethane	0.20	5.0	0.30 J
13. Vinyl Acetate	0.20	50.0	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	3.00 J
15. 2-Butanone	2.21	100.0	4.60 J
16. Bromochloromethane	0.27	3.0	--- U
17. Chloroform	0.25	5.0	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U
20. Benzene	0.24	1.0	3.50
21. 1,2-Dichloroethane	0.27	1.0	--- U
22. Trichloroethene	0.23	1.0	1.40
23. 1,2-Dichloropropane	0.21	1.0	0.30 J
24. Bromodichloromethane	0.21	1.0	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	2.20 J
27. Toluene	0.23	1.0	36.40
28. trans-1,3-Dichloropropene	0.28	1.0	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U
30. Tetrachloroethene	0.17	1.0	--- U
31. 2-Hexanone	1.57	50.0	--- U
32. Dibromochloromethane	0.24	3.0	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U
34. Chlorobenzene	0.30	3.0	1.10 J
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U
36. Ethylbenzene	0.21	1.0	97.60
37. Xylenes	0.68	5.0	90.90
38. Dibromomethane	0.28	10.0	--- U
39. Styrene	0.19	1.0	11.70
40. Bromoform	0.20	3.0	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	13.90
44. 1,2-Dichlorobenzene	0.32	5.0	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U
46. Acrylonitrile	2.72	200.0	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
Mr. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 E

ANALYST: MO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/04/11
DATE REPORTED: 05/17/11

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B
METHOD BLANK RESULTS

PARAMETERS, ug/l	MDL	SWSL	Concentration
1. Chloromethane	0.77	1.00	--- U
2. Vinyl Chloride	0.63	1.00	--- U
3. Bromomethane	0.67	10.00	--- U
4. Chloroethane	0.48	10.00	--- U
5. Trichlorofluoromethane	0.24	1.00	--- U
6. 1,1-Dichloroethene	0.17	5.00	--- U
7. Acetone	9.06	100.00	--- U
8. Iodomethane	0.26	10.00	--- U
9. Carbon Disulfide	0.23	100.00	--- U
10. Methylene Chloride	0.64	1.00	--- U
11. trans-1,2-Dichloroethene	0.23	5.00	--- U
12. 1,1-Dichloroethane	0.20	5.00	--- U
13. Vinyl Acetate	0.20	50.00	--- U
14. cis-1,2-Dichloroethene	0.25	5.00	--- U
15. 2-Butanone	2.21	100.00	--- U
16. Bromochloromethane	0.27	3.00	--- U
17. Chloroform	0.25	5.00	--- U
18. 1,1,1-Trichloroethane	0.19	1.00	--- U
19. Carbon Tetrachloride	0.22	1.00	--- U
20. Benzene	0.24	1.00	--- U
21. 1,2-Dichloroethane	0.27	1.00	--- U
22. Trichloroethene	0.23	1.00	--- U
23. 1,2-Dichloropropane	0.21	1.00	--- U
24. Bromodichloromethane	0.21	1.00	--- U
25. cis-1,3-Dichloropropene	0.24	1.00	--- U
26. 4-methyl-2-Pentanone	1.19	100.00	--- U
27. Toluene	0.23	1.00	--- U
28. trans-1,3-Dichloropropene	0.28	1.00	--- U
29. 1,1,2-Trichloroethane	0.25	1.00	--- U
30. Tetrachloroethene	0.17	1.00	--- U
31. 2-Hexanone	1.57	50.00	--- U
32. Dibromochloromethane	0.24	3.00	--- U
33. 1,2-Dibromoethane	0.26	1.00	--- U
34. Chlorobenzene	0.30	3.00	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.00	--- U
36. Ethylbenzene	0.21	1.00	--- U
37. Xylenes	0.68	5.00	--- U
38. Dibromomethane	0.28	10.00	--- U
39. Styrene	0.19	1.00	--- U
40. Bromoform	0.20	3.00	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.00	--- U
42. 1,2,3-Trichloropropane	0.43	1.00	--- U
43. 1,4-Dichlorobenzene	0.39	1.00	--- U
44. 1,2-Dichlorobenzene	0.32	5.00	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.00	--- U
46. Acrylonitrile	2.72	200.00	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.00	--- U

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
Mr. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 E

ANALYST: MO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/04/11
DATE REPORTED: 05/17/11

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B
SURROGATE RECOVERY RESULTS

Sample Name	Limits (% recovery)	1,2-DCA-d4 (% recovery)	Toluene-d8 (% recovery)	4-BFB (% recovery)
Continuing Calibration std.	70-130	110	99.7	105
Laboratory Control std.	70-130	111	101	103
Method Blank	70-130	112	100	103
Leachate Manhole	70-130	112	101	108
Regional Landfill 1S M.S.	70-130	112	100	103
Regional Landfill 1S M.S.D.	70-130	112	100	104

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
Mr. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 E

ANALYST: MO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/04/11
DATE REPORTED: 05/17/11

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Sample Spiked: Regional Landfill 1S (6035A)	Spike Amount Ug/l	Sample Result Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)	Spike Dup. Result Ug/l	Spike Dup. Recovery (70-130%)	MS/MSD RPD (50%)
1,1-Dichloroethene	20.0	--- U	20.71	104	20.66	103	0.2
Benzene	20.0	--- U	20.20	101	20.34	102	0.7
Trichloroethene	20.0	--- U	21.08	105	21.56	108	2.3
Toluene	20.0	--- U	20.05	100	20.27	101	1.1
Chlorobenzene	20.0	--- U	20.44	102	20.80	104	1.7

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	20.00	17.69	88.5
Benzene	20.00	17.15	85.8
Trichloroethene	20.00	18.43	92.2
Toluene	20.00	17.08	85.4
Chlorobenzene	20.00	17.64	88.2

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

Page 1 of 1

CLIENT: 6035 E **Week:** 17

CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY NC 28523

(252) 633-1561

DISINFECTION
- [ ] CHLORINE
- [ ] UV
- [ ] NONE
- [ ] _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	EPA 8260B	8260 Dup. 1	8260 Dup. 2
CHLORINE NEUTRALIZED AT COLLECTION													
pH CHECK (LAB)							12				12	12	12
CONTAINER TYPE, P/G						P	P	P	P	P	G	G	G
CHEMICAL PRESERVATION						A	A	A	A	A	E	E	E
PARAMETERS													
Leachate Manhole	04/27/1	1225		28	6	G	G	G	G	G	G	G	G

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- [ ] WASTEWATER (NPDES)
- [ ] DRINKING WATER
- [ ] DWQ/GW
- [x] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY: (Please Print)
Bob Pope / FOL

SAMPLES RECEIVED IN LAB AT 2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Pope	04/27/11	[signature]	4/27/254
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

№ 219683

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6035

CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 04/27/11
DATE REPORTED : 05/19/11

REVIEWED BY:

PARAMETERS	MDL	SWSL	Leach Stor 1S	Leach Stor 1D	Leach Stor 2S	Leach Stor 2D	Leach Stor 3S	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.9	6.9	5.1		4.7	04/27/11	RJH	SM4500HB
Antimony, ug/l	0.14	6.0	--- U	--- U	1.5 J		--- U	05/02/11	CMF	EPA200.8
Arsenic, ug/l	0.10	10.0	0.41 J	0.44 J	0.72 J		0.31 J	05/02/11	CMF	EPA200.8
Barium, ug/l	0.02	100.0	46.4 J	38.5 J	37.8 J		59.4 J	05/02/11	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	0.29 J	0.07 J	0.28 J		0.30 J	05/02/11	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	0.18 J	0.05 J	0.18 J		0.07 J	05/02/11	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	0.36 J	0.26 J	0.45 J		3.4 J	05/02/11	CMF	EPA200.8
Copper, ug/l	0.02	10.0	1.2 J	0.58 J	1.6 J		0.51 J	05/02/11	CMF	EPA200.8
Total Chromium, ug/l	0.04	10.0	1.5 J	0.40 J	3.9 J		1.1 J	05/02/11	CMF	EPA200.8
Lead, ug/l	0.02	10.0	1.4 J	0.30 J	3.6 J		1.7 J	05/02/11	CMF	EPA200.8
Nickel, ug/l	0.04	50.0	0.72 J	1.4 J	1.0 J		3.9 J	05/02/11	CMF	EPA200.8
Selenium, ug/l	0.20	10.0	1.1 J	--- U	0.26 J		--- U	05/02/11	CMF	EPA200.8
Silver, ug/l	0.02	10.0	--- U	--- U	--- U		--- U	05/02/11	CMF	EPA200.8
Thallium, ug/l	0.02	5.5	0.18 J	0.27 J	0.12 J		0.04 J	05/02/11	CMF	EPA200.8
Vanadium, ug/l	0.14	25.0	2.1 J	0.66 J	5.3 J		1.6 J	05/02/11	CMF	EPA200.8
Zinc, ug/l	0.24	10.0	4.0 J	2.4 J	5.2 J		28	05/02/11	CMF	EPA200.8
Turbidity, NTU	1.0	1.0	60	55	120		23	04/27/11	MEL	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0	74	494	76		78	04/27/11	RJH	SM2510B
Temperature, °C			18	18	18		17	04/27/11	RJH	SM2550B
Static Water Level, feet			5.17	20.12	5.28	20.46	6.54	04/27/11	RJH	
Well Depth, feet			15.04	34.86	14.45	33.29	17.65	04/27/11	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6035

CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 04/27/11
DATE REPORTED : 05/19/11

REVIEWED BY:

PARAMETERS	MDL	Leach SWSL	Leach Stor 3D	Leach Stor 4S	Leach Stor 4D	Leach Stor 5S	Leach Stor 5D	Analysis Date	Analyst	Method Code
PH (field measurement), Units				5.1		6.2	7.2	04/27/11	RJH	SM4500HB
Antimony, ug/l	0.14	6.0		0.30 J		0.36 J	--- U	05/02/11	CMF	EPA200.8
Arsenic, ug/l	0.10	10.0		1.7 J		1.7 J	1.4 J	05/02/11	CMF	EPA200.8
Barium, ug/l	0.02	100.0		41.1 J		41.5 J	95.4 J	05/02/11	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0		0.33 J		0.15 J	0.23 J	05/02/11	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0		0.21 J		0.12 J	0.17 J	05/02/11	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0		1.4 J		0.45 J	0.41 J	05/02/11	CMF	EPA200.8
Copper, ug/l	0.02	10.0		1.7 J		2.5 J	1.4 J	05/02/11	CMF	EPA200.8
Total Chromium, ug/l	0.04	10.0		6.1 J		6.7 J	1.2 J	05/02/11	CMF	EPA200.8
Lead, ug/l	0.02	10.0		5.2 J		4.9 J	0.77 J	05/02/11	CMF	EPA200.8
Nickel, ug/l	0.04	50.0		2.2 J		2.3 J	1.9 J	05/02/11	CMF	EPA200.8
Selenium, ug/l	0.20	10.0		0.42 J		1.1 J	0.52 J	05/02/11	CMF	EPA200.8
Silver, ug/l	0.02	10.0		--- U		--- U	--- U	05/02/11	CMF	EPA200.8
Thallium, ug/l	0.02	5.5		0.10 J		0.10 J	--- U	05/02/11	CMF	EPA200.8
Vanadium, ug/l	0.14	25.0		7.8 J		10.2 J	1.4 J	05/02/11	CMF	EPA200.8
Zinc, ug/l	0.24	10.0		12		20	5.3 J	05/02/11	CMF	EPA200.8
Turbidity, NTU	1.0	1.0		280		190	70	04/27/11	MEL	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0		44		390	603	04/27/11	RJH	SM2510B
Temperature, °C				17		17	18	04/27/11	RJH	SM2550B
Static Water Level, feet			20.88	5.85	20.94	6.10	21.10	04/27/11	RJH	
Well Depth, feet			34.85	17.62	36.12	15.41	38.66	04/27/11	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6035

CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 04/27/11
DATE REPORTED : 05/19/11

REVIEWED BY:

PARAMETERS	MDL	SWSL	Leach Stor 6S	Leach Stor 6D	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.4			04/27/11	RJH	SM4500HB
Antimony, ug/l	0.14	6.0	--- U			05/02/11	CMF	EPA200.8
Arsenic, ug/l	0.10	10.0	0.54 J			05/02/11	CMF	EPA200.8
Barium, ug/l	0.02	100.0	51.6 J			05/02/11	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	0.17 J			05/02/11	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	0.06 J			05/02/11	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	0.50 J			05/02/11	CMF	EPA200.8
Copper, ug/l	0.02	10.0	1.2 J			05/02/11	CMF	EPA200.8
Total Chromium, ug/l	0.04	10.0	3.9 J			05/02/11	CMF	EPA200.8
Lead, ug/l	0.02	10.0	3.3 J			05/02/11	CMF	EPA200.8
Nickel, ug/l	0.04	50.0	0.98 J			05/02/11	CMF	EPA200.8
Selenium, ug/l	0.20	10.0	--- U			05/02/11	CMF	EPA200.8
Silver, ug/l	0.02	10.0	--- U			05/02/11	CMF	EPA200.8
Thallium, ug/l	0.02	5.5	0.08 J			05/02/11	CMF	EPA200.8
Vanadium, ug/l	0.14	25.0	5.9 J			05/02/11	CMF	EPA200.8
Zinc, ug/l	0.24	10.0	24			05/02/11	CMF	EPA200.8
Turbidity, NTU	1.0	1.0	110			04/27/11	MEL	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0	46			04/27/11	RJH	SM2510B
Temperature, °C			17			04/27/11	RJH	SM2550B
Static Water Level, feet			6.95	22.30		04/27/11	RJH	
Well Depth, feet			16.44	34.37		04/27/11	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035

ANALYST: MAO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/02/11
DATE REPORTED: 05/19/11

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Leach Stor 1S	Leach Stor 1D	Leach Stor 2S	Leach Stor 3S	Leach Stor 4S
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035

ANALYST: MAO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/02/11
DATE REPORTED: 05/19/11

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Leach Stor 5S	Leach Stor 5D	Leach Stor 6S	Trip Blank
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
Mr. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035

ANALYST: MO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/02/11
DATE REPORTED: 05/17/11

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B
METHOD BLANK RESULTS

PARAMETERS, ug/l	MDL	SWSL	Concentration
1. Chloromethane	0.77	1.00	--- U
2. Vinyl Chloride	0.63	1.00	--- U
3. Bromomethane	0.67	10.00	--- U
4. Chloroethane	0.48	10.00	--- U
5. Trichlorofluoromethane	0.24	1.00	--- U
6. 1,1-Dichloroethene	0.17	5.00	--- U
7. Acetone	9.06	100.00	--- U
8. Iodomethane	0.26	10.00	--- U
9. Carbon Disulfide	0.23	100.00	--- U
10. Methylene Chloride	0.64	1.00	--- U
11. trans-1,2-Dichloroethene	0.23	5.00	--- U
12. 1,1-Dichloroethane	0.20	5.00	--- U
13. Vinyl Acetate	0.20	50.00	--- U
14. cis-1,2-Dichloroethene	0.25	5.00	--- U
15. 2-Butanone	2.21	100.00	--- U
16. Bromochloromethane	0.27	3.00	--- U
17. Chloroform	0.25	5.00	--- U
18. 1,1,1-Trichloroethane	0.19	1.00	--- U
19. Carbon Tetrachloride	0.22	1.00	--- U
20. Benzene	0.24	1.00	--- U
21. 1,2-Dichloroethane	0.27	1.00	--- U
22. Trichloroethene	0.23	1.00	--- U
23. 1,2-Dichloropropane	0.21	1.00	--- U
24. Bromodichloromethane	0.21	1.00	--- U
25. cis-1,3-Dichloropropene	0.24	1.00	--- U
26. 4-methyl-2-Pentanone	1.19	100.00	--- U
27. Toluene	0.23	1.00	--- U
28. trans-1,3-Dichloropropene	0.28	1.00	--- U
29. 1,1,2-Trichloroethane	0.25	1.00	--- U
30. Tetrachloroethene	0.17	1.00	--- U
31. 2-Hexanone	1.57	50.00	--- U
32. Dibromochloromethane	0.24	3.00	--- U
33. 1,2-Dibromoethane	0.26	1.00	--- U
34. Chlorobenzene	0.30	3.00	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.00	--- U
36. Ethylbenzene	0.21	1.00	--- U
37. Xylenes	0.68	5.00	--- U
38. Dibromomethane	0.28	10.00	--- U
39. Styrene	0.19	1.00	--- U
40. Bromoform	0.20	3.00	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.00	--- U
42. 1,2,3-Trichloropropane	0.43	1.00	--- U
43. 1,4-Dichlorobenzene	0.39	1.00	--- U
44. 1,2-Dichlorobenzene	0.32	5.00	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.00	--- U
46. Acrylonitrile	2.72	200.00	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.00	--- U

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
Mr. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035

ANALYST: MO
DATE COLLECTED: 04/27/11
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REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B
SURROGATE RECOVERY RESULTS

Sample Name	Limits (% recovery)	1,2-DCA-d4 (% recovery)	Toluene-d8 (% recovery)	4-BFB (% recovery)
Continuing Calibration std.	70-130	112	103	102
Laboratory Control std.	70-130	114	104	101
Method Blank	70-130	115	104	100
Leachate Storage 1S	70-130	114	103	99.8
Leachate Storage 1D	70-130	116	105	101
Leachate Storage 2S	70-130	116	104	99.4
Leachate Storage 3S	70-130	115	104	99.6
Leachate Storage 4S	70-130	115	104	100
Leachate Storage 5S	70-130	115	104	99.6
Leachate Storage 5D	70-130	116	106	101
Leachate Storage 6S	70-130	117	106	101
Trip Blank	70-130	115	105	99.9
Leachate Storage 1S M.S.	70-130	117	106	102
Leachate Storage 1S M.S.D.	70-130	117	105	100

Environment 1, Incorporated

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C/O COASTAL PARTNERSHIP
Mr. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035

ANALYST: MO
DATE COLLECTED: 04/27/11
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REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Sample Spiked: Leachate Storage 1S (6035)	Spike Amount Ug/l	Sample Result Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)	Spike Dup. Result Ug/l	Spike Dup. Recovery (70-130%)	MS/MSD RPD (50%)
1,1-Dichloroethene	20.0	--- U	17.32	86.6	17.70	88.5	2.2
Benzene	20.0	--- U	18.34	91.7	18.69	93.5	1.9
Trichloroethene	20.0	--- U	19.43	97.2	20.02	19.43	3.0
Toluene	20.0	--- U	17.44	87.2	17.83	89.2	2.2
Chlorobenzene	20.0	--- U	18.20	91.0	18.52	92.6	1.7

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	20.00	17.12	85.6
Benzene	20.00	18.03	90.2
Trichloroethene	20.00	19.60	98.0
Toluene	20.00	17.43	87.2
Chlorobenzene	20.00	18.31	91.6

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6035 **Week: 17**

CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY NC 28523

(252) 633-1564

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2	8260 Dup. 3
CHLORINE NEUTRALIZED AT COLLECTION															
pH CHECK (LAB)							12					12	12	12	12
CONTAINER TYPE, P/G						P	P	P	P	P		G	G	G	G
CHEMICAL PRESERVATION						A	A	A	A	A		E	E	E	E
Leach Stor 1S	04 27 11	1115			7	G	G	G	G	G	G	G	G	G	G
Leach Stor 1D	04 27 11	1110			5	G	G	G	G	G	G	G	G		
Leach Stor 2S	04 27 11	1055			5	G	G	G	G	G	G	G	G		
Leach Stor 2D	04 27 11				1						G				
Leach Stor 3S	04 27 11	1045			5	G	G	G	G	G	G	G	G		
Leach Stor 3D	04 27 11				1						G				
Leach Stor 4S	04 27 11	1050			5	G	G	G	G	G	G	G	G		
Leach Stor 4D	04 27 11				1						G				
Leach Stor 5S	04 27 11	1120			5	G	G	G	G	G	G	G	G		
Leach Stor 5D	04 27 11	1125			5	G	G	G	G	G	G	G	G		
Leach Stor 6S	04 27 11	1035			6	G	G	G	G	G	G	G	G	G	

PARAMETERS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DWQ/GW
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: (Y) N

SAMPLES COLLECTED BY: (Please Print) H Lope / Sot

SAMPLES RECEIVED IN LAB AT 02 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Rob H Lope	04 27 11	[signature]	4/27/05
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested

FORM #5

№ 219690

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6035 **Week: 17**

CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY NC 28523

(252) 633-1564

DISINFECTION
- [ ] CHLORINE
- [ ] UV
- [ ] NONE
- [ ] _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2	8260 Dup. 3						
CHLORINE NEUTRALIZED AT COLLECTION																					
pH CHECK (LAB)																					
CONTAINER TYPE, P/G						P	P	P	P	P		G	G	G	G						
CHEMICAL PRESERVATION						A	A	A	A	A		E	E	E	E						
Leach Stor 6D 04	2 2 11				1																
Trip Blank					3																

PARAMETERS

A - NONE
B - HNO_3
C - H_2SO_4
D - NAOH
E - HCL
F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- [ ] WASTEWATER (NPDES)
- [ ] DRINKING WATER
- [ ] DWQ/GW
- [X] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
(Y) N

SAMPLES COLLECTED BY:
(Please Print)
[illegible]

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Hope	04/27/11	[illegible]	4/27 255
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested

FORM #5

№ 219689

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6035 B

CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 04/27/11
DATE REPORTED : 05/19/11

REVIEWED BY:

PARAMETERS	MDL	SWSL	SW-1	SW-2	Under Drain	Under Drain #2	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.8	7.0	7.0	6.6		04/27/11	RJH	SM4500HB
Antimony, ug/l	0.14	6.0	--- U	--- U	0.16 J	--- U		05/02/11	CMF	EPA200.8
Arsenic, ug/l	0.10	10.0	0.79 J	2.6 J	0.63 J	0.55 J		05/02/11	CMF	EPA200.8
Barium, ug/l	0.02	100.0	86.4 J	45.5 J	19.1 J	46.7 J		05/02/11	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	--- U	--- U	--- U	--- U		05/02/11	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	0.08 J	--- U	0.04 J	0.04 J		05/02/11	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	1.7 J	1.8 J	0.20 J	0.52 J		05/02/11	CMF	EPA200.8
Copper, ug/l	0.02	10.0	0.81 J	0.85 J	1.2 J	1.0 J		05/02/11	CMF	EPA200.8
Total Chromium, ug/l	0.04	10.0	0.52 J	0.70 J	0.59 J	0.38 J		05/02/11	CMF	EPA200.8
Lead, ug/l	0.02	10.0	0.32 J	0.19 J	0.43 J	0.09 J		05/02/11	CMF	EPA200.8
Nickel, ug/l	0.04	50.0	5.1 J	6.1 J	1.5 J	4.1 J		05/02/11	CMF	EPA200.8
Selenium, ug/l	0.20	10.0	0.72 J	2.4 J	--- U	1.1 J		05/02/11	CMF	EPA200.8
Silver, ug/l	0.02	10.0	--- U	--- U	--- U	--- U		05/02/11	CMF	EPA200.8
Thallium, ug/l	0.02	5.5	--- U	--- U	0.15 J	0.05 J		05/02/11	CMF	EPA200.8
Vanadium, ug/l	0.14	25.0	0.74 J	0.87 J	0.38 J	--- U		05/02/11	CMF	EPA200.8
Zinc, ug/l	0.24	10.0	77	3.4 J	4.6 J	2.3 J		05/02/11	CMF	EPA200.8
Turbidity, NTU	1.0	1.0	32	16	15	28		04/27/11	MEL	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0	1196	1283	268	1116		04/27/11	RJH	SM2510B
Temperature, °C			19	23	23	23		04/27/11	RJH	SM2550B

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 B

ANALYST: MAO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/04/11
DATE REPORTED: 05/19/11

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	SW-1	SW-2	Under Drain	Under Drain #2	Trip Blank
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
Mr. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 B

ANALYST: MO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/04/11
DATE REPORTED: 05/17/11

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B
METHOD BLANK RESULTS

PARAMETERS, ug/l	MDL	SWSL	Concentration
1. Chloromethane	0.77	1.00	--- U
2. Vinyl Chloride	0.63	1.00	--- U
3. Bromomethane	0.67	10.00	--- U
4. Chloroethane	0.48	10.00	--- U
5. Trichlorofluoromethane	0.24	1.00	--- U
6. 1,1-Dichloroethene	0.17	5.00	--- U
7. Acetone	9.06	100.00	--- U
8. Iodomethane	0.26	10.00	--- U
9. Carbon Disulfide	0.23	100.00	--- U
10. Methylene Chloride	0.64	1.00	--- U
11. trans-1,2-Dichloroethene	0.23	5.00	--- U
12. 1,1-Dichloroethane	0.20	5.00	--- U
13. Vinyl Acetate	0.20	50.00	--- U
14. cis-1,2-Dichloroethene	0.25	5.00	--- U
15. 2-Butanone	2.21	100.00	--- U
16. Bromochloromethane	0.27	3.00	--- U
17. Chloroform	0.25	5.00	--- U
18. 1,1,1-Trichloroethane	0.19	1.00	--- U
19. Carbon Tetrachloride	0.22	1.00	--- U
20. Benzene	0.24	1.00	--- U
21. 1,2-Dichloroethane	0.27	1.00	--- U
22. Trichloroethene	0.23	1.00	--- U
23. 1,2-Dichloropropane	0.21	1.00	--- U
24. Bromodichloromethane	0.21	1.00	--- U
25. cis-1,3-Dichloropropene	0.24	1.00	--- U
26. 4-methyl-2-Pentanone	1.19	100.00	--- U
27. Toluene	0.23	1.00	--- U
28. trans-1,3-Dichloropropene	0.28	1.00	--- U
29. 1,1,2-Trichloroethane	0.25	1.00	--- U
30. Tetrachloroethene	0.17	1.00	--- U
31. 2-Hexanone	1.57	50.00	--- U
32. Dibromochloromethane	0.24	3.00	--- U
33. 1,2-Dibromoethane	0.26	1.00	--- U
34. Chlorobenzene	0.30	3.00	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.00	--- U
36. Ethylbenzene	0.21	1.00	--- U
37. Xylenes	0.68	5.00	--- U
38. Dibromomethane	0.28	10.00	--- U
39. Styrene	0.19	1.00	--- U
40. Bromoform	0.20	3.00	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.00	--- U
42. 1,2,3-Trichloropropane	0.43	1.00	--- U
43. 1,4-Dichlorobenzene	0.39	1.00	--- U
44. 1,2-Dichlorobenzene	0.32	5.00	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.00	--- U
46. Acrylonitrile	2.72	200.00	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.00	--- U

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
Mr. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 B

ANALYST: MO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/04/11
DATE REPORTED: 05/17/11

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B
SURROGATE RECOVERY RESULTS

Sample Name	Limits (% recovery)	1,2-DCA-d4 (% recovery)	Toluene-d8 (% recovery)	4-BFB (% recovery)
Continuing Calibration std.	70-130	110	99.7	105
Laboratory Control std.	70-130	111	101	103
Method Blank	70-130	112	100	103
Surface Water #1	70-130	111	100	102
Surface Water #2	70-130	112	100	102
Under Drain	70-130	111	100	101
Under Drain #2	70-130	112	100	102
Trip Blank	70-130	111	101	103
Regional Landfill 1S M.S.	70-130	112	100	103
Regional Landfill 1S M.S.D.	70-130	112	100	104

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
Mr. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 B

ANALYST: MO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/04/11
DATE REPORTED: 05/17/11

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Sample Spiked: Regional Landfill 1S (6035A)	Spike Amount Ug/l	Sample Result Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)	Spike Dup. Result Ug/l	Spike Dup. Recovery (70-130%)	MS/MSD RPD (50%)
1,1-Dichloroethene	20.0	--- U	20.71	104	20.66	103	0.2
Benzene	20.0	--- U	20.20	101	20.34	102	0.7
Trichloroethene	20.0	--- U	21.08	105	21.56	108	2.3
Toluene	20.0	--- U	20.05	100	20.27	101	1.1
Chlorobenzene	20.0	--- U	20.44	102	20.80	104	1.7

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	20.00	17.69	88.5
Benzene	20.00	17.15	85.8
Trichloroethene	20.00	18.43	92.2
Toluene	20.00	17.08	85.4
Chlorobenzene	20.00	17.64	88.2

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6035 B **Week: 17**

CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY NC 28523

(252) 633-1564

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	EPA 8260B	8260 Dup. 1
CHLORINE NEUTRALIZED AT COLLECTION												
pH CHECK (LAB)							C2				C2	C2
CONTAINER TYPE, P/G						P	P	P	P	P	G	G
CHEMICAL PRESERVATION						A	A	A	A	A	E	E
PARAMETERS												
SW-1	04 27 11	1200		19	5	G	G	G	G	G	G	G
SW-2	04 27 11	0930		23	5	G	G	G	G	G	G	G
Under Drain	04 27 11	0935		23	5	G	G	G	G	G	G	G
Under Drain #2	04 27 11	0925		23	5	G	G	G	G	G	G	G
Trip Blank					2							

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DWQ/GW
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: (Y) N

SAMPLES COLLECTED BY: (Please Print) [illegible]

SAMPLES RECEIVED IN LAB AT C2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob [illegible]	04 27 11	[illegible]	4/27 23
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested

FORM #5

№ 219686

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6035 C

CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 04/27/11
DATE REPORTED : 05/19/11

REVIEWED BY:

PARAMETERS	MDL	SWSL	Equipment Blank		Analysis Date	Analyst	Method Code
Antimony, ug/l	0.14	6.0	---	U	05/03/11	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0	---	U	05/03/11	LFJ	EPA200.8
Barium, ug/l	0.02	100.0	0.10	J	05/03/11	LFJ	EPA200.8
Beryllium, ug/l	0.02	1.0	---	U	05/03/11	LFJ	EPA200.8
Cadmium, ug/l	0.02	1.0	---	U	05/03/11	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	---	U	05/03/11	LFJ	EPA200.8
Copper, ug/l	0.02	10.0	0.66	J	05/03/11	LFJ	EPA200.8
Total Chromium, ug/l	0.04	10.0	0.18	J	05/03/11	LFJ	EPA200.8
Lead, ug/l	0.02	10.0	---	U	05/03/11	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0	0.30	J	05/03/11	LFJ	EPA200.8
Selenium, ug/l	0.20	10.0	---	U	05/03/11	LFJ	EPA200.8
Silver, ug/l	0.02	10.0	---	U	05/03/11	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5	0.03	J	05/03/11	LFJ	EPA200.8
Vanadium, ug/l	0.14	25.0	---	U	05/03/11	LFJ	EPA200.8
Zinc, ug/l	0.24	10.0	1.1	J	05/03/11	LFJ	EPA200.8

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 C

ANALYST: ACM
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/02/11
DATE REPORTED: 05/19/11

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Equipment Blank
1. Chloromethane	0.77	1.0	--- U
2. Vinyl Chloride	0.63	1.0	--- U
3. Bromomethane	0.67	10.0	--- U
4. Chloroethane	0.48	10.0	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U
7. Acetone	9.06	100.0	--- U
8. Iodomethane	0.26	10.0	--- U
9. Carbon Disulfide	0.23	100.0	--- U
10. Methylene Chloride	0.64	1.0	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U
13. Vinyl Acetate	0.20	50.0	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U
15. 2-Butanone	2.21	100.0	--- U
16. Bromochloromethane	0.27	3.0	--- U
17. Chloroform	0.25	5.0	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U
20. Benzene	0.24	1.0	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U
22. Trichloroethene	0.23	1.0	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U
24. Bromodichloromethane	0.21	1.0	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U
27. Toluene	0.23	1.0	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U
30. Tetrachloroethene	0.17	1.0	--- U
31. 2-Hexanone	1.57	50.0	--- U
32. Dibromochloromethane	0.24	3.0	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U
34. Chlorobenzene	0.30	3.0	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U
36. Ethylbenzene	0.21	1.0	--- U
37. Xylenes	0.68	5.0	--- U
38. Dibromomethane	0.28	10.0	--- U
39. Styrene	0.19	1.0	--- U
40. Bromoform	0.20	3.0	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U
46. Acrylonitrile	2.72	200.0	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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FAX (252) 756-0633

CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
Mr. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 C

ANALYST: MO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/02/11
DATE REPORTED: 05/17/11

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B
METHOD BLANK RESULTS

PARAMETERS, ug/l	MDL	SWSL	Concentration
1. Chloromethane	0.77	1.00	--- U
2. Vinyl Chloride	0.63	1.00	--- U
3. Bromomethane	0.67	10.00	--- U
4. Chloroethane	0.48	10.00	--- U
5. Trichlorofluoromethane	0.24	1.00	--- U
6. 1,1-Dichloroethene	0.17	5.00	--- U
7. Acetone	9.06	100.00	--- U
8. Iodomethane	0.26	10.00	--- U
9. Carbon Disulfide	0.23	100.00	--- U
10. Methylene Chloride	0.64	1.00	--- U
11. trans-1,2-Dichloroethene	0.23	5.00	--- U
12. 1,1-Dichloroethane	0.20	5.00	--- U
13. Vinyl Acetate	0.20	50.00	--- U
14. cis-1,2-Dichloroethene	0.25	5.00	--- U
15. 2-Butanone	2.21	100.00	--- U
16. Bromochloromethane	0.27	3.00	--- U
17. Chloroform	0.25	5.00	--- U
18. 1,1,1-Trichloroethane	0.19	1.00	--- U
19. Carbon Tetrachloride	0.22	1.00	--- U
20. Benzene	0.24	1.00	--- U
21. 1,2-Dichloroethane	0.27	1.00	--- U
22. Trichloroethene	0.23	1.00	--- U
23. 1,2-Dichloropropane	0.21	1.00	--- U
24. Bromodichloromethane	0.21	1.00	--- U
25. cis-1,3-Dichloropropene	0.24	1.00	--- U
26. 4-methyl-2-Pentanone	1.19	100.00	--- U
27. Toluene	0.23	1.00	--- U
28. trans-1,3-Dichloropropene	0.28	1.00	--- U
29. 1,1,2-Trichloroethane	0.25	1.00	--- U
30. Tetrachloroethene	0.17	1.00	--- U
31. 2-Hexanone	1.57	50.00	--- U
32. Dibromochloromethane	0.24	3.00	--- U
33. 1,2-Dibromoethane	0.26	1.00	--- U
34. Chlorobenzene	0.30	3.00	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.00	--- U
36. Ethylbenzene	0.21	1.00	--- U
37. Xylenes	0.68	5.00	--- U
38. Dibromomethane	0.28	10.00	--- U
39. Styrene	0.19	1.00	--- U
40. Bromoform	0.20	3.00	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.00	--- U
42. 1,2,3-Trichloropropane	0.43	1.00	--- U
43. 1,4-Dichlorobenzene	0.39	1.00	--- U
44. 1,2-Dichlorobenzene	0.32	5.00	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.00	--- U
46. Acrylonitrile	2.72	200.00	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.00	--- U

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
Mr. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 C

ANALYST: MO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/02/11
DATE REPORTED: 05/17/11

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B
SURROGATE RECOVERY RESULTS

Sample Name	Limits (% recovery)	1,2-DCA-d4 (% recovery)	Toluene-d8 (% recovery)	4-BFB (% recovery)
Continuing Calibration std.	70-130	112	103	102
Laboratory Control std.	70-130	114	104	101
Method Blank	70-130	115	104	100
Equipment Blank	70-130	117	105	100
Regional Landfill 1S M.S.	70-130	117	106	102
Regional Landfill 1S M.S.D.	70-130	117	105	100

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
Mr. ALLEN HARDISON
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035 C

ANALYST: MO
DATE COLLECTED: 04/27/11
DATE ANALYZED: 05/02/11
DATE REPORTED: 05/17/11

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Sample Spiked: Leachate Storage 1S (6035)	Spike Amount Ug/l	Sample Result Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)	Spike Dup. Result Ug/l	Spike Dup. Recovery (70-130%)	MS/MSD RPD (50%)
1,1-Dichloroethene	20.0	--- U	17.32	86.6	17.70	88.5	2.2
Benzene	20.0	--- U	18.34	91.7	18.69	93.5	1.9
Trichloroethene	20.0	--- U	19.43	97.2	20.02	19.43	3.0
Toluene	20.0	--- U	17.44	87.2	17.83	89.2	2.2
Chlorobenzene	20.0	--- U	18.20	91.0	18.52	92.6	1.7

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	20.00	17.12	85.6
Benzene	20.00	18.03	90.2
Trichloroethene	20.00	19.60	98.0
Toluene	20.00	17.43	87.2
Chlorobenzene	20.00	18.31	91.6

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6035 C **Week: 17**

CRSWMA INTERIM REGIONAL LANDFILL
C/O COASTAL PARTNERSHIP
MR. ALLEN HARDISON
P.O. BOX 128
COVE CITY NC 28523

(252) 633-1564

DISINFECTION
- [ ] CHLORINE
- [ ] UV
- [ ] NONE
- [ ] _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Metals	EPA 8260B	8260 Dup. 1
Equipment Blank	04 27 11	0900			3	G	G	G
CHLORINE NEUTRALIZED AT COLLECTION								
pH CHECK (LAB)						22	22	22
CONTAINER TYPE, P/G						P	G	G
CHEMICAL PRESERVATION						A	E	E

PARAMETERS

A - NONE
B - HNO_3
C - H_2SO_4
D - NAOH
E - HCL
F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- [ ] WASTEWATER (NPDES)
- [ ] DRINKING WATER
- [ ] DWQ/GW
- [x] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
(Y) N

SAMPLES COLLECTED BY:
(Please Print)
H. Pope / F. Ot

SAMPLES RECEIVED IN LAB AT 02 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
H. Pope	04/27/11	[illegible]	4/27/11
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

№ 219685

Appendix 2 Statistical Analyses Worksheets

JEI Project: **CRSWMA - Tuscarora Landfills**
Project No: **00618.1001.12**
Task No: **01**
Sample Date: **27-Apr-11**

Analyte: **Barium**

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	Jul-93	IRL-1S	268		50
2	Aug-93	IRL-1S	122		50
3	Sep-93	IRL-1S	113		50
4	Sep-93	IRL-1S	109		50
5	Apr-94	IRL-1S	73		50
6	Oct-94	IRL-1S	ND		500
7	Apr-95	IRL-1S	ND		500
8	Oct-95	IRL-1S	ND		500
9	Apr-96	IRL-1S	ND		500
10	Oct-96	IRL-1S	ND		500
11	Apr-97	IRL-1S	ND		500
12	Oct-97	IRL-1S	ND		500
13	Apr-98	IRL-1S	ND		500
14	Oct-98	IRL-1S	ND		500
15	Mar-99	IRL-1S	ND		500
16	Oct-99	IRL-1S	ND		500
17	Apr-00	IRL-1S	ND		500
18	Oct-00	IRL-1S	ND		500
19	Apr-01	IRL-1S	ND		500
20	Oct-01	IRL-1S	ND		500
21	Apr-02	IRL-1S	ND		500
22	Oct-02	IRL-1S	ND		500
23	Apr-03	IRL-1S	ND		500
24	Oct-03	IRL-1S	ND		500
25	15-Apr-04	IRL-1S	ND		500
26	14-Oct-04	IRL-1S	ND		500
27	05-Apr-05	IRL-1S	ND		500
28	27-Oct-05	IRL-1S	ND		500
29	21-Apr-06	IRL-1S	ND		500
30	12-Oct-06	IRL-1S	ND		500
31	26-Apr-07	IRL-1S	ND		100
32	10-Oct-07	IRL-1S	44.8	J	100.0
33	02-Apr-08	IRL-1S	72.9	J	100.0
34	28-Oct-08	IRL-1S	94.9	J	100.0
35	08-Apr-09	IRL-1S	118		100.0
36	27-Oct-09	IRL-1S	113		100.0
37	08-Apr-10	IRL-1S	109		100.0
38	13-Oct-10	IRL-1S	131		100.0
39	27-Apr-11	IRL-1S	170		100.0
40	Jul-93	IRL-1D	343		50
41	Aug-93	IRL-1D	252		50
42	Sep-93	IRL-1D	105		50
43	Sep-93	IRL-1D	212		50
44	Apr-94	IRL-1D	131		50
45	Oct-94	IRL-1D	ND		500
46	Apr-95	IRL-1D	ND		500
47	Oct-95	IRL-1D	ND		500
48	Apr-96	IRL-1D	ND		500
49	27-Oct-05	IRL-1D	ND		500
50	21-Apr-06	IRL-1D	ND		500

Analyte:	**Barium**				Quantitation
Sample No.	Sample Date	Location	Concentration (ug/L)		Limit (ug/L)
51	12-Oct-06	IRL-1D	ND		500
52	26-Apr-07	IRL-1D	ND		100
53	10-Oct-07	IRL-1D	56.4	J	100.0
54	02-Apr-08	IRL-1D	33.4	J	100.0
55	28-Oct-08	IRL-1D	39.6	J	100.0
56	08-Apr-09	IRL-1D	41.1	J	100.0
57	27-Oct-09	IRL-1D	42.9	J	100.0
58	08-Apr-10	IRL-1D	47.0	J	100.0
59	13-Oct-10	IRL-1D	53.4	J	100.0
60	27-Apr-11	IRL-1D	45.8	J	100.0
61	Oct-02	LST-5S	ND		500
62	Apr-03	LST-5S	ND		500
63	Oct-03	LST-5S	ND		500
64	15-Apr-04	LST-5S	ND		500
65	14-Oct-04	LST-5S	ND		500
66	05-Apr-05	LST-5S	ND		500
67	27-Oct-05	LST-5S	ND		500
68	21-Apr-06	LST-5S	ND		500
69	12-Oct-06	LST-5S	ND		500
70	26-Apr-07	LST-5S	ND		100
71	10-Oct-07	LST-5S	30.9	J	100.0
72	03-Apr-08	LST-5S	27.9	J	100.0
73	28-Oct-08	LST-5S	34	J	100.0
74	08-Apr-09	LST-5S	33.1	J	100.0
75	27-Oct-09	LST-5S	37.9	J	100.0
76	08-Apr-10	LST-5S	31.9	J	100.0
77	13-Oct-10	LST-5S	161		100.0
78	27-Apr-11	LST-5S	41.5	J	100.0
79	Jul-99	MW-7	869		500
80	Aug-99	MW-7	ND		500
81	Oct-99	MW-7	ND		500
82	Nov-99	MW-7	ND		500
83	Apr-00	MW-7	ND		500
84	Oct-00	MW-7	ND		500
85	Apr-01	MW-7	ND		500
86	Oct-01	MW-7	ND		500
87	Apr-02	MW-7	ND		500
88	Oct-02	MW-7	ND		500
89	Apr-03	MW-7	ND		500
90	Oct-03	MW-7	ND		500
91	15-Apr-04	MW-7	ND		500
92	14-Oct-04	MW-7	ND		500
93	Apr-02	MW-12S	ND		500
94	Oct-02	MW-12S	ND		500
95	Apr-03	MW-12S	ND		500
96	Oct-03	MW-12S	ND		500
97	15-Apr-04	MW-12S	ND		500
98	14-Oct-04	MW-12S	ND		500
99	05-Apr-05	MW-12S	ND		500
100	27-Oct-05	MW-12S	ND		500
101	21-Apr-06	MW-12S	ND		500
102	12-Oct-06	MW-12S	ND		500
103	26-Apr-07	MW-12S	ND		100
104	10-Oct-07	MW-12S	81.8	J	100.0
105	03-Apr-08	MW-12S	86.6	J	100.0
106	28-Oct-08	MW-12S	85.2	J	100.0

Analyte:	**Barium**				Quantitation
Sample No.	Sample Date	Location	Concentration (ug/L)		Limit (ug/L)
107	08-Apr-09	MW-12S	109		100.0
108	27-Oct-09	MW-12S	66.5	J	100.0
109	08-Apr-10	MW-12S	82.1	J	100.0
110	13-Oct-10	MW-12S	54.4	J	100.0
111	27-Apr-11	MW-12S	64.9	J	100.0
112	Apr-02	MW-12D	ND		500
113	Oct-02	MW-12D	ND		500
114	Apr-03	MW-12D	ND		500
115	Oct-03	MW-12D	ND		500
116	15-Apr-04	MW-12D	ND		500
117	14-Oct-04	MW-12D	ND		500
118	05-Apr-05	MW-12D	ND		500
119	27-Oct-05	MW-12D	ND		500
120	21-Apr-06	MW-12D	ND		500
121	12-Oct-06	MW-12D	ND		500
122	26-Apr-07	MW-12D	ND		100
123	10-Oct-07	MW-12D	47.4	J	100.0
124	03-Apr-08	MW-12D	36.7	J	100.0
125	28-Oct-08	MW-12D	30.9	J	100.0
126	08-Apr-09	MW-12D	33.6	J	100.0
127	27-Oct-09	MW-12D	27.3	J	100.0
128	08-Apr-10	MW-12D	26.8	J	100.0
129	13-Oct-10	MW-12D	26.7	J	100.0
130	27-Apr-11	MW-12D	26.1	J	100.0
131	15-Apr-04	MW-13S	ND		500
132	14-Oct-04	MW-13S	ND		500
133	05-Apr-05	MW-13S	ND		500
134	27-Oct-05	MW-13S	ND		500
135	15-Apr-04	MW-13D	ND		500
136	14-Oct-04	MW-13D	ND		500
137	05-Apr-05	MW-13D	ND		500
138	27-Oct-05	MW-13D	ND		500
139	15-Apr-04	MW-14	ND		500
140	14-Oct-04	MW-14	ND		500
141	05-Apr-05	MW-14	ND		500
142	27-Oct-05	MW-14	ND		500

Number of Data:	142
Number of Truncated Data:	91
Percentage of Truncated Data:	64%
Non-Parametric Prediction Limit:	**869**

- All concentrations in micrograms per liter (ug/L).

JEI Project: **CRSWMA - Tuscarora Landfill**
Project No: **00618.1001.12**
Task No: **01**
Sample Date: **27-Apr-11**

Analyte: **Beryllium**

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	Jul-93	IRL-1S	3		1
2	Aug-93	IRL-1S	1		1
3	Sep-93	IRL-1S	1		1
4	Sep-93	IRL-1S	2		1
5	Apr-94	IRL-1S	ND		1
6	Oct-94	IRL-1S	ND		2
7	Apr-95	IRL-1S	ND		2
8	Oct-95	IRL-1S	ND		2
9	Apr-96	IRL-1S	ND		2
10	Oct-96	IRL-1S	ND		2
11	Apr-97	IRL-1S	3		2
12	Oct-97	IRL-1S	3		2
13	Apr-98	IRL-1S	ND		2
14	Oct-98	IRL-1S	2		2
15	Mar-99	IRL-1S	ND		2
16	Oct-99	IRL-1S	ND		2
17	Apr-00	IRL-1S	ND		2
18	Oct-00	IRL-1S	ND		2
19	Apr-01	IRL-1S	ND		2
20	Oct-01	IRL-1S	ND		2
21	Apr-02	IRL-1S	ND		2
22	Oct-02	IRL-1S	ND		2
23	Apr-03	IRL-1S	ND		2
24	Oct-03	IRL-1S	ND		2
25	15-Apr-04	IRL-1S	ND		2
26	14-Oct-04	IRL-1S	ND		2
27	05-Apr-05	IRL-1S	ND		2
28	27-Oct-05	IRL-1S	ND		2
29	21-Apr-06	IRL-1S	ND		2
30	12-Oct-06	IRL-1S	ND		2
31	26-Apr-07	IRL-1S	ND		1.0
32	10-Oct-07	IRL-1S	0.1	J	1.0
33	02-Apr-08	IRL-1S	0.4	J	1.0
34	28-Oct-08	IRL-1S	0.5	J	1.0
35	08-Apr-09	IRL-1S	0.6	J	1.0
36	27-Oct-09	IRL-1S	0.7	J	1.0
37	08-Apr-10	IRL-1S	0.6	J	1.0
38	13-Oct-10	IRL-1S	0.6	J	1.0
39	27-Apr-11	IRL-1S	0.59	J	1.0
40	Jul-93	IRL-1D	1		1
41	Aug-93	IRL-1D	1		1
42	Sep-93	IRL-1D	ND		1
43	Sep-93	IRL-1D	3		1
44	Apr-94	IRL-1D	ND		1
45	Oct-94	IRL-1D	ND		2
46	Apr-95	IRL-1D	ND		2
47	Oct-95	IRL-1D	ND		2
48	Apr-96	IRL-1D	ND		2
49	27-Oct-05	IRL-1D	6		2
50	21-Apr-06	IRL-1D	ND		2

Analyte:	**Beryllium**				
Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
51	12-Oct-06	IRL-1D	ND		2
52	26-Apr-07	IRL-1D	ND		1.0
53	10-Oct-07	IRL-1D	ND		1.0
54	02-Apr-08	IRL-1D	0.1	J	1.0
55	28-Oct-08	IRL-1D	0.1	J	1.0
56	08-Apr-09	IRL-1D	0.1	J	1.0
57	27-Oct-09	IRL-1D	0.2	J	1.0
58	08-Apr-10	IRL-1D	0.1	B	1.0
59	13-Oct-10	IRL-1D	0.3	J	1.0
60	27-Apr-11	IRL-1D	0.06	J	1.0
61	Oct-02	LST-5S	ND		2
62	Apr-03	LST-5S	ND		2
63	Oct-03	LST-5S	ND		2
64	15-Apr-04	LST-5S	ND		2
65	14-Oct-04	LST-5S	ND		2
66	05-Apr-05	LST-5S	ND		2
67	27-Oct-05	LST-5S	ND		2
68	21-Apr-06	LST-5S	ND		2
69	12-Oct-06	LST-5S	ND		2
70	26-Apr-07	LST-5S	ND		1.0
71	10-Oct-07	LST-5S	ND		1.0
72	03-Apr-08	LST-5S	ND		1.0
73	28-Oct-08	LST-5S	0.1	J	1.0
74	08-Apr-09	LST-5S	0.2	J	1.0
75	27-Oct-09	LST-5S	0.2	J	1.0
76	08-Apr-10	LST-5S	0.1	B	1.0
77	13-Oct-10	LST-5S	0.1	J	1.0
78	27-Apr-11	LST-5S	0.15	J	1.0
79	Jul-99	MW-7	5		2
80	Aug-99	MW-7	ND		2
81	Oct-99	MW-7	ND		2
82	Nov-99	MW-7	ND		2
83	Apr-00	MW-7	ND		2
84	Oct-00	MW-7	ND		2
85	Apr-01	MW-7	ND		2
86	Oct-01	MW-7	ND		2
87	Apr-02	MW-7	ND		2
88	Oct-02	MW-7	ND		2
89	Apr-03	MW-7	ND		2
90	Oct-03	MW-7	ND		2
91	15-Apr-04	MW-7	ND		2
92	14-Oct-04	MW-7	ND		2
93	Apr-02	MW-12S	ND		2
94	Oct-02	MW-12S	ND		2
95	Apr-03	MW-12S	ND		2
96	Oct-03	MW-12S	ND		2
97	15-Apr-04	MW-12S	ND		2
98	14-Oct-04	MW-12S	ND		2
99	05-Apr-05	MW-12S	ND		2
100	27-Oct-05	MW-12S	ND		2
101	21-Apr-06	MW-12S	ND		2
102	12-Oct-06	MW-12S	ND		2
103	26-Apr-07	MW-12S	ND		1.0
104	10-Oct-07	MW-12S	0.1	J	1.0
105	03-Apr-08	MW-12S	0.3	J	1.0
106	28-Oct-08	MW-12S	0.9	J	1.0

Analyte:	**Beryllium**				
Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
107	08-Apr-09	MW-12S	0.6	J	1.0
108	27-Oct-09	MW-12S	0.5	J	1.0
109	08-Apr-10	MW-12S	0.6	J	1.0
110	13-Oct-10	MW-12S	0.5	J	1.0
111	27-Apr-11	MW-12S	0.36	J	1.0
112	Apr-02	MW-12D	ND		2
113	Oct-02	MW-12D	ND		2
114	Apr-03	MW-12D	ND		2
115	Oct-03	MW-12D	ND		2
116	15-Apr-04	MW-12D	ND		2
117	14-Oct-04	MW-12D	ND		2
118	05-Apr-05	MW-12D	ND		2
119	27-Oct-05	MW-12D	ND		2
120	21-Apr-06	MW-12D	ND		2
121	12-Oct-06	MW-12D	ND		2
122	26-Apr-07	MW-12D	ND		1.0
123	10-Oct-07	MW-12D	ND		1.0
124	03-Apr-08	MW-12D	ND		1.0
125	28-Oct-08	MW-12D	0.1	J	1.0
126	08-Apr-09	MW-12D	0.1	J	1.0
127	27-Oct-09	MW-12D	0.1	J	1.0
128	08-Apr-10	MW-12D	0.1	B	1.0
129	13-Oct-10	MW-12D	0.1	J	1.0
130	27-Apr-11	MW-12D	ND		1.0
131	15-Apr-04	MW-13S	ND		2
132	14-Oct-04	MW-13S	ND		2
133	05-Apr-05	MW-13S	ND		2
134	27-Oct-05	MW-13S	ND		2
135	15-Apr-04	MW-13D	ND		2
136	14-Oct-04	MW-13D	ND		2
137	05-Apr-05	MW-13D	ND		2
138	27-Oct-05	MW-13D	ND		2
139	15-Apr-04	MW-14	ND		2
140	14-Oct-04	MW-14	ND		2
141	05-Apr-05	MW-14	ND		2
142	27-Oct-05	MW-14	ND		2

Number of Data:	139
Number of Truncated Data:	96
Percentage of Truncated Data:	69%
Non-Parametric Prediction Limit:	**6**

- All concentrations in micrograms per liter (ug/L).

JEI Project: **CRSWMA - Tuscarora Landfills**
Project No: **00618.1001.12**
Task No: **01**
Sample Date: **27-Apr-11**

Analyte: **Zinc**

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	Jul-93	IRL-1S	42	B	10
2	Aug-93	IRL-1S	37		10
3	Sep-93	IRL-1S	31		10
4	Sep-93	IRL-1S	73		10
5	Apr-94	IRL-1S	36	B	10
6	Oct-94	IRL-1S	ND		50
7	Apr-95	IRL-1S	ND		50
8	Oct-95	IRL-1S	ND		50
9	Apr-96	IRL-1S	ND		50
10	Oct-96	IRL-1S	ND		50
11	Apr-97	IRL-1S	ND		50
12	Oct-97	IRL-1S	110		50
13	Apr-98	IRL-1S	ND		50
14	Oct-98	IRL-1S	ND		50
15	Mar-99	IRL-1S	ND		50
16	Oct-99	IRL-1S	ND		50
17	Apr-00	IRL-1S	90		50
18	Oct-00	IRL-1S	ND		50
19	Apr-01	IRL-1S	ND		50
20	Oct-01	IRL-1S	ND		50
21	Apr-02	IRL-1S	ND		50
22	Oct-02	IRL-1S	ND		50
23	Apr-03	IRL-1S	ND		50
24	Oct-03	IRL-1S	ND		50
25	15-Apr-04	IRL-1S	ND		50
26	14-Oct-04	IRL-1S	ND		50
27	05-Apr-05	IRL-1S	ND		50
28	27-Oct-05	IRL-1S	ND		50
29	21-Apr-06	IRL-1S	ND		50
30	12-Oct-06	IRL-1S	ND		50
31	26-Apr-07	IRL-1S	ND		10
32	10-Oct-07	IRL-1S	7.5	B	10.0
33	02-Apr-08	IRL-1S	5.5	B	10.0
34	28-Oct-08	IRL-1S	6.8	J	10.0
35	08-Apr-09	IRL-1S	9.5	J	10.0
36	27-Oct-09	IRL-1S	11		10.0
37	08-Apr-10	IRL-1S	12		10.0
38	13-Oct-10	IRL-1S	7	B	10.0
39	27-Apr-11	IRL-1S	4.4	B	10.0
40	1-Jul-93	IRL-1D	41	B	10
41	1-Aug-93	IRL-1D	18		10
42	1-Sep-93	IRL-1D	20		10
43	1-Sep-93	IRL-1D	88		10
44	1-Apr-94	IRL-1D	19	B	10
45	1-Oct-94	IRL-1D	ND		50
46	1-Apr-95	IRL-1D	ND		50
47	1-Oct-95	IRL-1D	ND		50
48	1-Apr-96	IRL-1D	ND		50
49	27-Oct-05	IRL-1D	192		50
50	21-Apr-06	IRL-1D	ND		50

Analyte:	**Zinc**				Quantitation
Sample No.	Sample Date	Location	Concentration (ug/L)		Limit (ug/L)
51	12-Oct-06	IRL-1D	ND		50
52	26-Apr-07	IRL-1D	ND		10
53	10-Oct-07	IRL-1D	5.3	B	10.0
54	02-Apr-08	IRL-1D	14	B	10.0
55	28-Oct-08	IRL-1D	6.6	J	10.0
56	08-Apr-09	IRL-1D	13		10.0
57	27-Oct-09	IRL-1D	6.7	J	10.0
58	08-Apr-10	IRL-1D	9.7	J	10.0
59	13-Oct-10	IRL-1D	14	B	10.0
60	27-Apr-11	IRL-1D	3.2	B	10.0
61	Oct-02	LST-5S	ND		50
62	Apr-03	LST-5S	82		50
63	Oct-03	LST-5S	ND		50
64	15-Apr-04	LST-5S	ND		50
65	14-Oct-04	LST-5S	ND		50
66	05-Apr-05	LST-5S	55		50
67	27-Oct-05	LST-5S	ND		50
68	21-Apr-06	LST-5S	ND		50
69	12-Oct-06	LST-5S	ND		50
70	26-Apr-07	LST-5S	22		10
71	10-Oct-07	LST-5S	17	B	10.0
72	03-Apr-08	LST-5S	25	B	10.0
73	28-Oct-08	LST-5S	18		10.0
74	08-Apr-09	LST-5S	29		10.0
75	27-Oct-09	LST-5S	21		10.0
76	08-Apr-10	LST-5S	25		10.0
77	13-Oct-10	LST-5S	39		10.0
78	27-Apr-11	LST-5S	20		10.0
79	Jul-99	MW-7	113		50
80	Aug-99	MW-7	ND		50
81	Oct-99	MW-7	ND		50
82	Nov-99	MW-7	ND		50
83	Apr-00	MW-7	ND		50
84	Oct-00	MW-7	ND		50
85	Apr-01	MW-7	ND		50
86	Oct-01	MW-7	ND		50
87	Apr-02	MW-7	ND		50
88	Oct-02	MW-7	ND		50
89	Apr-03	MW-7	ND		50
90	Oct-03	MW-7	ND		50
91	15-Apr-04	MW-7	ND		50
92	14-Oct-04	MW-7	72		50
93	Apr-02	MW-12S	ND		50
94	Oct-02	MW-12S	ND		50
95	Apr-03	MW-12S	ND		50
96	Oct-03	MW-12S	11		50
97	15-Apr-04	MW-12S	ND		50
98	14-Oct-04	MW-12S	ND		50
99	05-Apr-05	MW-12S	ND		50
100	27-Oct-05	MW-12S	ND		50
101	21-Apr-06	MW-12S	ND		50
102	12-Oct-06	MW-12S	ND		50
103	26-Apr-07	MW-12S	16		10
104	10-Oct-07	MW-12S	22	B	10.0
105	03-Apr-08	MW-12S	26		10.0
106	28-Oct-08	MW-12S	20		10.0

Analyte:	**Zinc**				Quantitation
Sample No.	Sample Date	Location	Concentration (ug/L)		Limit (ug/L)
107	08-Apr-09	MW-12S	23		10.0
108	27-Oct-09	MW-12S	16		10.0
109	08-Apr-10	MW-12S	19		10.0
110	13-Oct-10	MW-12S	17	B	10.0
111	27-Apr-11	MW-12S	12		10.0
112	Apr-02	MW-12D	ND		50
113	Oct-02	MW-12D	ND		50
114	Apr-03	MW-12D	ND		50
115	Oct-03	MW-12D	ND		50
116	15-Apr-04	MW-12D	ND		50
117	14-Oct-04	MW-12D	ND		50
118	05-Apr-05	MW-12D	ND		50
119	27-Oct-05	MW-12D	ND		50
120	21-Apr-06	MW-12D	ND		50
121	12-Oct-06	MW-12D	ND		50
122	26-Apr-07	MW-12D	ND		10
123	10-Oct-07	MW-12D	2.1	B	10.0
124	03-Apr-08	MW-12D	1.9	B	10.0
125	28-Oct-08	MW-12D	15		10.0
126	08-Apr-09	MW-12D	1.3	B	10.0
127	27-Oct-09	MW-12D	4.2	J	10.0
128	08-Apr-10	MW-12D	2.2	B	10.0
129	13-Oct-10	MW-12D	7.7	B	10.0
130	27-Apr-11	MW-12D	2.0	B	10.0
131	15-Apr-04	MW-13S	ND		50
132	14-Oct-04	MW-13S	ND		50
133	05-Apr-05	MW-13S	ND		50
134	27-Oct-05	MW-13S	ND		50
135	15-Apr-04	MW-13D	ND		50
136	14-Oct-04	MW-13D	ND		50
137	05-Apr-05	MW-13D	ND		50
138	27-Oct-05	MW-13D	ND		50
139	15-Apr-04	MW-14	ND		50
140	14-Oct-04	MW-14	ND		50
141	05-Apr-05	MW-14	ND		50
142	27-Oct-05	MW-14	ND		50

Number of Data:	120
Number of Truncated Data:	82
Percentage of Truncated Data:	68%
Non-Parametric Prediction Limit:	**192**

- All concentrations in micrograms per liter (ug/L).
- Blank qualified data not used in statistical calculations.