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FILE COPY

September 6, 2007

Mr. Ethan Brown
Division of Waste Management/Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646

RE: Coastal Regional Solid Waste Management Authority's Tuscarora Regional Landfills
First Semiannual Groundwater Monitoring Report of 2007
JEI Project No. 618.02, Task 15

Dear Ethan:

On behalf of the Coastal Regional Solid Waste Management Authority (CRSWMA), Joyce Engineering, Inc. is submitting the enclosed *First Semiannual Groundwater Monitoring Report of* 2007. This report completes the first semiannual compliance monitoring event of 2007 for the Tuscarora Regional Landfills, Permit Numbers 25-04 and 25-09, as required by the North Carolina Division of Waste Management, Solid Waste Section. Please feel free to contact me or Michelle Brown at (336) 323-0092 if you have any questions regarding this submittal.

Sincerely,
JOYCE ENGINEERING, INC.

Jeremey J. Kerly, P.G.
Staff Consultant

Enclosure

Cc: Allen Hardison – CRSWMA (2 copies)
File

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)
CRSWMA (Coastal Regional Solid Waste Management Authority) Landfills	7400 Old Hwy 70 West New Bern, NC 28562	25-04 & 25-09	.1600	April 26, 2007

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Jeremey J. Kerly	Staff Consultant	(336) 323-0092
Facility Representative Name (Print)	Title	(Area Code) Telephone Number

Signature: [signature] Date: 9-7-07

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 2097 GEOLOGIST JEREMEY JOHN KERLY

Revised 10/2006

Prepared for:

CRSWMA
P.O. Box 128
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JEI Project Number 618.02, Task 15

FIRST SEMIANNUAL GROUNDWATER MONITORING REPORT OF 2007 COASTAL REGIONAL SOLID WASTE MANAGEMENT AUTHORITY LANDFILLS CRAVEN COUNTY, NORTH CAROLINA PERMIT NUMBERS 25-04 & 25-09

September 2007

Prepared by:

JOYCE ENGINEERING, INC.

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Executive Summary

This report presents the results of semiannual groundwater and surface water monitoring that was conducted at the Coastal Regional Solid Waste Management Authority's Tuscarora Regional Landfill (MSWLF) in April 2007. Samples were collected from the compliance network for the Closed Interim Regional Landfill, the Long-Term Regional Landfill, and the Leachate Storage Lagoon area. Surface water samples were collected, as required by the Groundwater Monitoring Plan prepared for the facility.

There were no statistically significant increases of inorganic constituents over background levels during the April 2007 sampling event. No organic constituents were detected at quantifiable concentrations in groundwater samples collected from the downgradient monitoring wells at the Closed Interim Regional Landfill. Zinc was detected above the laboratory reporting limit in IRL-5S and barium was detected above the laboratory reporting limit in IRL-4S, but neither detection was considered to be statistically significant. The results indicate that the Closed Interim Regional Landfill is in compliance with the water quality requirements.

No organic constituents were detected at concentrations that represent statistically significant increases over background in samples collected from the compliance network at the Long-Term Regional Landfill during the April 2007 sampling event. Concentrations of zinc detected in monitoring wells MW-17 and MW-12S were not considered to be statistically significant increases over background levels. No other inorganic constituents were detected during this event. The results are consistent with previous sampling events.

The concentrations of zinc collected from Leachate Storage Lagoon Area monitoring wells LST-3S, -5S, and -6S were not considered to be statistically significant. No organic constituents were detected at quantifiable concentrations in downgradient monitoring wells for the Leachate Storage Lagoon Area.

Results from surface water samples collected in April 2007 reported no detected organic analytes present in upstream or downstream sampling points. Quantified concentrations of zinc were detected in Underdrain #1 and Underdrain #2. No other inorganic constituents were detected in surface water sampling points.

FIRST SEMIANNUAL GROUNDWATER MONITORING REPORT OF 2007
COASTAL REGIONAL SOLID WASTE MANAGEMENT AUTHORITY LANDFILLS
CRAVEN COUNTY, NORTH CAROLINA

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1.0 INTRODUCTION

This report presents the results of semiannual groundwater and surface water monitoring conducted at the Coastal Regional Solid Waste Management Authority's (CRSWMA's) Tuscarora Interim Regional Landfill and Long-Term Regional Landfill in April 2007. The landfills are located off of Old Highway 70, near the town of New Bern in Craven County.

The Closed Tuscarora Interim Regional Landfill was permitted in 1993 and stopped receiving waste in November 1999. As required by the North Carolina Solid Waste Management Regulations (NCSWMR) and the Groundwater Monitoring Plan for the landfill, this report includes analytical results of the North Carolina Appendix I list of organic and inorganic constituents for Detection Monitoring, statistical evaluation of the analytical data, field water quality measurements, and estimates of groundwater flow directions in the vicinity of the closed landfill.

The Tuscarora Long-Term Regional Landfill began receiving waste after November 1999. As required by the NCSWMR and the Groundwater Monitoring Plan for the landfill, this report includes analytical results of the North Carolina Appendix I list of organic and inorganic constituents for Detection Monitoring, statistical evaluation of the laboratory analyses, field water quality measurements, and estimates of groundwater flow directions in the vicinity of the active Long-Term Regional Landfill. Also included in this report are the results from the facility leachate sampling, surface water sampling, and groundwater sampling from the leachate storage lagoon area located west of the Long-Term Regional Landfill. 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. The April 2007 sampling event was the fifth event conducted under the new Groundwater Monitoring Plan that was approved as part of the Phase 2 Construction Plan Application in November 2004.

2.0 MONITORING PROGRAMS

Groundwater programs for each of the landfills and the leachate storage system are discussed in the following sections and locations are shown on *Drawing Nos. 1 & 2*. The surface water monitoring network for both landfills includes one upstream surface water sampling point (SWPT-1) and three downstream surface water monitoring points (SWPT-2, UD-1, and UD-2). Surface water samples are collected semiannually and are analyzed for the constituents listed in NCSWMR Appendix I.

2.1 Closed Interim Regional Landfill

Groundwater monitoring at the Closed Interim Regional Landfill is completed in accordance with NCSWMR §1633 (Detection Monitoring Program) and the 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.

2.2 Long-Term Regional Landfill

Groundwater monitoring at the Long-Term Regional Landfill is completed in accordance with NCSWMR §1633 (Detection Monitoring Program) and the 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 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 will replaced before the October 2007 sampling event. The fourth background sampling for MW-13S, MW-13D, and MW-14 was performed during the April 2005 event for NC Appendix I constituents. The monitoring wells were installed on April 18-23, 2003, to serve as downgradient wells for the Phase 2 expansion of the Long-Term Regional Landfill. Quality control samples, including a field blank and a trip blank, are collected during each sampling event completed at the facility. Leachate is sampled and analyzed as part of the semiannual monitoring program at the facility for the required list of parameters.

2.3 Leachate Storage Lagoon Area

Groundwater monitoring at the Leachate Storage Lagoons is completed in accordance with NCSWMR §1633 (Detection Monitoring Program) and the 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 consists of one upgradient/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.

2.4 Surface Water Sampling

Surface water monitoring at the Tuscarora Regional Landfill is completed in accordance with NCSWMR §1633 (Detection Monitoring Program) and the 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).

2.5 April 2007 Sampling Event

Environment 1, Inc. personnel collected, preserved, and shipped the April 2007 groundwater, surface water and leachate samples in accordance with the approved site Groundwater Monitoring Plan and North Carolina Division of Solid Waste Management technical guidance (DSWM, 1995). The groundwater monitoring wells and surface water sampling locations are shown on *Drawing No. 1*.

3.0 HYDROGEOLOGY

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 were similar to previous events.

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 upper and lower aquifers are shown on *Drawing Nos. 1* and *2* were interpreted from the April 2007 water level measurements. Groundwater at the site flows predominantly from the northwest to the southeast for both aquifers.

Horizontal groundwater gradients were estimated based on April 2007 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 0.0030 to 0.0056 ft/ft (*Table 4*) for the upper aquifer and 0.00116 to 0.00232 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, wet stormwater drainage ditches and basins located within the site, and dewatering associated with on-site borrow operations.

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 0.019 ft/day (*Table 4*) for the uppermost aquifer range and 0.025 to 0.050 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 grossly overestimate velocity when applied to heterogeneous and/or anisotropic conditions.

4.0 STATISTICAL PROCEDURES

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 Interim Regional Landfill and the Long-Term Regional Landfill. Background data and statistical methods used to evaluate the data from the Interim Regional Landfill and the Long-Term Regional Landfill are discussed as follows.

4.1 Background Data

Monitoring wells IRL-1S and IRL-1D are designated as the background wells for the Closed Interim Regional Landfill. Monitoring wells MW-12S and MW-12D are designated as the background wells for the Long-Term Regional Landfill. Monitoring well LST-5S is designated as the background well for the Leachate Storage Lagoon area. All data collected from these wells have been included in the background data pool for this facility.

4.2 Statistical Methods

The data were evaluated using the Shapiro-Francia Test, Parametric Prediction Limits, Parametric Tolerance Intervals, Aitchison's Adjustment, Non-Parametric Prediction Limits, and Poisson Prediction Limits as appropriate. The statistical results are summarized in the *Statistical Analyses* section, and are discussed in Sections 6.1 and 6.2 of this report. Detailed results of each statistical analysis are also presented in the *Statistical Analyses* section. To clearly document these tests, individual tests are presented on each page. Background data are determined by tests for normality, outliers, Aitchison's adjustment, and/or parametric tolerance interval, as appropriate based on the data. For each set of data, all parameters used to calculate the test statistic are presented beneath the raw data. The result of the test and any comments relating to quality assurance are presented at the bottom of the page.

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. These methods and the criteria for their use are discussed below.

4.2.1 Treatment of Censored Data

Generally, the laboratory reporting limits (RLs) are known and background data are censored as follows. When less than or equal to 15% of the background data values are less than the RL, any data reported less than the RL will be treated as one-half the RL.

4.2.2 Assumption of Normality

Prior to conducting statistical tests that are based on the assumption of normally distributed data, normality of the background data is evaluated using the Shapiro-Francia statistic (W') when the number of data in a sample set is greater than 50. Normality is assessed at the 95% confidence level. In the event that the raw data fail to follow a normal distribution, the data are transformed using a base-10 logarithm. The transformed data are then tested for normality using the Shapiro-Francia statistic. In the event that the log-transformed data also fail to follow a normal distribution, a non-parametric approach is applied.

4.2.3 Parametric Upper Tolerance Limit

In those cases where the background data consist of a minimum of eight independent data values and less than or equal to 15% of the background data values are less than the RL for a given analyte, the downgradient values are compared to the parametric upper tolerance limit in accordance with the procedure summarized in the USEPA guidance documents, *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Interim Final Guidance* (April 1989) and *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance* (July 1992).

4.2.4 Aitchison's Adjusted Parametric Tolerance Limit

When the background data consist of a minimum of eight independent data values and more than 15%, but less than or equal to 50%, of the background data values are less than the RL for a given analyte, the mean and standard deviation are adjusted in accordance with the procedure described by Aitchison (1955) and summarized in the USEPA guidance document, *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance* (July 1992). After the adjustments are made, the downgradient values are compared to the Aitchison's adjusted parametric upper tolerance limit in accordance with the procedures summarized in the USEPA guidance documents, *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Interim Final Guidance* (April 1989) and *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance* (July 1992).

4.2.5 Non-parametric Upper Tolerance Limit

In those cases where more than 50%, but less than or equal to 90%, of the background data values are less than the RL for a given analyte or the background data fail to follow a normal or log-normal distribution, downgradient values are compared to the non-parametric upper tolerance

limit. These comparisons are made in accordance with the procedures summarized in the USEPA guidance documents, *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Interim Final Guidance* (April 1989) and *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance* (July 1992).

4.2.6 Poisson Upper Prediction Limit

In those cases where more than 90% of the background data values are less than the RL for a given analyte, then the downgradient values are compared to the Poisson upper prediction limit. This is done in accordance with the procedure summarized in the USEPA guidance document, *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance* (July 1992).

5.0 APRIL 2007 STATISTICAL RESULTS

Statistical comparisons of baseline monitoring data to compliance data are part of the required compliance demonstration (Rule .1632(g), (h), and (i)). The results of statistical analyses of the April 2007 sampling event are summarized in the *Statistical Analyses* section in tabular form. The results are discussed below.

5.1 Closed Interim Regional Landfill

5.1.1 Inorganic Statistical Results

Background concentrations were determined as discussed in Section 5.0 and detailed in the *Statistical Analyses* section. Barium was detected above the laboratory reporting limit in IRL-4S during the April 2007 sampling event but was not considered to be a statistically significant increase. Zinc was detected above the laboratory reporting limit in IRL-5S during the April 2007 sampling event. This detection was also determined not to be present at a statistically significant concentration.

5.1.2 Organic Statistical Results

No organic constituents are reported to have been detected in any of the groundwater samples collected from upgradient wells during the background sampling events. Background concentrations were determined as discussed in Section 5.0 and detailed in the *Statistical Analyses* section. No NCSWMR Appendix I organic constituents were reported to be present in the downgradient compliance wells during the April 2007 sampling event.

5.2 Long-Term Regional Landfill

5.2.1 Inorganic Statistical Results

Background concentrations were determined as discussed in Section 5 and detailed in the *Statistical Analyses* section. Zinc was detected in MW-7 at a concentration above the laboratory

quantitation limit during the April 2007 sampling event. The detection of zinc was determined not to be present at a statistically significant concentration.

5.2.2 Organic Statistical Results

No organic constituents are reported to have been detected in any of the groundwater samples collected from upgradient wells during the background sampling events. Background concentrations were determined as discussed in Section 5.0 and detailed in the *Statistical Analyses* section. No NCSWMR Appendix I organic constituents were reported to be present in the downgradient compliance wells during the April 2007 sampling event.

5.3 Leachate Storage Lagoon Area

5.3.1 Inorganic Statistical Results

Background concentrations were determined as discussed in Section 5 and detailed in the *Statistical Analyses* section. Zinc was detected in LST-3S, -5S, and -6S at quantified concentrations but the detections were determined not to be statistically significant. There were no other detected inorganic constituents during the April 2007 event.

5.3.2 Organic Statistical Results

No organic constituents are reported to have been detected in the groundwater samples collected from upgradient wells during the background sampling events. Background concentrations were determined as discussed in Section 5.0 and detailed in the *Statistical Analyses* section. No NCSWMR Appendix I organic constituents were reported to be present in any of the downgradient compliance wells during the April 2007 sampling event.

6.0 APRIL 2007 SAMPLING RESULTS

Environment 1, Inc. personnel collected the April 2007 groundwater and surface water samples. In addition, Environment 1, Inc. personnel analyzed the April 2007 groundwater and surface water samples. Water quality indicator parameters pH, temperature, conductivity, and turbidity were measured in the field at the time of sample collection using portable field instruments. Results of the April 2007 sampling event are discussed in detail below.

6.1 Closed Interim Regional Landfill

The analytical results from the April 2007 groundwater sampling event at the Closed Interim Regional Landfill are summarized in the *Table 6* and field parameters are summarized on the *Table 7*. The results, as reported by the laboratory, the laboratory quality assurance/quality control information, and the chain of custody records are included in the *Laboratory Results* section.

No organic constituents were detected above laboratory reporting limits during this event or at concentrations that represent statistically significant increases over background, in samples collected from the compliance network at the Closed Interim Regional Landfill during the April 2007 sampling event. Barium was detected in IRL-4S above the laboratory reporting limit and zinc was detected above the laboratory reporting limit in IRL-5S; both the barium and the zinc concentrations were considered not to be statistically significant increases.

Dissolved zinc was analyzed in IRL-5S for the April 2007 sampling event, as requested by Larry Rose of the Solid Waste Section, due to past statistically significant increases over background. Dissolved zinc in IRL-5S was reported at a concentration of 19 ug/L which is higher than previous sampling events. Dissolved zinc will be sampled for during the second semiannual event of 2007.

6.2 Long-Term Regional Landfill

The analytical results from the April 2007 groundwater sampling event at the Long-Term Regional Landfill are summarized in the *Table 8* and field parameters are summarized on the *Table 9*. The results, as reported by the laboratory, the laboratory quality assurance/quality control information, and the chain of custody records are included in the *Laboratory Results* section.

No organic constituents were detected above the laboratory reporting limit in samples collected from the compliance network at the Long-Term Regional Landfill during the April 2007 sampling event. Zinc was detected at a quantified concentration in monitoring well MW-7 during the April 2007 sampling event and is not considered to be statistically significant.

6.3 Leachate Storage Lagoon Area

The analytical results from the April 2007 groundwater sampling event at the Leachate Storage Lagoon Area are summarized in the *Table 10* and field parameters are summarized on the *Table 11*. The results, as reported by the laboratory, the laboratory quality assurance/quality control information, and the chain of custody records are included in the *Laboratory Results* section.

No organic constituents were detected above laboratory reporting limits in the leachate storage area during the April 2007 sampling event. Zinc was detected in LST-3S, -5S, and -6S at quantified concentrations but were determined not to be statistically significant. There were no other detected inorganic constituents during the April 2007 event.

6.4 Surface Water Sampling

The analytical results from the April 2007 surface water sampling event at the CRSWMA landfills are summarized in the *Table 12* and field parameters are summarized on the *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 *Laboratory Results* section.

No organic constituents were detected above laboratory reporting limits at the surface water monitoring points during the April 2007 sampling event. Zinc was detected in UD-1 and UD-2 at quantified concentrations. There were no other detected inorganic constituents during the April 2007 event.

6.5 Leachate Sampling

The analytical results from the April 2007 leachate sampling event at the CRSWMA landfills are summarized in the *Table 14*. The results, as reported by the laboratory, the laboratory quality assurance/quality control information, and the chain of custody records, are included in the *Laboratory Results* section.

Five inorganic constituents (antimony, arsenic, barium, selenium, and zinc) were detected above the laboratory reporting limits at the leachate sampling point. Four organic constituents (1,4-dichlorobenzene, ethylbenzene, toluene, and xylenes) were also detected above the laboratory reporting limits during the April 2007 sampling event.

7.0 CONCLUSION

No organic constituents were detected in monitoring wells and surface water monitoring points during the April 2007 sampling event. Inorganic constituents that were reported as detections in monitoring wells and surface water monitoring points above the laboratory reporting limits were not determined to be stastically significant. Therefore, the results of the first semiannual monitoring event of 2007 indicate that the Coastal Regional Solid Waste Management Authority's Tuscarora Interim Regional Landfill and Long-Term Regional Landfill shall remain in the Detection Monitoring Program. The second semiannual monitoring event is scheduled for October 2007.

Tables

CRSWMA Regional Landfill
Summary of Detected Constituents
April 2007 Sampling Event

Constituent	RL	Concentrations (µg/L)										
		IRL-4S	LST-3S	LST-5S	LST-6S	IRL-5S	SWPT-1	UD-1	UD-2	MW-7	MW-12S	Leachate Manhole
Antimony	6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7
Arsenic	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14
Barium	100	113	ND	ND	ND	ND	ND	ND	ND	ND	ND	112
Selenium	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Zinc	10	ND	17	22	11	30	45	17	19	13	16	22
Dissolved Zinc	10	-	-	-	-	19	-	-	-	-	-	-
1,4-Dichlorobenzene	3.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.40
Ethylbenzene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.50
Toluene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.60
Xylenes	4.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	37.20

Notes:
1. ND = Non-detect
2. - = Not analyzed

TABLE 1
GROUNDWATER ELEVATION SUMMARY TABLE
TUSCARORA INTERIM REGIONAL LANDFILL

	MONITORING WELL WATER LEVEL ELEVATIONS																
Well No.	**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**	**PZ-Z**
Well TOC Elev.	50.56	50.19	49.36	51.37	49.55	51.58	49.02	48.93	48.34	48.35	48.78	48.66	47.92	47.12	46.04	48.90	49.52
Well Depth	17.73	45.20	12.30	17.68	30.80	30.95	16.40	39.22	14.99	34.64	14.62	35.42	15.10	30.10	20.40	14.90	-
Jul-93	46.57	36.02	38.61	-	35.00	-	38.68	34.26	43.13	34.24	40.19	34.73	38.01	35.34	-	-	-
Aug-93	44.94	35.46	38.04	-	34.36	-	38.57	33.68	42.02	33.54	39.58	34.13	37.56	34.81	-	-	-
Sep-93	44.29	34.70	37.97	-	33.89	-	38.42	32.97	41.77	33.01	39.50	33.39	37.53	34.08	-	-	-
Sep-93	45.07	34.42	37.97	-	33.45	-	38.85	32.58	41.33	32.69	39.51	33.07	37.59	33.71	-	-	-
Apr-94	45.55	38.93	39.28	-	38.03	-	37.74	37.27	39.48	37.33	37.95	37.79	37.66	38.31	-	-	-
Oct-94	44.90	35.97	37.86	-	35.02	-	37.84	34.38	38.54	34.39	37.52	34.86	37.39	35.38	-	-	-
Apr-95	45.50	38.73	39.49	-	37.82	-	38.02	37.15	38.82	37.16	37.56	37.60	37.53	38.14	-	-	-
Oct-95	45.12	35.41	38.17	-	34.65	-	37.11	34.06	38.79	34.05	37.41	34.44	37.41	34.84	-	-	-
Apr-96	46.60	40.25	39.98	-	39.52	-	38.98	38.82	38.58	38.83	37.51	39.28	37.67	39.73	-	-	-
Oct-96	46.12	-	-	-	-	-	37.88	39.01	38.52	39.06	37.29	-	38.11	-	-	-	-
Dec-96	47.26	40.19	39.56	-	39.25	-	38.12	38.73	37.94	38.85	37.28	39.26	38.32	39.82	-	-	-
Apr-97	45.35	-	38.98	-	-	-	37.71	37.50	38.82	37.54	37.30	-	-	-	-	-	-
Mar-97	46.65	40.46	39.86	-	39.65	-	37.67	39.00	38.70	39.03	37.40	39.48	38.82	39.92	-	-	-
Oct-97	43.40	-	37.87	-	-	-	37.68	-	38.18	32.92	37.04	-	-	39.73	-	-	-
Apr-98	46.18	-	38.89	-	-	-	38.05	38.57	38.51	38.62	37.52	-	37.84	-	-	-	-
Oct-98	44.11	36.69	36.86	-	35.94	-	37.52	35.32	37.78	35.38	37.23	35.79	-	-	-	-	-
Mar-99	46.10	-	38.11	-	38.55	-	38.35	37.95	38.35	37.99	38.18	38.39	-	-	-	-	-
Jul-99	43.89	36.25	-	-	35.62	-	38.31	35.06	39.37	35.10	38.92	35.47	-	-	-	-	-
Aug-99	43.27	34.79	-	-	33.90	-	38.18	33.34	39.37	33.41	38.96	33.75	-	-	-	-	-
Oct-99	47.38	40.16	-	-	39.39	-	41.56	38.75	40.85	38.80	40.21	39.20	-	-	-	-	-
Nov-99	45.52	39.56	-	-	38.81	-	38.70	38.16	39.21	38.23	39.29	38.65	-	-	-	-	-
Apr-00	45.71	39.77	-	-	39.00	-	39.54	38.35	39.61	38.45	39.34	38.84	-	-	-	-	-
Oct-00	44.52	38.90	-	-	38.10	-	39.76	37.43	39.46	37.52	39.45	37.94	-	-	-	-	-
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
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
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
Apr-05	44.81	-	-	-	-	40.33	40.21	38.56	40.13	38.66	39.92	39.12	-	-	37.79	-	41.27
Oct-05	46.74	-	-	-	-	41.01	40.88	39.18	41.16	39.31	40.44	39.70	-	-	40.67	-	42.03
Apr-06	44.90	39.71	-	-	-	39.89	40.41	38.23	40.31	38.35	40.07	38.77	-	-	40.15	-	41.10
Oct-06	45.45	39.71	-	-	-	40.00	39.80	38.28	40.86	38.37	40.18	38.79	-	-	40.58	-	41.01
Apr-07	45.01	39.44	-	-	-	39.85	39.85	38.13	40.32	38.22	40.08	38.66	-	-	40.29	-	40.80

NOTES:
1. All elevations are referenced to mean sea level.
2. - = no data available

TABLE 2
GROUNDWATER ELEVATION SUMMARY TABLE
TUSCARORA LONG-TERM REGIONAL LANDFILL

	MONITORING WELL WATER LEVEL ELEVATIONS										
Well No.	**MW-7**	**MW-8**	**MW-9**	**MW-10**	**MW-11S**	**MW-11D**	**MW-12S**	**MW-12D**	**MW-13S**	**MW-13D**	**MW-14**
Well TOC Elev.	50.69	50.94	53.11	47.32	47.67	47.55	52.12	51.90	46.21	45.93	46.44
Well Depth	16.22	15.61	22.00	15.95	14.03	34.73	35.95	17.96	15.00	33.00	14.00
Jul-99	46.76	46.16	44.87	44.60	38.94	36.60	-	-	-	-	-
Aug-99	45.10	44.41	44.76	43.13	39.19	34.87	-	-	-	-	-
Oct-99	46.94	46.08	46.49	43.34	40.79	40.34	-	-	-	-	-
Nov-99	46.19	44.13	44.75	42.34	38.85	39.71	-	-	-	-	-
Apr-00	46.96	45.66	45.11	42.96	39.04	39.93	-	-	-	-	-
Oct-00	45.79	43.94	45.59	42.30	38.74	39.05	-	-	-	-	-
Apr-01	47.33	45.62	44.60	43.60	39.37	40.16	-	-	-	-	-
Oct-01	44.81	42.99	43.26	41.57	38.92	35.41	-	-	-	-	-
Apr-02	43.86	44.74	44.26	43.10	39.39	39.09	43.69	40.78	-	-	-
Oct-02	45.18	44.19	43.91	41.28	39.49	35.26	45.15	36.77	-	-	-
Apr-03	47.26	45.74	45.86	43.27	40.40	40.24	45.77	42.00	-	-	-
Oct-03	47.98	46.34	46.33	42.64	41.67	40.44	46.32	42.32	-	-	-
Apr-04	47.78	46.47	46.40	43.40	41.57	38.78	46.79	41.70	43.27	38.93	43.96
Oct-04	46.69	45.04	-	43.09	40.29	39.53	45.16	41.09	41.28	38.41	41.46
Apr-05	47.05	44.88	-	43.29	40.28	40.18	44.54	41.89	43.29	39.19	42.77
Oct-05	47.16	46.12	-	42.63	41.93	40.81	45.51	42.62	44.51	39.82	43.64
Apr-06	47.12	46.02	-	43.53	40.37	39.89	45.43	41.59	43.17	38.82	42.53
Oct-06	47.20	46.27	-	43.05	40.85	39.87	45.70	41.72	44.03	38.79	-
Apr-07	47.06	45.66	-	43.34	41.06	39.74	45.52	41.49	43.01	38.59	-

NOTES:
1. All elevations are referenced to mean sea level.
2. - = no data available
3. The groundwater elevations for MW-9 are considered suspect.
4. Monitoring well MW-9 was abandoned on July 15, 2004.
5. MW-14 was accidentally destroyed after the April 2006 monitoring event.

TABLE 3
GROUNDWATER ELEVATION SUMMARY TABLE
LEACHATE STORAGE LAGOON AREA

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

NOTES:
1. All elevations are referenced to mean sea level.
2. - = no data available

TABLE 4
ESTIMATED HYDRAULIC GRADIENTS AND AVERAGE LINEAR VELOCITIES FOR THE SHALLOW AQUIFER
CRSWMA REGIONAL LANDFILL

			APRIL 2007				
GRADIENT CALCULATION SEGMENT	FLOW LINE LENGTH (feet)	FLOW DIRECTION	GROUND-WATER ELEV. (feet)	HORIZ. GRADIENT, i (ft/ft)	HYDRAULIC CONDUCTIVITY, K (cm/s)	EFFECTIVE POROSITY n	LINEAR VELOCITY, V (ft/day)
i_1	1014	E	45 42	0.0030	2.00E-04	0.17	0.010
i_2	1251	SE	47 40	0.0056	2.00E-04	0.17	0.019
i_3	1794	SE-S	46 40	0.0033	2.00E-04	0.17	0.011

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
CRSWMA REGIONAL LANDFILL

			APRIL 2007				
GRADIENT CALCULATION SEGMENT	FLOW LINE LENGTH (feet)	FLOW DIRECTION	GROUND-WATER ELEV. (feet)	HORIZ. GRADIENT, i (ft/ft)	HYDRAULIC CONDUCTIVITY, K (cm/s)	EFFECTIVE POROSITY n	LINEAR VELOCITY, V (ft/day)
i_4	1356	E	41 39	0.00147	1.90E-03	0.25	0.032
i_5	864	SE	41 40	0.00116	1.90E-03	0.25	0.025
i_6	432	E-SE	40 39	0.00232	1.90E-03	0.25	0.050

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 DETECTED CONSTITUENTS
TUSCARORA INTERIM REGIONAL LANDFILL

Constituent [NC 2L in µg/L]	Date	Concentrations (µg/L)																
		RL	IRL-1S	IRL-1D	IRL-2S	IRL-2SA	IRL-2D	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	IRL-5D	IRL-6S	IRL-6D	MW-A	MW-B	Blanks
Arsenic	Jul-93	5	11	8	ND	---	ND	ND	ND	ND	22	ND	34	11	ND	-	-	ND
[50]	Aug-93	5	6	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	6	ND	-	-	ND
	Sep-93	5	ND	ND	ND	-	ND	ND	ND	ND	6	ND	ND	ND	ND	-	-	ND
	Sep-93	5	6	10	ND	-	ND	ND	ND	ND	168	ND	ND	ND	ND	-	-	ND
	Apr-94	5	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-94	10	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-95	10	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-95	10	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-96	10	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-96	10	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Apr-97	10	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Oct-97	10	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Apr-98	10	ND	-	ND	-	-	ND	ND	ND	ND	10	-	14	-	-	-	ND
	Oct-98	10	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Mar-99	10	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-99	10	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	10	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-00	10	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-02	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-02	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-03	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-03	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-04	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-04	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-05	10	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Oct-05	10	ND	52	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-06	10	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Oct-06	10	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-07	10	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
Barium	Jul-93	50	268	343	302	-	188	296	189	202	580	280	365	785	182	-	-	ND
[2000]	Aug-93	50	122	252	109	-	210	248	110	110	125	294	116	96	54	-	-	ND
	Sep-93	50	113	105	107	-	125	159	166	91	215	181	80	70	ND	-	-	ND
	Sep-93	50	109	212	152	-	204	200	145	143	-	250	137	75	87	-	-	ND
	Apr-94	50	73	131	97	-	113	83	86	103	65	309	73	ND	ND	-	-	ND
	Oct-94	500	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-95	500	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-95	500	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-96	500	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-96	500	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Apr-97	500	ND	-	ND	-	-	ND	ND	ND	ND	986	-	ND	-	-	-	ND
	Oct-97	500	ND	-	ND	-	-	ND	ND	ND	ND	1084	-	ND	-	-	-	ND
	Apr-98	500	ND	-	ND	-	-	ND	657	ND	515	971	-	ND	-	-	-	ND
	Oct-98	500	ND	-	ND	-	-	ND	ND	ND	ND	898	-	-	-	-	-	ND
	Mar-99	500	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-99	500	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	500	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-00	500	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	500	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	500	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-02	500	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-02	500	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-03	500	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-03	500	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-04	500	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-04	500	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-05	500	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Oct-05	500	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-06	500	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Oct-06	500	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-07	100	ND	ND	-	-	-	ND	ND	113	ND	ND	-	-	-	ND	-	ND

TABLE 6
SUMMARY OF DETECTED CONSTITUENTS
TUSCARORA INTERIM REGIONAL LANDFILL

Constituent [NC 2L in µg/L]	Date	Concentrations (µg/L)																
		RL	IRL-1S	IRL-1D	IRL-2S	IRL-2SA	IRL-2D	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	IRL-5D	IRL-6S	IRL-6D	MW-A	MW-B	Blanks
Beryllium	Jul-93	1	3	1	ND	-	ND	ND	ND	2	ND	ND	8	4	ND	-	-	ND
[-]	Aug-93	1	1	1	ND	-	1	ND	1	ND	1	ND	1	ND	ND	-	-	ND
	Sep-93	1	1	ND	ND	-	ND	ND	ND	ND	3	ND	ND	ND	ND	-	-	ND
	Sep-93	1	2	3	ND	-	ND	ND	2	ND	ND	ND	1	ND	ND	-	-	ND
	Apr-94	1	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-94	2	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-95	2	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-95	2	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-96	2	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-96	2	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Apr-97	2	3	-	ND	-	-	ND	ND	ND	ND	3	-	ND	-	-	-	ND
	Oct-97	2	3	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Apr-98	2	ND	-	ND	-	-	ND	ND	ND	2.5	ND	-	2	-	-	-	ND
	Oct-98	2	2	-	ND	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Mar-99	2	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-99	2	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	2	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-00	2	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	2	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	2	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-02	2	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-02	2	ND	-	-	6	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-03	2	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-03	2	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-04	2	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-04	2	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-05	2	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Oct-05	2	ND	6	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-06	2	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Oct-06	2	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-07	1.0	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
Cadmium	Jul-93	1	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
[1.75]	Aug-93	1	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Sep-93	1	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Sep-93	1	ND	ND	ND	-	ND	ND	ND	ND	10	ND	ND	ND	ND	-	-	ND
	Apr-94	1	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-94	1	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-95	1	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-95	1	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-96	1	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-96	1	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Apr-97	1	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Oct-97	1	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Apr-98	1	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Oct-98	1	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Mar-99	1	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-99	1	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	1	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-00	1	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	1	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	1	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-02	1	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-02	1	1	-	-	ND	-	ND	ND	1	ND	ND	-	-	-	ND	ND	ND
	Apr-03	1	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-03	1	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-04	1	ND	-	-	3	-	1	ND	ND	ND	ND	-	-	-	1	ND	ND
	Oct-04	1	ND	-	-	2	-	ND	ND	ND	ND	1	-	-	-	ND	ND	ND
	Apr-05	1	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Oct-05	1	ND	4	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-06	1	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Oct-06	1	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-07	1.0	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND

TABLE 6
SUMMARY OF DETECTED CONSTITUENTS
TUSCARORA INTERIM REGIONAL LANDFILL

Constituent [NC 2L in µg/L]	Date	Concentrations (µg/L)																
		RL	IRL-1S	IRL-1D	IRL-2S	IRL-2SA	IRL-2D	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	IRL-5D	IRL-6S	IRL-6D	MW-A	MW-B	Blanks
Chromium	Jul-93	5	36	18	ND	-	ND	ND	16	ND	49	ND	90	44	6	-	-	ND
[50]	Aug-93	5	14	8	ND	-	7	ND	6	ND	6	ND	18	ND	ND	-	-	ND
	Sep-93	5	11	11	ND	-	ND	ND	10	ND	15	ND	11	7	ND	-	-	ND
	Sep-93	5	19	43	ND	-	6	ND	22	ND	20	ND	21	6	ND	-	-	ND
	Apr-94	5	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-94	10	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-95	10	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-95	10	13	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-96	10	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-96	10	39	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Apr-97	10	23	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Oct-97	10	50	-	ND	-	-	ND	ND	18	ND	ND	-	ND	-	-	-	ND
	Apr-98	10	18	-	ND	-	-	22	ND	14	ND	ND	-	25	-	-	-	ND
	Oct-98	10	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Mar-99	10	58	-	ND	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-99	10	21	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	5	87	-	-	-	-	19	ND	18	ND	ND	-	-	-	-	-	ND
	Oct-00	10	21	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	10	11	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	12	ND	ND
	Apr-02	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-02	10	15	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-03	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-03	10	12	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	10	ND	ND
	Apr-04	10	13	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-04	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-05	10	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Oct-05	10	ND	29	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-06	10	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Oct-06	10	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-07	10	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
Cobalt	Jul-93	20	32	41	27	-	20	21	31	ND	93	29	118	45	23	-	-	ND
[-]	Aug-93	20	26	27	23	-	40	37	32	27	33	50	30	22	25	-	-	ND
	Sep-93	20	22	21	ND	-	21	23	25	ND	38	36	32	ND	ND	-	-	ND
	Sep-93	20	ND	ND	ND	-	22	ND	ND	31	53	26	21	ND	ND	-	-	ND
	Apr-94	10	27 B	22 B	27 B	-	41 B	35 B	39 B	27 B	41 B	53 B	34 B	20 B	ND	-	-	18
	Oct-94	10	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-95	10	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	37	-	-	ND
	Oct-95	10	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-96	10	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-96	10	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Apr-97	10	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Oct-97	10	20	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Apr-98	10	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-98	10	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Mar-99	10	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-99	10	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	10	16	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-00	10	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-02	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-02	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-03	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-03	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-04	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-04	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-05	10	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Oct-05	10	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-06	10	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Oct-06	10	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-07	10	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND

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SUMMARY OF DETECTED CONSTITUENTS
TUSCARORA INTERIM REGIONAL LANDFILL

Constituent [NC 2L in µg/L]	Date	Concentrations (µg/L)																										
		RL	IRL-1S	IRL-1D	IRL-2S	IRL-2SA	IRL-2D	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	IRL-5D	IRL-6S	IRL-6D	MW-A	MW-B	Blanks
Copper [1000]	Jul-93	10	38 B	25 B	22 B	-	29 B	30 B	29 B	24 B	63 B	23 B	54 B	55 B	22 B	-	-	17
	Aug-93	10	32 B	26 B	27 B	-	24 B	24 B	26 B	24 B	20 B	19 B	23 B	25 B	17 B	-	-	19
	Sep-93	10	22 B	24 B	27 B	-	22 B	19 B	24 B	22 B	29 B	34 B	26 B	25 B	27 B	-	-	11
	Sep-93	10	89 B	101 B	58 B	-	79 B	39 B	69 B	65 B	ND	53 B	62 B	53 B	54 B	-	-	39
	Apr-94	10	26 B	22 B	26 B	-	29 B	28 B	29 B	28 B	28 B	33 B	24 B	24 B	ND	-	-	21
	Oct-94	200	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-95	200	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	24	-	-	ND
	Oct-95	200	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-96	200	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-96	200	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Apr-97	200	55	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Oct-97	200	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Apr-98	200	ND	-	11	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Oct-98	200	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Mar-99	200	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-99	200	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	200	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-00	200	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	200	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	200	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-02	200	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-02	200	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-03	200	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-03	200	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-04	200	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-04	200	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-05	200	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Oct-05	200	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-06	200	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Oct-06	200	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-07	10	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
Lead [15]	Jul-93	5	32	6	ND	-	ND	12	7	ND	30	ND	30	65	ND	-	-	ND
	Aug-93	5	7	5	6	-	10	ND	ND	7	ND	ND	12	8	5	-	-	ND
	Sep-93	5	14	9	ND	-	ND	ND	7	5	12	ND	ND	9	ND	-	-	ND
	Sep-93	5	13	22	ND	-	ND	ND	8	ND	21	ND	ND	7	ND	-	-	ND
	Apr-94	5	11	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-94	10	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-95	10	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-95	10	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-96	10	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-96	10	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Apr-97	10	22	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Oct-97	10	ND	-	11	-	-	ND	ND	22	ND	ND	-	ND	-	-	-	ND
	Apr-98	10	12	-	ND	-	-	16	ND	ND	ND	ND	-	20	-	-	-	ND
	Oct-98	10	14	-	ND	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Mar-99	10	21	-	ND	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-99	10	12	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	10	38	-	-	-	-	ND	ND	14	ND	ND	-	-	-	-	-	ND
	Oct-00	10	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-02	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-02	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-03	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-03	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-04	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-04	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-05	10	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Oct-05	10	ND	31	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-06	10	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Oct-06	10	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-07	10	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND

TABLE 6
SUMMARY OF DETECTED CONSTITUENTS
TUSCARORA INTERIM REGIONAL LANDFILL

Constituent	Date	Concentrations (µg/L)																
[NC 2L in µg/L]		RL	IRL-1S	IRL-1D	IRL-2S	IRL-2SA	IRL-2D	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	IRL-5D	IRL-6S	IRL-6D	MW-A	MW-B	Blanks
Nickel	Jul-93	10	45	30	15	-	21	23	53	26	133	51	144	54	35	-	-	ND
[100]	Aug-93	10	25 B	16 B	16 B	-	36 B	31 B	28 B	99	62	60	42 B	213	35 B	-	-	11
	Sep-93	10	25 B	28 B	33 B	-	22 B	20 B	28 B	27 B	53 B	48 B	42 B	36 B	24 B	-	-	17
	Sep-93	10	24	32	16	-	22	17	22	11	ND	20	21	ND	ND	-	-	ND
	Apr-94	10	34 B	38 B	36 B	-	54 B	53 B	57 B	45 B	40 B	50 B	27 B	ND	ND	-	-	20
	Oct-94	50	ND	ND	ND	-	ND	ND	ND	ND	ND	64	ND	ND	ND	-	-	ND
	Apr-95	50	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	17	-	-	ND
	Oct-95	50	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-96	50	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-96	50	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Apr-97	50	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Oct-97	50	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Apr-98	50	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Oct-98	50	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Mar-99	50	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-99	50	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	50	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-00	50	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	50	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	50	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-02	50	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-02	50	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-03	50	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-03	50	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-04	50	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-04	50	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-05	50	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Oct-05	50	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-06	50	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Oct-06	50	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-07	50	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
Vanadium	Jul-93	2000	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
[-]	Aug-93	2000	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Sep-93	2000	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Sep-93	2000	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-94	25	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-94	40	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-95	40	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-95	40	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-96	40	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-96	40	ND	-	ND	-	-	48	ND	ND	ND	ND	-	ND	-	-	-	ND
	Apr-97	40	48	-	ND	-	-	48	ND	ND	ND	ND	-	ND	-	-	-	ND
	Oct-97	40	56	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Apr-98	40	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Oct-98	40	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Mar-99	40	63	-	ND	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-99	40	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	40	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-00	40	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	40	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	40	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-02	40	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-02	40	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-03	40	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-03	40	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Apr-04	40	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	ND	ND
	Oct-04	40	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-05	40	ND	-	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Oct-05	40	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-06	40	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Oct-06	40	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
	Apr-07	25	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND

TABLE 6
SUMMARY OF DETECTED CONSTITUENTS
TUSCARORA INTERIM REGIONAL LANDFILL

Constituent [NC 2L in µg/L]	Date	Concentrations (µg/L)																Blanks
		RL	IRL-1S	IRL-1D	IRL-2S	IRL-2SA	IRL-2D	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	IRL-5D	IRL-6S	IRL-6D	MW-A	MW-B	
Zinc [1050]	Jul-93	10	42 B	41 B	10 B	-	15 B	11 B	43 B	14 B	293	ND	301	ND	25 B	-	-	10
	Aug-93	10	37	18	11	-	14	ND	ND	16	25	ND	64	12	22	-	-	ND
	Sep-93	10	31	20	ND	-	ND	ND	13	ND	57	ND	12	ND	ND	-	-	ND
	Sep-93	10	73	88	17	-	27	22	26	14	41	11	29	12	24	-	-	ND
	Apr-94	10	36 B	19 B	42 B	-	21 B	155	24 B	25 B	30 B	48 B	22 B	34 B	ND	-	-	20
	Oct-94	50	ND	ND	ND	-	ND	ND	ND	ND	ND	97	ND	ND	ND	-	-	ND
	Apr-95	50	ND	ND	ND	-	ND	ND	ND	ND	ND	803	ND	ND	25	-	-	ND
	Oct-95	50	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Apr-96	50	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Oct-96	50	ND	-	ND	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	ND
	Apr-97	50	ND	-	ND	-	-	ND	ND	ND	ND	1425	-	ND	-	-	-	ND
	Oct-97	50	110	-	ND	-	-	ND	ND	ND	ND	1240	-	ND	-	-	-	ND
	Apr-98	50	ND	-	ND	-	-	ND	ND	ND	ND	6340	-	ND	-	-	-	ND
	Oct-98	50	ND	-	ND	-	-	ND	ND	ND	ND	54	-	-	-	-	-	ND
	Mar-99	50	ND	-	ND	-	-	ND	ND	ND	ND	1608	-	-	-	-	-	ND
	Oct-99	50	ND	-	-	-	-	ND	ND	ND	ND	65	-	-	-	-	-	ND
	Apr-00	50	90	-	-	-	-	ND	ND	ND	ND	596	-	-	-	-	-	ND
	Oct-00	50	ND	-	-	-	-	ND	ND	ND	ND	74	-	-	-	-	-	ND
	Apr-01	50	ND	-	-	ND	-	ND	ND	ND	ND	1204	-	-	-	-	-	ND
	Oct-01	50	ND	-	-	ND	-	ND	ND	ND	ND	362	-	-	-	-	-	ND
	Apr-02	50	ND	-	-	ND	-	ND	ND	ND	ND	124	-	-	-	ND	ND	ND
	Oct-02	50	ND	-	-	ND	-	ND	ND	ND	ND	131	-	-	-	ND	ND	ND
	Apr-03	50	ND	-	-	ND	-	ND	ND	ND	ND	112	-	-	-	ND	ND	ND
	Oct-03	50	ND	-	-	ND	-	ND	ND	ND	ND	277	-	-	-	ND	ND	ND
	Apr-04	50	ND	-	-	ND	-	ND	ND	ND	ND	364	-	-	-	ND	ND	ND
	Oct-04	50	ND	-	-	ND	-	ND	ND	ND	ND	63	-	-	-	ND	ND	ND
	Apr-05	50	ND	-	-	-	-	ND	ND	ND	ND	132	-	-	-	-	-	ND
	Oct-05	50	ND	192	-	-	-	ND	ND	ND	ND	280	-	-	-	ND	-	ND
	Apr-06	50	ND	ND	-	-	-	ND	ND	ND	ND	76	-	-	-	ND	-	ND
	Oct-06	50	ND	ND	-	-	-	ND	ND	ND	ND	172	-	-	-	ND	-	ND
	Apr-07	10	ND	ND	-	-	-	ND	ND	ND	ND	30	-	-	-	ND	-	ND

Notes:
1. All concentrations are in micrograms per liter (µg/L).
2. IRL = Interim Regional Landfill monitoring well
3. RL = laboratory reporting limit
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. Shaded values are above the NC 2L Drinking Water Standards.
7. - = not available

TABLE 7
SUMMARY OF FIELD PARAMETERS
TUSCARORA INTERIM REGIONAL LANDFILL

Field Parameters	Date	IRL-1S	IRL-1D	IRL-2S	IRL-2SA	IRL-2D	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	IRL-5D	IRL-6S	IRL-6D	MW-A	MW-B
Conductivity [uMhos]	Jun-93	1000	480	30	-	580	430	520	370	600	800	590	310	460	-	-
	Aug-93	59	240	110	-	360	370	300	240	330	600	290	110	260	-	-
	Sep-93	75	300	150	-	530	420	450	250	460	880	400	150	400	-	-
	Sep-93	74	280	150	-	520	360	440	270	460	860	360	130	390	-	-
	Apr-94	76	350	140	-	570	360	620	290	560	990	460	77	460	-	-
	Oct-94	130	280	130	-	820	570	820	270	730	1000	82	82	420	-	-
	Apr-95	67	360	160	-	560	240	670	290	520	1900	490	69	450	-	-
	Oct-95	65	270	260	-	660	260	700	330	520	1300	480	75	450	-	-
	Apr-96	79	360	340	-	580	700	320	290	520	1500	450	77	440	-	-
	Oct-96	63	-	-	-	-	410	530	250	400	1000	-	87	-	-	-
	Apr-97	80	-	640	-	-	330	690	270	530	1800	-	-	-	-	-
	Oct-97	84	-	630	-	-	720	270	270	490	1200	-	-	-	-	-
	Apr-98	73	-	700	-	-	360	770	240	520	1400	-	110	-	-	-
	Oct-98	74	-	600	-	-	480	750	230	490	1200	-	-	-	-	-
	Mar-99	77	-	810	-	-	880	760	760	520	1200	-	-	-	-	-
	Oct-99	74	-	-	-	-	960	710	490	490	800	-	-	-	-	-
	Apr-00	74	-	-	-	-	1100	1400	170	500	900	-	-	-	-	-
	Oct-00	76	-	-	-	-	1100	720	230	500	900	-	-	-	-	-
	Apr-01	67	-	-	64	-	1100	710	190	470	840	-	-	-	-	-
	Oct-01	74	-	-	170	-	1000	710	200	500	1700	-	-	-	-	-
	Apr-02	68	-	-	120	-	950	710	200	450	1700	-	-	-	90	120
	Oct-02	19	-	-	448	-	970	830	192	550	1848	-	-	-	98	132
	Apr-03	100	-	-	329	-	1082	804	215	486	1024	-	-	-	86	157
	Oct-03	96	-	-	182	-	1110	849	205	506	1393	-	-	-	81	180
	Apr-04	64	-	-	120	-	700	600	170	360	990	-	-	-	56	100
	Oct-04	99	-	-	183	-	775	712	239	482	1188	-	-	-	86	123
	Apr-05	96	-	-	-	-	1033	942	287	601	1491	-	-	-	89	-
	Oct-05	105	195	-	-	-	876	775	250	502	1323	-	-	-	91	-
	Apr-06	104	231	-	-	-	927	736	271	553	1424	-	-	-	79	-
	Oct-06	101	164	-	-	-	784	672	278	515	126	-	-	-	87	-
	Apr-07	103	155	-	-	-	850	721	287	536	1287	-	-	-	75	-
pH [units]	Jun-93	5.3	6.3	6.1	-	6.2	5.4	6.3	5.7	6.1	6	6.4	5.8	6.2	-	-
	Aug-93	5.5	6.5	6.3	-	6.8	6	6.8	6.4	6.9	6.2	6.8	6.3	7	-	-
	Sep-93	5.9	6.6	5.7	-	6.5	5.9	6.5	6.7	7	6.1	6.6	6.5	6.7	-	-
	Sep-93	6.1	6.5	5.8	-	6.1	5.9	6.5	5.7	6.3	6.4	6.9	6.6	6.6	-	-
	Apr-94	5.9	6.1	5.4	-	6.4	5.7	6.5	6.2	6.7	6.4	6.8	6.4	6.7	-	-
	Oct-94	5.2	6.4	5.2	-	6.7	5.7	6.7	6	6.8	6.2	7	5.5	6.8	-	-
	Apr-95	5.7	6.1	5.5	-	6.4	6	6.2	6.2	6.6	6.2	3.8	6.2	6.6	-	-
	Oct-95	5	6.4	5.6	-	6.7	5.4	6.6	5.9	6.8	6.2	6.9	5.3	7	-	-
	Apr-96	5	6.3	5.8	-	6.6	6.7	6	6.1	6.7	6.4	7	5.5	6.6	-	-
	Oct-96	5.2	-	-	-	-	6	6	6.4	6.4	5.8	-	6	-	-	-
	Apr-97	6.1	-	6.3	-	-	6.2	6.5	6.1	6.6	6.2	-	-	-	-	-
	Oct-97	5.3	-	5.8	-	-	5.9	5.6	5.6	6.1	5.8	-	-	-	-	-
	Apr-98	5.8	-	6.5	-	-	5.4	6.4	5.6	6.8	6.1	-	5.2	-	-	-
	Oct-98	5.5	-	6.1	-	-	5.6	6.3	5.7	6.7	6	-	-	-	-	-
	Mar-99	5.2	-	6.3	-	-	5.7	6.5	6.0	6.7	6	-	-	-	-	-
	Oct-99	4.9	-	-	-	-	5.9	6.4	6.8	6.8	5.7	-	-	-	-	-
	Apr-00	5.2	-	-	-	-	5.8	6.4	5.7	6.9	5.8	-	-	-	-	-
	Oct-00	4.8	-	-	-	-	5.7	6.4	5.5	6.6	5.2	-	-	-	-	-
	Apr-01	4.9	-	-	4.8	-	5.6	6.5	5.4	6.6	5.5	-	-	-	-	-
	Oct-01	5	-	-	4.9	-	5.8	6.6	5.6	6.9	6.1	-	-	-	-	-
	Apr-02	4.7	-	-	4.3	-	5.7	6.3	5.3	6.4	6.0	-	-	-	5.2	4.5
	Oct-02	5.1	-	-	4.1	-	6.0	6.4	5.3	7.0	6.1	-	-	-	5.2	4.7
	Apr-03	5.1	-	-	4.3	-	6.1	6.5	5.3	6.8	5.8	-	-	-	5.2	4.7
	Oct-03	4.8	-	-	4.3	-	5.8	6.3	5.1	6.7	5.9	-	-	-	5.0	4.8
	Apr-04	5.3	-	-	4.4	-	6.4	5.6	5.8	6.8	6.4	-	-	-	5.4	5.8
	Oct-04	4.9	-	-	4.4	-	6.1	6.5	5.3	6.9	6.1	-	-	-	4.9	4.8
	Apr-05	5.1	-	-	-	-	6.3	6.7	5.2	7.0	6.1	-	-	-	5.1	-
	Oct-05	4.9	6.6	-	-	-	6	6.5	5.1	6.9	6.2	-	-	-	5.1	-
	Apr-06	5.0	6.3	-	-	-	6.2	7.0	5.4	7.9	6.0	-	-	-	5.0	-
	Oct-06	5.0	6.1	-	-	-	6.2	6.6	5.1	6.8	6.1	-	-	-	5.2	-
	Apr-07	4.9	6.1	-	-	-	6.2	6.7	5.4	6.9	6.1	-	-	-	5.0	-

TABLE 7
SUMMARY OF FIELD PARAMETERS
TUSCARORA INTERIM REGIONAL LANDFILL

Field Parameters	Date	IRL-1S	IRL-1D	IRL-2S	IRL-2SA	IRL-2D	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	IRL-5D	IRL-6S	IRL-6D	MW-A	MW-B
Temperature [°C]	Jun-93	22	20	23	-	20	23	22	23	21	23	21	22	21	-	-
	Aug-93	23	20	22	-	21	22	22	23	20	24	21	23	20	-	-
	Sep-93	23	20	24	-	20	25	20	24	20	25	20	24	21	-	-
	Sep-93	23	21	24	-	21	24	21	23	20	24	22	24	21	-	-
	Apr-94	18	18	17	-	17	16	16	15	16	16	16	15	15	-	-
	Oct-94	21	18	21	-	20	21	19	21	19	21	20	21	20	-	-
	Apr-95	15	15	15	-	17	16	16	16	16	16	16	15	16	-	-
	Oct-95	22	20	22	-	20	22	20	22	22	22	21	22	20	-	-
	Apr-96	12	13	13	-	14	13	13	13	13	13	14	12	12	-	-
	Oct-96	20	-	-	-	-	22	22	22	22	22	-	22	-	-	-
	Apr-97	13	-	14	-	-	15	14	15	15	14	-	-	-	-	-
	Oct-97	18	-	21	-	-	17	19	19	18	20	-	-	-	-	-
	Apr-98	15	-	16	-	-	15	16	15	17	15	-	15	-	-	-
	Oct-98	19	-	21	-	-	21	19	21	20	21	-	-	-	-	-
	Mar-99	12	-	16	-	-	17	17	17	18	17	-	-	-	-	-
	Oct-99	21	-	-	-	-	20	20	21	21	21	-	-	-	-	-
	Apr-00	15	-	-	-	-	15	17	19	18	15	-	-	-	-	-
	Oct-00	18	-	-	-	-	18	20	21	20	16	-	-	-	-	-
	Apr-01	15	-	-	15	-	18	17	16	15	15	-	-	-	-	-
	Oct-01	19	-	-	20	-	20	20	21	21	21	-	-	-	-	-
	Apr-02	15	-	-	16	-	15	15	16	17	17	-	-	-	17	16
	Oct-02	24	-	-	26	-	23	22	24	23	24	-	-	-	25	25
	Apr-03	15	-	-	17	-	16	16	15	16	17	-	-	-	16	16
	Oct-03	20	-	-	21	-	21	20	21	22	21	-	-	-	21	21
	Apr-04	13	-	-	14	-	13	13	14	14	15	-	-	-	13	13
	Oct-04	20	-	-	21	-	21	21	22	22	22	-	-	-	21	21
	Apr-05	15	-	-	-	-	15	15	15	15	15	-	-	-	15	-
	Oct-05	20	17	-	-	-	22	22	23	23	23	-	-	-	21	-
	Apr-06	20	18	-	-	-	14	16	15	15	18	-	-	-	18	-
	Oct-06	20	18	-	-	-	22	19	23	21	23	-	-	-	21	-
	Apr-07	16	17	-	-	-	17	18	16	18	17	-	-	-	17	-
Turbidity [NTU]	Jun-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Aug-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sep-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sep-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Oct-94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Oct-95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Oct-96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Oct-97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Oct-98	-	-	130	-	-	60	180	220	190	650	-	-	-	-	-
	Mar-99	650	-	290	-	-	85	180	180	270	95	-	-	-	-	-
	Oct-99	600	-	-	-	-	10	23	17	17	5.9	-	-	-	-	-
	Apr-00	170	-	-	-	-	18	40	33	40	13	-	-	-	-	-
	Oct-00	700	-	-	-	-	31	90	7.1	34	21	-	-	-	-	-
	Apr-01	140	-	-	50	-	21	60	12	27	10	-	-	-	-	-
	Oct-01	106	-	-	68	-	74	139	34	18	26	-	-	-	-	-
	Apr-02	90	-	-	12	-	40	35	5.3	25	19	-	-	-	140	5.9
	Oct-02	280	-	-	19	-	45	100	9.2	38	100	-	-	-	75	4.0
	Apr-03	90	-	-	6.9	-	45	110	9.4	39	27	-	-	-	110	8.8
	Oct-03	65	-	-	13	-	31	30	19	60	55	-	-	-	160	40
	Apr-04	200	-	-	100	-	45	35	37	32	36	-	-	-	110	13
	Oct-04	75	-	-	13	-	85	80	8.9	240	80	-	-	-	95	5.9
	Apr-05	100	-	-	-	-	40	18	13	25	32	-	-	-	75	-
	Oct-05	90	>1000	-	-	-	22	29	14	36	19	-	-	-	85	-
	Apr-06	8.9	14	-	-	-	5.5	32	7.3	53	25	-	-	-	4.1	-
	Oct-06	5.1	40	-	-	-	21	140	1.6	37	170	-	-	-	20	-
	Apr-07	7.0	4.0	-	-	-	22	160	200	200	90	-	-	-	25	-

Notes:
1. - = not available
2. Monitoring Wells IRL-6S and IRL-6D were abandoned prior to the October 1998 sampling event.

TABLE 8
SUMMARY OF DETECTED CONSTITUENTS
TUSCARORA LONG-TERM REGIONAL LANDFILL

Constituent	Date	Concentrations (µg/L)												
[NC 2L in µg/L]		RL	MW-7	MW-8	MW-9	MW-10	MW-11S	MW-11D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14	Blanks
Antimony	Jul-99	30	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
[-]	Aug-99	30	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-99	30	ND	ND	40	ND	ND	ND	-	-	-	-	-	ND
	Nov-99	30	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	30	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-00	30	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	30	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	30	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-02	30	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-02	30	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Apr-03	30	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-03	30	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Apr-04	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-04	30	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-05	30	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-05	30	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-06	30	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-06	30	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND
	Apr-07	6.0	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND
Arsenic	Jul-99	10	37	ND	ND	ND	ND	ND	-	-	-	-	-	ND
[50]	Aug-99	10	13	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-99	10	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Nov-99	10	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	10	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-00	10	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	10	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	10	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-02	10	10	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-02	10	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Apr-03	10	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-03	10	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Apr-04	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-04	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-05	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-05	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-06	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-06	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND
	Apr-07	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND
Barium	Jul-99	500	869	ND	ND	ND	ND	ND	-	-	-	-	-	ND
[2000]	Aug-99	500	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-99	500	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Nov-99	500	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	500	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-00	500	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	500	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	500	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-02	500	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-02	500	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Apr-03	500	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-03	500	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Apr-04	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-04	500	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-05	500	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-05	500	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-06	500	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-06	500	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND
	Apr-07	100	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND

TABLE 8
SUMMARY OF DETECTED CONSTITUENTS
TUSCARORA LONG-TERM REGIONAL LANDFILL

Constituent [NC 2L in µg/L]	Date	Concentrations (µg/L)												
		RL	MW-7	MW-8	MW-9	MW-10	MW-11S	MW-11D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14	Blanks
Beryllium [-]	Jul-99	2	5	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Aug-99	2	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-99	2	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Nov-99	2	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	2	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-00	2	ND	ND	6	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	2	ND	ND	5	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	2	ND	2	9	ND	ND	ND	-	-	-	-	-	ND
	Apr-02	2	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-02	2	ND	ND	3	ND	ND	ND	ND	ND	-	-	-	ND
	Apr-03	2	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-03	2	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Apr-04	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-04	2	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-05	2	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-05	2	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-06	2	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-06	2	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND
	Apr-07	1.0	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND
Cadmium [1.75]	Jul-99	1	1	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Aug-99	1	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-99	1	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Nov-99	1	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	1	ND	ND	ND	1	ND	ND	-	-	-	-	-	ND
	Oct-00	1	ND	ND	2	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	1	ND	ND	3	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	1	ND	ND	2	ND	ND	ND	-	-	-	-	-	ND
	Apr-02	1	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-02	1	1	ND	2	ND	ND	ND	ND	ND	-	-	-	ND
	Apr-03	1	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-03	1	ND	ND	ND	1	ND	ND	ND	ND	-	-	-	ND
	Apr-04	1	ND	ND	ND	3	3	ND	ND	2	ND	ND	ND	ND
	Oct-04	1	ND	ND	-	ND	ND	ND	ND	ND	ND	1	ND	ND
	Apr-05	1	1	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-05	1	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-06	1	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-06	1	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND
	Apr-07	1.0	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND
Chromium [50]	Jul-99	10	112	35	ND	ND	ND	ND	-	-	-	-	-	ND
	Aug-99	10	29	38	10	ND	23	ND	-	-	-	-	-	ND
	Oct-99	1	14	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Nov-99	10	22	36	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	10	11	43	37	ND	24	ND	-	-	-	-	-	ND
	Oct-00	10	16	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	10	11	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	10	38	65	ND	ND	39	ND	-	-	-	-	-	ND
	Apr-02	10	43	12	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-02	10	15	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Apr-03	10	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-03	10	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Apr-04	10	18	ND	ND	ND	ND	ND	ND	ND	17	ND	ND	ND
	Oct-04	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-05	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-05	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-06	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-06	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND
	Apr-07	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND

TABLE 8
SUMMARY OF DETECTED CONSTITUENTS
TUSCARORA LONG-TERM REGIONAL LANDFILL

Constituent [NC 2L in µg/L]	Date	Concentrations (µg/L)												
		RL	MW-7	MW-8	MW-9	MW-10	MW-11S	MW-11D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14	Blanks
Cobalt	Jul-99	10	13	24	ND	ND	ND	ND	-	-	-	-	-	ND
[-]	Aug-99	10	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-99	10	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Nov-99	10	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	10	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-00	10	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	10	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	10	ND	ND	12	ND	ND	ND	-	-	-	-	-	ND
	Apr-02	10	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-02	10	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Apr-03	10	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-03	10	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Apr-04	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-04	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-05	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-05	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-06	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-06	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND
	Apr-07	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND
Copper	Jul-99	200	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
[1000]	Aug-99	10	10	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-99	200	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Nov-99	200	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	200	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-00	200	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	200	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	200	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-02	200	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-02	200	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Apr-03	200	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-03	200	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Apr-04	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-04	200	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-05	200	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-05	200	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-06	200	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-06	200	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND
	Apr-07	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND
Lead	Jul-99	10	129	ND	ND	ND	ND	ND	-	-	-	-	-	ND
[15]	Aug-99	10	18	14	ND	ND	17	ND	-	-	-	-	-	ND
	Oct-99	10	12	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Nov-99	10	ND	14	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	10	ND	17	14	ND	15	ND	-	-	-	-	-	ND
	Oct-00	10	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	10	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	10	16	19	ND	ND	18	ND	-	-	-	-	-	ND
	Apr-02	10	21	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-02	10	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Apr-03	10	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-03	10	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Apr-04	10	ND	ND	ND	ND	ND	ND	ND	ND	10	ND	ND	ND
	Oct-04	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-05	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-05	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-06	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-06	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND
	Apr-07	10	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND

TABLE 8
SUMMARY OF DETECTED CONSTITUENTS
TUSCARORA LONG-TERM REGIONAL LANDFILL

Constituent [NC 2L in µg/L]	Date	Concentrations (µg/L)												
		RL	MW-7	MW-8	MW-9	MW-10	MW-11S	MW-11D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14	Blanks
Vanadium	Jul-99	40	167	52	ND	ND	ND	ND	-	-	-	-	-	ND
[-]	Aug-99	40	41	47	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-99	40	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Nov-99	40	ND	47	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	40	ND	57	43	ND	ND	ND	-	-	-	-	-	ND
	Oct-00	40	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	40	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	40	55	83	ND	ND	64	ND	-	-	-	-	-	ND
	Apr-02	40	67	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-02	40	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Apr-03	40	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-03	40	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Apr-04	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-04	40	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-05	40	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-05	40	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-06	40	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-06	40	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND
	Apr-07	25	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND
Zinc	Jul-99	50	113	ND	ND	ND	ND	ND	-	-	-	-	-	ND
[1050]	Aug-99	50	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-99	50	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Nov-99	50	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	50	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-00	50	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-01	50	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Oct-01	50	ND	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-02	50	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-02	50	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Apr-03	50	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	ND
	Oct-03	50	ND	ND	ND	ND	ND	ND	11	ND	-	-	-	ND
	Apr-04	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-04	50	72	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-05	50	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-05	50	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-06	50	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-06	50	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND
	Apr-07	10	13	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND

Notes:
1. All concentrations are in micrograms per liter (µg/L).
2. MW = groundwater monitoring well
3. RL = laboratory reporting limit
4. ND = not detected above laboratory reporting limit.
5. Shaded values are above the NC 2L Drinking Water Standards.
6. * = proposed NC 2L Drinking Water Standard
7. The April 2002 through October 2004 results for MW-12S and MW-12D are background data.
8. The April 2004 through October 2004 results for MW-13S, MW-13D, and MW-14 are background data.
9. Monitoring well MW-9 was abandoned on July 15, 2004.
10. - = not available
11. MW-14 was accidentally destroyed after the April 2006 monitoring event.

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

Field Parameters	Date	MW-7	MW-8	MW-9	MW-10	MW-11S	MW-11D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14
Conductivity [uMhos]	Jul-99	180	110	320	150	200	440	-	-	-	-	-
	Aug-99	210	100	580	200	170	450	-	-	-	-	-
	Oct-99	140	89	2000	150	200	420	-	-	-	-	-
	Nov-99	140	91	1600	150	270	430	-	-	-	-	-
	Apr-00	150	88	1800	140	270	420	-	-	-	-	-
	Oct-00	140	92	1200	130	30	410	-	-	-	-	-
	Apr-01	140	88	1300	120	290	390	-	-	-	-	-
	Oct-01	140	98	1200	120	250	410	-	-	-	-	-
	Apr-02	140	82	1600	110	290	370	160	460	-	-	-
	Oct-02	356	93	1650	132	288	500	153	478	-	-	-
	Apr-03	482	169	1857	167	406	440	164	448	-	-	-
	Oct-03	373	76	1497	144	411	426	146	434	-	-	-
	Apr-04	220	57	960	87	290	300	170	300	79	280	56
	Oct-04	272	70	-	121	344	406	189	405	127	391	79
	Apr-05	299	67	-	140	417	496	146	489	99	475	95
	Oct-05	234	63	-	125	353	430	144	419	114	396	138
	Apr-06	216	64	-	147	406	469	184	465	121	434	69
	Oct-06	245	59	-	130	358	448	182	448	109	416	-
	Apr-07	210	69	-	143	310	448	192	452	103	415	-
pH [units]	Jul-99	5.7	5.4	5.1	5.6	6.0	7.0	-	-	-	-	-
	Aug-99	5.4	5.0	4.2	5.0	5.6	6.4	-	-	-	-	-
	Oct-99	5.3	4.8	5.8	5.4	5.1	6.8	-	-	-	-	-
	Nov-99	5.2	4.8	5.6	5.3	5.2	6.7	-	-	-	-	-
	Apr-00	5.0	5.0	6.0	5.3	5.4	7.2	-	-	-	-	-
	Oct-00	5.0	4.8	5.3	5.3	4.8	6.3	-	-	-	-	-
	Apr-01	4.7	4.8	4.7	4.9	4.4	6.3	-	-	-	-	-
	Oct-01	5.1	5.0	4.4	5.2	5.0	6.6	-	-	-	-	-
	Apr-02	4.7	4.7	5.2	5.2	4.9	6.4	5.4	6.3	-	-	-
	Oct-02	5.9	4.9	5.0	5.5	4.9	7.2	4.9	7.1	-	-	-
	Apr-03	5.9	4.6	6.2	5.5	4.5	7.0	5.1	7.1	-	-	-
	Oct-03	6.0	4.6	5.9	5.1	3.9	6.9	4.6	6.7	-	-	-
	Oct-03	7.0	6.7	6.7	6.4	5.2	7.2	6.6	7.3	6.8	7.2	8.0
	Oct-04	10.0	5.0	-	5.3	4.7	6.8	5.4	7.0	4.9	6.7	5.3
	Apr-05	5.9	5.1	-	5.3	4.5	6.8	5.1	7.0	5.2	7.1	4.8
	Oct-05	5.8	5.1	-	5.1	4.1	6.9	5.1	6.9	4.9	7.1	4.8
	Apr-06	5.9	5.0	-	5.2	4.0	7.1	5.3	7.0	5.1	7.2	4.9
	Oct-06	6.0	4.8	-	5.2	4.2	7.0	5.3	7.0	5.1	7.1	-
	Apr-07	6.1	5.0	-	5.3	4.6	7.1	5.4	7.1	4.9	7.2	-
Temperature [°C]	Jul-99	20	23	21	23	20	24	-	-	-	-	-
	Aug-99	23	23	23	24	23	20	-	-	-	-	-
	Oct-99	20	21	20	21	20	21	-	-	-	-	-
	Nov-99	17	18	18	18	17	17	-	-	-	-	-
	Apr-00	15	15	15	14	14	17	-	-	-	-	-
	Oct-00	20	20	20	19	20	20	-	-	-	-	-
	Apr-01	17	15	14	14	14	14	-	-	-	-	-
	Oct-01	20	21	20	21	21	19	-	-	-	-	-
	Apr-02	17	18	17	17	17	16	17	17	-	-	-
	Oct-02	25	26	24	24	24	23	25	22	-	-	-
	Apr-03	15	15	16	16	15	15	16	18	-	-	-
	Oct-03	20	19	20	20	21	21	20	19	-	-	-
	Apr-04	15	16	14	14	14	12	15	17	15	14	15
	Oct-04	21	21	-	21	22	21	21	20	21	22	21
	Apr-05	16	15	-	14	15	15	15	15	14	14	13
	Oct-05	21	21	-	21	21	22	21	21	20	21	21
	Apr-06	18	17	-	16	15	17	17	18	16	17	17
	Oct-06	22	23	-	22	23	19	22	19	21	19	-
	Apr-07	17	17	-	15	16	18	17	18	4.9	7.2	-
Turbidity [NTU]	Jul-99	450	650	18	3	75	70	-	-	-	-	-
	Aug-99	95	500	50	100	330	120	-	-	-	-	-
	Oct-99	250	110	100	31	15	26	-	-	-	-	-
	Nov-99	110	290	150	100	75	130	-	-	-	-	-
	Apr-00	50	500	140	37	22	25	-	-	-	-	-
	Oct-00	70	110	17	16	33	31	-	-	-	-	-
	Apr-01	80	70	14	12	32	34	-	-	-	-	-
	Oct-01	60	290	5	10	20	70	-	-	-	-	-
	Apr-02	35	32	25	11	24	8	14	24	-	-	-
	Oct-02	22	8.3	23	10	6.2	50	3.0	14	-	-	-
	Apr-03	33	120	24	22	12	21	60	120	-	-	-
	Oct-03	55	27	65	25	19	26	18	22	-	-	-
	Apr-04	65	400	40	32	37	21	70	29	220	65	75
	Oct-04	38	40	-	60	140	39	39	26	45	30	37
	Apr-05	70	170	-	65	27	12	39	32	190	38	100
	Oct-05	200	110	-	37	55	25	19	39	26	50	26
	Apr-06	56	4.8	-	4.2	1.6	37	5.9	17	3.7	132	1.5
	Oct-06	50	24	-	34	3.0	60	19	160	19	70	-
	Apr-07	95	12	-	50	6.6	90	200	130	2.5	110	-

Notes:
1. - = not available
2. Monitoring well MW-9 abondoned on July 15,2004.
3. MW-14 was accidentally destroyed after the April 2006 monitoring event.

TABLE 10
SUMMARY OF DETECTED CONSTITUENTS
LEACHATE STORAGE LAGOON AREA

Constituent [NC 2L in µg/L]	Date	Concentrations (µg/L)													
		RL	LST-1S	LST-1D	LST-2S	LST-2D	LST-3S	LST-3D	LST-4S	LST-4D	LST-5S	LST-5D	LST-6S	LST-6D	Blanks
Antimony	Jul-93	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
[-]	Aug-93	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sep-93	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sep-93	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-94	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND
	Oct-94	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-95	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-95	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-96	30	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-96	30	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-97	30	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-97	30	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-98	30	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-98	30	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Mar-99	30	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-99	30	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-00	30	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-00	30	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-01	30	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-01	30	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-02	30	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-02	30	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-03	30	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-03	30	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-04	30	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-04	30	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-05	30	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-05	30	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-06	30	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-06	30	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-07	6.0	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
Arsenic	Jul-93	5	9	ND	ND	ND	ND	ND	16	ND	ND	5	ND	27	ND
[50]	Aug-93	5	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	ND	6	ND
	Sep-93	5	ND	ND	5	153	ND	ND	17	ND	ND	ND	ND	ND	ND
	Sep-93	5	ND	ND	ND	8	ND	ND	37	ND	ND	ND	ND	ND	ND
	Apr-94	5	ND	ND	ND	ND	ND	ND	9	ND	ND	ND	ND	ND	ND
	Oct-94	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-95	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-95	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-96	10	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-96	10	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-97	10	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-97	10	ND	ND	ND	ND	ND	-	18	-	ND	ND	ND	-	ND
	Apr-98	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-98	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Mar-99	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-99	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-00	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-00	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-01	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-01	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-02	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-02	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-03	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-03	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-04	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-04	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-05	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-05	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-06	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-06	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-07	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
Barium	Jul-93	50	424	260	151	152	128	160	208	204	272	351	126	-	ND
[2000]	Aug-93	50	216	144	133	128	240	242	126	256	196	292	68	112	ND
	Sep-93	50	71	212	75	460	79	104	194	94	92	120	61	62	ND
	Sep-93	50	194	120	94	121	121	170	155	132	113	184	74	77	ND
	Apr-94	50	84	69	ND	94	ND	52	80	ND	ND	62	90	ND	ND
	Oct-94	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-95	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-95	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-96	500	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-96	500	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-97	500	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-97	500	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-98	500	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-98	500	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Mar-99	500	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-99	500	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-00	500	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-00	500	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-01	500	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-01	500	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-02	500	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-02	500	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-03	500	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-03	500	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-04	500	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-04	500	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-05	500	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-05	500	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-06	500	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-06	500	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-07	100	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND

TABLE 10
SUMMARY OF DETECTED CONSTITUENTS
LEACHATE STORAGE LAGOON AREA

Constituent (NC 2L in µg/L)	Date	Concentrations (µg/L)													
		RL	LST-1S	LST-1D	LST-2S	LST-2D	LST-3S	LST-3D	LST-4S	LST-4D	LST-5S	LST-5D	LST-6S	LST-6D	Blanks
Beryllium	Jul-93	1	4	ND	2	ND	2	ND	4	3	3	3	ND	4	ND
[-]	Aug-93	1	2	ND	2	ND	4	ND	3	ND	2	ND	ND	2	ND
	Sep-93	1	ND	ND	2	25	2	ND	4	ND	1	ND	ND	ND	ND
	Sep-93	1	3	ND	ND	1	2	1	4	ND	2	ND	ND	ND	ND
	Apr-94	1	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-94	2	ND	ND	ND	ND	2	ND	2	ND	ND	ND	ND	ND	ND
	Apr-95	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-95	2	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-96	2	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-96	2	ND	ND	ND	ND	ND	-	3	-	ND	ND	ND	-	ND
	Apr-97	2	3	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-97	2	ND	ND	2	ND	ND	-	3	-	3	ND	ND	-	ND
	Apr-98	2	ND	ND	2.1	-	ND	-	3.2	-	ND	ND	ND	-	ND
	Oct-98	2	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Mar-99	2	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-99	2	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-00	2	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-00	2	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-01	2	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-01	2	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-02	2	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-02	2	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-03	2	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-03	2	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-04	2	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-04	2	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-05	2	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-05	2	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-06	2	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-06	2	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-07	1.0	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
Cadmium	Jul-93	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND
[1.75]	Aug-93	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sep-93	1	ND	ND	ND	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sep-93	1	ND	ND	ND	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-94	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-94	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-95	1	ND	ND	ND	ND	1	ND	1	ND	ND	ND	ND	ND	ND
	Oct-95	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-96	1	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-96	1	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-97	1	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-97	1	ND	ND	ND	ND	ND	-	ND	-	1	ND	ND	-	ND
	Apr-98	1	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-98	1	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Mar-99	1	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-99	1	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-00	1	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-00	1	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-01	1	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-01	1	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-02	1	ND	ND	ND	-	ND	-	ND	-	2	1	ND	-	ND
	Oct-02	1	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-03	1	ND	ND	ND	-	ND	-	ND	-	ND	5	2	-	ND
	Oct-03	1	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-04	1	3	ND	ND	-	ND	-	ND	-	1	1	1	-	ND
	Oct-04	1	ND	2	ND	-	ND	-	1	-	ND	ND	2	-	ND
	Apr-05	1	1	1	ND	-	1	-	ND	-	ND	ND	ND	-	ND
	Oct-05	1	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-06	1	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-06	1	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-07	1.0	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
Chromium	Jul-93	5	72	14	32	8	7	ND	ND	26	36	8	ND	35	ND
[50]	Aug-93	5	17	ND	16	ND	23	ND	ND	ND	18	ND	ND	11	ND
	Sep-93	5	12	ND	17	136	9	ND	ND	ND	19	ND	ND	6	ND
	Sep-93	5	29	ND	8	9	ND	ND	ND	ND	19	ND	ND	ND	ND
	Apr-94	5	9	34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-94	10	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-95	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-95	10	ND	ND	22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-96	10	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-96	10	13	ND	ND	ND	ND	-	27	-	ND	ND	10	-	ND
	Apr-97	10	32	ND	ND	ND	ND	-	20	-	16	10	14	-	ND
	Oct-97	10	ND	ND	16	ND	ND	-	32	-	15	21	33	-	ND
	Apr-98	10	ND	ND	12	-	ND	-	26	-	32	ND	23	-	ND
	Oct-98	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Mar-99	10	11	ND	18	-	ND	-	34	-	17	ND	10	-	ND
	Oct-99	10	10	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-00	5	170	ND	18	-	ND	-	51	-	28	10	40	-	ND
	Oct-00	10	ND	ND	11	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-01	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-01	10	ND	ND	18	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-02	10	ND	ND	19	-	ND	-	40	-	20	ND	ND	-	ND
	Oct-02	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-03	10	ND	ND	ND	-	ND	-	ND	-	14	ND	10	-	ND
	Oct-03	10	ND	ND	17	-	ND	-	19	-	14	ND	ND	-	ND
	Apr-04	10	20	ND	22	-	ND	-	ND	-	11	11	13	-	ND
	Oct-04	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-05	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-05	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-06	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-06	10	ND	ND	ND	-	17	-	ND	-	ND	ND	ND	-	ND
	Apr-07	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND

TABLE 10
SUMMARY OF DETECTED CONSTITUENTS
LEACHATE STORAGE LAGOON AREA

Constituent [NC 2L in µg/L]	Date	Concentrations (µg/L) RL	LST-1S	LST-1D	LST-2S	LST-2D	LST-3S	LST-3D	LST-4S	LST-4D	LST-5S	LST-5D	LST-6S	LST-6D	Blanks
Cobalt	Jul-93	20	36	28	2	25	71	24	258	28	29	21	ND	52	ND
[-]	Aug-93	20	ND	ND	ND	ND	62	ND	117	ND	ND	ND	24	42	ND
	Sep-93	20	ND	ND	ND	186	83	ND	205	ND	ND	ND	ND	ND	ND
	Sep-93	20	ND	ND	ND	ND	61	ND	188	ND	ND	ND	ND	ND	ND
	Apr-94	10	25	35	18	B 37	B 81	B 41	B 37	B 31	B 19	B 31	B 20	B 36	B 18
	Oct-94	10	ND	ND	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
	Apr-95	10	ND	ND	ND	ND	53	ND	14	ND	ND	ND	ND	ND	ND
	Oct-95	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-96	10	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-96	10	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-97	10	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-97	10	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-98	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-98	10	ND	ND	ND	-	13	-	ND	-	ND	ND	ND	-	ND
	Mar-99	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-99	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-00	10	ND	ND	ND	-	11	-	ND	-	ND	ND	ND	-	ND
	Oct-00	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-01	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-01	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-02	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-02	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-03	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-03	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-04	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-04	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-05	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-05	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-06	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-06	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-07	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
Copper	Jul-93	10	62	25	26	B 24	B 17	B 26	B 22	B 28	B 23	B ND	19	B 36	B 17
[1000]	Aug-93	10	15	21	14	B 10	B 17	B 13	B ND	12	B 17	B 11	B 16	B 33	B 19
	Sep-93	10	24	12	ND	195	16	B 14	B 11	B 13	B 18	B 14	B 14	B ND	11
	Sep-93	10	27	12	36	B 46	B 29	B 35	B 44	B 31	B 19	B 10	B 38	B 37	B 39
	Apr-94	10	45	ND	25	B 31	B 15	B 58	B 47	B 41	B 33	B 31	B 25	B 27	B 21
	Oct-94	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-95	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-95	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-96	200	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-96	200	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-97	200	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-97	200	ND	ND	ND	ND	ND	-	ND	-	ND	17	ND	-	ND
	Apr-98	200	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-98	200	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Mar-99	200	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-99	200	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-00	200	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-00	200	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-01	200	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-01	200	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-02	200	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-02	200	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-03	200	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-03	200	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-04	200	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-04	200	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-05	200	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-05	200	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-06	200	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-06	200	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-07	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
Lead	Jul-93	5	67	ND	7	ND	ND	ND	ND	8	34	28	ND	13	ND
[15]	Aug-93	5	21	ND	15	ND	17	ND	ND	ND	33	ND	12	7	ND
	Sep-93	5	ND	ND	13	102	ND	ND	ND	ND	17	ND	5	ND	ND
	Sep-93	5	16	ND	10	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-94	5	12	47	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-94	10	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-95	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-95	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-96	10	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-96	10	ND	ND	ND	ND	ND	-	14	-	ND	ND	ND	-	ND
	Apr-97	10	ND	ND	ND	ND	ND	-	ND	-	10	ND	ND	-	ND
	Oct-97	10	ND	ND	20	ND	ND	-	41	-	15	ND	33	-	ND
	Apr-98	10	ND	ND	ND	-	22	-	20	-	17	ND	ND	-	ND
	Oct-98	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Mar-99	10	ND	ND	ND	-	ND	-	12	-	ND	ND	ND	-	ND
	Oct-99	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-00	10	23	ND	ND	-	18	-	20	-	11	10	15	-	ND
	Oct-00	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-01	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-01	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-02	10	ND	ND	ND	-	ND	-	14	-	ND	ND	ND	-	ND
	Oct-02	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-03	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-03	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-04	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-04	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-05	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-05	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-06	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-06	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-07	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND

TABLE 10
SUMMARY OF DETECTED CONSTITUENTS
LEACHATE STORAGE LAGOON AREA

Constituent [NC 2L in µg/L]	Date	RL	LST-1S	LST-1D	LST-2S	LST-2D	LST-3S	LST-3D	LST-4S	LST-4D	LST-5S	LST-5D	LST-6S	LST-6D	Blanks
		Concentrations (µg/L)													
Nickel [100]	Jul-93	10	52	36	18	28	63	17	253	47	35	ND	23	80	ND
	Aug-93	10	46	21	41 B	44 B	103	38 B	164	39 B	39 B	37 B	26 B	40 B	11
	Sep-93	10	23	51	23 B	240	89	20 B	212	15 B	20 B	20 B	12 B	15 B	17
	Sep-93	10	ND	ND	12	15	60	16	194	14	19	13	49	17	ND
	Apr-94	10	45	ND	26 B	32 B	87 B	19 B	44 B	45 B	30 B	50	17 B	39 B	20
	Oct-94	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-95	50	ND	ND	ND	ND	61	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-95	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-96	50	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-96	50	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-97	50	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-97	50	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-98	50	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-98	50	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Mar-99	50	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-99	50	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-00	50	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-00	50	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-01	50	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-01	50	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-02	50	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-02	50	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-03	50	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-03	50	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-04	50	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-04	50	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-05	50	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-05	50	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-06	50	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-06	50	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-07	50	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
Selenium [50]	Jul-93	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	49	ND	ND	ND
	Aug-93	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sep-93	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sep-93	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-94	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-94	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-95	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-95	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-96	20	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-96	20	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-97	20	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-97	20	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-98	20	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-98	20	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Mar-99	20	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-99	20	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-00	20	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-00	20	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-01	20	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-01	20	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-02	20	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-02	20	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-02	20	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-05	20	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-05	20	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-06	20	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-06	20	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-07	10	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
Vanadium [-]	Jul-93	2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Aug-93	2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sep-93	2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Sep-93	2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-94	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-94	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-95	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-95	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Apr-96	40	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Oct-96	40	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-97	40	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-97	40	ND	ND	ND	ND	ND	-	50	-	ND	ND	48	-	ND
	Apr-98	40	ND	ND	ND	-	ND	-	ND	-	43	ND	ND	-	ND
	Oct-98	40	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Mar-99	40	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-99	40	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-00	40	ND	ND	ND	-	ND	-	64	-	40	ND	50	-	ND
	Oct-00	40	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-01	40	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-01	40	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-02	40	ND	ND	ND	-	ND	-	55	-	ND	ND	ND	-	ND
	Oct-02	40	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-03	40	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-03	40	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-04	40	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-04	40	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-05	40	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-05	40	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-06	40	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-06	40	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Apr-07	25	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND

TABLE 10
SUMMARY OF DETECTED CONSTITUENTS
LEACHATE STORAGE LAGOON AREA

Constituent	Date	Concentrations (µg/L)																													
[NC 2L in µg/L]		RL	LST-1S		LST-1D		LST-2S		LST-2D		LST-3S		LST-3D		LST-4S		LST-4D		LST-5S		LST-5D		LST-6S		LST-6D		Blanks
Zinc	Jul-93	10	102		26		24	B	26	B	132		30	B	797		54		71		84		36	B	257		10
[1050]	Aug-93	10	36		17		31		20		182		67		294		20		45		23		43		116		ND
	Sep-93	10	12		30		23		660		135		22		404		10		13		ND		19		33		ND
	Sep-93	10	37		25		42		63		130		36		555		18		43		14		19		29		ND
	Apr-94	10	78		50		40	B	33	B	176		32	B	90	B	27	B	42	B	32	B	64	B	40	B	20
	Oct-94	50	ND		ND		ND		ND		88		ND		69		ND		800		ND		ND		ND		ND
	Apr-95	50	ND		ND		ND		ND		128		ND		ND		ND		ND		ND		ND		ND		ND
	Oct-95	50	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND
	Apr-96	50	ND		ND		ND		-		ND		ND		ND		ND		ND		ND		ND		-		ND
	Oct-96	50	ND		ND		ND		ND		ND		-		67		-		ND		ND		ND		-		ND
	Apr-97	50	ND		ND		ND		ND		ND		-		51		-		ND		ND		ND		-		ND
	Oct-97	50	ND		ND		ND		ND		ND		-		129		-		91		ND		ND		-		ND
	Apr-98	50	ND		ND		ND		-		ND		-		62		-		ND		ND		ND		-		ND
	Oct-98	50	ND		ND		ND		-		ND		-		ND		-		ND		ND		ND		-		ND
	Mar-99	50	ND		ND		ND		-		ND		-		60		-		54		ND		ND		-		ND
	Oct-99	50	ND		ND		ND		-		ND		-		ND		-		ND		ND		ND		-		ND
	Apr-00	50	ND		ND		ND		-		52		-		67		-		161		ND		ND		-		ND
	Oct-00	50	ND		ND		ND		-		ND		-		ND		-		ND		ND		ND		-		ND
	Apr-01	50	ND		ND		ND		-		ND		-		ND		-		ND		ND		ND		-		ND
	Oct-01	50	ND		ND		ND		-		ND		-		ND		-		62		ND		ND		-		ND
	Apr-02	50	ND		ND		ND		-		ND		-		77		-		105		ND		ND		-		ND
	Oct-02	50	ND		ND		ND		-		ND		-		ND		-		ND		ND		ND		-		ND
	Apr-03	50	ND		ND		ND		-		ND		-		ND		-		82		ND		148		-		ND
	Oct-03	50	ND		ND		ND		-		ND		-		ND		-		ND		ND		ND		-		ND
	Apr-04	50	ND		ND		ND		-		ND		-		ND		-		ND		ND		ND		-		ND
	Oct-04	50	ND		ND		ND		-		ND		-		ND		-		ND		ND		ND		-		ND
	Apr-05	50	ND		ND		ND		-		ND		-		ND		-		55		ND		ND		-		ND
	Oct-05	50	ND		ND		ND		-		ND		-		ND		-		ND		ND		ND		-		ND
	Apr-06	50	ND		ND		ND		-		ND		-		ND		-		ND		ND		ND		-		ND
	Oct-06	50	ND		ND		ND		-		68		-		ND		-		ND		ND		11		-		ND
	Apr-07	10	ND		ND		ND		-		17		-		ND		-		22		ND						

Notes:
1. All concentrations are in µg/L.
2. LST = leachate storage tank monitoring well
3. RL = laboratory reporting limit
4. ND = not detected above reporting limit
5. J = estimated value between the DL and the QL
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 2L Drinking Water Standards.
8. - = not available

TABLE 11
SUMMARY OF FIELD PARAMETERS
LEACHATE STORAGE LAGOON AREA

Field Parameters	Date	LST-1S	LST-1D	LST-2S	LST-2D	LST-3S	LST-3D	LST-4S	LST-4D	LST-5S	LST-5D	LST-6S	LST-6D
Conductivity [uMhos]	Jul-93	80	490	73	460	190	430	390	650	110	560	60	480
	Aug-93	110	400	81	400	210	360	280	520	140	500	62	270
	Sep-93	96	440	60	-	210	330	270	460	100	680	86	380
	Sep-93	85	400	69	380	210	320	280	460	110	460	81	350
	Apr-94	84	470	60	480	230	400	11	430	120	530	97	480
	Oct-94	83	450	72	440	150	340	120	310	110	700	89	660
	Apr-95	77	460	54	460	250	360	120	320	120	480	56	490
	Oct-95	87	470	54	470	93	320	80	290	120	510	75	-
	Apr-96	73	460	54	450	61	370	91	340	120	490	60	470
	Oct-96	63	380	52	-	56	-	98	-	120	410	52	-
	Apr-97	65	500	72	-	90	-	110	-	140	490	55	-
	Oct-97	61	440	72	-	66	-	110	-	120	460	73	-
	Apr-98	60	60	84	-	49	-	-	-	-	500	40	-
	Oct-98	64	440	77	-	78	-	78	-	130	420	87	-
	Mar-99	62	480	75	-	46	-	81	-	160	500	46	-
	Oct-99	56	450	77	-	32	-	49	-	210	460	46	-
	Apr-00	53	440	66	-	62	-	81	-	160	460	34	-
	Oct-00	53	460	68	-	53	-	83	-	160	470	83	-
	Apr-01	49	430	66	-	---	-	71	-	140	450	59	-
	Oct-01	51	450	70	-	49	-	61	-	130	-	62	-
	Apr-02	59	420	62	-	52	-	79	-	160	430	38	-
	Oct-02	71	296	65	-	64	-	11	-	38	35	60	-
	Apr-03	65	466	80	-	81	-	72	-	272	484	70	-
	Oct-03	73	449	95	-	114	-	77	-	196	479	52	-
	Apr-04	58	330	54	-	41	-	40	-	150	340	48	-
	Oct-04	73	436	87	-	50	-	55	-	126	464	49	-
	Apr-05	538	81	91	-	65	-	61	-	148	561	40	-
	Oct-05	81	468	88	-	72	-	49	-	212	485	60	-
	Apr-06	96	508	100	-	77	-	76	-	150	525	42	-
	Oct-06	87	489	94	-	48	-	52	-	134	489	50	-
	Apr-07	93	488	95	-	47	-	64	-	176	509	43	-
pH [units]	Jun-93	5.1	6.4	4.9	6.1	5.3	6.4	4.4	6.2	5.5	6.1	5.5	6.9
	Aug-93	5.8	6.5	5.9	6.4	5.7	6.5	4.5	6.4	6.1	6.9	5.7	6.8
	Sep-93	5.4	6.6	5.8	-	5.9	6.9	4.6	6.3	6.0	6.6	5.5	6.4
	Sep-93	6.1	6.5	6.1	6.3	5.4	6.4	4.5	6.2	6.4	6.6	6.0	6.5
	Apr-94	6.0	6.4	5.9	6.5	5.1	6.3	5.1	6.2	6.3	6.4	5.6	6.4
	Oct-94	5.0	6.6	5.2	6.6	4.2	6.5	4.2	6.3	5.4	6.6	4.9	6.6
	Apr-95	6.2	6.0	6.4	6.2	5.3	6.0	5.3	6.0	6.0	6.5	6.5	6.4
	Oct-95	5.0	7.0	5.2	5.2	4.6	6.8	4.5	6.5	5.2	6.8	4.8	6.9
	Apr-96	5.0	6.3	5.9	6.6	5.4	6.5	4.7	6.2	5.6	6.5	5.8	6.6
	Oct-96	4.7	5.6	5.1	-	4.6	-	4.4	-	5.7	5.8	4.8	-
	Apr-97	5.3	6.1	5.2	-	5.0	-	5.2	-	5.7	6.4	5.7	-
	Oct-97	5.8	6.1	6.9	-	4.9	-	4.7	-	5.1	5.8	4.7	-
	Apr-98	4.8	4.8	4.8	-	4.6	-	-	-	-	7.0	4.7	-
	Oct-98	4.9	6.5	-	-	4.1	-	4.9	-	6.2	6.9	4.8	-
	Mar-99	5.0	6.6	5.0	-	4.5	-	4.8	-	5.8	6.8	4.9	-
	Oct-99	5.0	6.8	4.8	-	4.6	-	4.6	-	5.8	6.8	5.0	-
	Apr-00	5.2	6.4	5.0	-	5.4	-	5.4	-	5.6	6.5	5.0	-
	Oct-00	4.8	6.6	4.8	-	4.4	-	4.1	-	5.2	6.7	4.5	-
	Apr-02	4.7	6.3	4.7	-	4.9	-	4.4	-	5.2	6.5	4.6	-
	Oct-02	5.0	6.0	5.2	-	4.7	-	4.4	-	5.2	6.8	4.8	-
	Apr-02	5.0	6.5	5.0	-	4.7	-	4.8	-	6.1	6.7	4.9	-
	Oct-02	5.1	7.0	5.0	-	4.6	-	4.7	-	5.9	7.0	4.8	-
	Apr-03	5.0	6.9	5.0	-	4.5	-	4.4	-	6.1	6.9	4.8	-
	Oct-03	4.6	6.7	4.4	-	3.4	-	3.9	-	6.4	6.7	4.4	-
	Apr-04	6.0	7.2	5.6	-	5.4	-	5.2	-	6.6	7.0	5.6	-
	Oct-04	4.7	6.7	4.8	-	4.7	-	4.5	-	6.7	6.8	5.1	-
	Apr-05	7.0	5.0	5.3	-	4.9	-	4.6	-	6.5	6.9	4.9	-
	Oct-05	4.8	6.8	4.9	-	4.3	-	4.6	-	6.5	6.9	4.8	-
	Apr-06	4.8	7.0	4.9	-	4.5	-	5.1	-	6.6	7.0	5.1	-
	Oct-06	4.8	7.0	4.8	-	4.7	-	5.0	-	6.5	6.9	5.0	-
	Apr-07	4.8	7.1	4.9	-	4.8	-	5.3	-	6.7	7.0	5.0	-

TABLE 11
SUMMARY OF FIELD PARAMETERS
LEACHATE STORAGE LAGOON AREA

Field Parameters	Date	LST-1S	LST-1D	LST-2S	LST-2D	LST-3S	LST-3D	LST-4S	LST-4D	LST-5S	LST-5D	LST-6S	LST-6D
Temperature [°C]	Jun-93	25	21	26	22	27	19	23	20	23	18	23	24
	Aug-93	24	21	25	24	24	19	22	20	25	20	24	19
	Sep-93	25	19	25	-	24	21	24	20	24	20	24	21
	Sep-93	25	21	25	21	24	20	24	21	24	21	25	21
	Apr-94	17	17	19	18	18	18	18	17	18	17	18	18
	Oct-94	20	19	21	20	21	19	21	16	21	19	20	19
	Apr-95	16	16	17	16	15	16	15	20	17	16	16	17
	Oct-95	23	20	23	20	22	20	22	13	23	20	21	20
	Apr-96	12	14	13	14	12	13	12	-	13	14	12	14
	Oct-96	20	20	21	-	22	-	21	-	21	21	22	-
	Apr-97	14	15	14	-	13	-	13	-	15	16	13	-
	Oct-97	20	17	21	-	20	-	19	-	21	17	18	-
	Apr-98	15	15	15	-	15	-	-	-	-	17	15	-
	Oct-98	20	18	21	-	18	-	19	-	21	19	20	-
	Mar-99	13	16	13	-	13	-	15	-	15	18	15	-
	Oct-99	20	20	21	-	20	-	20	-	21	20	19	-
	Apr-00	15	17	15	-	15	-	14	-	15	19	14	-
	Oct-00	19	20	20	-	19	-	19	-	20	20	20	-
	Apr-02	15	15	16	-	15	-	14	-	16	16	15	-
	Oct-02	20	20	21	-	20	-	20	-	21	21	21	-
	Apr-02	16	16	18	-	18	-	16	-	18	16	18	-
	Oct-02	24	24	27	-	25	-	25	-	26	22	21	-
	Apr-03	15	15	15	-	15	-	15	-	16	16	15	-
	Oct-03	20	18	20	-	19	-	20	-	20	20	20	-
	Apr-04	13	13	14	-	12	-	14	-	13	13	13	-
	Oct-04	21	21	21	-	21	-	21	-	22	21	21	-
	Apr-05	15	15	16	-	15	-	15	-	16	16	15	-
	Oct-05	21	21	21	-	21	-	20	-	22	22	20	-
	Apr-06	17	18	17	-	17	-	17	-	18	18	18	-
	Oct-06	21	19	22	-	21	-	21	-	23	19	22	-
	Apr-07	16	18	16	-	16	-	16	-	17	18	17	-
Turbidity [NTU]	Jun-93	-	-	-	-	-	-	-	-	-	-	-	-
	Aug-93	-	-	-	-	-	-	-	-	-	-	-	-
	Sep-93	-	-	-	-	-	-	-	-	-	-	-	-
	Sep-93	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-94	-	-	-	-	-	-	-	-	-	-	-	-
	Oct-94	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-95	-	-	-	-	-	-	-	-	-	-	-	-
	Oct-95	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-96	-	-	-	-	-	-	-	-	-	-	-	-
	Oct-96	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-97	-	-	-	-	-	-	-	-	-	-	-	-
	Oct-97	-	-	-	-	-	-	-	-	-	-	-	-
	Apr-98	-	-	-	-	-	-	-	-	-	-	-	-
	Oct-98	330	170	270	-	55	-	360	-	150	140	270	-
	Mar-99	150	38	190	-	15	-	400	-	210	75	---	-
	Oct-99	89	22	45	-	39	-	65	-	35	18	32	-
	Apr-00	110	14	110	-	18	-	180	-	80	24	80	-
	Oct-00	70	55	120	-	12	-	70	-	32	22	28	-
	Apr-02	36	24	38	-	13	-	27	-	26	33	26	-
	Oct-02	86	60	166	-	20	-	188	-	206	51	85	-
	Apr-02	27	25	130	-	22	-	57	-	70	23	35	-
	Oct-02	7.5	27	85	-	28	-	11	-	38	35	21	-
	Apr-03	33	22	55	-	12	-	45	-	85	30	22	-
	Oct-03	70	26	240	-	16	-	340	-	250	100	36	-
	Apr-04	250	20	270	-	60	-	70	-	45	55	40	-
	Oct-04	75	25	110	-	9.3	-	140	-	100	80	95	-
	Apr-05	32	60	220	-	31	-	100	-	160	22	80	-
	Oct-05	32	25	100	-	36	-	75	-	180	27	90	-
	Apr-06	<1.43	40	5.8	-	1.7	-	7.7	-	14	75	45	-
	Oct-06	12	50	<1.54	-	310	-	10	-	25	60	70	-
	Apr-07	<1.42	190	<1.42	-	3.2	-	3.5	-	9.6	75	21	-

Notes:
1. - = not available

TABLE 12
SUMMARY OF DETECTED CONSTITUENTS
SURFACE WATER

Constituent [NC 2L in µg/L]	Date	Concentrations (µg/L)					
		RL	SWPT-1	SWPT-2	UD-1	UD-2	Blanks
Arsenic [50]	Jul-93	5	ND	ND	ND	-	ND
	Aug-93	5	-	-	-	-	ND
	Sep-93	5	-	-	-	-	ND
	Sep-93	5	-	-	-	-	ND
	Apr-94	5	7	ND	ND	-	ND
	Oct-94	10	ND	ND	ND	-	ND
	Apr-95	10	ND	ND	ND	-	ND
	Oct-95	10	ND	ND	ND	-	ND
	Apr-96	10	ND	ND	ND	-	ND
	Oct-96	10	ND	ND	ND	-	ND
	Apr-97	10	-	-	ND	-	ND
	Oct-97	10	-	-	ND	-	ND
	Apr-98	10	-	-	ND	-	ND
	Oct-98	10	-	ND	-	-	ND
	Mar-99	10	ND	ND	ND	-	ND
	Jul-99	10	-	-	-	ND	ND
	Aug-99	10	-	-	-	ND	ND
	Oct-99	10	ND	ND	ND	ND	ND
	Nov-99	10	-	-	-	ND	ND
	Apr-00	10	ND	ND	ND	-	ND
	Oct-00	10	ND	ND	ND	ND	ND
	Apr-01	10	-	-	ND	-	ND
	Oct-01	10	ND	ND	ND	ND	ND
	Apr-02	10	-	ND	ND	ND	ND
	Oct-02	10	ND	ND	ND	ND	ND
	Apr-03	10	ND	ND	ND	ND	ND
	Oct-03	10	ND	ND	ND	15	ND
	Apr-04	10	ND	ND	ND	ND	ND
	Oct-04	10	ND	ND	ND	ND	ND
	Apr-05	10	ND	ND	ND	ND	ND
	Oct-05	10	ND	ND	ND	ND	ND
	Apr-06	10	ND	ND	ND	ND	ND
	Oct-06	10	ND	ND	ND	ND	ND
	Apr-07	10	ND	ND	ND	ND	ND
Barium [2000]	Jul-93	50	ND	140	71	-	ND
	Aug-93	50	-	-	-	-	ND
	Sep-93	50	-	-	-	-	ND
	Sep-93	50	-	-	-	-	ND
	Apr-94	50	ND	ND	ND	-	ND
	Oct-94	500	ND	ND	ND	-	ND
	Apr-95	500	ND	ND	ND	-	ND
	Oct-95	500	ND	ND	ND	-	ND
	Apr-96	500	ND	ND	ND	-	ND
	Oct-96	500	ND	ND	ND	-	ND
	Apr-97	500	-	-	ND	-	ND
	Oct-97	500	-	-	ND	-	ND
	Apr-98	500	-	-	ND	-	ND
	Oct-98	500	-	ND	-	-	ND
	Mar-99	500	ND	ND	ND	-	ND
	Jul-99	500	-	-	-	ND	ND
	Aug-99	500	-	-	-	ND	ND
	Oct-99	500	ND	ND	ND	ND	ND
	Nov-99	500	-	-	-	ND	ND
	Apr-00	500	ND	ND	ND	-	ND
	Oct-00	500	ND	ND	ND	ND	ND
	Apr-01	500	-	-	ND	-	ND
	Oct-01	500	ND	ND	ND	ND	ND
	Apr-02	500	-	ND	ND	ND	ND
	Oct-02	500	ND	ND	ND	ND	ND
	Apr-03	500	ND	ND	ND	ND	ND
	Oct-03	500	ND	ND	ND	ND	ND
	Apr-04	500	ND	ND	ND	ND	ND
	Oct-04	500	ND	ND	ND	ND	ND
	Apr-05	500	ND	ND	ND	ND	ND
	Oct-05	500	ND	ND	ND	ND	ND
	Apr-06	500	ND	ND	ND	ND	ND
	Oct-06	500	ND	ND	ND	ND	ND
	Apr-07	100	ND	ND	ND	ND	ND

TABLE 12
SUMMARY OF DETECTED CONSTITUENTS
SURFACE WATER

Constituent [NC 2L in µg/L]	Date	Concentrations (µg/L)					
		RL	SWPT-1	SWPT-2	UD-1	UD-2	Blanks
Beryllium	Jul-93	1	ND	ND	ND	-	ND
[-]	Aug-93	1	-	-	-	-	ND
	Sep-93	1	-	-	-	-	ND
	Sep-93	1	-	-	-	-	ND
	Apr-94	1	ND	ND	64	-	ND
	Oct-94	2	ND	ND	ND	-	ND
	Apr-95	2	ND	ND	ND	-	ND
	Oct-95	2	ND	ND	ND	-	ND
	Apr-96	2	ND	ND	ND	-	ND
	Oct-96	2	ND	ND	ND	-	ND
	Apr-97	2	-	-	ND	-	ND
	Oct-97	2	-	-	ND	-	ND
	Apr-98	2	-	-	ND	-	ND
	Oct-98	2	-	ND	-	-	ND
	Mar-99	2	ND	ND	ND	-	ND
	Jul-99	2	-	-	-	ND	ND
	Aug-99	2	-	-	-	ND	ND
	Oct-99	2	ND	ND	ND	ND	ND
	Nov-99	2	-	-	-	ND	ND
	Apr-00	2	ND	ND	ND	-	ND
	Oct-00	2	ND	ND	ND	ND	ND
	Apr-01	2	-	-	ND	-	ND
	Oct-01	2	ND	ND	ND	ND	ND
	Apr-02	2	-	ND	ND	ND	ND
	Oct-02	2	ND	ND	ND	ND	ND
	Apr-03	2	ND	ND	ND	ND	ND
	Oct-03	2	ND	ND	ND	ND	ND
	Apr-04	2	ND	ND	ND	ND	ND
	Oct-04	2	ND	ND	ND	ND	ND
	Apr-05	2	ND	ND	ND	ND	ND
	Oct-05	2	ND	ND	ND	ND	ND
	Apr-06	2	ND	ND	ND	ND	ND
	Oct-06	2	ND	ND	ND	ND	ND
	Apr-07	1.0	ND	ND	ND	ND	ND
Cadmium	Jul-93	1	ND	ND	ND	-	ND
[1.75]	Aug-93	1	-	-	-	-	ND
	Sep-93	1	-	-	-	-	ND
	Sep-93	1	-	-	-	-	ND
	Apr-94	1	ND	ND	ND	-	ND
	Oct-94	1	ND	ND	ND	-	ND
	Apr-95	1	ND	ND	ND	-	ND
	Oct-95	1	ND	ND	ND	-	ND
	Apr-96	1	ND	ND	ND	-	ND
	Oct-96	1	ND	ND	ND	-	ND
	Apr-97	1	-	-	ND	-	ND
	Oct-97	1	-	-	ND	-	ND
	Apr-98	1	-	-	ND	-	ND
	Oct-98	1	-	ND	-	-	ND
	Mar-99	1	ND	ND	ND	-	ND
	Jul-99	1	-	-	-	ND	ND
	Aug-99	1	-	-	-	ND	ND
	Oct-99	1	ND	ND	ND	ND	ND
	Nov-99	1	-	-	-	ND	ND
	Apr-00	1	ND	ND	ND	-	ND
	Oct-00	1	ND	ND	ND	ND	ND
	Apr-01	1	-	-	ND	-	ND
	Oct-01	1	ND	ND	ND	ND	ND
	Apr-02	1	-	ND	ND	ND	ND
	Oct-02	1	ND	ND	ND	ND	ND
	Apr-03	1	2	ND	ND	ND	ND
	Oct-03	1	ND	ND	ND	ND	ND
	Apr-04	1	ND	ND	ND	ND	ND
	Oct-04	1	ND	2	ND	ND	ND
	Apr-05	1	ND	ND	ND	ND	ND
	Oct-05	1	ND	ND	ND	ND	ND
	Apr-06	1	ND	ND	2 (ND)	4 (ND)	ND
	Oct-06	1	ND	ND	ND	ND	ND
	Apr-07	1.0	ND	ND	ND	ND	ND

TABLE 12
SUMMARY OF DETECTED CONSTITUENTS
SURFACE WATER

Constituent [NC 2L in µg/L]	Date	Concentrations (µg/L)					
		RL	SWPT-1	SWPT-2	UD-1	UD-2	Blanks
Chromium	Jul-93	5	ND	ND	ND	-	ND
[50]	Aug-93	5	-	-	-	-	ND
	Sep-93	5	-	-	-	-	ND
	Sep-93	5	-	-	-	-	ND
	Apr-94	5	ND	ND	ND	-	ND
	Oct-94	10	ND	ND	ND	-	ND
	Apr-95	10	ND	ND	ND	-	ND
	Oct-95	10	ND	ND	ND	-	ND
	Apr-96	10	ND	ND	ND	-	ND
	Oct-96	10	ND	ND	ND	-	ND
	Apr-97	10	-	-	ND	-	ND
	Oct-97	10	-	-	ND	-	ND
	Apr-98	10	-	-	18	-	ND
	Oct-98	10	-	ND	-	-	ND
	Mar-99	10	ND	ND	ND	-	ND
	Jul-99	10	-	-	-	12	ND
	Aug-99	10	-	-	-	13	ND
	Oct-99	10	ND	ND	ND	ND	ND
	Nov-99	10	-	-	-	ND	ND
	Apr-00	5	ND	28	ND	-	ND
	Oct-00	10	ND	16	ND	ND	ND
	Apr-01	10	-	-	ND	-	ND
	Oct-01	10	ND	ND	ND	ND	ND
	Apr-02	10	-	ND	ND	ND	ND
	Oct-02	10	ND	ND	ND	ND	ND
	Apr-03	10	ND	ND	ND	ND	ND
	Oct-03	10	ND	ND	ND	20	ND
	Apr-04	10	ND	ND	ND	22	ND
	Oct-04	10	ND	ND	ND	ND	ND
	Apr-05	10	ND	ND	ND	ND	ND
	Oct-05	10	ND	ND	ND	ND	ND
	Apr-06	10	ND	ND	ND	ND	ND
	Oct-06	10	ND	ND	ND	ND	ND
	Apr-07	10	ND	ND	ND	ND	ND
Cobalt	Jul-93	20	ND	ND	28	-	ND
[-]	Aug-93	20	-	-	-	-	ND
	Sep-93	20	-	-	-	-	ND
	Sep-93	20	-	-	-	-	ND
	Apr-94	10	34 B	45 B	46 B	-	18
	Oct-94	10	ND	ND	ND	-	ND
	Apr-95	10	ND	ND	ND	-	ND
	Oct-95	10	ND	ND	ND	-	ND
	Apr-96	10	ND	ND	ND	-	ND
	Oct-96	10	ND	ND	ND	-	ND
	Apr-97	10	-	-	ND	-	ND
	Oct-97	10	-	-	ND	-	ND
	Apr-98	10	-	-	ND	-	ND
	Oct-98	10	-	ND	-	-	ND
	Mar-99	10	ND	ND	ND	-	ND
	Jul-99	10	-	-	-	ND	ND
	Aug-99	10	-	-	-	ND	ND
	Oct-99	10	ND	ND	ND	ND	ND
	Nov-99	10	-	-	-	ND	ND
	Apr-00	10	ND	12	ND	-	ND
	Oct-00	10	ND	ND	ND	ND	ND
	Apr-01	10	-	-	ND	-	ND
	Oct-01	10	10	ND	ND	ND	ND
	Apr-02	10	-	ND	ND	ND	ND
	Oct-02	10	ND	ND	ND	ND	ND
	Apr-03	10	ND	ND	ND	ND	ND
	Oct-03	10	ND	ND	ND	14	ND
	Apr-04	10	ND	ND	ND	ND	ND
	Oct-04	10	ND	ND	ND	ND	ND
	Apr-05	10	ND	ND	ND	ND	ND
	Oct-05	10	ND	ND	ND	ND	ND
	Apr-06	10	ND	ND	ND	ND	ND
	Oct-06	10	ND	ND	ND	ND	ND
	Apr-07	10	ND	ND	ND	ND	ND

TABLE 12
SUMMARY OF DETECTED CONSTITUENTS
SURFACE WATER

Constituent [NC 2L in µg/L]	Date	Concentrations (µg/L)								
		RL	SWPT-1		SWPT-2		UD-1		UD-2	Blanks
Copper	Jul-93	10	15	B	13	B	10	B	-	17
[1000]	Aug-93	10	-		-		-		-	19
	Sep-93	10	-		-		-		-	11
	Sep-93	10	-		-		-		-	39
	Apr-94	10	28	B	40	B	43	B	-	21
	Oct-94	200	ND		ND		ND		-	ND
	Apr-95	200	ND		ND		ND		-	ND
	Oct-95	200	ND		ND		ND		-	ND
	Apr-96	200	ND		ND		ND		-	ND
	Oct-96	200	ND		ND		ND		-	ND
	Apr-97	200	-		-		ND		-	ND
	Oct-97	200	-		-		ND		-	ND
	Apr-98	200	-		-		ND		-	ND
	Oct-98	200	-		ND		-		-	ND
	Mar-99	200	ND		ND		15		-	ND
	Jul-99	200	-		-		-		ND	ND
	Aug-99	200	-		-		-		11	ND
	Oct-99	200	ND		ND		ND		ND	ND
	Nov-99	200	-		-		-		ND	ND
	Apr-00	200	ND		ND		ND		-	ND
	Oct-00	200	ND		ND		ND		ND	ND
	Apr-01	200	-		-		ND		-	ND
	Oct-01	200	ND		ND		ND		ND	ND
	Apr-02	200	-		ND		ND		ND	ND
	Oct-02	200	ND		ND		ND		ND	ND
	Apr-03	200	ND		ND		ND		ND	ND
	Oct-03	200	ND		ND		ND		ND	ND
	Apr-04	200	ND		ND		ND		ND	ND
	Oct-04	200	ND		ND		ND		ND	ND
	Apr-05	200	ND		ND		ND		ND	ND
	Oct-05	200	ND		ND		ND		ND	ND
	Apr-06	200	ND		ND		ND		ND	ND
	Oct-06	200	ND		ND		ND		ND	ND
	Apr-07	10	ND		ND		ND		ND	ND
Lead	Jul-93	5	ND		ND		ND		-	ND
[15]	Aug-93	5	-		-		-		-	ND
	Sep-93	5	-		-		-		-	ND
	Sep-93	5	-		-		-		-	ND
	Apr-94	5	ND		5		ND		-	ND
	Oct-94	10	ND		ND		ND		-	ND
	Apr-95	10	ND		ND		ND		-	ND
	Oct-95	10	ND		ND		ND		-	ND
	Apr-96	10	ND		ND		ND		-	ND
	Oct-96	10	ND		ND		ND		-	ND
	Apr-97	10	-		-		ND		-	ND
	Oct-97	10	-		-		ND		-	ND
	Apr-98	10	-		-		11		-	ND
	Oct-98	10	-		ND		-		-	ND
	Mar-99	10	ND		ND		ND		-	ND
	Jul-99	10	-		-		-		ND	ND
	Aug-99	10	-		-		-		ND	ND
	Oct-99	10	ND		ND		ND		ND	ND
	Nov-99	10	-		-		-		ND	ND
	Apr-00	10	ND		ND		ND		-	ND
	Oct-00	10	ND		ND		ND		ND	ND
	Apr-01	10	-		-		ND		-	ND
	Oct-01	10	ND		ND		ND		ND	ND
	Apr-02	10	-		ND		ND		ND	ND
	Oct-02	10	ND		ND		ND		ND	ND
	Apr-03	10	ND		ND		ND		ND	ND
	Oct-03	10	ND		ND		ND		15	ND
	Apr-04	10	ND		ND		ND		12	ND
	Oct-04	10	ND		ND		ND		ND	ND
	Apr-05	10	ND		ND		ND		ND	ND
	Oct-05	10	ND		ND		ND		ND	ND
	Apr-06	10	ND		ND		ND		ND	ND
	Oct-06	10	ND		ND		ND		ND	ND
	Apr-07	10	ND		ND		ND		ND	ND

TABLE 12
SUMMARY OF DETECTED CONSTITUENTS
SURFACE WATER

Constituent [NC 2L in µg/L]	Date	Concentrations (µg/L)									
		RL	SWPT-1		SWPT-2		UD-1		UD-2		Blanks
Nickel	Jul-93	10	20		20		24		-		ND
[100]	Aug-93	10	-		-		-		-		11
	Sep-93	10	-		-		-		-		17
	Sep-93	10	-		-		-		-		ND
	Apr-94	10	37	B	51	B	57	B	-		20
	Oct-94	50	ND		ND		ND		-		ND
	Apr-95	50	ND		ND		ND		-		ND
	Oct-95	50	ND		ND		ND		-		ND
	Apr-96	50	ND		ND		ND		-		ND
	Oct-96	50	ND		ND		ND		-		ND
	Apr-97	50	-		-		ND		-		ND
	Oct-97	50	-		-		ND		-		ND
	Apr-98	50	-		-		ND		-		ND
	Oct-98	50	-		ND		-		-		ND
	Mar-99	50	ND		ND		ND		-		ND
	Jul-99	50	-		-		-		ND		ND
	Aug-99	50	-		-		-		ND		ND
	Oct-99	50	ND		ND		ND		ND		ND
	Nov-99	50	-		-		-		ND		ND
	Apr-00	50	ND		ND		ND		-		ND
	Oct-00	50	ND		ND		ND		ND		ND
	Apr-01	50	-		-		ND		-		ND
	Oct-01	50	ND		ND		ND		ND		ND
	Apr-02	50	-		ND		ND		ND		ND
	Oct-02	50	ND		ND		ND		ND		ND
	Apr-03	50	ND		ND		ND		ND		ND
	Oct-03	50	ND		ND		ND		ND		ND
	Apr-04	50	ND		ND		ND		ND		ND
	Oct-04	50	ND		ND		ND		ND		ND
	Apr-05	50	ND		ND		ND		ND		ND
	Oct-05	50	ND		ND		ND		ND		ND
	Apr-06	50	ND		ND		ND		ND		ND
	Oct-06	50	ND		ND		ND		ND		ND
	Apr-07	50	ND		ND		ND		ND		ND
Zinc	Jul-93	10	11	B	23	B	11	B	-		10
[1500]	Aug-93	10	-		-		-		-		ND
	Sep-93	10	-		-		-		-		ND
	Sep-93	10	-		-		-		-		ND
	Apr-94	10	36	B	98	B	65	B	-		20
	Oct-94	50	ND		ND		ND		-		ND
	Apr-95	50	ND		ND		ND		-		ND
	Oct-95	50	ND		ND		ND		-		ND
	Apr-96	50	ND		ND		ND		-		ND
	Oct-96	50	ND		ND		ND		-		ND
	Apr-97	50	-		-		ND		-		ND
	Oct-97	50	-		-		ND		-		ND
	Apr-98	50	-		-		ND		-		ND
	Oct-98	50	-		ND		-		-		ND
	Mar-99	50	ND		ND		ND		-		ND
	Jul-99	50	-		-		-		ND		ND
	Aug-99	50	-		-		-		ND		ND
	Oct-99	50	ND		ND		ND		ND		ND
	Nov-99	50	-		-		-		ND		ND
	Apr-00	50	ND		ND		ND		-		ND
	Oct-00	50	ND		ND		ND		ND		ND
	Apr-01	50	-		-		ND		-		ND
	Oct-01	50	ND		ND		ND		ND		ND
	Apr-02	50	-		ND		ND		ND		ND
	Oct-02	50	ND		ND		ND		ND		ND
	Apr-03	50	ND		ND		ND		ND		ND
	Oct-03	50	ND		ND		ND		81		ND
	Apr-04	50	ND		ND		ND		ND		ND
	Oct-04	50	ND		ND		ND		ND		ND
	Apr-05	50	ND		ND		ND		ND		ND
	Oct-05	50	ND		ND		ND		ND		ND
	Apr-06	50	100 (ND)		ND		ND		ND		ND
	Oct-06	50	ND		ND		ND		ND		ND
	Apr-07	10	45		ND		17		19		ND

TABLE 12
SUMMARY OF DETECTED CONSTITUENTS
SURFACE WATER

Constituent [NC 2L in µg/L]	Date	Concentrations (µg/L)					
		RL	SWPT-1	SWPT-2	UD-1	UD-2	Blanks
Acetone [700]	Jul-93	-	ND	ND	ND	-	-
	Aug-93	-	-	-	-	-	-
	Sep-93	-	-	-	-	-	-
	Sep-93	-	-	-	-	-	-
	Apr-94	-	ND	ND	ND	-	-
	Oct-94	-	ND	ND	ND	-	-
	Apr-95	-	ND	ND	ND	-	-
	Oct-95	-	ND	ND	ND	-	-
	Apr-96	-	ND	ND	ND	-	-
	Oct-96	-	ND	ND	ND	-	-
	Apr-97	-	-	-	ND	-	-
	Oct-97	-	-	-	ND	-	-
	Apr-98	-	-	-	ND	-	-
	Oct-98	-	-	ND	-	-	-
	Mar-99	-	-	-	-	-	-
	Jul-99	-	-	-	-	ND	-
	Aug-99	-	-	-	-	ND	-
	Oct-99	-	ND	172	ND	ND	-
	Nov-99	-	-	-	-	ND	-
	Apr-00	-	ND	ND	ND	-	-
	Oct-00	-	ND	ND	ND	ND	-
	Apr-01	-	-	-	ND	-	-
	Oct-01	100	ND	ND	ND	ND	ND
	Apr-02	100	-	ND	ND	ND	ND
	Oct-02	100	ND	ND	ND	ND	ND
	Apr-03	100	ND	ND	ND	ND	ND
	Oct-03	100	ND	ND	ND	ND	ND
	Apr-04	100	ND	ND	ND	ND	ND
	Oct-04	100	ND	ND	ND	ND	ND
	Apr-05	100	ND	ND	ND	ND	ND
	Oct-05	100	ND	ND	ND	ND	ND
	Apr-06	100	ND	ND	ND	ND	ND
	Oct-06	100	ND	ND	ND	ND	ND
	Apr-07	100	ND	ND	ND	ND	ND
2-Butanone [4200]	Jul-93	-	ND	ND	ND	-	-
	Aug-93	-	-	-	-	-	-
	Sep-93	-	-	-	-	-	-
	Sep-93	-	-	-	-	-	-
	Apr-94	-	ND	ND	ND	-	-
	Oct-94	-	ND	ND	ND	-	-
	Apr-95	-	ND	ND	ND	-	-
	Oct-95	-	ND	ND	ND	-	-
	Apr-96	-	ND	ND	ND	-	-
	Oct-96	-	ND	ND	ND	-	-
	Apr-97	-	-	-	ND	-	-
	Oct-97	-	-	-	ND	-	-
	Apr-98	-	-	-	ND	-	-
	Oct-98	-	-	ND	-	-	-
	Mar-99	-	-	-	-	-	-
	Jul-99	-	-	-	-	ND	-
	Aug-99	-	-	-	-	ND	-
	Oct-99	-	ND	137	ND	ND	-
	Nov-99	-	-	-	-	ND	-
	Apr-00	-	ND	ND	ND	-	-
	Oct-00	-	ND	ND	ND	ND	-
	Apr-01	-	-	-	ND	-	-
	Oct-01	100	ND	ND	ND	ND	ND
	Apr-02	100	-	ND	ND	ND	ND
	Oct-02	100	ND	ND	ND	ND	ND
	Apr-03	100	ND	ND	ND	ND	ND
	Oct-03	100	ND	ND	ND	ND	ND
	Apr-04	100	ND	ND	ND	ND	ND
	Oct-04	100	ND	ND	ND	ND	ND
	Apr-05	100	ND	ND	ND	ND	ND
	Oct-05	100	ND	ND	ND	ND	ND
	Apr-06	100	ND	ND	ND	ND	ND
	Oct-06	100	ND	ND	ND	ND	ND
	Apr-07	100	ND	ND	ND	ND	ND

TABLE 12
SUMMARY OF DETECTED CONSTITUENTS
SURFACE WATER

Constituent [NC 2L in µg/L]	Date	Concentrations (µg/L)					
		RL	SWPT-1	SWPT-2	UD-1	UD-2	Blanks
Toluene	Jul-93	-	ND	ND	ND	-	-
[1000]	Aug-93	-	-	-	-	-	-
	Sep-93	-	-	-	-	-	-
	Sep-93	-	-	-	-	-	-
	Apr-94	-	ND	ND	ND	-	-
	Oct-94	-	12	ND	33	-	-
	Apr-95	-	ND	ND	ND	-	-
	Oct-95	-	ND	ND	ND	-	-
	Apr-96	-	ND	ND	ND	-	-
	Oct-96	-	ND	11	ND	-	-
	Apr-97	-	-	-	ND	-	-
	Oct-97	-	-	-	ND	-	-
	Apr-98	-	-	-	ND	-	-
	Oct-98	-	-	ND	-	-	-
	Mar-99	-	-	-	-	-	-
	Jul-99	-	-	-	-	ND	-
	Aug-99	-	-	-	-	ND	-
	Oct-99	-	ND	ND	ND	ND	-
	Nov-99	-	-	-	-	ND	-
	Apr-00	-	ND	ND	ND	-	-
	Oct-00	-	ND	ND	ND	ND	-
	Apr-01	-	-	-	ND	-	-
	Oct-01	5	ND	ND	ND	ND	ND
	Apr-02	5	-	ND	ND	ND	ND
	Oct-02	5	ND	ND	ND	ND	ND
	Apr-03	5	ND	ND	ND	ND	ND
	Oct-03	5	ND	ND	ND	ND	ND
	Apr-04	5	ND	ND	ND	ND	ND
	Oct-04	5	ND	ND	ND	ND	ND
	Apr-05	5	ND	ND	ND	ND	ND
	Oct-05	5	ND	ND	ND	ND	ND
	Apr-06	5	ND	ND	ND	ND	ND
	Oct-06	5	ND	ND	ND	ND	ND
	Apr-07	5	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.
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 2L Drinking Water Standards.
8. SMPT-1 and SMPT-2 were not sampled during the April and October 1997 events due to dry conditions.
9. SMPT-2 was not sampled during the April 1998 event due to dry conditions.
10. SMPT-1 and UD-1 were not sampled during the October 1998 event due to dry conditions.
11. SMPT-1 and SMPT-2 were not sampled during the April 2001 event due to dry conditions.
12. - = not available
13. ( ) = resample event results

TABLE 13
SUMMARY OF FIELD PARAMETERS
SURFACE WATER

Field Parameters	Date	SWPT-1	SWPT-2	UD-1	UD-2
Conductivity [uMhos]	Jul-93	80	340	50	-
	Apr-94	310	450	610	-
	Oct-94	490	500	1100	-
	Apr-95	500	380	480	-
	Oct-95	480	910	500	-
	Apr-96	400	560	390	-
	Oct-96	460	920	260	-
	Apr-97	-	-	840	-
	Oct-97	-	-	1900	-
	Apr-98	-	-	420	-
	Oct-98	-	680	-	-
	Jul-99	-	-	-	160
	Aug-99	-	-	-	1300
	Oct-99	450	880	320	980
	Nov-99	-	-	-	780
	Apr-00	420	3000	470	-
	Oct-00	110	1100	480	790
	Apr-01	-	-	380	-
	Oct-01	320	320	870	630
	Apr-02	-	1800	510	640
	Oct-02	1000	1700	620	778
	Apr-03	601	1048	1181	894
	Oct-03	741	974	481	1331
	Apr-04	340	380	120	690
	Oct-04	255	363	375	329
	Apr-05	677	795	1281	1021
	Oct-05	722	522	199	607
	Apr-06	616	1010	1122	1034
	Oct-06	456	523	530	538
	Apr-07	517	758	837	1022
pH [units]	Jun-93	5.9	6.3	6.3	-
	Apr-94	6.7	7.0	7.2	-
	Oct-94	7.2	7.3	7.6	-
	Apr-95	7.2	7.1	7.3	-
	Oct-95	7.1	7.5	7.4	-
	Apr-96	7.1	6.0	7.1	-
	Oct-96	6.1	6.8	6.8	-
	Apr-97	-	-	6.3	-
	Oct-97	-	-	7.1	-
	Apr-98	-	-	7.0	-
	Oct-98	-	6.1	-	-
	Jul-99	-	-	-	7.0
	Aug-99	-	-	-	6.2
	Oct-99	7.4	7.2	7.1	7.1
	Nov-99	-	-	-	6.6
	Apr-00	6.9	8.1	6.6	-
	Oct-00	7.0	7.6	6.6	6.4
	Apr-02	-	-	6.5	-
	Oct-02	7.0	7.3	7.4	5.2
	Apr-02	-	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
	Apr-04	7.2	7.1	7.6	6.8
	Oct-04	7.4	4.0	7.0	7.2
	Apr-05	7.4	7.5	8.0	7.3
	Oct-05	7.3	7.0	6.9	7.1
	Apr-06	7.0	7.1	8.0	6.8
	Oct-06	7.1	7.8	7.2	7.1
	Apr-07	7.3	8.8	7.5	6.9

TABLE 13
SUMMARY OF FIELD PARAMETERS
SURFACE WATER

Field Parameters	Date	SWPT-1	SWPT-2	UD-1	UD-2
Temperature [°C]	Jun-93	17	15	15	-
	Apr-94	23	20	23	-
	Oct-94	17	16	18	-
	Apr-95	20	22	18	-
	Oct-95	19	19	22	-
	Apr-96	11	10	11	-
	Oct-96	21	21	23	-
	Apr-97	-	-	15	-
	Oct-97	-	-	15	-
	Apr-98	-	-	19	-
	Oct-98	-	20	-	-
	Jul-99	-	-	-	24
	Aug-99	-	-	-	23
	Oct-99	21	18	18	19
	Nov-99	-	-	-	14
	Apr-00	11	15	19	-
	Oct-00	13	13	15	15
	Apr-02	-	-	20	-
	Oct-02	16	16	18	18
	Apr-02	-	16	20	18
	Oct-02	25	22	22	22
	Apr-03	20	19	17	24
	Oct-03	17	15	15	15
	Apr-04	13	12	13	13
	Oct-04	20	20	19	19
	Apr-05	17	15	16	14
	Oct-05	15	13	14	14
	Apr-06	18	16	24	17
	Oct-06	21	26	21	23
	Apr-07	19	29	20	17
Turbidity [NTU]	Jun-93	-	-	-	-
	Apr-94	-	-	-	-
	Oct-94	-	-	-	-
	Apr-95	-	-	-	-
	Oct-95	-	-	-	-
	Apr-96	-	-	-	-
	Oct-96	-	-	-	-
	Apr-97	-	-	-	-
	Oct-97	-	-	-	-
	Apr-98	-	-	-	-
	Oct-98	-	38	-	-
	Jul-99	-	-	-	-
	Aug-99	-	-	-	300
	Oct-99	160	120	65	70
	Nov-99	-	-	-	21
	Apr-00	14	310	25	-
	Oct-00	100	120	46	11
	Apr-02	-	-	26	-
	Oct-02	70	60	4.2	60
	Apr-02	-	21	8.6	140
	Oct-02	28	32	25	130
	Apr-03	33	60	35	170
	Oct-03	26	14	27	39
	Apr-04	28	55	50	330
	Oct-04	180	90	80	110
	Apr-05	23	80	27	8.1
	Oct-05	25	45	27	40
	Apr-06	34	21	13	11
	Oct-06	50	70	28	80
	Apr-07	50	80	31	12

Notes:
1. - = not available

Table 14
Summary of Detected Constituents
Leachate

Constituent [NC 2L]	Date	RL	Concentration (ug/L) Leachate
Antimony	Oct-99	30	47
[-]	Apr-00	30	ND
	Oct-00	30	ND
	Apr-01	30	ND
	Oct-01	30	ND
	Apr-02	30	ND
	Apr-03	30	ND
	Apr-05	30	ND
	Dec-05	30	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	6.0	7
Arsenic	Oct-99	10	ND
[50]	Apr-00	10	ND
	Oct-00	10	ND
	Apr-01	10	ND
	Oct-01	10	12
	Apr-02	10	27
	Apr-03	10	55
	Apr-05	10	74
	Dec-05	10	52
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	10	14
Barium	Oct-99	500	ND
[2000]	Apr-00	500	ND
	Oct-00	500	ND
	Apr-01	500	ND
	Oct-01	500	537
	Apr-02	500	1358
	Apr-03	500	794
	Apr-05	500	542
	Dec-05	500	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	100	112

Table 14
Summary of Detected Constituents
Leachate

Constituent [NC 2L]	Date	RL	Concentration (ug/L) Leachate
Cadmium [1.75]	Oct-99	1	ND
	Apr-00	1	ND
	Oct-00	1	ND
	Apr-01	1	ND
	Oct-01	1	ND
	Apr-02	1	2
	Apr-03	1	ND
	Apr-05	1	ND
	Dec-05	1	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	1.0	ND
Chromium [50]	Oct-99	10	ND
	Apr-00	10	ND
	Oct-00	10	ND
	Apr-01	10	20
	Oct-01	10	37
	Apr-02	10	158
	Apr-03	10	50
	Apr-05	10	48
	Dec-05	10	36
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	10	ND
Cobalt [-]	Oct-99	10	ND
	Apr-00	10	ND
	Oct-00	10	ND
	Apr-01	10	ND
	Oct-01	10	ND
	Apr-02	10	ND
	Apr-03	10	23
	Apr-05	10	15
	Dec-05	10	22
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	10	ND

Table 14
Summary of Detected Constituents
Leachate

Constituent [NC 2L]	Date	RL	Concentration (ug/L) Leachate
Lead [15]	Oct-99	10	ND
	Apr-00	10	ND
	Oct-00	10	ND
	Apr-01	10	ND
	Oct-01	10	ND
	Apr-02	10	30
	Apr-03	10	ND
	Apr-05	10	11
	Dec-05	10	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	10	ND
Nickel [100]	Oct-99	50	ND
	Apr-00	50	ND
	Oct-00	50	ND
	Apr-01	50	ND
	Oct-01	50	77
	Apr-02	50	394
	Apr-03	50	141
	Apr-05	50	112
	Dec-05	50	84
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	50	ND
Selenium [50]	Oct-99	20	ND
	Apr-00	20	ND
	Oct-00	10	ND
	Apr-01	20	ND
	Oct-01	20	ND
	Apr-02	20	ND
	Apr-03	20	ND
	Apr-05	20	20
	Dec-05	20	33
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	10	20

Table 14
Summary of Detected Constituents
Leachate

Constituent [NC 2L]	Date	RL	Concentration (ug/L) Leachate
Vanadium	Oct-99	40	ND
[-]	Apr-00	40	ND
	Oct-00	40	ND
	Apr-01	40	ND
	Oct-01	40	ND
	Apr-02	40	ND
	Apr-03	40	ND
	Apr-05	40	ND
	Dec-05	40	51
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	25	ND
Zinc	Oct-99	50	ND
[1050]	Apr-00	50	ND
	Oct-00	50	ND
	Apr-01	50	60
	Oct-01	50	101
	Apr-02	50	298
	Apr-03	50	691
	Apr-05	50	721
	Dec-05	50	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	10	22
Acetone	Oct-99	-	ND
[700]	Apr-00	-	3829
	Oct-00	-	ND
	Apr-01	-	ND
	Oct-01	100	-
	Apr-02	100	9690
	Apr-03	500	1090
	Apr-05	500	4570
	Dec-05	500	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	100.00	ND

Table 14
Summary of Detected Constituents
Leachate

Constituent [NC 2L]	Date	RL	Concentration (ug/L) Leachate
Benzene [1]	Oct-99	-	ND
	Apr-00	-	ND
	Oct-00	-	ND
	Apr-01	-	12
	Oct-01	5	-
	Apr-02	5	-
	Apr-03	25	ND
	Apr-05	25	7.3
	Dec-05	25	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	3.00	ND
Chloroethane [2800]	Oct-99	-	ND
	Apr-00	-	ND
	Oct-00	-	ND
	Apr-01	-	19
	Oct-01	10	-
	Apr-02	10	-
	Apr-03	50	ND
	Apr-05	50	ND
	Dec-05	50	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	5.00	ND
1,1-Dichloroethane [70]	Oct-99	-	ND
	Apr-00	-	15
	Oct-00	-	ND
	Apr-01	-	ND
	Oct-01	5	-
	Apr-02	5	-
	Apr-03	25	ND
	Apr-05	25	ND
	Dec-05	25	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	5.00	ND

Table 14
Summary of Detected Constituents
Leachate

Constituent [NC 2L]	Date	RL	Concentration (ug/L) Leachate
2-Butanone [4200]	Oct-99	-	ND
	Apr-00	-	5343
	Oct-00	-	ND
	Apr-01	-	ND
	Oct-01	100	ND
	Apr-02	100	5640
	Apr-03	500	861
	Apr-05	500	1580
	Dec-05	500	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	100.00	ND
2-Hexanone [280]	Apr-05	50	67.1
	Dec-05	250	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	50.00	ND
Styrene [100]	Apr-05	10	33.2
	Dec-05	50	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	10.00	ND
1,4-Dichlorobenzene [1.4]	Apr-05	5	12.5
	Dec-05	25	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	3.00	13.40

Table 14
Summary of Detected Constituents
Leachate

Constituent [NC 2L]	Date	RL	Concentration (ug/L) Leachate
Trichloroethene [2.8]	Oct-99	-	ND
	Apr-00	-	5.6
	Oct-00	-	ND
	Apr-01	-	ND
	Oct-01	5	-
	Apr-02	5	-
	Apr-03	25	ND
	Apr-05	25	ND
	Dec-05	25	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	3.00	ND
Tetrachloroethene [0.7]	Oct-99	-	ND
	Apr-00	-	22
	Oct-00	-	ND
	Apr-01	-	ND
	Oct-01	5	-
	Apr-02	5	ND
	Apr-03	25	ND
	Apr-05	25	ND
	Dec-05	25	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	3.00	ND
Ethylbenzene [550]	Oct-99	-	ND
	Apr-00	-	ND
	Oct-00	-	ND
	Apr-01	-	66
	Oct-01	5	-
	Apr-02	5	93.8
	Apr-03	25	128
	Apr-05	25	176
	Dec-05	25	126
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	5.00	9.50

Table 14
Summary of Detected Constituents
Leachate

Constituent [NC 2L]	Date	RL	Concentration (ug/L) Leachate
Methylene Chloride [4.6]	Oct-99	-	32
	Apr-00	-	234
	Oct-00	-	ND
	Apr-01	-	69
	Oct-01	10	-
	Apr-02	10	-
	Apr-03	50	ND
	Apr-05	50	ND
	Dec-05	50	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	5.00	ND
Toluene [1000]	Oct-99	-	9
	Apr-00	-	16
	Oct-00	-	ND
	Apr-01	-	251
	Oct-01	5	-
	Apr-02	5	148
	Apr-03	25	125
	Apr-05	25	108
	Dec-05	25	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	5.00	5.60
1,1,1-Trichloroethane [200]	Oct-99	-	75
	Apr-00	-	29
	Oct-00	-	ND
	Apr-01	-	ND
	Oct-01	5	-
	Apr-02	5	-
	Apr-03	25	ND
	Apr-05	25	ND
	Dec-05	25	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	5.00	ND

Table 14
Summary of Detected Constituents
Leachate

Constituent [NC 2L]	Date	RL	Concentration (ug/L) Leachate
Trichlorofluoromethane [2100]	Oct-99	-	220
	Apr-00	-	37
	Oct-00	-	ND
	Apr-01	-	10
	Oct-01	5	-
	Apr-02	5	-
	Apr-03	25	ND
	Apr-05	25	ND
	Dec-05	25	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	5.00	ND
Vinyl Chloride [0.015]	Oct-99	-	ND
	Apr-00	-	ND
	Oct-00	-	ND
	Apr-01	-	36
	Oct-01	10	-
	Apr-02	10	-
	Apr-03	50	ND
	Apr-05	50	ND
	Dec-05	50	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	5.00	ND
4-Methyl-2-Pentanone [560]	Oct-99	-	ND
	Apr-00	-	116
	Oct-00	-	ND
	Apr-01	-	471
	Oct-01	50	-
	Apr-02	50	-
	Apr-03	500	923
	Apr-05	500	2530
	Dec-05	500	ND
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	100.00	ND

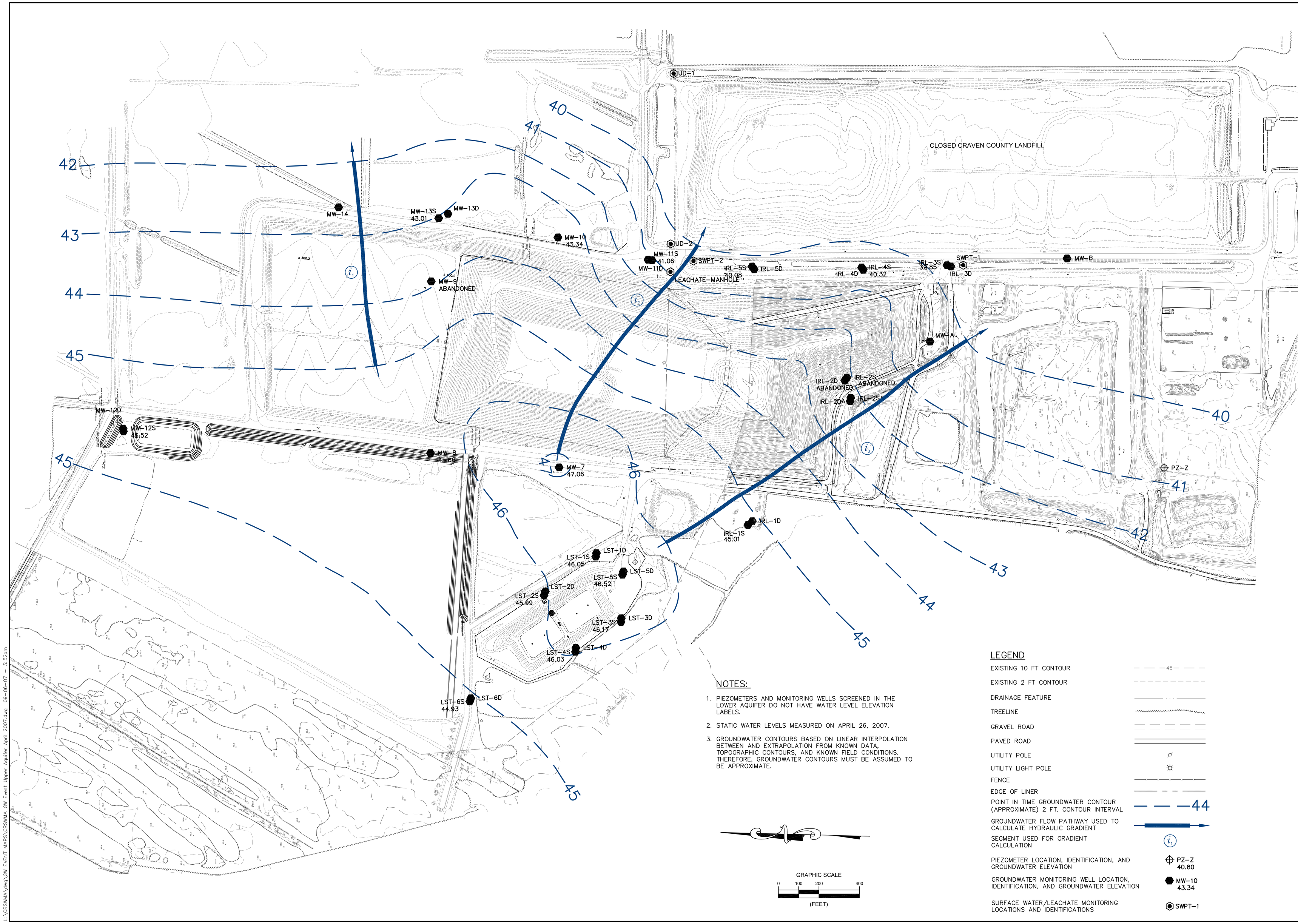
Table 14
Summary of Detected Constituents
Leachate

Constituent [NC 2L]	Date	RL	Concentration (ug/L) Leachate
Xylenes (total)	Oct-99	-	ND
[530]	Apr-00	-	ND
	Oct-00	-	ND
	Apr-01	-	52
	Oct-01	5	-
	Apr-02	5	60.6
	Apr-03	25	102
	Apr-05	25	147
	Dec-05	25	189
	Apr-06	-	-
	Oct-06	-	-
	Apr-07	4.00	37.20

Notes:

1. All concentrations are in ug/L.
2. RL = laboratory reporting limit
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. Shaded values are above the NC 2L Drinking Water Standards.
7. * = proposed NC 2L Drinking Water Standard
8. - = not available

Drawings



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 26, 2007.
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.

GRAPHIC SCALE

0 100 200 400

(FEET)

LEGEND

EXISTING 10 FT CONTOUR	45
EXISTING 2 FT CONTOUR	
DRAINAGE FEATURE	
TREELINE	
GRAVEL ROAD	
PAVED ROAD	
UTILITY POLE	
UTILITY LIGHT POLE	
FENCE	
EDGE OF LINER	
POINT IN TIME GROUNDWATER CONTOUR (APPROXIMATE) 2 FT. CONTOUR INTERVAL	44
GROUNDWATER FLOW PATHWAY USED TO CALCULATE HYDRAULIC GRADIENT	
SEGMENT USED FOR GRADIENT CALCULATION	i_s
PIEZOMETER LOCATION, IDENTIFICATION, AND GROUNDWATER ELEVATION	PZ-Z 40.80
GROUNDWATER MONITORING WELL LOCATION, IDENTIFICATION, AND GROUNDWATER ELEVATION	MW-10 43.34
SURFACE WATER/LEACHATE MONITORING LOCATIONS AND IDENTIFICATIONS	SWPT-1

DATE	REVISIONS AND RECORD OF ISSUE	NO	BY	CK	APP

DESIGNED JJK
DRAWN CADD/JJK
CHECKED VB
APPROVED VB
DATE 08/16/07

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PHONE: (336) 323-0092

CRSWMA: TUSCARORA LANDFILL

GROUNDWATER SURFACE CONTOUR MAP FOR UPPERMOST AQUIFER APRIL 26, 2007

PROJECT NO.
618.02.15

SCALE
1"=200'

DRAWING NO.
1

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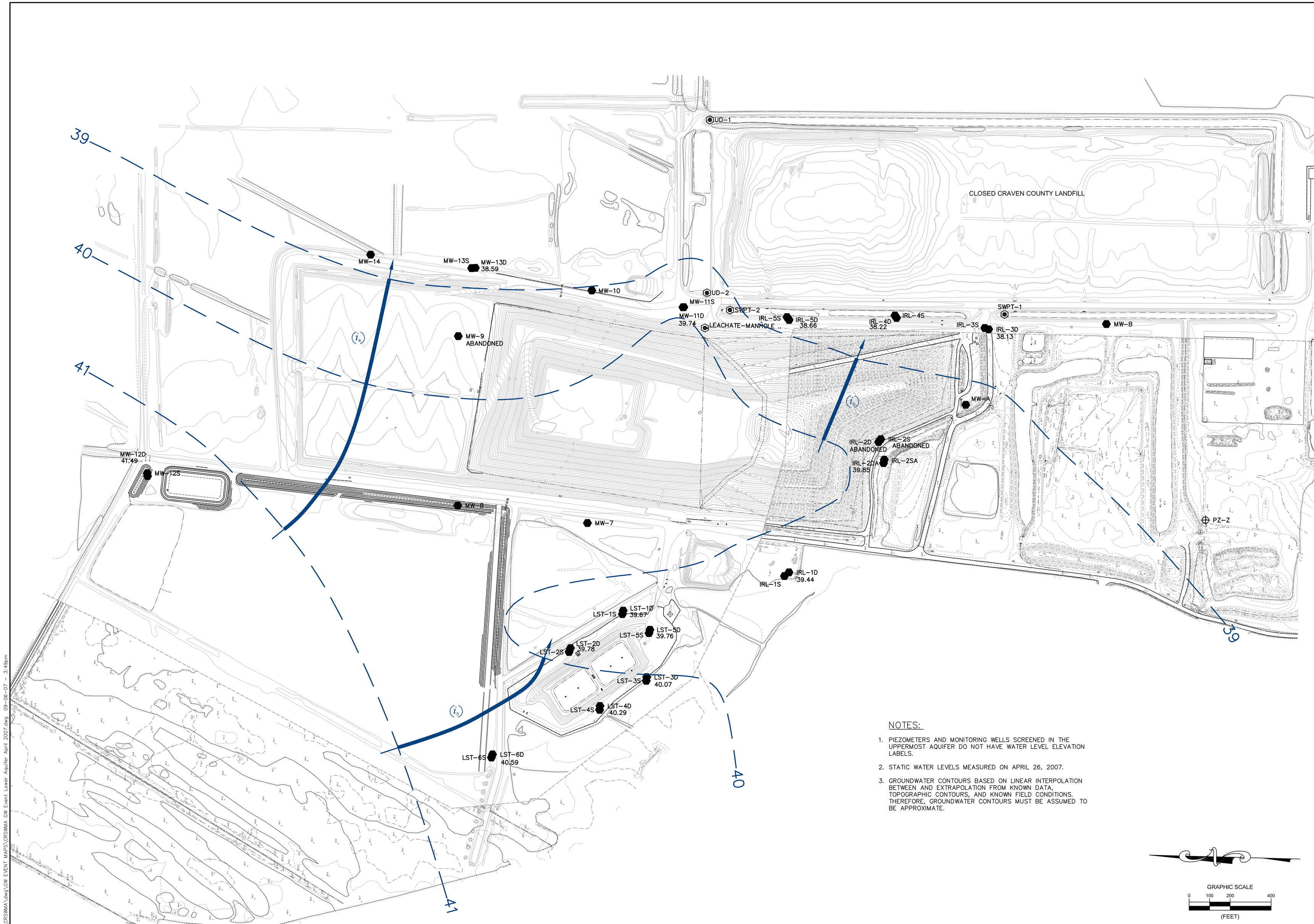

NOTES:

1. PIEZOMETERS AND MONITORING WELLS SCREENED IN THE UPPERMOST AQUIFER DO NOT HAVE WATER LEVEL ELEVATION LABELS.
2. STATIC WATER LEVELS MEASURED ON APRIL 26, 2007.
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.

GRAPHIC SCALE
0 100 200 400
(FEET)

DATE	REVISIONS AND RECORD OF ISSUE	NO	BY	CK	APP

DESIGNED JJK
DRAWN CADD/JJK
CHECKED VB
APPROVED
DATE 08/16/07

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JOYCE ENGINEERING, INC.
2211 WEST MEADOWVIEW ROAD
GREENSBORO, NC 27407
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CRSWMA: TUSCARORA REGIONAL LANDFILL

GROUNDWATER SURFACE CONTOUR MAP
FOR THE LOWER AQUIFER
APRIL 26, 2007

PROJECT NO.
618.02.15

SCALE
1"=200'

DRAWING NO.
2

L:\CRSWMA\dwg\GW EVENT MAPS\CRSWMA GW Event Lower Aquifer April 2007.dwg 09-06-07 3:49pm

Statistical Analyses

Summary of Statistical Analyses – First Semiannual Groundwater Monitoring Report of 2007

CRSWMA Regional Landfill
Summary of Statistical Analyses
April 2007 Sampling Event

Analyte	Data Distribution	Statistical Method used to Establish Background	Background (µg/L)	Noted Increases
Barium	n/a	Nonparametric Prediction Interval	343	
Zinc	n/a	Nonparametric Prediction Interval	192	

Notes:
1. n/a = not applicable
2. n/e = not established

Detailed Results

JEI Project: Tuscarora Regional Landfill
Project No: 618.02.15
Sample Date: 04/26/07

Analyte:	Barium			
Sample No.	Sample Date	Location	Concentration (ug/L)	Quantitation Limit (ug/L)
1	07/01/93	IRL-1S	268	50
2	08/01/93	IRL-1S	122	50
3	09/01/93	IRL-1S	113	50
4	09/01/93	IRL-1S	109	50
5	04/01/94	IRL-1S	73	50
6	10/01/94	IRL-1S	ND	500
7	04/01/95	IRL-1S	ND	500
8	10/01/95	IRL-1S	ND	500
9	04/01/96	IRL-1S	ND	500
10	10/01/96	IRL-1S	ND	500
11	04/01/97	IRL-1S	ND	500
12	10/01/97	IRL-1S	ND	500
13	04/01/98	IRL-1S	ND	500
14	10/01/98	IRL-1S	ND	500
15	03/01/99	IRL-1S	ND	500
16	10/01/99	IRL-1S	ND	500
17	04/01/00	IRL-1S	ND	500
18	10/01/00	IRL-1S	ND	500
19	04/01/01	IRL-1S	ND	500
20	10/01/01	IRL-1S	ND	500
21	04/02/02	IRL-1S	ND	500
22	10/03/02	IRL-1S	ND	500
23	04/03/03	IRL-1S	ND	500
24	10/03/03	IRL-1S	ND	500
25	04/15/04	IRL-1S	ND	500
26	10/14/04	IRL-1S	ND	500
27	04/05/05	IRL-1S	ND	500
28	10/27/05	IRL-1S	ND	500
29	04/21/06	IRL-1S	ND	500
30	10/12/06	IRL-1S	ND	500
31	04/26/07	IRL-1S	ND	100
32	07/01/93	IRL-1D	343	50
33	08/01/93	IRL-1D	252	50
34	09/01/93	IRL-1D	105	50
35	09/01/93	IRL-1D	212	50
36	04/01/94	IRL-1D	131	50
37	10/01/94	IRL-1D	ND	500
38	04/01/95	IRL-1D	ND	500
39	10/01/95	IRL-1D	ND	500
40	04/01/96	IRL-1D	ND	500

41	10/27/05	IRL-1D	ND	500
42	04/21/06	IRL-1D	ND	500
43	10/12/06	IRL-1D	ND	500
44	04/26/07	IRL-1D	ND	100
45	10/12/06	LST-5S	ND	500
46	04/26/07	LST-5S	ND	100
47	04/02/02	MW-12S	ND	500
48	10/03/02	MW-12S	ND	500
49	04/03/03	MW-12S	ND	500
50	10/03/03	MW-12S	ND	500
51	04/15/04	MW-12S	ND	500
52	10/14/04	MW-12S	ND	500
53	04/05/05	MW-12S	ND	500
54	10/27/05	MW-12S	ND	500
55	04/21/06	MW-12S	ND	500
56	10/12/06	MW-12S	ND	500
57	04/26/07	MW-12S	ND	100
58	04/02/02	MW-12D	ND	500
59	10/03/02	MW-12D	ND	500
60	04/03/03	MW-12D	ND	500
61	10/03/03	MW-12D	ND	500
62	04/15/04	MW-12D	ND	500
63	10/14/04	MW-12D	ND	500
64	04/05/05	MW-12D	ND	500
65	10/27/05	MW-12D	ND	500
66	04/21/06	MW-12D	ND	500
67	10/12/06	MW-12D	ND	500
68	04/26/07	MW-12D	ND	100
69	04/15/04	MW-13S	ND	500
70	10/14/04	MW-13S	ND	500
71	04/05/05	MW-13S	ND	500
72	10/27/05	MW-13S	ND	500
73	04/15/04	MW-13D	ND	500
74	10/14/04	MW-13D	ND	500
75	04/05/05	MW-13D	ND	500
76	10/27/05	MW-13D	ND	500
77	04/15/04	MW-14	ND	500
78	10/14/04	MW-14	ND	500
79	04/05/05	MW-14	ND	500
80	10/27/05	MW-14	ND	500

Number of Data:	80
Number of Truncated Data:	70
Percentage of Truncated Data:	88%
Non-Parametric Prediction Limit:	**343**

- All concentrations in micrograms per liter.

JEI Project: Tuscarora Regional Landfill
Project No: 618.02.15
Sample Date: 04/26/07

Analyte:	Zinc				
Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	07/01/93	IRL-1S	42	B	10
2	08/01/93	IRL-1S	37		10
3	09/01/93	IRL-1S	31		10
4	09/01/93	IRL-1S	73		10
5	04/01/94	IRL-1S	36	B	10
6	10/01/94	IRL-1S	ND		50
7	04/01/95	IRL-1S	ND		50
8	10/01/95	IRL-1S	ND		50
9	04/01/96	IRL-1S	ND		50
10	10/01/96	IRL-1S	ND		50
11	04/01/97	IRL-1S	ND		50
12	10/01/97	IRL-1S	110		50
13	04/01/98	IRL-1S	ND		50
14	10/01/98	IRL-1S	ND		50
15	03/01/99	IRL-1S	ND		50
16	10/01/99	IRL-1S	ND		50
17	04/01/00	IRL-1S	90		50
18	10/01/00	IRL-1S	ND		50
19	04/01/01	IRL-1S	ND		50
20	10/01/01	IRL-1S	ND		50
21	04/02/02	IRL-1S	ND		50
22	10/03/02	IRL-1S	ND		50
23	04/03/03	IRL-1S	ND		50
24	10/03/03	IRL-1S	ND		50
25	04/15/04	IRL-1S	ND		50
26	10/14/04	IRL-1S	ND		50
27	04/05/05	IRL-1S	ND		50
28	10/27/05	IRL-1S	ND		50
29	04/21/06	IRL-1S	ND		50
30	10/12/06	IRL-1S	ND		50
31	04/26/07	IRL-1S	ND		10
32	07/01/93	IRL-1D	41	B	10
33	08/01/93	IRL-1D	18		10
34	09/01/93	IRL-1D	20		10
35	09/01/93	IRL-1D	88		10
36	04/01/94	IRL-1D	19	B	10
37	10/01/94	IRL-1D	ND		50
38	04/01/95	IRL-1D	ND		50
39	10/01/95	IRL-1D	ND		50
40	04/01/96	IRL-1D	ND		50

41	10/27/05	IRL-1D	192	50
42	04/21/06	IRL-1D	ND	50
43	10/12/06	IRL-1D	ND	50
44	04/26/07	IRL-1D	ND	10
45	10/12/06	LST-5S	ND	50
46	04/26/07	LST-5S	22	10
47	04/02/02	MW-12S	ND	50
48	10/03/02	MW-12S	ND	50
49	04/03/03	MW-12S	ND	50
50	10/03/03	MW-12S	11	50
51	04/15/04	MW-12S	ND	50
52	10/14/04	MW-12S	ND	50
53	04/05/05	MW-12S	ND	50
54	10/27/05	MW-12S	ND	50
55	04/21/06	MW-12S	ND	50
56	10/12/06	MW-12S	ND	50
57	04/26/07	MW-12S	16	10
58	04/02/02	MW-12D	ND	50
59	10/03/02	MW-12D	ND	50
60	04/03/03	MW-12D	ND	50
61	10/03/03	MW-12D	ND	50
62	04/15/04	MW-12D	ND	50
63	10/14/04	MW-12D	ND	50
64	04/05/05	MW-12D	ND	50
65	10/27/05	MW-12D	ND	50
66	04/21/06	MW-12D	ND	50
67	10/12/06	MW-12D	ND	50
68	04/26/07	MW-12D	ND	10
69	04/15/04	MW-13S	ND	50
70	10/14/04	MW-13S	ND	50
71	04/05/05	MW-13S	ND	50
72	10/27/05	MW-13S	ND	50
73	04/15/04	MW-13D	ND	50
74	10/14/04	MW-13D	ND	50
75	04/05/05	MW-13D	ND	50
76	10/27/05	MW-13D	ND	50
77	04/15/04	MW-14	ND	50
78	10/14/04	MW-14	ND	50
79	04/05/05	MW-14	ND	50
80	10/27/05	MW-14	ND	50

Number of Data:	76
Number of Truncated Data:	64
Percentage of Truncated Data:	84%
Non-Parametric Prediction Limit:	**192**

- All concentrations in micrograms per liter.
- Blank qualified data not used in statistical calculations.

Laboratory Reports

Environment 1, Incorporated

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

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

RECEIVED MAY 22 2007

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6035

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

DATE COLLECTED: 04/26/07
DATE REPORTED : 05/18/07

REVIEWED BY:

PARAMETERS	Leachate Storage 1S	Leachate Storage 1D	Leachate Storage 2S	Leachate Storage 2D	Leachate Storage 3S	Analysis Date	Analyst	Method Code
PH (field measurement), Units	4.8	7.1	4.9		4.8	04/26/07	RJH	SM4500HB
Antimony, ug/l	<6.0	<6.0	<6.0		<6.0	05/04/07	LFJ	EPA200.8
Arsenic, ug/l	< 10	< 10	< 10		< 10	05/04/07	LFJ	EPA200.8
Barium, ug/l	< 100	< 100	< 100		< 100	05/04/07	LFJ	EPA200.8
Beryllium, ug/l	<1.0	<1.0	<1.0		<1.0	05/04/07	LFJ	EPA200.8
Cadmium, ug/l	<1.0	<1.0	<1.0		<1.0	05/04/07	LFJ	EPA200.8
Cobalt, ug/l	< 10	< 10	< 10		< 10	05/04/07	LFJ	EPA200.8
Copper, ug/l	< 10	< 10	< 10		< 10	05/04/07	LFJ	EPA200.8
Total Chromium, ug/l	< 10	< 10	< 10		< 10	05/04/07	LFJ	EPA200.8
Lead, ug/l	< 10	< 10	< 10		< 10	05/04/07	LFJ	EPA200.8
Nickel, ug/l	< 50	< 50	< 50		< 50	05/04/07	LFJ	EPA200.8
Selenium, ug/l	< 10	< 10	< 10		< 10	05/04/07	LFJ	EPA200.8
Silver, ug/l	< 10	< 10	< 10		< 10	05/04/07	LFJ	EPA200.8
Thallium, ug/l	<5.0	<5.0	<5.0		<5.0	05/04/07	LFJ	EPA200.8
Vanadium, ug/l	< 25	< 25	< 25		< 25	05/04/07	LFJ	EPA200.8
Zinc, ug/l	< 10	< 10	< 10		17	05/04/07	LFJ	EPA200.8
Turbidity, NTU	<1.42	190	<1.42		3.2	04/27/07	MDM	SM2130B
Conductivity (at 25c), uMhos	93	488	95		47	04/26/07	RJH	SM2510B
Temperature, °C	16	18	16		16	04/26/07	RJH	SM2550B
Static Water Level, feet	4.87	11.25	5.01	11.16	6.00	04/26/07	RJH	
Well Depth, feet	15.04	34.86	14.45	33.29	17.65	04/26/07	RJH	

Environment 1, Incorporated

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

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Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6035

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

DATE COLLECTED: 04/26/07
DATE REPORTED : 05/18/07

REVIEWED BY:

PARAMETERS	Leachate Storage 3D	Leachate Storage 4S	Leachate Storage 4D	Leachate Storage 5S	Leachate Storage 5D	Analysis Date	Analyst	Method Code
PH (field measurement), Units		5.3		6.7	7.0	04/26/07	RJH	SM4500HB
Antimony, ug/l		<6.0		<6.0	<6.0	05/04/07	LFJ	EPA200.8
Arsenic, ug/l		< 10		< 10	< 10	05/04/07	LFJ	EPA200.8
Barium, ug/l		< 100		< 100	< 100	05/04/07	LFJ	EPA200.8
Beryllium, ug/l		<1.0		<1.0	<1.0	05/04/07	LFJ	EPA200.8
Cadmium, ug/l		<1.0		<1.0	<1.0	05/04/07	LFJ	EPA200.8
Cobalt, ug/l		< 10		< 10	< 10	05/04/07	LFJ	EPA200.8
Copper, ug/l		< 10		< 10	< 10	05/04/07	LFJ	EPA200.8
Total Chromium, ug/l		< 10		< 10	< 10	05/04/07	LFJ	EPA200.8
Lead, ug/l		< 10		< 10	< 10	05/04/07	LFJ	EPA200.8
Nickel, ug/l		< 50		< 50	< 50	05/04/07	LFJ	EPA200.8
Selenium, ug/l		< 10		< 10	< 10	05/04/07	LFJ	EPA200.8
Silver, ug/l		< 10		< 10	< 10	05/04/07	LFJ	EPA200.8
Thallium, ug/l		<5.0		<5.0	<5.0	05/04/07	LFJ	EPA200.8
Vanadium, ug/l		< 25		< 25	< 25	05/04/07	LFJ	EPA200.8
Zinc, ug/l		< 10		22	< 10	05/04/07	LFJ	EPA200.8
Turbidity, NTU		3.5		9.6	75	04/27/07	MDM	SM2130B
Conductivity (at 25c), uMhos		64		176	509	04/26/07	RJH	SM2510B
Temperature, °C		16		17	18	04/26/07	RJH	SM2550B
Static Water Level, feet	11.80	5.35	11.27	5.85	12.51	04/26/07	RJH	
Well Depth, feet	34.85	17.62	36.12	15.41	38.66	04/26/07	RJH	

Environment 1, Incorporated

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

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

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6035

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

DATE COLLECTED: 04/26/07
DATE REPORTED : 05/18/07

REVIEWED BY:

PARAMETERS	Leachate Storage 6S	Leachate Storage 6D	Equipment Blank	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.0				04/26/07	RJH	SM4500HB
Antimony, ug/l	<6.0		<6.0		05/04/07	LFJ	EPA200.8
Arsenic, ug/l	< 10		< 10		05/04/07	LFJ	EPA200.8
Barium, ug/l	< 100		< 100		05/04/07	LFJ	EPA200.8
Beryllium, ug/l	<1.0		<1.0		05/04/07	LFJ	EPA200.8
Cadmium, ug/l	<1.0		<1.0		05/04/07	LFJ	EPA200.8
Cobalt, ug/l	< 10		< 10		05/04/07	LFJ	EPA200.8
Copper, ug/l	< 10		< 10		05/04/07	LFJ	EPA200.8
Total Chromium, ug/l	< 10		< 10		05/04/07	LFJ	EPA200.8
Lead, ug/l	< 10		< 10		05/04/07	LFJ	EPA200.8
Nickel, ug/l	< 50		< 50		05/04/07	LFJ	EPA200.8
Selenium, ug/l	< 10		< 10		05/04/07	LFJ	EPA200.8
Silver, ug/l	< 10		< 10		05/04/07	LFJ	EPA200.8
Thallium, ug/l	<5.0		<5.0		05/04/07	LFJ	EPA200.8
Vanadium, ug/l	< 25		< 25		05/04/07	LFJ	EPA200.8
Zinc, ug/l	11		< 10		05/04/07	LFJ	EPA200.8
Turbidity, NTU	21				04/27/07	MDM	SM2130B
Conductivity (at 25c), uMhos	43				04/26/07	RJH	SM2510B
Temperature, °C	17				04/26/07	RJH	SM2550B
Static Water Level, feet	6.30	10.58			04/26/07	RJH	
Well Depth, feet	16.44	34.37			04/26/07	RJH	

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: 04/26/07
DATE ANALYZED: 05/09/07
DATE REPORTED: 05/18/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	Leachate Storage 1S	Leachate Storage 1D	Leachate Storage 2S	Leachate Storage 3S	Leachate Storage 4S
1. Chloromethane	<5.00	<5.00	<5.00	<5.00	<5.00
2. Vinyl Chloride	<5.00	<5.00	<5.00	<5.00	<5.00
3. Bromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
4. Chloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
5. Trichlorofluoromethane	<5.00	<5.00	<5.00	<5.00	<5.00
6. 1,1-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
7. Acetone	<100.00	<100.00	<100.00	<100.00	<100.00
8. Iodomethane	<10.00	<10.00	<10.00	<10.00	<10.00
9. Carbon Disulfide	<100.00	<100.00	<100.00	<100.00	<100.00
10. Methylene Chloride	<5.00	<5.00	<5.00	<5.00	<5.00
11. trans-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
12. 1,1-Dichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
13. Vinyl Acetate	<50.00	<50.00	<50.00	<50.00	<50.00
14. Cis-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
15. 2-Butanone	<100.00	<100.00	<100.00	<100.00	<100.00
16. Bromochloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
17. Chloroform	<5.00	<5.00	<5.00	<5.00	<5.00
18. 1,1,1-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
19. Carbon Tetrachloride	<5.00	<5.00	<5.00	<5.00	<5.00
20. Benzene	<3.00	<3.00	<3.00	<3.00	<3.00
21. 1,2-Dichloroethane	<3.00	<3.00	<3.00	<3.00	<3.00
22. Trichloroethene	<3.00	<3.00	<3.00	<3.00	<3.00
23. 1,2-Dichloropropane	<3.00	<3.00	<3.00	<3.00	<3.00
24. Bromodichloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
25. Cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00
26. 4-Methyl-2-Pentanone	<100.00	<100.00	<100.00	<100.00	<100.00
27. Toluene	<5.00	<5.00	<5.00	<5.00	<5.00
28. trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00
29. 1,1,2-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
30. Tetrachloroethene	<3.00	<3.00	<3.00	<3.00	<3.00
31. 2-Hexanone	<50.00	<50.00	<50.00	<50.00	<50.00
32. Dibromochloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
33. 1,2-Dibromoethane	<3.00	<3.00	<3.00	<3.00	<3.00
34. Chlorobenzene	<3.00	<3.00	<3.00	<3.00	<3.00
35. 1,1,1,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
36. Ethylbenzene	<5.00	<5.00	<5.00	<5.00	<5.00
37. Xylenes	<4.00	<4.00	<4.00	<4.00	<4.00
38. Dibromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
39. Styrene	<10.00	<10.00	<10.00	<10.00	<10.00
40. Bromoform	<3.00	<3.00	<3.00	<3.00	<3.00
41. 1,1,2,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
42. 1,2,3-Trichloropropane	<8.00	<8.00	<8.00	<8.00	<8.00
43. 1,4-Dichlorobenzene	<3.00	<3.00	<3.00	<3.00	<3.00
44. 1,2-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00
45. 1,2-Dibromo-3-Chloropropane	<13.00	<13.00	<13.00	<13.00	<13.00
46. Acrylonitrile	<200.00	<200.00	<200.00	<200.00	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00	<100.00	<100.00	<100.00	<100.00

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: 04/26/07
DATE ANALYZED: 05/09/07
DATE REPORTED: 05/18/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	Leachate Storage 5S	Leachate Storage 5D	Leachate Storage 6S	Equipment Blank	Trip Blank
1. Chloromethane	<5.00	<5.00	<5.00	<5.00	<5.00
2. Vinyl Chloride	<5.00	<5.00	<5.00	<5.00	<5.00
3. Bromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
4. Chloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
5. Trichlorofluoromethane	<5.00	<5.00	<5.00	<5.00	<5.00
6. 1,1-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
7. Acetone	<100.00	<100.00	<100.00	<100.00	<100.00
8. Iodomethane	<10.00	<10.00	<10.00	<10.00	<10.00
9. Carbon Disulfide	<100.00	<100.00	<100.00	<100.00	<100.00
10. Methylene Chloride	<5.00	<5.00	<5.00	<5.00	<5.00
11. trans-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
12. 1,1-Dichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
13. Vinyl Acetate	<50.00	<50.00	<50.00	<50.00	<50.00
14. Cis-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
15. 2-Butanone	<100.00	<100.00	<100.00	<100.00	<100.00
16. Bromochloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
17. Chloroform	<5.00	<5.00	<5.00	<5.00	<5.00
18. 1,1,1-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
19. Carbon Tetrachloride	<5.00	<5.00	<5.00	<5.00	<5.00
20. Benzene	<3.00	<3.00	<3.00	<3.00	<3.00
21. 1,2-Dichloroethane	<3.00	<3.00	<3.00	<3.00	<3.00
22. Trichloroethene	<3.00	<3.00	<3.00	<3.00	<3.00
23. 1,2-Dichloropropane	<3.00	<3.00	<3.00	<3.00	<3.00
24. Bromodichloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
25. Cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00
26. 4-Methyl-2-Pentanone	<100.00	<100.00	<100.00	<100.00	<100.00
27. Toluene	<5.00	<5.00	<5.00	<5.00	<5.00
28. trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00
29. 1,1,2-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
30. Tetrachloroethene	<3.00	<3.00	<3.00	<3.00	<3.00
31. 2-Hexanone	<50.00	<50.00	<50.00	<50.00	<50.00
32. Dibromochloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
33. 1,2-Dibromoethane	<3.00	<3.00	<3.00	<3.00	<3.00
34. Chlorobenzene	<3.00	<3.00	<3.00	<3.00	<3.00
35. 1,1,1,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
36. Ethylbenzene	<5.00	<5.00	<5.00	<5.00	<5.00
37. Xylenes	<4.00	<4.00	<4.00	<4.00	<4.00
38. Dibromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
39. Styrene	<10.00	<10.00	<10.00	<10.00	<10.00
40. Bromoform	<3.00	<3.00	<3.00	<3.00	<3.00
41. 1,1,2,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
42. 1,2,3-Trichloropropane	<8.00	<8.00	<8.00	<8.00	<8.00
43. 1,4-Dichlorobenzene	<3.00	<3.00	<3.00	<3.00	<3.00
44. 1,2-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00
45. 1,2-Dibromo-3-Chloropropane	<13.00	<13.00	<13.00	<13.00	<13.00
46. Acrylonitrile	<200.00	<200.00	<200.00	<200.00	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00	<100.00	<100.00	<100.00	<100.00

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: 04/26/07
DATE ANALYZED: 05/09/07
DATE REPORTED: 05/14/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B
METHOD BLANK RESULTS

PARAMETERS	Concentration (Ug/l)
1. Chloromethane	<10.00
2. Vinyl Chloride	<10.00
3. Bromomethane	<10.00
4. Chloroethane	<10.00
5. Trichlorofluoromethane	<5.00
6. 1,1-Dichloroethene	<5.00
7. Acetone	<100.00
8. Iodomethane	<10.00
9. Carbon Disulfide	<100.00
10. Methylene Chloride	<10.00
11. trans-1,2-Dichloroethene	<5.00
12. 1,1-Dichloroethane	<5.00
13. Vinyl Acetate	<50.00
14. cis-1,2-Dichloroethene	<5.00
15. 2-Butanone	<100.00
16. Bromochloromethane	<5.00
17. Chloroform	<5.00
18. 1,1,1-Trichloroethane	<5.00
19. Carbon Tetrachloride	<10.00
20. Benzene	<5.00
21. 1,2-Dichloroethane	<5.00
22. Trichloroethene	<5.00
23. 1,2-Dichloropropane	<5.00
24. Bromodichloromethane	<5.00
25. cis-1,3-Dichloropropene	<10.00
26. 4-methyl-2-Pentanone	<100.00
27. Toluene	<5.00
28. trans-1,3-Dichloropropene	<10.00
29. 1,1,2-Trichloroethane	<5.00
30. Tetrachloroethene	<5.00
31. 2-Hexanone	<50.00
32. Dibromochloromethane	<5.00
33. 1,2-Dibromoethane	<5.00
34. Chlorobenzene	<5.00
35. 1,1,1,2-Tetrachloroethane	<5.00
36. Ethylbenzene	<5.00
37. Xylenes	<5.00
38. Dibromomethane	<10.00
39. Styrene	<10.00
40. Bromoform	<5.00
41. 1,1,2,2-Tetrachloroethane	<5.00
42. 1,2,3-Trichloropropane	<15.00
43. 1,4-Dichlorobenzene	<5.00
44. 1,2-Dichlorobenzene	<5.00
45. 1,2-Dibromo-3-Chloropropane	<25.00
46. Acrylonitrile	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00

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: 04/26/07
DATE ANALYZED: 05/09/07
DATE REPORTED: 05/14/07

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	107	101
Laboratory Control std.	70-130	119	110	101
Method Blank	70-130	106	95.4	93.5
Leachate Storage 1S	70-130	112	102	98.3
Leachate Storage 1D	70-130	112	96.9	94.9
Leachate Storage 2S	70-130	105	92.3	90.9
Leachate Storage 3S	70-130	110	97.7	9.36
Leachate Storage 4S	70-130	112	100	100
Leachate Storage 5S	70-130	115	101	99.2
Leachate Storage 5D	70-130	114	99.4	48.2
Leachate Storage 6S	70-130	112	97.0	95.7
Equipment Blank	70-130	106	92.4	91.7
Trip Blank	70-130	117	103	102
Leachate Storage 1S M.S.	70-130	112	104	94.5
Leachate Storage 1S M.S.D.	70-130	107	102	92.9

Environment 1, Incorporated

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

ANALYST: MO
DATE COLLECTED: 04/26/07
DATE ANALYZED: 05/09/07
DATE REPORTED: 05/14/07

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	50.0	<5.00	44.78	89.6	46.83	93.7	4.5
Benzene	50.0	<5.00	54.92	110	53.84	108	2.0
Trichloroethene	50.0	<5.00	55.27	111	55.49	111	0.4
Toluene	50.0	<5.00	49.38	98.8	50.20	100	1.6
Chlorobenzene	50.0	<5.00	49.73	99.5	50.55	101	1.6

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	50.0	50.48	101
Benzene	50.0	57.92	116
Trichloroethene	50.0	61.29	123
Toluene	50.0	53.34	107
Chlorobenzene	50.0	53.95	108

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:** 16

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 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	B	A	A	A		E	E	E
Leachate Storage 1S	04 26 07	1135		16	6	G	G	G	G	G	G	G	G	G
Leachate Storage 1D	04 26 07	1145		18	5	G	G	G	G	G	G	G	G	
Leachate Storage 2S	04 26 07	1125		16	5	G	G	G	G	G	G	G	G	
Leachate Storage 2D	04 26 07				2						G			
Leachate Storage 3S	04 26 07	1055		16	5	G	G	G	G	G	G	G	G	
Leachate Storage 3D	04 26 07				2						G			
Leachate Storage 4S	04 26 07	1110		16	5	G	G	G	G	G	G	G	G	
Leachate Storage 4D	04 26 07				1						G			
Leachate Storage 5S	04 26 07	1205		17	5	G	G	G	G	G	G	G	G	
Leachate Storage 5D	04 26 07	1215		18	5	G	G	G	G	G	G	G	G	
Leachate Storage 6S	04 26 07	1300		17	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 Bogel Fot

SAMPLES RECEIVED IN LAB AT 10 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Bogel	04 26 07	Anthony Fadler	4/26/07 4:00
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are 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.

№ 144490

FORM #5

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:** 16

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 ☐ _____

PARAMETERS	Field pH	Metals	Turbidity	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
CHLORINE NEUTRALIZED AT COLLECTION									
pH CHECK (LAB)		Lo					02	DD	
CONTAINER TYPE, P/G	P	P	P	P	P		G	G	G
CHEMICAL PRESERVATION	A	B	A	A	A		E	E	E

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

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/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
Leachate Storage 6D	04 26 07				2						G			
Equipment Blank	04 26 07				3		G					G	G	
Trip Blank					2							G	G	

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 Hoge / Fox

SAMPLES RECEIVED IN LAB AT 1.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Hoge	04 26 07	Anthony Sadler	4/26/07 4:00
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are 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.

№ 144489

FORM #5

Environment 1, Incorporated

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

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

RECEIVED MAY 22

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6035 A

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

DATE COLLECTED: 04/26/07
DATE REPORTED : 05/18/07

REVIEWED BY:

PARAMETERS	Regional Landfill 1S	Regional Landfill 1D	Regional Land. 2-D-A	Regional Landfill 3S	Regional Landfill 3D	Analysis Date	Analyst	Method Code
PH (field measurement), Units	4.9	6.1		6.2	6.7	04/26/07	RJH	SM4500HB
Antimony, ug/l	<6.0	<6.0		<6.0	<6.0	05/08/07	CMF	EPA200.8
Arsenic, ug/l	< 10	< 10		< 10	< 10	05/08/07	CMF	EPA200.8
Barium, ug/l	< 100	< 100		< 100	< 100	05/08/07	CMF	EPA200.8
Beryllium, ug/l	<1.0	<1.0		<1.0	<1.0	05/08/07	CMF	EPA200.8
Cadmium, ug/l	<1.0	<1.0		<1.0	<1.0	05/08/07	CMF	EPA200.8
Cobalt, ug/l	< 10	< 10		< 10	< 10	05/08/07	CMF	EPA200.8
Copper, ug/l	< 10	< 10		< 10	< 10	05/08/07	CMF	EPA200.8
Total Chromium, ug/l	< 10	< 10		< 10	< 10	05/08/07	CMF	EPA200.8
Lead, ug/l	< 10	< 10		< 10	< 10	05/08/07	CMF	EPA200.8
Nickel, ug/l	< 50	< 50		< 50	< 50	05/08/07	CMF	EPA200.8
Selenium, ug/l	< 10	< 10		< 10	< 10	05/08/07	CMF	EPA200.8
Silver, ug/l	< 10	< 10		< 10	< 10	05/08/07	CMF	EPA200.8
Thallium, ug/l	<5.0	<5.0		<5.0	<5.0	05/08/07	CMF	EPA200.8
Vanadium, ug/l	< 25	< 25		< 25	< 25	05/08/07	CMF	EPA200.8
Zinc, ug/l	< 10	< 10		< 10	< 10	05/08/07	CMF	EPA200.8
Turbidity, NTU	7.0	4.0		22	160	04/27/07	MDM	SM2130B
Conductivity (at 25c), uMhos	103	155		850	721	04/26/07	RJH	SM2510B
Temperature, °C	16	17		17	18	04/26/07	RJH	SM2550B
Static Water Level, feet	5.55	10.75	11.73	9.17	10.80	04/26/07	RJH	
Well Depth, feet	17.72	43.96	31.17	16.34	38.50	04/26/07	RJH	

Environment 1, Incorporated

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

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

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6035 A

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

DATE COLLECTED: 04/26/07
DATE REPORTED : 05/18/07

REVIEWED BY:

PARAMETERS	Regional Landfill 4S	Regional Landfill 4D	Regional Landfill 5S	Regional Landfill 5D	MW-A Analysis	Date	Analyst	Method Code
PH (field measurement), Units	5.4	6.9	6.1		5.0	04/26/07	RJH	SM4500HB
Antimony, ug/l	<6.0	<6.0	<6.0		<6.0	05/08/07	CMF	EPA200.8
Arsenic, ug/l	< 10	< 10	< 10		< 10	05/08/07	CMF	EPA200.8
Barium, ug/l	113	< 100	< 100		< 100	05/08/07	CMF	EPA200.8
Beryllium, ug/l	<1.0	<1.0	<1.0		<1.0	05/08/07	CMF	EPA200.8
Cadmium, ug/l	<1.0	<1.0	<1.0		<1.0	05/08/07	CMF	EPA200.8
Cobalt, ug/l	< 10	< 10	< 10		< 10	05/08/07	CMF	EPA200.8
Copper, ug/l	< 10	< 10	< 10		< 10	05/08/07	CMF	EPA200.8
Total Chromium, ug/l	< 10	< 10	< 10		< 10	05/08/07	CMF	EPA200.8
Lead, ug/l	< 10	< 10	< 10		< 10	05/08/07	CMF	EPA200.8
Nickel, ug/l	< 50	< 50	< 50		< 50	05/08/07	CMF	EPA200.8
Selenium, ug/l	< 10	< 10	< 10		< 10	05/08/07	CMF	EPA200.8
Silver, ug/l	< 10	< 10	< 10		< 10	05/08/07	CMF	EPA200.8
Thallium, ug/l	<5.0	<5.0	<5.0		<5.0	05/08/07	CMF	EPA200.8
Vanadium, ug/l	< 25	< 25	< 25		< 25	05/08/07	CMF	EPA200.8
Zinc, ug/l	< 10	< 10	30		< 10	05/08/07	CMF	EPA200.8
Turbidity, NTU	200	200	90		25	04/27/07	MDM	SM2130B
Conductivity (at 25c), uMhos	287	536	1287		75	04/26/07	RJH	SM2510B
Temperature, °C	16	18	17		17	04/26/07	RJH	SM2550B
Static Water Level, feet	8.02	10.13	8.70	10.00	5.75	04/26/07	RJH	
Well Depth, feet	14.98	34.19	14.61	35.51	20.46	04/26/07	RJH	
Zinc, Total Dissolved, ug/l			19			05/08/07	CMF	EPA200.8

Environment 1, Incorporated

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

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

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6035 A

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

DATE COLLECTED: 04/26/07
DATE REPORTED : 05/18/07

REVIEWED BY:

PARAMETERS	Piezometer #1	Trip Blank	Analysis Date	Analyst	Method Code
Static Water Level, feet	8.72		04/26/07	RJH	

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: 04/26/07
DATE ANALYZED: 05/07/07
DATE REPORTED: 05/18/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	Regional Landfill 1S	Regional Landfill 1D	Regional Landfill 3S	Regional Landfill 3D	Regional Landfill 4S
1. Chloromethane	<5.00	<5.00	<5.00	<5.00	<5.00
2. Vinyl Chloride	<5.00	<5.00	<5.00	<5.00	<5.00
3. Bromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
4. Chloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
5. Trichlorofluoromethane	<5.00	<5.00	<5.00	<5.00	<5.00
6. 1,1-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
7. Acetone	<100.00	<100.00	<100.00	<100.00	<100.00
8. Iodomethane	<10.00	<10.00	<10.00	<10.00	<10.00
9. Carbon Disulfide	<100.00	<100.00	<100.00	<100.00	<100.00
10. Methylene Chloride	<5.00	<5.00	<5.00	<5.00	<5.00
11. trans-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
12. 1,1-Dichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
13. Vinyl Acetate	<50.00	<50.00	<50.00	<50.00	<50.00
14. Cis-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
15. 2-Butanone	<100.00	<100.00	<100.00	<100.00	<100.00
16. Bromochloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
17. Chloroform	<5.00	<5.00	<5.00	<5.00	<5.00
18. 1,1,1-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
19. Carbon Tetrachloride	<5.00	<5.00	<5.00	<5.00	<5.00
20. Benzene	<3.00	<3.00	<3.00	<3.00	<3.00
21. 1,2-Dichloroethane	<3.00	<3.00	<3.00	<3.00	<3.00
22. Trichloroethene	<3.00	<3.00	<3.00	<3.00	<3.00
23. 1,2-Dichloropropane	<3.00	<3.00	<3.00	<3.00	<3.00
24. Bromodichloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
25. Cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00
26. 4-Methyl-2-Pentanone	<100.00	<100.00	<100.00	<100.00	<100.00
27. Toluene	<5.00	<5.00	<5.00	<5.00	<5.00
28. trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00
29. 1,1,2-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
30. Tetrachloroethene	<3.00	<3.00	<3.00	<3.00	<3.00
31. 2-Hexanone	<50.00	<50.00	<50.00	<50.00	<50.00
32. Dibromochloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
33. 1,2-Dibromoethane	<3.00	<3.00	<3.00	<3.00	<3.00
34. Chlorobenzene	<3.00	<3.00	<3.00	<3.00	<3.00
35. 1,1,1,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
36. Ethylbenzene	<5.00	<5.00	<5.00	<5.00	<5.00
37. Xylenes	<4.00	<4.00	<4.00	<4.00	<4.00
38. Dibromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
39. Styrene	<10.00	<10.00	<10.00	<10.00	<10.00
40. Bromoform	<3.00	<3.00	<3.00	<3.00	<3.00
41. 1,1,2,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
42. 1,2,3-Trichloropropane	<8.00	<8.00	<8.00	<8.00	<8.00
43. 1,4-Dichlorobenzene	<3.00	<3.00	<3.00	<3.00	<3.00
44. 1,2-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00
45. 1,2-Dibromo-3-Chloropropane	<13.00	<13.00	<13.00	<13.00	<13.00
46. Acrylonitrile	<200.00	<200.00	<200.00	<200.00	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00	<100.00	<100.00	<100.00	<100.00

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: 04/26/07
DATE ANALYZED: 05/07/07
DATE REPORTED: 05/18/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	Regional Landfill 4D	Regional Landfill 5S	MW-A	Trip Blank
1. Chloromethane	<5.00	<5.00	<5.00	<5.00
2. Vinyl Chloride	<5.00	<5.00	<5.00	<5.00
3. Bromomethane	<10.00	<10.00	<10.00	<10.00
4. Chloroethane	<5.00	<5.00	<5.00	<5.00
5. Trichlorofluoromethane	<5.00	<5.00	<5.00	<5.00
6. 1,1-Dichloroethene	<5.00	<5.00	<5.00	<5.00
7. Acetone	<100.00	<100.00	<100.00	<100.00
8. Iodomethane	<10.00	<10.00	<10.00	<10.00
9. Carbon Disulfide	<100.00	<100.00	<100.00	<100.00
10. Methylene Chloride	<5.00	<5.00	<5.00	<5.00
11. trans-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00
12. 1,1-Dichloroethane	<5.00	<5.00	<5.00	<5.00
13. Vinyl Acetate	<50.00	<50.00	<50.00	<50.00
14. Cis-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00
15. 2-Butanone	<100.00	<100.00	<100.00	<100.00
16. Bromochloromethane	<3.00	<3.00	<3.00	<3.00
17. Chloroform	<5.00	<5.00	<5.00	<5.00
18. 1,1,1-Trichloroethane	<5.00	<5.00	<5.00	<5.00
19. Carbon Tetrachloride	<5.00	<5.00	<5.00	<5.00
20. Benzene	<3.00	<3.00	<3.00	<3.00
21. 1,2-Dichloroethane	<3.00	<3.00	<3.00	<3.00
22. Trichloroethene	<3.00	<3.00	<3.00	<3.00
23. 1,2-Dichloropropane	<3.00	<3.00	<3.00	<3.00
24. Bromodichloromethane	<3.00	<3.00	<3.00	<3.00
25. Cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00
26. 4-Methyl-2-Pentanone	<100.00	<100.00	<100.00	<100.00
27. Toluene	<5.00	<5.00	<5.00	<5.00
28. trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00
29. 1,1,2-Trichloroethane	<5.00	<5.00	<5.00	<5.00
30. Tetrachloroethene	<3.00	<3.00	<3.00	<3.00
31. 2-Hexanone	<50.00	<50.00	<50.00	<50.00
32. Dibromochloromethane	<3.00	<3.00	<3.00	<3.00
33. 1,2-Dibromoethane	<3.00	<3.00	<3.00	<3.00
34. Chlorobenzene	<3.00	<3.00	<3.00	<3.00
35. 1,1,1,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00
36. Ethylbenzene	<5.00	<5.00	<5.00	<5.00
37. Xylenes	<4.00	<4.00	<4.00	<4.00
38. Dibromomethane	<10.00	<10.00	<10.00	<10.00
39. Styrene	<10.00	<10.00	<10.00	<10.00
40. Bromoform	<3.00	<3.00	<3.00	<3.00
41. 1,1,2,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00
42. 1,2,3-Trichloropropane	<8.00	<8.00	<8.00	<8.00
43. 1,4-Dichlorobenzene	<3.00	<3.00	<3.00	<3.00
44. 1,2-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00
45. 1,2-Dibromo-3-Chloropropane	<13.00	<13.00	<13.00	<13.00
46. Acrylonitrile	<200.00	<200.00	<200.00	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00	<100.00	<100.00	<100.00

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: 04/26/07
DATE ANALYZED: 05/07/07
DATE REPORTED: 05/14/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B
METHOD BLANK RESULTS

PARAMETERS	Concentration (Ug/l)
1. Chloromethane	<10.00
2. Vinyl Chloride	<10.00
3. Bromomethane	<10.00
4. Chloroethane	<10.00
5. Trichlorofluoromethane	<5.00
6. 1,1-Dichloroethene	<5.00
7. Acetone	<100.00
8. Iodomethane	<10.00
9. Carbon Disulfide	<100.00
10. Methylene Chloride	<10.00
11. trans-1,2-Dichloroethene	<5.00
12. 1,1-Dichloroethane	<5.00
13. Vinyl Acetate	<50.00
14. cis-1,2-Dichloroethene	<5.00
15. 2-Butanone	<100.00
16. Bromochloromethane	<5.00
17. Chloroform	<5.00
18. 1,1,1-Trichloroethane	<5.00
19. Carbon Tetrachloride	<10.00
20. Benzene	<5.00
21. 1,2-Dichloroethane	<5.00
22. Trichloroethene	<5.00
23. 1,2-Dichloropropane	<5.00
24. Bromodichloromethane	<5.00
25. cis-1,3-Dichloropropene	<10.00
26. 4-methyl-2-Pentanone	<100.00
27. Toluene	<5.00
28. trans-1,3-Dichloropropene	<10.00
29. 1,1,2-Trichloroethane	<5.00
30. Tetrachloroethene	<5.00
31. 2-Hexanone	<50.00
32. Dibromochloromethane	<5.00
33. 1,2-Dibromoethane	<5.00
34. Chlorobenzene	<5.00
35. 1,1,1,2-Tetrachloroethane	<5.00
36. Ethylbenzene	<5.00
37. Xylenes	<5.00
38. Dibromomethane	<10.00
39. Styrene	<10.00
40. Bromoform	<5.00
41. 1,1,2,2-Tetrachloroethane	<5.00
42. 1,2,3-Trichloropropane	<15.00
43. 1,4-Dichlorobenzene	<5.00
44. 1,2-Dichlorobenzene	<5.00
45. 1,2-Dibromo-3-Chloropropane	<25.00
46. Acrylonitrile	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00

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: 04/26/07
DATE ANALYZED: 05/07/07
DATE REPORTED: 05/14/07

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	102	102
Laboratory Control std.	70-130	107	103	98.4
Method Blank	70-130	104	93.3	97.6
Regional Landfill 1S	70-130	108	98.6	102
Regional Landfill 1D	70-130	111	99.5	103
Regional Landfill 3S	70-130	110	99.9	103
Regional Landfill 3D	70-130	113	100	103
Regional Landfill 4S	70-130	109	98.3	51.2
Regional Landfill 4D	70-130	108	97.3	101
Regional Landfill 5S	70-130	115	105	107
Monitoring Well A	70-130	105	94.8	101
Trip Blank	70-130	117	105	107
Regional Landfill 1S M.S.	70-130	107	104	101
Regional Landfill 1S M.S.D.	70-130	107	104	99.6

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: 04/26/07
DATE ANALYZED: 05/07/07
DATE REPORTED: 05/14/07

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	50.0	<5.00	42.08	84.2	41.59	83.2	1.2
Benzene	50.0	<5.00	52.02	104	52.37	105	0.7
Trichloroethene	50.0	<5.00	53.70	107	53.71	107	0.0
Toluene	50.0	<5.00	49.63	99.3	49.15	98.3	1.0
Chlorobenzene	50.0	<5.00	49.91	99.8	49.66	99.3	0.5

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	50.0	41.95	83.9
Benzene	50.0	52.10	104
Trichloroethene	50.0	54.86	110
Toluene	50.0	48.47	96.9
Chlorobenzene	50.0	49.31	98.6

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 A **Week:** 16

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 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
CHLORINE NEUTRALIZED AT COLLECTION															
pH CHECK (LAB)							L2						L2	L2	L2
CONTAINER TYPE, P/G						P	P	P	P	P		P	G	G	G
CHEMICAL PRESERVATION						A	B	A	A	A		A	E	E	E
Regional Landfill 1S	04 26 07	1235		16	6	G	G	G	G	G	G		G	G	G
Regional Landfill 1D	04 26 07	1245		17	5	G	G	G	G	G	G		G	G	
Regional Land. 2-D-A	04 26 07				1						G				
Regional Landfill 3S	04 26 07	1420		17	5	G	G	G	G	G	G		G	G	
Regional Landfill 3D	04 26 07	1435		18	5	G	G	G	G	G	G		G	G	
Regional Landfill 4S	04 26 07	1350		16	5	G	G	G	G	G	G		G	G	
Regional Landfill 4D	04 26 07	1405		18	5	G	G	G	G	G	G		G	G	
Regional Landfill 5S	04 26 07	1335		17	7	G	G	G	G	G	G	G	G	G	G
Regional Landfill 5D	04 26 07				2						G				
MW-A	04 26 07	1315		17	5	G	G	G	G	G	G		G	G	
Piezometer #1	04 26 07				1						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 Gore / Fot

SAMPLES RECEIVED IN LAB AT 1.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
H Gore	04 26 07	[signature]	4/26/07 5:00
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are 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.

№ 144488

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: 16**

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 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
CHLORINE NEUTRALIZED AT COLLECTION															
pH CHECK (LAB)															
CONTAINER TYPE, P/G						P	P	P	P	P		P	G	G	G
CHEMICAL PRESERVATION						A	B	A	A	A		A	E	E	E
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
- [x] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY: (Please Print)
Bob Hogan

SAMPLES RECEIVED IN LAB AT 1.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Hogan	04 26 07	Anthony Clark	4/26/07 4:00
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are 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.

№ 144487

FORM #5

Environment 1, Incorporated

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

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

RECEIVED MAY 2 2 2007

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6035 B

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

DATE COLLECTED: 04/26/07
DATE REPORTED : 05/18/07

REVIEWED BY:

PARAMETERS	SW-1	SW-2	Under Drain	Analysis Date	Analyst	Method Code
PH (field measurement), Units	7.3	8.8	7.5	04/26/07	RJH	SM4500HB
Antimony, ug/l	<6.0	<6.0	<6.0	05/08/07	CMF	EPA200.8
Arsenic, ug/l	< 10	< 10	< 10	05/08/07	CMF	EPA200.8
Barium, ug/l	< 100	< 100	< 100	05/08/07	CMF	EPA200.8
Beryllium, ug/l	<1.0	<1.0	<1.0	05/08/07	CMF	EPA200.8
Cadmium, ug/l	<1.0	<1.0	<1.0	05/08/07	CMF	EPA200.8
Cobalt, ug/l	< 10	< 10	< 10	05/08/07	CMF	EPA200.8
Copper, ug/l	< 10	< 10	< 10	05/08/07	CMF	EPA200.8
Total Chromium, ug/l	< 10	< 10	< 10	05/08/07	CMF	EPA200.8
Lead, ug/l	< 10	< 10	< 10	05/08/07	CMF	EPA200.8
Nickel, ug/l	< 50	< 50	< 50	05/08/07	CMF	EPA200.8
Selenium, ug/l	< 10	< 10	< 10	05/08/07	CMF	EPA200.8
Silver, ug/l	< 10	< 10	< 10	05/08/07	CMF	EPA200.8
Thallium, ug/l	<5.0	<5.0	<5.0	05/08/07	CMF	EPA200.8
Vanadium, ug/l	< 25	< 25	< 25	05/08/07	CMF	EPA200.8
Zinc, ug/l	45	< 10	17	05/08/07	CMF	EPA200.8
Turbidity, NTU	50	80	31	04/27/07	MDM	SM2130B
Conductivity (at 25c), uMhos	517	758	837	04/26/07	RJH	SM2510B
Temperature, °C	19	29	20	04/26/07	RJH	SM2550B

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: 04/26/07
DATE ANALYZED: 05/09/07
DATE REPORTED: 05/18/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	SW-1	SW-2	Under Drain
1. Chloromethane	<5.00	<5.00	<5.00
2. Vinyl Chloride	<5.00	<5.00	<5.00
3. Bromomethane	<10.00	<10.00	<10.00
4. Chloroethane	<5.00	<5.00	<5.00
5. Trichlorofluoromethane	<5.00	<5.00	<5.00
6. 1,1-Dichloroethene	<5.00	<5.00	<5.00
7. Acetone	<100.00	<100.00	<100.00
8. Iodomethane	<10.00	<10.00	<10.00
9. Carbon Disulfide	<100.00	<100.00	<100.00
10. Methylene Chloride	<5.00	<5.00	<5.00
11. trans-1,2-Dichloroethene	<5.00	<5.00	<5.00
12. 1,1-Dichloroethane	<5.00	<5.00	<5.00
13. Vinyl Acetate	<50.00	<50.00	<50.00
14. Cis-1,2-Dichloroethene	<5.00	<5.00	<5.00
15. 2-Butanone	<100.00	<100.00	<100.00
16. Bromochloromethane	<3.00	<3.00	<3.00
17. Chloroform	<5.00	<5.00	<5.00
18. 1,1,1-Trichloroethane	<5.00	<5.00	<5.00
19. Carbon Tetrachloride	<5.00	<5.00	<5.00
20. Benzene	<3.00	<3.00	<3.00
21. 1,2-Dichloroethane	<3.00	<3.00	<3.00
22. Trichloroethene	<3.00	<3.00	<3.00
23. 1,2-Dichloropropane	<3.00	<3.00	<3.00
24. Bromodichloromethane	<3.00	<3.00	<3.00
25. Cis-1,3-Dichloropropene	<5.00	<5.00	<5.00
26. 4-Methyl-2-Pentanone	<100.00	<100.00	<100.00
27. Toluene	<5.00	<5.00	<5.00
28. trans-1,3-Dichloropropene	<5.00	<5.00	<5.00
29. 1,1,2-Trichloroethane	<5.00	<5.00	<5.00
30. Tetrachloroethene	<3.00	<3.00	<3.00
31. 2-Hexanone	<50.00	<50.00	<50.00
32. Dibromochloromethane	<3.00	<3.00	<3.00
33. 1,2-Dibromoethane	<3.00	<3.00	<3.00
34. Chlorobenzene	<3.00	<3.00	<3.00
35. 1,1,1,2-Tetrachloroethane	<5.00	<5.00	<5.00
36. Ethylbenzene	<5.00	<5.00	<5.00
37. Xylenes	<4.00	<4.00	<4.00
38. Dibromomethane	<10.00	<10.00	<10.00
39. Styrene	<10.00	<10.00	<10.00
40. Bromoform	<3.00	<3.00	<3.00
41. 1,1,2,2-Tetrachloroethane	<5.00	<5.00	<5.00
42. 1,2,3-Trichloropropane	<8.00	<8.00	<8.00
43. 1,4-Dichlorobenzene	<3.00	<3.00	<3.00
44. 1,2-Dichlorobenzene	<5.00	<5.00	<5.00
45. 1,2-Dibromo-3-Chloropropane	<13.00	<13.00	<13.00
46. Acrylonitrile	<200.00	<200.00	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00	<100.00	<100.00

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: 04/26/07
DATE ANALYZED: 05/09/07
DATE REPORTED: 05/14/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B
METHOD BLANK RESULTS

PARAMETERS	Concentration (Ug/l)
1. Chloromethane	<10.00
2. Vinyl Chloride	<10.00
3. Bromomethane	<10.00
4. Chloroethane	<10.00
5. Trichlorofluoromethane	<5.00
6. 1,1-Dichloroethene	<5.00
7. Acetone	<100.00
8. Iodomethane	<10.00
9. Carbon Disulfide	<100.00
10. Methylene Chloride	<10.00
11. trans-1,2-Dichloroethene	<5.00
12. 1,1-Dichloroethane	<5.00
13. Vinyl Acetate	<50.00
14. cis-1,2-Dichloroethene	<5.00
15. 2-Butanone	<100.00
16. Bromochloromethane	<5.00
17. Chloroform	<5.00
18. 1,1,1-Trichloroethane	<5.00
19. Carbon Tetrachloride	<10.00
20. Benzene	<5.00
21. 1,2-Dichloroethane	<5.00
22. Trichloroethene	<5.00
23. 1,2-Dichloropropane	<5.00
24. Bromodichloromethane	<5.00
25. cis-1,3-Dichloropropene	<10.00
26. 4-methyl-2-Pentanone	<100.00
27. Toluene	<5.00
28. trans-1,3-Dichloropropene	<10.00
29. 1,1,2-Trichloroethane	<5.00
30. Tetrachloroethene	<5.00
31. 2-Hexanone	<50.00
32. Dibromochloromethane	<5.00
33. 1,2-Dibromoethane	<5.00
34. Chlorobenzene	<5.00
35. 1,1,1,2-Tetrachloroethane	<5.00
36. Ethylbenzene	<5.00
37. Xylenes	<5.00
38. Dibromomethane	<10.00
39. Styrene	<10.00
40. Bromoform	<5.00
41. 1,1,2,2-Tetrachloroethane	<5.00
42. 1,2,3-Trichloropropane	<15.00
43. 1,4-Dichlorobenzene	<5.00
44. 1,2-Dichlorobenzene	<5.00
45. 1,2-Dibromo-3-Chloropropane	<25.00
46. Acrylonitrile	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00

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: 04/26/07
DATE ANALYZED: 05/09/07
DATE REPORTED: 05/14/07

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	107	101
Laboratory Control std.	70-130	119	110	101
Method Blank	70-130	106	95.4	93.5
Surface Water #1	70-130	116	100	97.8
Surface Water #2	70-130	113	97.5	93.9
Under Drain	70-130	112	96.8	94.2
Monitoring Well #7 M.S	70-130	112	104	94.5
Monitoring Well #7 M.S.D.	70-130	107	102	92.9

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 B

ANALYST: MO
DATE COLLECTED: 04/26/07
DATE ANALYZED: 05/09/07
DATE REPORTED: 05/14/07

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	50.0	<5.00	44.78	89.6	46.83	93.7	4.5
Benzene	50.0	<5.00	54.92	110	53.84	108	2.0
Trichloroethene	50.0	<5.00	55.27	111	55.49	111	0.4
Toluene	50.0	<5.00	49.38	98.8	50.20	100	1.6
Chlorobenzene	50.0	<5.00	49.73	99.5	50.55	101	1.6

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	50.0	50.48	101
Benzene	50.0	57.92	116
Trichloroethene	50.0	61.29	123
Toluene	50.0	53.34	107
Chlorobenzene	50.0	53.95	108

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: 16**

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 AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	EPA 8260B	8260 Dup. 1
							Lab				242	
CONTAINER TYPE, P/G						P	P	P	P	P	G	G
CHEMICAL PRESERVATION						A	B	A	A	A	E	E
SW-1	04 26 07	1430		19	5	G	G	G	G	G	G	G
SW-2	04 26 07	1325		29	5	G	G	G	G	G	G	G
Under Drain	04 26 07	0905		20	5	G	G	G	G	G	G	G

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

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
- [x] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY: (Please Print) Bob Hogue / Fot

SAMPLES RECEIVED IN LAB AT 1-6 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Hogue	04 26 07	Anita Gadh	4/26/07 4:00
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are 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.

№ 144486

FORM #5

Environment 1, Incorporated

RECEIVED [illegible] 22 2007

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

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

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6035 D

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

DATE COLLECTED: 04/26/07
DATE REPORTED : 05/18/07

REVIEWED BY:

PARAMETERS	MW-7	MW-8	MW-9	MW-10	MW-11S	Analysis Date	Analyst	Method Code
PH (field measurement), Units	6.1	5.0	Missing	5.3	4.6	04/26/07	RJH	SM4500HB
Antimony, ug/l	<6.0	<6.0	Missing	<6.0	<6.0	05/08/07	CMF	EPA200.8
Arsenic, ug/l	< 10	< 10	Missing	< 10	< 10	05/08/07	CMF	EPA200.8
Barium, ug/l	< 100	< 100	Missing	< 100	< 100	05/08/07	CMF	EPA200.8
Beryllium, ug/l	<1.0	<1.0	Missing	<1.0	<1.0	05/08/07	CMF	EPA200.8
Cadmium, ug/l	<1.0	<1.0	Missing	<1.0	<1.0	05/08/07	CMF	EPA200.8
Cobalt, ug/l	< 10	< 10	Missing	< 10	< 10	05/08/07	CMF	EPA200.8
Copper, ug/l	< 10	< 10	Missing	< 10	< 10	05/08/07	CMF	EPA200.8
Total Chromium, ug/l	< 10	< 10	Missing	< 10	< 10	05/08/07	CMF	EPA200.8
Lead, ug/l	< 10	< 10	Missing	< 10	< 10	05/08/07	CMF	EPA200.8
Nickel, ug/l	< 50	< 50	Missing	< 50	< 50	05/08/07	CMF	EPA200.8
Selenium, ug/l	< 10	< 10	Missing	< 10	< 10	05/08/07	CMF	EPA200.8
Silver, ug/l	< 10	< 10	Missing	< 10	< 10	05/08/07	CMF	EPA200.8
Thallium, ug/l	<5.0	<5.0	Missing	<5.0	<5.0	05/08/07	CMF	EPA200.8
Vanadium, ug/l	< 25	< 25	Missing	< 25	< 25	05/08/07	CMF	EPA200.8
Zinc, ug/l	13	< 10	Missing	< 10	< 10	05/08/07	CMF	EPA200.8
Turbidity, NTU	95	12	Missing	50	6.6	04/27/07	MDM	SM2130B
Conductivity (at 25c), uMhos	210	69	Missing	143	310	04/26/07	RJH	SM2510B
Temperature, °C	17	17	Missing	15	16	04/26/07	RJH	SM2550B
Static Water Level, feet	3.63	5.28	Missing	3.98	6.61	04/26/07	RJH	
Well Depth, feet	16.59	15.62	Missing	15.95	14.04	04/26/07	RJH	
8260 (Duplicate)			Missing			/ /		

Environment 1, Incorporated

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

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

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6035 D

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

DATE COLLECTED: 04/26/07
DATE REPORTED : 05/18/07

REVIEWED BY:

PARAMETERS	MW-11D	Under Drain #2	Leachate Manhole	Equipment Blank	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units	7.1	6.9	7.4			04/26/07	RJH	SM4500HB
Antimony, ug/l	<6.0					05/08/07	CMF	EPA200.8
Antimony, ug/l		<6.0	7	<6.0		05/10/07	LFJ	EPA200.8
Arsenic, ug/l	< 10	<10	14	<10		05/08/07	CMF	EPA200.8
Barium, ug/l	< 100	< 100	112	< 100		05/08/07	CMF	EPA200.8
Beryllium, ug/l	<1.0					05/08/07	CMF	EPA200.8
Beryllium, ug/l		<1.0	<1.0	<1.0		05/10/07	LFJ	EPA200.8
Cadmium, ug/l	<1.0					05/08/07	CMF	EPA200.8
Cadmium, ug/l		<1.0	<1.0	<1.0		05/10/07	LFJ	EPA200.8
Cobalt, ug/l	< 10					05/08/07	CMF	EPA200.8
Cobalt, ug/l		< 10	< 10	< 10		05/10/07	LFJ	EPA200.8
Copper, ug/l	< 10					05/08/07	CMF	EPA200.8
Copper, ug/l		< 10	< 10	< 10		05/10/07	LFJ	EPA200.8
Total Chromium, ug/l	< 10					05/08/07	CMF	EPA200.8
Total Chromium, ug/l		< 10	< 10	< 10		05/10/07	LFJ	EPA200.8
Lead, ug/l	< 10					05/08/07	CMF	EPA200.8
Lead, ug/l		< 10	< 10	< 10		05/10/07	LFJ	EPA200.8
Nickel, ug/l	< 50					05/08/07	CMF	EPA200.8
Nickel, ug/l		< 50	< 50	< 50		05/10/07	LFJ	EPA200.8
Selenium, ug/l	< 10					05/08/07	CMF	EPA200.8
Selenium, ug/l		< 10	20	< 10		05/10/07	LFJ	EPA200.8
Silver, ug/l	< 10					05/08/07	CMF	EPA200.8
Silver, ug/l		< 10	< 10	< 10		05/10/07	LFJ	EPA200.8
Thallium, ug/l	<5.0					05/08/07	CMF	EPA200.8
Thallium, ug/l		<5.0	<5.0	<5.0		05/10/07	LFJ	EPA200.8
Vanadium, ug/l	< 25					05/08/07	CMF	EPA200.8
Vanadium, ug/l		< 25	< 25	< 25		05/10/07	LFJ	EPA200.8
Zinc, ug/l	< 10	19	22	< 10		05/08/07	CMF	EPA200.8
Turbidity, NTU	90	12	130			04/27/07	MDM	SM2130B
Conductivity (at 25c), uMhos	448	1022	3610			04/26/07	RJH	SM2510B
Temperature, °C	18	17	19			04/26/07	RJH	SM2550B
Static Water Level, feet	7.81					04/26/07	RJH	
Well Depth, feet	34.42					04/26/07	RJH	

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 D

ANALYST: MAO
DATE COLLECTED: 04/26/07
DATE ANALYZED: 05/10/07
DATE REPORTED: 05/18/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MW-7	MW-8	MW-10	MW-11S	MW-11D
1. Chloromethane	<5.00	<5.00	<5.00	<5.00	<5.00
2. Vinyl Chloride	<5.00	<5.00	<5.00	<5.00	<5.00
3. Bromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
4. Chloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
5. Trichlorofluoromethane	<5.00	<5.00	<5.00	<5.00	<5.00
6. 1,1-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
7. Acetone	<100.00	<100.00	<100.00	<100.00	<100.00
8. Iodomethane	<10.00	<10.00	<10.00	<10.00	<10.00
9. Carbon Disulfide	<100.00	<100.00	<100.00	<100.00	<100.00
10. Methylene Chloride	<5.00	<5.00	<5.00	<5.00	<5.00
11. trans-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
12. 1,1-Dichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
13. Vinyl Acetate	<50.00	<50.00	<50.00	<50.00	<50.00
14. Cis-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
15. 2-Butanone	<100.00	<100.00	<100.00	<100.00	<100.00
16. Bromochloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
17. Chloroform	<5.00	<5.00	<5.00	<5.00	<5.00
18. 1,1,1-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
19. Carbon Tetrachloride	<5.00	<5.00	<5.00	<5.00	<5.00
20. Benzene	<3.00	<3.00	<3.00	<3.00	<3.00
21. 1,2-Dichloroethane	<3.00	<3.00	<3.00	<3.00	<3.00
22. Trichloroethene	<3.00	<3.00	<3.00	<3.00	<3.00
23. 1,2-Dichloropropane	<3.00	<3.00	<3.00	<3.00	<3.00
24. Bromodichloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
25. Cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00
26. 4-Methyl-2-Pentanone	<100.00	<100.00	<100.00	<100.00	<100.00
27. Toluene	<5.00	<5.00	<5.00	<5.00	<5.00
28. trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00
29. 1,1,2-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
30. Tetrachloroethene	<3.00	<3.00	<3.00	<3.00	<3.00
31. 2-Hexanone	<50.00	<50.00	<50.00	<50.00	<50.00
32. Dibromochloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
33. 1,2-Dibromoethane	<3.00	<3.00	<3.00	<3.00	<3.00
34. Chlorobenzene	<3.00	<3.00	<3.00	<3.00	<3.00
35. 1,1,1,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
36. Ethylbenzene	<5.00	<5.00	<5.00	<5.00	<5.00
37. Xylenes	<4.00	<4.00	<4.00	<4.00	<4.00
38. Dibromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
39. Styrene	<10.00	<10.00	<10.00	<10.00	<10.00
40. Bromoform	<3.00	<3.00	<3.00	<3.00	<3.00
41. 1,1,2,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
42. 1,2,3-Trichloropropane	<8.00	<8.00	<8.00	<8.00	<8.00
43. 1,4-Dichlorobenzene	<3.00	<3.00	<3.00	<3.00	<3.00
44. 1,2-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00
45. 1,2-Dibromo-3-Chloropropane	<13.00	<13.00	<13.00	<13.00	<13.00
46. Acrylonitrile	<200.00	<200.00	<200.00	<200.00	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00	<100.00	<100.00	<100.00	<100.00

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 D

ANALYST: MAO
DATE COLLECTED: 04/26/07
DATE ANALYZED: 05/10/07
DATE REPORTED: 05/18/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	Under Drain #2	Leachate Manhole	Equipment Blank	Trip Blank
1. Chloromethane	<5.00	<5.00	<5.00	<5.00
2. Vinyl Chloride	<5.00	<5.00	<5.00	<5.00
3. Bromomethane	<10.00	<10.00	<10.00	<10.00
4. Chloroethane	<5.00	<5.00	<5.00	<5.00
5. Trichlorofluoromethane	<5.00	<5.00	<5.00	<5.00
6. 1,1-Dichloroethene	<5.00	<5.00	<5.00	<5.00
7. Acetone	<100.00	<100.00	<100.00	<100.00
8. Iodomethane	<10.00	<10.00	<10.00	<10.00
9. Carbon Disulfide	<100.00	<100.00	<100.00	<100.00
10. Methylene Chloride	<5.00	<5.00	<5.00	<5.00
11. trans-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00
12. 1,1-Dichloroethane	<5.00	<5.00	<5.00	<5.00
13. Vinyl Acetate	<50.00	<50.00	<50.00	<50.00
14. Cis-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00
15. 2-Butanone	<100.00	<100.00	<100.00	<100.00
16. Bromochloromethane	<3.00	<3.00	<3.00	<3.00
17. Chloroform	<5.00	<5.00	<5.00	<5.00
18. 1,1,1-Trichloroethane	<5.00	<5.00	<5.00	<5.00
19. Carbon Tetrachloride	<5.00	<5.00	<5.00	<5.00
20. Benzene	<3.00	<3.00	<3.00	<3.00
21. 1,2-Dichloroethane	<3.00	<3.00	<3.00	<3.00
22. Trichloroethene	<3.00	<3.00	<3.00	<3.00
23. 1,2-Dichloropropane	<3.00	<3.00	<3.00	<3.00
24. Bromodichloromethane	<3.00	<3.00	<3.00	<3.00
25. Cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00
26. 4-Methyl-2-Pentanone	<100.00	<100.00	<100.00	<100.00
27. Toluene	<5.00	5.60	<5.00	<5.00
28. trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00
29. 1,1,2-Trichloroethane	<5.00	<5.00	<5.00	<5.00
30. Tetrachloroethene	<3.00	<3.00	<3.00	<3.00
31. 2-Hexanone	<50.00	<50.00	<50.00	<50.00
32. Dibromochloromethane	<3.00	<3.00	<3.00	<3.00
33. 1,2-Dibromoethane	<3.00	<3.00	<3.00	<3.00
34. Chlorobenzene	<3.00	<3.00	<3.00	<3.00
35. 1,1,1,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00
36. Ethylbenzene	<5.00	9.50	<5.00	<5.00
37. Xylenes	<4.00	37.20	<4.00	<4.00
38. Dibromomethane	<10.00	<10.00	<10.00	<10.00
39. Styrene	<10.00	<10.00	<10.00	<10.00
40. Bromoform	<3.00	<3.00	<3.00	<3.00
41. 1,1,2,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00
42. 1,2,3-Trichloropropane	<8.00	<8.00	<8.00	<8.00
43. 1,4-Dichlorobenzene	<3.00	13.40	<3.00	<3.00
44. 1,2-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00
45. 1,2-Dibromo-3-Chloropropane	<13.00	<13.00	<13.00	<13.00
46. Acrylonitrile	<200.00	<200.00	<200.00	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00	<100.00	<100.00	<100.00

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 D

ANALYST: MO
DATE COLLECTED: 04/26/07
DATE ANALYZED: 05/10/07
DATE REPORTED: 05/17/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B
METHOD BLANK RESULTS

PARAMETERS	Concentration (Ug/l)
1. Chloromethane	<10.00
2. Vinyl Chloride	<10.00
3. Bromomethane	<10.00
4. Chloroethane	<10.00
5. Trichlorofluoromethane	<5.00
-*+6. 1,1-Dichloroethene	<5.00
7. Acetone	<100.00
8. Iodomethane	<10.00
9. Carbon Disulfide	<100.00
10. Methylene Chloride	<10.00
11. trans-1,2-Dichloroethene	<5.00
12. 1,1-Dichloroethane	<5.00
13. Vinyl Acetate	<50.00
14. cis-1,2-Dichloroethene	<5.00
15. 2-Butanone	<100.00
16. Bromochloromethane	<5.00
17. Chloroform	<5.00
18. 1,1,1-Trichloroethane	<5.00
19. Carbon Tetrachloride	<10.00
20. Benzene	<5.00
21. 1,2-Dichloroethane	<5.00
22. Trichloroethene	<5.00
23. 1,2-Dichloropropane	<5.00
24. Bromodichloromethane	<5.00
25. cis-1,3-Dichloropropene	<10.00
26. 4-methyl-2-Pentanone	<100.00
27. Toluene	<5.00
28. trans-1,3-Dichloropropene	<10.00
29. 1,1,2-Trichloroethane	<5.00
30. Tetrachloroethene	<5.00
31. 2-Hexanone	<50.00
32. Dibromochloromethane	<5.00
33. 1,2-Dibromoethane	<5.00
34. Chlorobenzene	<5.00
35. 1,1,1,2-Tetrachloroethane	<5.00
36. Ethylbenzene	<5.00
37. Xylenes	<5.00
38. Dibromomethane	<10.00
39. Styrene	<10.00
40. Bromoform	<5.00
41. 1,1,2,2-Tetrachloroethane	<5.00
42. 1,2,3-Trichloropropane	<15.00
43. 1,4-Dichlorobenzene	<5.00
44. 1,2-Dichlorobenzene	<5.00
45. 1,2-Dibromo-3-Chloropropane	<25.00
46. Acrylonitrile	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00

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 D

ANALYST: MO
DATE COLLECTED: 04/26/07
DATE ANALYZED: 05/10/07
DATE REPORTED: 05/17/07

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	108	98.0	89.9
Laboratory Control std.	70-130	110	103	95.0
Method Blank	70-130	116	104	101
Monitoring Well #7	70-130	110	97.1	93.2
Monitoring Well #8	70-130	105	93.0	93.0
Monitoring Well #10	70-130	115	105	104
Monitoring Well #11S	70-130	112	99.4	96.2
Monitoring Well #11D	70-130	112	97.3	97.6
Under Drain #2	70-130	112	98.3	95.4
Leachate Manhole	70-130	112	97.8	92.7
Equipment Blank	70-130	114	96.3	91.8
Trip Blank	70-130	110	95.1	94.0
Monitoring Well #7 M.S.	70-130	119	107	102
Monitoring Well #7 M.S.D.	70-130	113	105	94.7

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 D

ANALYST: MO
DATE COLLECTED: 04/26/07
DATE ANALYZED: 05/10/07
DATE REPORTED: 05/17/07

REVIEWED BY: _____

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

Sample Spiked: Monitoring Well #7 (6035D)	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	50.0	<5.00	49.01	98.0	47.42	94.8	3.3
Benzene	50.0	<5.00	56.31	113	55.67	111	1.1
Trichloroethene	50.0	<5.00	58.84	118	58.68	117	0.3
Toluene	50.0	<5.00	54.05	108	51.61	103	4.6
Chlorobenzene	50.0	<5.00	53.80	108	51.67	103	4.0

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	50.0	45.00	90.0
Benzene	50.0	53.81	108
Trichloroethene	50.0	55.63	111
Toluene	50.0	49.15	98.3
Chlorobenzene	50.0	50.01	100

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:** 16

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 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	B	A	A	A		E	E	E
MW-7	04 26 07	1040		17	6	G	G	G	G	G	G	G	G	G
MW-8	04 26 07	1025		17	5	G	G	G	G	G	G	G	G	
MW-9					5									
MW-10	04 26 07	0920		15	5	G	G	G	G	G	G	G	G	
MW-11S	04 26 07	0835		16	5	G	G	G	G	G	G	G	G	
MW-11D	04 26 07	0850		18	5	G	G	G	G	G	G	G	G	
Under Drain #2	04 26 07	0830		17	5	G	G	G	G	G		G	G	
Leachate Manhole	04 26 07	0855		19	6	G	G	G	G	G		G	G	G
Equipment Blank	04 26 07				3		G					G	G	
Trip Blank					2									

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: N

SAMPLES COLLECTED BY: (Please Print) Bob Hagoe / Fat

SAMPLES RECEIVED IN LAB AT 1.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Hagoe	04 26 07	Arthur Smith	4/26/07 4:00
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS: WELL 9 DOESN'T EXIST

Instructions for completing this form are 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.

№ 144485

FORM #5

Environment 1, Incorporated

RECEIVED MAY 22 2007

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

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

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6035 E

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

DATE COLLECTED: 04/26/07
DATE REPORTED : 05/18/07

REVIEWED BY: _____

PARAMETERS	MW-12s	MW-14	Well #12 Deep	Well #13 Shallow	Well #13 Deep	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.4	Missing	7.1	4.9	7.2	04/26/07	RJH	SM4500HB
Antimony, ug/l	<6.0	Missing	<6.0	<6.0		05/08/07	CMF	EPA200.8
Antimony, ug/l					<6.0	05/10/07	LFJ	EPA200.8
Arsenic, ug/l	< 10	Missing	< 10	< 10	<10	05/08/07	CMF	EPA200.8
Barium, ug/l	< 100	Missing	< 100	< 100	< 100	05/08/07	CMF	EPA200.8
Beryllium, ug/l	<1.0	Missing	<1.0	<1.0		05/08/07	CMF	EPA200.8
Beryllium, ug/l					<1.0	05/10/07	LFJ	EPA200.8
Cadmium, ug/l	<1.0	Missing	<1.0	<1.0		05/08/07	CMF	EPA200.8
Cadmium, ug/l					<1.0	05/10/07	LFJ	EPA200.8
Cobalt, ug/l	< 10	Missing	< 10	< 10		05/08/07	CMF	EPA200.8
Cobalt, ug/l					< 10	05/10/07	LFJ	EPA200.8
Copper, ug/l	< 10	Missing	< 10	< 10		05/08/07	CMF	EPA200.8
Copper, ug/l					< 10	05/10/07	LFJ	EPA200.8
Total Chromium, ug/l	< 10	Missing	< 10	< 10		05/08/07	CMF	EPA200.8
Total Chromium, ug/l					< 10	05/10/07	LFJ	EPA200.8
Lead, ug/l	< 10	Missing	< 10	< 10		05/08/07	CMF	EPA200.8
Lead, ug/l					< 10	05/10/07	LFJ	EPA200.8
Nickel, ug/l	< 50	Missing	< 50	< 50		05/08/07	CMF	EPA200.8
Nickel, ug/l					< 50	05/10/07	LFJ	EPA200.8
Selenium, ug/l	< 10	Missing	< 10	< 10		05/08/07	CMF	EPA200.8
Selenium, ug/l					< 10	05/10/07	LFJ	EPA200.8
Silver, ug/l	< 10	Missing	< 10	< 10		05/08/07	CMF	EPA200.8
Silver, ug/l					< 10	05/10/07	LFJ	EPA200.8
Thallium, ug/l	<5.0	Missing	<5.0	<5.0		05/08/07	CMF	EPA200.8
Thallium, ug/l					<5.0	05/10/07	LFJ	EPA200.8
Vanadium, ug/l	< 25	Missing	< 25	< 25		05/08/07	CMF	EPA200.8
Vanadium, ug/l					< 25	05/10/07	LFJ	EPA200.8
Zinc, ug/l	16	Missing	< 10	< 10	< 10	05/08/07	CMF	EPA200.8
Turbidity, NTU	200	Missing	130	2.5	110	04/27/07	MDM	SM2130B
Conductivity (at 25c), uMhos	192	Missing	452	103	415	04/26/07	RJH	SM2510B
Temperature, °C	17	Missing	18	4.9	7.2	04/26/07	RJH	SM2550B
Static Water Level, feet	6.60	Missing	10.41	3.20	7.34	04/26/07	RJH	
Well Depth, feet	17.99	Missing	36.03	17.74	34.31	04/26/07	RJH	

Environment 1, Incorporated

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

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

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6035 E

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

DATE COLLECTED: 04/26/07
DATE REPORTED : 05/18/07

REVIEWED BY: _____

PARAMETERS	MW-12s	MW-14	Well #12 Deep	Well #13 Shallow	Well #13 Deep	Analysis Date	Analyst	Method Code
8260 (Duplicate)		Missing				/ /		
8260 (Duplicate)		Missing				/ /		

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: 04/26/07
DATE ANALYZED: 05/09/07
DATE REPORTED: 05/18/07

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MW-12s	Well #12 Deep	Well #13 Shallow	Well #13 Deep
1. Chloromethane	<5.00	<5.00	<5.00	<5.00
2. Vinyl Chloride	<5.00	<5.00	<5.00	<5.00
3. Bromomethane	<10.00	<10.00	<10.00	<10.00
4. Chloroethane	<5.00	<5.00	<5.00	<5.00
5. Trichlorofluoromethane	<5.00	<5.00	<5.00	<5.00
6. 1,1-Dichloroethene	<5.00	<5.00	<5.00	<5.00
7. Acetone	<100.00	<100.00	<100.00	<100.00
8. Iodomethane	<10.00	<10.00	<10.00	<10.00
9. Carbon Disulfide	<100.00	<100.00	<100.00	<100.00
10. Methylene Chloride	<5.00	<5.00	<5.00	<5.00
11. trans-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00
12. 1,1-Dichloroethane	<5.00	<5.00	<5.00	<5.00
13. Vinyl Acetate	<50.00	<50.00	<50.00	<50.00
14. Cis-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00
15. 2-Butanone	<100.00	<100.00	<100.00	<100.00
16. Bromochloromethane	<3.00	<3.00	<3.00	<3.00
17. Chloroform	<5.00	<5.00	<5.00	<5.00
18. 1,1,1-Trichloroethane	<5.00	<5.00	<5.00	<5.00
19. Carbon Tetrachloride	<5.00	<5.00	<5.00	<5.00
20. Benzene	<3.00	<3.00	<3.00	<3.00
21. 1,2-Dichloroethane	<3.00	<3.00	<3.00	<3.00
22. Trichloroethene	<3.00	<3.00	<3.00	<3.00
23. 1,2-Dichloropropane	<3.00	<3.00	<3.00	<3.00
24. Bromodichloromethane	<3.00	<3.00	<3.00	<3.00
25. Cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00
26. 4-Methyl-2-Pentanone	<100.00	<100.00	<100.00	<100.00
27. Toluene	<5.00	<5.00	<5.00	<5.00
28. trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00
29. 1,1,2-Trichloroethane	<5.00	<5.00	<5.00	<5.00
30. Tetrachloroethene	<3.00	<3.00	<3.00	<3.00
31. 2-Hexanone	<50.00	<50.00	<50.00	<50.00
32. Dibromochloromethane	<3.00	<3.00	<3.00	<3.00
33. 1,2-Dibromoethane	<3.00	<3.00	<3.00	<3.00
34. Chlorobenzene	<3.00	<3.00	<3.00	<3.00
35. 1,1,1,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00
36. Ethylbenzene	<5.00	<5.00	<5.00	<5.00
37. Xylenes	<4.00	<4.00	<4.00	<4.00
38. Dibromomethane	<10.00	<10.00	<10.00	<10.00
39. Styrene	<10.00	<10.00	<10.00	<10.00
40. Bromoform	<3.00	<3.00	<3.00	<3.00
41. 1,1,2,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00
42. 1,2,3-Trichloropropane	<8.00	<8.00	<8.00	<8.00
43. 1,4-Dichlorobenzene	<3.00	<3.00	<3.00	<3.00
44. 1,2-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00
45. 1,2-Dibromo-3-Chloropropane	<13.00	<13.00	<13.00	<13.00
46. Acrylonitrile	<200.00	<200.00	<200.00	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00	<100.00	<100.00	<100.00

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: 04/26/07
DATE ANALYZED: 05/09/07
DATE REPORTED: 05/14/07

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B
METHOD BLANK RESULTS

PARAMETERS	Concentration (Ug/l)
1. Chloromethane	<10.00
2. Vinyl Chloride	<10.00
3. Bromomethane	<10.00
4. Chloroethane	<10.00
5. Trichlorofluoromethane	<5.00
6. 1,1-Dichloroethene	<5.00
7. Acetone	<100.00
8. Iodomethane	<10.00
9. Carbon Disulfide	<100.00
10. Methylene Chloride	<10.00
11. trans-1,2-Dichloroethene	<5.00
12. 1,1-Dichloroethane	<5.00
13. Vinyl Acetate	<50.00
14. cis-1,2-Dichloroethene	<5.00
15. 2-Butanone	<100.00
16. Bromochloromethane	<5.00
17. Chloroform	<5.00
18. 1,1,1-Trichloroethane	<5.00
19. Carbon Tetrachloride	<10.00
20. Benzene	<5.00
21. 1,2-Dichloroethane	<5.00
22. Trichloroethene	<5.00
23. 1,2-Dichloropropane	<5.00
24. Bromodichloromethane	<5.00
25. cis-1,3-Dichloropropene	<10.00
26. 4-methyl-2-Pentanone	<100.00
27. Toluene	<5.00
28. trans-1,3-Dichloropropene	<10.00
29. 1,1,2-Trichloroethane	<5.00
30. Tetrachloroethene	<5.00
31. 2-Hexanone	<50.00
32. Dibromochloromethane	<5.00
33. 1,2-Dibromoethane	<5.00
34. Chlorobenzene	<5.00
35. 1,1,1,2-Tetrachloroethane	<5.00
36. Ethylbenzene	<5.00
37. Xylenes	<5.00
38. Dibromomethane	<10.00
39. Styrene	<10.00
40. Bromoform	<5.00
41. 1,1,2,2-Tetrachloroethane	<5.00
42. 1,2,3-Trichloropropane	<15.00
43. 1,4-Dichlorobenzene	<5.00
44. 1,2-Dichlorobenzene	<5.00
45. 1,2-Dibromo-3-Chloropropane	<25.00
46. Acrylonitrile	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00

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 E

ANALYST: MO
DATE COLLECTED: 04/26/07
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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	107	101
Laboratory Control std.	70-130	119	110	101
Method Blank	70-130	106	95.4	93.5
Well #12 Shallow	70-130	114	99.7	96.9
Well #12 Deep	70-130	111	97.7	94.5
Well #13 Shallow	70-130	109	93.2	93.2
Well #13 Deep	70-130	117	103	99.3
Monitoring Well #7 M.S.	70-130	112	104	94.5
Monitoring Well #7 M.S.D.	70-130	107	102	92.9

Environment 1, Incorporated

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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 E

ANALYST: MO
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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	50.0	<5.00	44.78	89.6	46.83	93.7	4.5
Benzene	50.0	<5.00	54.92	110	53.84	108	2.0
Trichloroethene	50.0	<5.00	55.27	111	55.49	111	0.4
Toluene	50.0	<5.00	49.38	98.8	50.20	100	1.6
Chlorobenzene	50.0	<5.00	49.73	99.5	50.55	101	1.6

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	50.0	50.48	101
Benzene	50.0	57.92	116
Trichloroethene	50.0	61.29	123
Toluene	50.0	53.34	107
Chlorobenzene	50.0	53.95	108

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: 16**

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 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	B	A	A	A		E	E	E
MW-12s	04 26 07	1000		17	5	G	G	G	G	G	G	G	G	
~~MW-14~~	~~04 26 07~~				~~6~~									
Well #12 Deep	04 26 07	1015		18	5	G	G	G	G	G	G	G	G	
Well #13 Shallow	04 26 07	0930		16	5	G	G	G	G	G	G	G	G	
Well #13 Deep	04 26 07	0985		16	5	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
- [x] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY: (Please Print)
H Hogge / Fox

SAMPLES RECEIVED IN LAB AT 4.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Hogge	4/26/07	Jonathan Sadler	4/26/07 4:00
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:
WELL 14 missing/BROKEN

Instructions for completing this form are 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

№ 144484