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) Tuscarora Regional Landfills	7400 Old Hwy 70 West New Bern, NC 28562	25-04 & 25-09	.1600	October 10-11, 2007 December 3-4, 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	Project Consultant	(336) 323-0092
Facility Representative Name (Print)	Title	(Area Code) Telephone Number

Signature 3-27-08 Date

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
Cove City, North Carolina 28523

JEI Project Number 618.01, Task 22

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

March 2008

Prepared by:

JOYCE ENGINEERING, INC.

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

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

Table of Contents

1.0 INTRODUCTION 1
2.0 MONITORING PROGRAMS 1
2.1 Closed Interim Regional Landfill 1
2.2 Long-Term Regional Landfill 2
2.3 Leachate Storage Lagoon Area 2
2.4 Surface Water Sampling 3
2.5 October 2007 Sampling Event and December 2007 Resampling Event 3
3.0 HYDROGEOLOGY 3
4.0 STATISTICAL PROCEDURES 4
4.1 Background Data 4
4.2 Statistical Methods 4
4.2.1 Treatment of Censored Data 5
4.2.2 Assumption of Normality 5
4.2.3 Parametric Tolerance Limit 5
4.2.4 Aitchison's Adjusted Parametric Tolerance Limit 5
4.2.5 Non-parametric Upper Tolerance Limit 6
4.2.6 Poisson Upper Prediction Limit 6
5.0 OCTOBER AND DECEMBER 2007 STATISTICAL AND SAMPLING RESULTS 6
5.1 Closed Interim Regional Landfill 6
5.1.1 Inorganic Statistical and Sampling Results 6
5.1.2 Organic Statistical and Sampling Results 7
5.2 Long-Term Regional Landfill 8
5.2.1 Inorganic Statistical and Sampling Results 8
5.2.2 Organic Statistical and Sampling Results 8
5.3 Leachate Storage Lagoon Area 9
5.3.1 Inorganic Statistical and Sampling Results 9
5.3.2 Organic Statistical and Sampling Results 10
5.4 Surface Water Sampling Results 11
5.5 Leachate Sampling Results 11
6.0 CONCLUSION 12

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

Table of Contents

Tables

Table 1	Groundwater Elevation Summary Table: Tuscarora Interim Regional Landfill
Table 2	Groundwater Elevation Summary Table: Tuscarora Long-Term Regional Landfill
Table 3	Groundwater Elevation Summary Table: Leachate Storage Lagoon Area
Table 4	Estimated Hydraulic Gradients and Average Linear Velocities for the Shallow Aquifer
Table 5	Estimated Hydraulic Gradients and Average Linear Velocities for the Deep Aquifer
Table 6	Summary of Detected Constituents: Tuscarora Interim Regional Landfill
Table 7	Summary of Field Parameters: Tuscarora Interim Regional Landfill
Table 8	Summary of Detected Constituents: Tuscarora Long-Term Regional Landfill
Table 9	Summary of Field Parameters: Tuscarora Long-Term Regional Landfill
Table 10	Summary of Detected Constituents: Leachate Storage Lagoon Area
Table 11	Summary of Field Parameters: Leachate Storage Lagoon Area
Table 12	Summary of Detected Constituents: Surface Water
Table 13	Summary of Field Parameters: Surface Water
Table 14	Summary of Detected Constituents: Leachate

Drawings

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

Statistical Analyses

Summary of Statistical Analyses, Second Semiannual Sampling Event of 2007
Detailed Results

Laboratory Reports and Field Data

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 October 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 October 2007 sampling event was the sixth 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 was replaced prior to 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 October 2007 Sampling Event and December 2007 Resampling Event

Environment 1, Inc. personnel collected, preserved, and analyzed the October 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). Due to suspected laboratory false positives for organic constituents, a statistically significant increase over background levels for arsenic, and an exceedence of the NC 2B Surface Water Standard for selenium, JEI personnel performed a resampling event December 3-4, 2007 and shipped groundwater and surface water samples to Pace Analytical Services, Inc. of Huntersville, NC. The groundwater monitoring wells and surface water sampling locations are shown on Drawing Nos. 1 and 2.

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 October 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 October 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 0.0033 to 0.0046 ft/ft (Table 4) for the shallow aquifer and 0.00068 to 0.00267 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 0.011 to 0.015 ft/day (Table 4) for the uppermost aquifer range and 0.015 to 0.058 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 OCTOBER AND DECEMBER 2007 STATISTICAL AND SAMPLING 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 October 2007 sampling and December 2007 resampling events are summarized in the *Statistical Analyses* section in tabular form. The analytical results of the October 2007 sampling and December 2007 resampling events are summarized in Table 6 through Table 14. The results are discussed below.

5.1 Closed Interim Regional Landfill

5.1.1 Inorganic Statistical and Sampling Results

Background concentrations were determined as discussed in Section 5.0 and detailed in the *Statistical Analyses* section. The following inorganic constituents were detected during the October 2007 sampling event. All concentrations are reported in micrograms per liter (µg/L). Concentrations with a "J" are considered to be J-flagged and the detection is considered to be estimated. Concentrations with a "B" are considered to be B-flagged and the detection is considered to be attributed to lab or field contamination.

Constituent	NC2L/ GWPS	IRL-1S	IRL-1D	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	MW-A	Blanks
Antimony	1.4	0.1 B	0.1 B	0.1 B	0.5 B	0.1 B	0.1 B	0.1 B	0.1 B	0.1 J
Arsenic	50	3.0 J	ND	2.3 J	ND	1.6 J	0.7 J	1.2 J	2.0 J	ND
Barium	2,000	44.8 J	56.4 J	69.9 J	67.2 J	133	39 J	96.9 J	28.8 J	0.2 J

Table Continues on Next Page

Constituent	NC2L/ GWPS	IRL-1S	IRL-1D	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	MW-A	Blanks
Beryllium	4	0.1 J	ND	ND	0.3 J	0.1 J	0.1 J	ND	ND	ND
Cadmium	1.75	0.3 B	0.4 B	0.6 B	0.1 B	0.4 B	0.1 B	0.4 B	0.1 B	0.1 J
Cobalt	70	0.6 J	ND	ND	ND	1.3 J	ND	ND	ND	ND
Copper	1,000	0.6 B	1.0 B	0.4 B	0.7 B	0.9 B	0.5 B	0.7 B	1.0 B	0.4 J
Chromium	50	1.6 B	1.2 B	2.0 B	2.3 B	1.3 B	2.1 B	1.4 B	1.3 B	1.2 J
Lead	15	0.4 B	0.1 B	0.1 B	0.1 B	0.2 B	0.1 B	0.1 B	0.3 B	0.1 J
Nickel	100	1.5 J	0.9 J	3.3 J	2.7 J	2.3 J	2.1 J	6.1 J	1.0 J	ND
Selenium	50	1.2 B	1.0 B	8.0 J	1.7 B	3.5 B	1.2 B	4.5 B	1.6 B	0.9 J
Vanadium	3.5	0.6 J	ND	2.5 J	1.2 J	ND	0.8 J	1.2 J	ND	ND
Zinc	1,050	7.5 B	5.3 B	3.8 B	3.0 B	7.4 B	6.8 B	55	6.2 B	6.6
* Concentrations are in micrograms per liter (µg/L).										

The inorganic analytical results from the October 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 and Field Data* section. There were no statistically significant increases during the October 2007 sampling event. None of the detected inorganic constituents exceeded the NC 2L or Groundwater Protection Standards.

5.1.2 Organic Statistical and Sampling Results

Background concentrations were determined as discussed in Section 5.0 and detailed in the *Statistical Analyses* section. The following organic constituents were detected during the October 2007 sampling event and December 2007 resampling event. All concentrations are reported in micrograms per liter (µg/L). Concentrations with a "J" are considered to be J-flagged and the detection is considered to be estimated. Concentrations with ( ) represent the re-sampling event in December 2007.

Constituent	NC2L/ GWPS	IRL-1S	IRL-1D	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	MW-A	Blanks
1,1-Dichloroethylene	7	ND	ND	ND	ND	ND	ND	2.80 J (ND)	3.10 J (ND)	ND (ND)
2-Butanone	4,200	2.70 J (ND)	3.30 J (ND)	4.00 J (ND)	4.10 J (ND)	3.00 J (ND)	4.40 J (ND)	2.70 J (ND)	3.90 J (ND)	ND (ND)
Acetone	700	2.20 J (ND)	2.70 J (ND)	7.40 J (ND)	3.40 J (ND)	2.60 J (ND)	4.90 J (ND)	ND	ND	ND (4.3 J)
Chloromethane	2.6	0.50 J (ND)	0.60 J (ND)	0.80 J (ND)	0.70 J (ND)	0.50 J (ND)	0.90 J (ND)	0.50 J (ND)	0.80 J (ND)	ND (ND)
* Concentrations are in micrograms per liter (µg/L).										

The organic analytical results from the October 2007 sampling event and December 2007 resampling 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 and Field Data* section. There were no statistically significant increases during the sampling and resampling events. None of the detected organic constituents exceeded the NC 2L or Groundwater Protection Standards. The December 2007

resampling event results determined the Closed Interim Regional Landfill is not impacting the groundwater.

5.2 Long-Term Regional Landfill

5.2.1 Inorganic Statistical and Sampling Results

Background concentrations were determined as discussed in Section 5 and detailed in the *Statistical Analyses* section. The following inorganic constituents were detected during the October 2007 sampling event. All concentrations are reported in micrograms per liter (µg/L). Concentrations with a "J" are considered to be J-flagged and the detection is considered to be estimated. Concentrations with a "B" are considered to be B-flagged and the detection is considered to be attributed to lab or field contamination.

Constituent	NC2L/ GWPS	MW-7	MW-8	MW-10	MW-11S	MW-11D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14R	Blanks
Antimony	1.4	0.1 B	ND	ND	ND	ND	ND	ND	ND	ND	0.1 B	0.1 J
Arsenic	50	3.5 J	4.3 J	1.8 J	0.5 J	ND	6.6 J	ND	9.4 J	ND	1.0 J	ND
Barium	2,000	63.3 J	32.7 J	44.8 J	45.7 J	40.7 J	81.8 J	47.4 J	42.2 J	46.4 J	42. 8 J	0.2 J
Beryllium	4	0.2 J	0.2 J	0.2 J	0.1 J	0.1 J	0.1 J	ND	0.1 J	ND	0.1 J	ND
Cadmium	1.75	0.6 J	0.1 B	0.1 B	0.5 B	0.1 B	0.2 B	0.1 B	0.1 B	0.1 B	0.9 J	0.1 J
Cobalt	70	0.7 J	ND	ND	1.0 J	ND	1.4 J	ND	ND	ND	2.7 J	ND
Copper	1,000	1.2 B	0.5 B	0.3 B	0.4 B	0.2 B	0.9 B	ND	0.6 B	0.2 B	3.3 J	0.4 J
Chromium	50	4.8 B	1.1 B	0.3 B	ND	ND	ND	ND	0.5 B	ND	ND	1.2 J
Lead	15	3.0 J	1.6 J	0.3 B	0.1 B	ND	0.2 B	ND	1.1 J	0.1 B	0.3 B	0.1 J
Nickel	100	2.3 J	ND	0.7 J	1.8 J	1.8 J	2.0 J	1.6 J	0.8 J	1.2 J	3.6 J	ND
Selenium	50	1.4 B	ND	0.4 B	0.8 B	ND	2.6 B	ND	ND	ND	ND	0.9 J
Thallium	0.28	0.1 J	ND	0.1 J	ND	ND	0.2 J	ND	0.1 J	0.1 J	ND	ND
Vanadium	3.5	8.6 J	3.8 J	0.6 J	ND	ND	0.9 J	ND	2.7 J	ND	ND	ND
Zinc	1,050	28 B	4.9 B	4.7 B	5.4 B	2.5 B	22 B	2.1 B	6.1 B	3.4 B	14 B	6.6 J

* Concentrations are in micrograms per liter (µg/L).

The in organic analytical results from the October 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 and Field Data* section. There were no statistically significant increases during the October 2007 sampling event. None of the detected organic constituents exceeded the NC 2L or Groundwater Protection Standards.

5.2.2 Organic Statistical and Sampling Results

Background concentrations were determined as discussed in Section 5.0 and detailed in the *Statistical Analyses* section. The following organic constituents were detected during the October 2007 sampling event and December 2007 resampling event. All concentrations are reported in micrograms per liter (µg/L). Concentrations with a "J" are considered to be J-flagged

and the detection is considered to be estimated. Concentrations with ( ) represent the re-sampling event in December 2007.

Constituent	NC2L/ GWPS	MW-7	MW-8	MW-10	MW-11S	MW-11D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14R	Blanks
Acetone	700	1.40 J (ND)	ND	1.40 J (ND)	ND	ND	ND	ND	ND	ND	ND	ND (4.3 J)
Chloromethane	2.6	0.80 J (ND)	0.80 J (ND)	0.90 J (ND)	0.80 J (ND)	0.90J (ND)	0.90J (ND)	0.70 J (ND)	0.90J (ND)	0.70J (ND)	0.90 J (ND)	ND (ND)
Methylene Chloride	4.6	ND	ND	ND	0.20 B	ND	ND	ND	ND	ND	ND	0.20 J
* Concentrations are in micrograms per liter (µg/L).												

The organic analytical results from the October 2007 sampling event and December 2007 resampling 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 and Field Data* section. There were no statistically significant increases during the sampling and resampling events. None of the detected organic constituents exceeded the NC 2L or Groundwater Protection Standards. The December 2007 resampling event results determined the Long-Term Regional Landfill is not impacting the groundwater.

5.3 Leachate Storage Lagoon Area

5.3.1 Inorganic Statistical and Sampling Results

Background concentrations were determined as discussed in Section 5 and detailed in the *Statistical Analyses* section. The following organic constituents were detected during the October 2007 sampling event and December 2007 resampling event. All concentrations are reported in micrograms per liter (µg/L). Concentrations with a "J" are considered to be J-flagged and the detection is considered to be estimated. Concentrations with a "B" are considered to be B-flagged and the detection is considered to be attributed to lab or field contamination. Concentrations with ( ) represent the re-sampling event in December 2007.

Constituent	NC2L/ GWPS	LST-1S	LST-1D	LST-2S	LST-3S	LST-4S	LST-5S	LST-5D	LST-6S	Blanks
Antimony	1.4	0.1 B	0.1 B	0.1 B	0.1 B	0.5 B	0.2 B	0.1 B	0.1 B	0.1 J
Arsenic	50	1.0 J	ND	3.0 J	1.7 J	13 (9.5)	2.4 J	ND	1.0 J	ND (ND)
Barium	2,000	63.7 J	37.3 J	42 J	91.5 J	184	30.9 J	51.8 J	34 J	0.2 J
Beryllium	4	0.5 J	0.1 J	0.3 J	0.5 J	1.6	ND	0.1 J	0.1 J	ND
Cadmium	1.75	0.5 B	0.1 B	0.5 B	0.5 B	0.5 B	0.4 B	0.2 B	1.1	0.1 J
Cobalt	70	0.5 J	ND	0.5 J	5.8 J	20	0.5 J	ND	ND	ND
Copper	1,000	0.6 B	0.9 B	0.8 B	0.7 B	0.7 B	1.1 B	0.3 B	1.0 B	0.4 J
Chromium	50	1.1 B	1.2 B	1.4 B	1.6 B	2 B	3.2 B	1.4 B	2.2 B	1.2 J
Lead	15	1.0 J	0.1 B	0.8 J	1.0 J	0.6 J	1.6 J	0.1 B	1.8 J	0.1 J
Nickel	100	1.2 J	1.9 J	1.3 J	7.4 J	25.5 J	1.6 J	2.2 J	1 J	ND

Table Continues on Next Page

Constituent	NC2L/ GWPS	LST-1S	LST-1D	LST-2S	LST-3S	LST-4S	LST-5S	LST-5D	LST-6S	Blanks
Selenium	50	3.4 B	1.1 B	1.4 B	1.3 B	1.3 B	1.4 B	1.1 B	1.0 B	0.9 J
Thallium	0.28	0.2 J	0.2 J	0.1 J	ND	ND	ND	ND	ND	ND
Vanadium	3.5	0.5 J	ND	1.3 J	0.9 J	3.2 J	4.0 J	ND	3.1 J	ND
Zinc	1,050	3.8 B	4.9 B	7.7 B	30 B	53	17 B	1.8 B	7.7 B	6.6 J
* Concentrations are in micrograms per liter (µg/L).										

The inorganic analytical results from the October 2007 sampling event and December 2007 resampling 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 and Field Data* section. There were no statistically significant increases during the resampling event. None of the detected inorganic constituents exceeded the NC 2L or Groundwater Protection Standards.

5.3.2 Organic Statistical and Sampling Results

Background concentrations were determined as discussed in Section 5.0 and detailed in the *Statistical Analyses* section. The following organic constituents were detected during the October 2007 sampling event and December 2007 resampling event. All concentrations are reported in micrograms per liter (µg/L). Concentrations with a "J" are considered to be J-flagged and the detection is considered to be estimated. Concentrations with ( ) represent the re-sampling event in December 2007.

Constituent	NC2L/ GWPS	LST-1S	LST-1D	LST-2S	LST-3S	LST-4S	LST-5S	LST-5D	LST-6S	Blanks
2-Butanone	4,200	4.60 J (ND)	4.00 J (ND)	3.70 J (ND)	3.80 J (ND)	4.50 J (ND)	3.90 J (ND)	4.10 J (ND)	2.90 J (ND)	ND (ND)
Acetone	700	3.50 J (ND)	3.10 J (ND)	3.30 J (ND)	2.90 J (ND)	3.40 J (ND)	3.20 J (ND)	3.50 J (ND)	2.50 J (ND)	ND (4.3 J)
Bromomethane	-	0.30 J (ND)	ND	ND	ND	ND	ND	ND	ND	ND (ND)
Chloromethane	2.6	1.00 (ND)	0.80 J (ND)	0.70 J (ND)	0.90 J (ND)	0.90 J (ND)	ND	0.70 J (ND)	0.60 J (ND)	ND (ND)
Methylene Chloride	4.6	ND	ND	ND	ND	ND	ND	ND	ND	0.20 J
* Concentrations are in micrograms per liter (µg/L).										

The organic analytical results from the October 2007 sampling event and December 2007 resampling 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 and Field Data* section. There were no statistically significant increases during the sampling and resampling events. None of the detected organic constituents exceeded the NC 2L or Groundwater Protection Standards. The December 2007 resampling event determined the Leachate Storage Lagoon Area is not impacting the groundwater.

5.4 Surface Water Sampling Results

The following inorganic and organic constituents were detected during the October 2007 sampling event and December 2007 resampling event. All concentrations are reported in micrograms per liter (µg/L). Concentrations with a "J" are considered to be J-flagged and the detection is considered to be estimated. Concentrations with a "B" are considered to be B-flagged and the detection is considered to be attributed to lab or field contamination. Concentrations with ( ) represent the re-sampling event in December 2007. UD-1 and UD-2 were dry during the October 2007 sampling event.

Constituent	NC2B	SWPT-1	SWPT-2	UD-1	UD-2	Blanks
Antimony	-	0.1 B	0.7 J	-	-	0.1 J
Arsenic	50	1.4 J	13	-	-	ND
Barium	-	47.4 J	187	-	-	0.2 J
Beryllium	6.5	ND	0.4 J	-	-	ND
Cadmium	2.0	0.1 B	0.2 B	-	-	0.1 J
Chromium	50	1.7 B	12	-	-	1.2 J
Cobalt	-	1.5 J	3.4 J	-	-	ND
Copper	7.0	0.7 B	3.9 J	-	-	0.4 J
Lead	25	1.1 J	8.6 J	-	-	0.1 J
Nickel	88	3.4 J	15.2 J	-	-	ND
Selenium	5	0.5 B	19 (ND)	-	-	0.9 J (ND)
Thallium	-	ND	0.1 J	-	-	ND
Vanadium	-	2.5 J	16.5 J	-	-	ND
Zinc	50	44	22 B	-	-	6.6 J
Acetone	-	(1.40 J) ND	(6.40 J) ND	-	-	ND (4.3 J)
2-Butanone	-	ND	1.50 J (ND)	-	-	ND (ND)
Carbon Disulfide	-	ND	0.30 J (ND)	-	-	ND (ND)
Chloromethane	-	0.80 J (ND)	1.10 (ND)	-	-	ND (ND)
Methylene Chloride	-	ND	ND	-	-	0.20 J

* Concentrations are in micrograms per liter (µg/L).

The analytical results from the October 2007 sampling event and December 2007 resampling 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 and Field Data* section. Selenium was detected in SWPT-2 above the North Carolina 2B Surface Water Standards during the October 2007 sampling event. SWPT-2 was resampled in December 2007 and the result was a non-detect. No other inorganic or organic constituents were detected above the North Carolina 2B Surface Water Standards. The December 2007 resampling event determined the Tuscarora Landfill is not impacting the surface water.

5.5 Leachate Sampling Results

The following inorganic and organic constituents were detected in leachate during the October 2007 sampling event. All concentrations are reported in micrograms per liter (µg/L). Concentrations with a "J" are considered to be J-flagged and the detection is considered to be estimated.

Constituent	Leachate	Blanks
Antimony	4.0 J	0.1 J
Arsenic	59	ND
Barium	754	0.2 J
Beryllium	0.1 J	ND
Cadmium	2	0.1 J
Chromium	81	1.2 J
Cobalt	14	ND
Copper	9.4 J	0.4 J
Lead	1.4 J	0.1 J
Nickel	77	ND
Selenium	51	0.9 J
Vanadium	17.6 J	ND
Zinc	42	6.6 J
Acetone	81.70 J	ND
Benzene	3.90	ND
Chlorobenzene	1.80 J	ND
Chloroethane	0.50 J	ND
Chloromethane	2.40	ND

Constituent	Leachate	Blanks
Cis-1,2-Dichloroethylene	2.00 J	ND
1,1-Dichloroethane	0.30 J	ND
1,2-Dichloroethane	0.40 J	ND
1,2-Dichloropropane	0.30 J	ND
2-Butanone	45.10 J	ND
Styrene	2.10	ND
1,2-Dichlorobenzene	1.10 J	ND
1,4-Dichlorobenzene	15.70	ND
Trichloroethylene	0.30 J	ND
Ethylbenzene	179.00	ND
Methylene Chloride	0.30 B	0.20 J
Toluene	22.80	ND
1,2,3-Trichloropropane	0.10 J	ND
1,1,2,2-Tetrachloroethane	0.30 J	ND
Vinyl Chloride	1.10	ND
4-Methyl-2-Pentanone	51.50 J	ND
Xylenes	158.00	ND
* Concentrations are in micrograms per liter (µg/L).		

The analytical results from the October 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 and Field Data* section.

6.0 CONCLUSION

Based on the analytical results from the October 2007 sampling event and December 2007 resampling event, no inorganic or organic constituents were considered to be at statistically significant levels above calculated background concentrations. In addition, no constituents were considered to be in exceedence of North Carolina 2L Groundwater Standards, Groundwater Protection Standards, and North Carolina 2B Surface Water Standards. Therefore, the results of the second 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 next semiannual monitoring event is scheduled for April 2008.

Tables

Table 1	Groundwater Elevation Summary Table: Tuscarora Interim Regional Landfill
Table 2	Groundwater Elevation Summary Table: Tuscarora Long-Term Regional Landfill
Table 3	Groundwater Elevation Summary Table: Leachate Storage Lagoon Area
Table 4	Estimated Hydraulic Gradients and Average Linear Velocities for the Shallow Aquifer
Table 5	Estimated Hydraulic Gradients and Average Linear Velocities for the Deep Aquifer
Table 6	Summary of Detected Constituents: Tuscarora Interim Regional Landfill
Table 7	Summary of Field Parameters: Tuscarora Interim Regional Landfill
Table 8	Summary of Detected Constituents: Tuscarora Long-Term Regional Landfill
Table 9	Summary of Field Parameters: Tuscarora Long-Term Regional Landfill
Table 10	Summary of Detected Constituents: Leachate Storage Lagoon Area
Table 11	Summary of Field Parameters: Leachate Storage Lagoon Area
Table 12	Summary of Detected Constituents: Surface Water
Table 13	Summary of Field Parameters: Surface Water
Table 14	Summary of Detected Constituents: Leachate

TABLE 1

GROUNDWATER ELEVATION SUMMARY TABLE
TUSCARORA INTERIM REGIONAL LANDFILL

	MONITORING WELL WATER LEVEL ELEVATIONS										
Well No.	**IRL-1S**	**IRL-1D**	**IRL-2DA**	**IRL-3S**	**IRL-3D**	**IRL-4S**	**IRL-4D**	**IRL-5S**	**IRL-5D**	**MW-A**	**PZ-Z**
Well TOC Elev.	50.56	50.19	51.58	49.02	48.93	48.34	48.35	48.78	48.66	46.04	49.52
Well Depth	17.73	45.20	30.95	16.40	39.22	14.99	34.64	14.62	35.42	20.40	-
Jul-93	46.57	36.02	-	38.68	34.26	43.13	34.24	40.19	34.73	-	-
Aug-93	44.94	35.46	-	38.57	33.68	42.02	33.54	39.58	34.13	-	-
Sep-93	44.29	34.70	-	38.42	32.97	41.77	33.01	39.50	33.39	-	-
Sep-93	45.07	34.42	-	38.85	32.58	41.33	32.69	39.51	33.07	-	-
Apr-94	45.55	38.93	-	37.74	37.27	39.48	37.33	37.95	37.79	-	-
Oct-94	44.90	35.97	-	37.84	34.38	38.54	34.39	37.52	34.86	-	-
Apr-95	45.50	38.73	-	38.02	37.15	38.82	37.16	37.56	37.60	-	-
Oct-95	45.12	35.41	-	37.11	34.06	38.79	34.05	37.41	34.44	-	-
Apr-96	46.60	40.25	-	38.98	38.82	38.58	38.83	37.51	39.28	-	-
Oct-96	46.12	-	-	37.88	39.01	38.52	39.06	37.29	-	-	-
Dec-96	47.26	40.19	-	38.12	38.73	37.94	38.85	37.28	39.26	-	-
Apr-97	45.35	-	-	37.71	37.50	38.82	37.54	37.30	-	-	-
Mar-97	46.65	40.46	-	37.67	39.00	38.70	39.03	37.40	39.48	-	-
Oct-97	43.40	-	-	37.68	-	38.18	32.92	37.04	-	-	-
Apr-98	46.18	-	-	38.05	38.57	38.51	38.62	37.52	-	-	-
Oct-98	44.11	36.69	-	37.52	35.32	37.78	35.38	37.23	35.79	-	-
Mar-99	46.10	-	-	38.35	37.95	38.35	37.99	38.18	38.39	-	-
Jul-99	43.89	36.25	-	38.31	35.06	39.37	35.10	38.92	35.47	-	-
Aug-99	43.27	34.79	-	38.18	33.34	39.37	33.41	38.96	33.75	-	-
Oct-99	47.38	40.16	-	41.56	38.75	40.85	38.80	40.21	39.20	-	-
Nov-99	45.52	39.56	-	38.70	38.16	39.21	38.23	39.29	38.65	-	-
Apr-00	45.71	39.77	-	39.54	38.35	39.61	38.45	39.34	38.84	-	-
Oct-00	44.52	38.90	-	39.76	37.43	39.46	37.52	39.45	37.94	-	-
Apr-01	46.00	39.96	40.19	40.15	38.62	40.11	38.69	39.59	39.06	40.98	40.93
Oct-01	43.36	36.31	37.28	38.61	35.03	38.97	35.08	39.89	35.46	38.76	38.56
Apr-02	44.88	38.85	39.20	39.02	37.53	39.66	37.60	39.42	37.99	39.69	41.43
Oct-02	44.93	34.93	35.38	39.22	33.76	40.23	33.87	39.79	34.21	39.78	37.70
Apr-03	46.28	40.03	40.35	39.75	38.65	42.03	38.73	40.62	39.16	40.41	40.63
Oct-03	46.72	40.36	40.67	40.21	38.97	41.68	39.03	40.83	39.46	40.93	41.70
Apr-04	47.23	39.69	40.05	40.72	38.33	41.40	38.44	40.54	38.83	40.94	41.25
Oct-04	44.14	39.23	38.60	40.21	37.88	40.27	37.96	40.10	38.41	39.98	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
Oct-07	40.44	33.90	34.20	39.19	32.54	39.06	32.65	39.05	33.02	38.21	36.30

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-10**	**MW-11S**	**MW-11D**	**MW-12S**	**MW-12D**	**MW-13S**	**MW-13D**	**MW-14R**
Well TOC Elev.	50.69	50.94	47.32	47.67	47.55	52.12	51.90	46.21	45.93	46.98
Well Depth	16.22	15.61	15.95	14.03	34.73	35.95	17.96	15.00	33.00	14.00
Jul-99	46.76	46.16	44.60	38.94	36.60	-	-	-	-	-
Aug-99	45.10	44.41	43.13	39.19	34.87	-	-	-	-	-
Oct-99	46.94	46.08	43.34	40.79	40.34	-	-	-	-	-
Nov-99	46.19	44.13	42.34	38.85	39.71	-	-	-	-	-
Apr-00	46.96	45.66	42.96	39.04	39.93	-	-	-	-	-
Oct-00	45.79	43.94	42.30	38.74	39.05	-	-	-	-	-
Apr-01	47.33	45.62	43.60	39.37	40.16	-	-	-	-	-
Oct-01	44.81	42.99	41.57	38.92	35.41	-	-	-	-	-
Apr-02	43.86	44.74	43.10	39.39	39.09	43.69	40.78	-	-	-
Oct-02	45.18	44.19	41.28	39.49	35.26	45.15	36.77	-	-	-
Apr-03	47.26	45.74	43.27	40.40	40.24	45.77	42.00	-	-	-
Oct-03	47.98	46.34	42.64	41.67	40.44	46.32	42.32	-	-	-
Apr-04	47.78	46.47	43.40	41.57	38.78	46.79	41.70	43.27	38.93	-
Oct-04	46.69	45.04	43.09	40.29	39.53	45.16	41.09	41.28	38.41	-
Apr-05	47.05	44.88	43.29	40.28	40.18	44.54	41.89	43.29	39.19	-
Oct-05	47.16	46.12	42.63	41.93	40.81	45.51	42.62	44.51	39.82	-
Apr-06	47.12	46.02	43.53	40.37	39.89	45.43	41.59	43.17	38.82	-
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	-
Oct-07	43.67	43.94	41.35	39.98	34.08	42.18	35.60	41.19	33.02	39.25

NOTES:

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

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
Oct-07	43.34	34.12	42.53	34.24	41.99	34.31	41.81	34.44	43.46	34.15	41.90	34.70

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

			October 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	1189	E-NE	43 39	0.0034	2.00E-04	0.17	0.011
i_2	1208	SE	43 39	0.0033	2.00E-04	0.17	0.011
i_3	651	S-SE	43 40	0.0046	2.00E-04	0.17	0.015

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

			October 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	1257	E	35 33	0.00159	1.90E-03	0.25	0.034
i_5	1473	E-SE	35 34	0.00068	1.90E-03	0.25	0.015
i_6	374	S-SE	34 33	0.00267	1.90E-03	0.25	0.058

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/GWP STD]	Date	DL	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
Antimony	Oct-07	0.05	6.0	0.1 B	0.1 B	-	-	-	0.1 B	0.5 B	0.1 B	0.1 B	0.1 B	-	-	-	0.1 B	-	0.1 J
[1.4]																			
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
	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	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
	Oct-07	0.47	10.0	3.0 J	ND	-	-	-	2.3 J	ND	1.6 J	0.7 J	1.2 J	-	-	-	2.0 J	-	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
	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	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
	Oct-07	0.04	100.0	44.8 J	56.4 J	-	-	-	69.9 J	67.2 J	133	39 J	96.9 J	-	-	-	28.8 J	-	0.2 J

TABLE 6

SUMMARY OF DETECTED CONSTITUENTS
TUSCARORA INTERIM REGIONAL LANDFILL

Constituent [NC 2L/GWP STD]	Date	DL	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
[4]	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
	Oct-07	0.08	1.0	0.1 J	ND	-	-	-	ND	0.3 J	0.1 J	0.1 J	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
	Oct-07	0.06	1.0	0.3 B	0.4 B	-	-	-	0.6 J	0.1 B	0.4 B	0.1 B	0.4 B	-	-	-	0.1 B	-	0.1 J

TABLE 6

SUMMARY OF DETECTED CONSTITUENTS
TUSCARORA INTERIM REGIONAL LANDFILL

Constituent [NC 2L/GWP STD]	Date	DL	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	-	-	-	-	-	ND
	Apr-02	-	10	ND	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	12	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	-	-	-	ND	ND	ND
	Apr-04	-	10	13	-	-	ND	-	ND	ND	ND	ND	ND	-	-	-	10	ND	ND
	Oct-04	-	10	ND	-	-	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
	Oct-07	0.24	10.0	1.6 B	1.2 B	-	-	-	2.0 B	2.3 B	1.3 B	2.1 B	1.4 B	-	-	-	1.3 B	-	1.2 J
Cobalt	Jul-93	-	20	32	41	27	-	20	21	31	ND	93	29	118	45	23	-	-	ND
[70]	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	-	-	-	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
	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	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
	Oct-07	0.41	10.0	0.6 J	ND	-	-	-	ND	ND	1.3 J	ND	ND	-	-	-	ND	-	ND

TABLE 6

SUMMARY OF DETECTED CONSTITUENTS
TUSCARORA INTERIM REGIONAL LANDFILL

Constituent [NC 2L/GWP STD]	Date	DL	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	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
[1000]	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
	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	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
	Oct-07	0.20	10.0	0.6 B	1.0 B	-	-	-	0.4 B	0.7 B	0.9 B	0.5 B	0.7 B	-	-	-	1.0 B	-	0.4 J
Lead	Jul-93	-	5	32	6	ND	-	ND	12	7	ND	30	ND	30	65	ND	-	-	ND
[15]	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
	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	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
	Oct-07	0.07	10.0	0.4 B	0.1 B	-	-	-	0.1 B	0.1 B	0.2 B	0.1 B	0.1 B	-	-	-	0.3 B	-	0.1 J

TABLE 6

SUMMARY OF DETECTED CONSTITUENTS
TUSCARORA INTERIM REGIONAL LANDFILL

Constituent [NC 2L/GWP STD]	Date	DL	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
	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	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
	Oct-07	0.66	50.0	1.5 J	0.9 J	-	-	-	3.3 J	2.7 J	2.3 J	2.1 J	6.1 J	-	-	-	1.0 J	-	ND
Selenium [50]	Oct-07	0.35	10.0	1.2 B	1.0 B	-	-	-	8.0 J	1.7 B	3.5 B	1.2 B	4.5 B	-	-	-	1.6 B	-	0.9 J
Vanadium	Jul-93	-	2000	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
[3.5]	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
	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	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
	Oct-07	0.42	25.0	0.6 J	ND	-	-	-	2.5 J	1.2 J	ND	0.8 J	1.2 J	-	-	-	ND	-	ND

TABLE 6

SUMMARY OF DETECTED CONSTITUENTS
TUSCARORA INTERIM REGIONAL LANDFILL

Constituent [NC 2L/GWP STD]	Date	DL	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
Zinc	Jul-93	-	10	42 B	41 B	10 B	-	15 B	11 B	43 B	14 B	293	ND	301	ND	25 B	-	-	10
[1050]	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
	Oct-07	0.20	10.0	7.5 B	5.3 B	-	-	-	3.8 B	3.0 B	7.4 B	6.8 B	55	-	-	-	5.2 B	-	6.6
1,1-Dichloroethylene	Oct-07	0.14	5.0	ND	ND	-	-	-	ND	ND	ND	ND	2.80 J	-	-	-	3.10 J	-	ND
[7]	Dec-07	0.56	1.0	-	-	-	-	-	-	-	-	-	ND	-	-	-	ND	-	ND
2-Butanone	Oct-07	0.85	100.0	2.70 J	3.30 J	-	-	-	4.00 J	4.10 J	3.00 J	4.40 J	2.70 J	-	-	-	3.90 J	-	ND
[4200]	Dec-07	0.96	5.0	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND
Acetone	Oct-07	1.21	100.0	2.20 J	2.70 J	-	-	-	7.40 J	3.40 J	2.60 J	4.90 J	ND	-	-	-	ND	-	ND
[700]	Dec-07	2.2	25.0	ND	ND	-	-	-	ND	ND	ND	ND	-	-	-	-	-		ND
Chloromethane	Oct-07	0.18	1.0	0.50 J	0.60 J	-	-	-	0.80 J	0.70 J	0.50 J	0.90 J	0.50 J	-	-	-	0.80 J	-	ND
[2.6]	Dec-07	0.11	1.0	ND	ND	-	-	-	ND	ND	ND	ND	ND	-	-	-	ND	-	ND

Notes:
1. All concentrations are in micrograms per liter (ug/L).
2. IRL = Interim Regional Landfill monitoring well
3. RL = laboratory reporting limit (NC SWSL or lower from October 2007 to present).
4. ND = not detected above laboratory reporting limit.
5. B = blank-qualified data; result is expected to be biased high based on concentrations in the blanks
6. Shaded values are above the NC 2L Drinking Water Standards.
7. - = not available
8. DL = laboratory detection limit.
9. J = estimated value between the DL and the RL

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	460	-	-
	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	-
	Oct-07	105	192	-	-	-	850	702	354	550	1570	-	-	-	98	-
	Dec-07	109.2	357	-	-	-	963	1052	379	610	1829	-	-	-	108.7	-
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	-
	Oct-07	5.2	6.2	-	-	-	6.2	6.8	5.8	7.0	6.4	-	-	-	5.3	-
	Dec-07	6.60	6.29	-	-	-	7.08	6.60	6.64	7.39	6.26	-	-	-	6.61	-

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	Jun-93	22	20	23	-	20	23	22	23	21	23	21	22	21	-	-
(°C)	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	-
	Oct-07	19	18	-	-	-	22	19	23	20	24	-	-	-	20	-
	Dec-07	16.7	16.7	-	-	-	18.2	16.8	18.6	18.8	18.7	-	-	-	16.9	-
Turbidity	Jun-93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
[NTU]	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	-
	Oct-07	11	10	-	-	-	58	65	12	45	110	-	-	-	22	-
	Dec-07	79.4	14.97	-	-	-	15.00	525	47.5	64.6	9.42	-	-	-	73.3	-

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 [NC 2L/GWP STD]	Date	Concentrations (µg/L)														
		DL	RL	MW-7	MW-8	MW-9	MW-10	MW-11S	MW-11D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14	MW-14R	Blanks
Antimony	Jul-99	-	30	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	ND
[1.4]	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
	Oct-07	0.05	6.0	0.1 B	ND	-	ND	ND	ND	ND	ND	ND	ND	-	0.1 B	0.1 J
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
	Oct-07	0.47	10.0	3.5 J	4.3 J	-	1.8 J	0.5 J	ND	6.6 J	ND	9.4 J	ND	-	1.0 J	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
	Oct-07	0.04	100.0	63.3 J	32.7 J	-	44.8 J	45.7 J	40.7 J	81.8 J	47.4 J	42.2 J	46.4 J	-	42.8 J	0.2 J

TABLE 8

SUMMARY OF DETECTED CONSTITUENTS
TUSCARORA LONG-TERM REGIONAL LANDFILL

Constituent [NC 2L/GWP STD]	Date	Concentrations (µg/L)																													
		DL		RL		MW-7		MW-8		MW-9		MW-10		MW-11S		MW-11D		MW-12S		MW-12D		MW-13S		MW-13D		MW-14		MW-14R		Blanks	
Beryllium	Jul-99	-		2		5		ND		ND		ND		ND		ND		-		-		-		-		-				ND	
[4]	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	
	Oct-07	0.08		1.0		0.2	J	0.2	J	-		0.2	J	0.1	J	0.1	J	0.1	J	ND		0.1	J	ND		-		0.1	J	ND	
Cadmium	Jul-99	-		1		1		ND		ND		ND		ND		ND		-		-		-		-		-				ND	
[1.75]	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	
	Oct-07	0.06		1.0		0.6	J	0.1	B	-		0.1	B	0.5	B	0.1	B	0.2	B	0.1	B	0.1	B	0.1	B	-		0.9	J	0.1	J
Chromium	Jul-99	-		10		112		35		ND		ND		ND		ND		-		-		-		-		-		-		ND	
[50]	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	
	Oct-07	0.24		10.0		4.8	B	1.1	B	-		0.3	B	ND		ND		ND		ND		0.5	B	ND		-		ND		1.2	J

TABLE 8

SUMMARY OF DETECTED CONSTITUENTS
TUSCARORA LONG-TERM REGIONAL LANDFILL

Constituent [NC 2L/GWP STD]	Date	Concentrations (µg/L)															
		DL	RL	MW-7	MW-8	MW-9	MW-10	MW-11S	MW-11D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14	MW-14R	Blanks
Cobalt	Jul-99	-	10	13	24	ND	ND	ND	ND	-	-	-	-	-	-	ND
[70]	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
	Oct-07	0.41	10.0	0.7 J	ND	-	ND	1.0 J	ND	1.4 J	ND	ND	ND	-	2.7 J	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
	Oct-07	0.20	10.0	1.2 B	0.5 B	-	0.3 B	0.4 B	0.2 B	0.9 B	ND	0.6 B	0.2 B	-	3.3 J	0.4 J
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
	Oct-07	0.07	10.0	3.0 J	1.6 J	-	0.3 B	0.1 B	ND	0.2 B	ND	1.1 J	0.1 B	-	0.3 B	0.1 J
Nickel [100]	Oct-07	0.66	50.0	2.3 J	ND	-	0.7 J	1.8 J	1.8 J	2.0 J	1.6 J	0.8 J	1.2 J	-	3.6 J	ND
Selenium [50]	Oct-07	0.35	10.0	1.4 B	ND	-	0.4 B	0.8 B	ND	2.6 B	ND	ND	ND	-	ND	0.9 J

TABLE 8

SUMMARY OF DETECTED CONSTITUENTS
TUSCARORA LONG-TERM REGIONAL LANDFILL

Constituent [NC 2L/GWP STD]	Date	Concentrations (µg/L)																											
		DL	RL	MW-7		MW-8		MW-9		MW-10		MW-11S		MW-11D		MW-12S		MW-12D		MW-13S		MW-13D		MW-14		MW-14R		Blanks	
Thallium [0.28]	Oct-07	0.07	5.0	0.1	J	ND		-		0.1	J	ND		ND		0.2	J	ND		0.1	J	0.1	J	-		ND		ND	
Vanadium [3.5]	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	
	Oct-07	0.42	25.0	8.6	J	3.8	J	-		0.6	J	ND		ND		0.9	J	ND		2.7	J	ND		-		ND		ND	
Zinc [1050]	Jul-99	-	50	113		ND		ND		ND		ND		ND		-		-		-		-		-				ND	
	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	
	Oct-07	0.20	10.0	28	B	4.9	B	-		4.7	B	5.4	B	2.5	B	22	B	2.1	B	6.1	B	3.4	B	-		14	B	6.6	J
Acetone [700]	Oct-07	1.21	100.0	1.40	J	ND		-		1.40	J	ND		ND		ND		ND		ND		ND		-		ND		ND	
	Dec-07	2.2	25.0	ND		-		-		ND		-		-		-		-		-		-		-		-		4.3	J
Chloromethane [2.6]	Oct-07	0.18	1.0	0.80	J	0.80	J	-		0.90	J	0.80	J	0.90	J	0.90	J	0.70	J	0.90	J	0.70	J	-		0.90	J	ND	
	Dec-07	0.11	1.0	ND		ND		-		ND		ND		ND		ND		ND		ND		ND		-		ND		ND	
Methylene Chloride [4.6]	Oct-07	0.14	1.0	ND		ND		-		ND		0.20	B	ND		ND		ND		ND		ND		-		ND		0.20	J

Notes:
1. All concentrations are in micrograms per liter (µg/L).
2. MW = groundwater monitoring well
3. RL = laboratory reporting limit (NC SWSL or lower from October 2007 to present)
4. ND = not detected above laboratory reporting limit.
5. 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.
12. DL = laboratory detection limit
13. J = Estimated concentration detected between the DL and RL.
14. B = blank-qualified data; result is expected to be biased high based on concentrations in the blanks
15. A resampling event occur in December 2007.

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	MW-14R
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	-	-
	Oct-07	273	80	-	128	229	439	187	454	119	409	-	78
	Dec-07	340	83.5	-	128.9	232	497	159.2	501	146.4	482	-	73.1
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	-	-
	Oct-07	5.8	5.3	-	5.1	5.1	7.1	5.3	7.0	5.1	7.2	-	5.3
	Dec-07	6.20	6.55	-	6.22	4.53	5.82	5.46	6.01	5.17	5.98	-	5.95
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	-	-
	Oct-07	22	22	-	21	21	18	21	19	20	18	-	22
	Dec-07	17.4	18.5	-	16.7	13.8	17.9	18.2	18.9	16.0	17.1	-	16.9
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	-	-
	Oct-07	90	45	-	8.0	7.1	60	80	90	40	80	-	4.4
	Dec-07	90.3	811.0	-	31.4	34.3	9.86	53.1	50.4	46.1	17.85	-	28.8

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/GWP STD]	Date	DL	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)												
Antimony [1.4]	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
	Oct-07	0.05	6.0	0.1 B	0.1 B	0.1 B	-	0.1 B	-	0.5 B	-	0.2 B	0.1 B	0.1 B	-	0.1 J
Arsenic [50]	Jul-93	-	5	9	ND	ND	ND	ND	ND	16	ND	ND	5	ND	27	ND
	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
	Oct-07	0.47	10.0	1.0 J	ND	3.0 J	-	1.7 J	-	13	-	2.4 J	ND	1.0 J	-	ND
	Dec-07	2.7	5.0	-	-	-	-	-	-	9.5	-	-	-	-	-	ND
Barium [2000]	Jul-93	-	50	424	260	151	152	128	160	208	204	272	351	126	-	ND
	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
	Oct-07	0.04	100.0	63.7 J	37.3 J	42 J	-	91.5 J	-	184	-	30.9 J	51.8 J	34 J	-	0.2 J

TABLE 10

SUMMARY OF DETECTED CONSTITUENTS
LEACHATE STORAGE LAGOON AREA

Constituent (NC 2L/GWP STD)	Date	DL	RL	Concentrations (ug/L) 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
[4]	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	-	2	-	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
	Oct-07	0.08	1.0	0.5 J	0.1 J	0.3 J	-	0.5 J	-	1.6	-	ND	0.1 J	0.1 J	-	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	-	ND	ND	ND	-	ND
	Oct-02	-	1	ND	ND	ND	-	ND	-	ND	-	2	1	ND	-	ND
	Apr-03	-	1	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-03	-	1	ND	ND	ND	-	ND	-	ND	-	ND	5	2	-	ND
	Apr-04	-	1	3	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
	Oct-04	-	1	ND	2	ND	-	ND	-	ND	-	1	1	1	-	ND
	Apr-05	-	1	1	1	ND	-	1	-	1	-	ND	ND	2	-	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
	Oct-07	0.06	1.0	0.5 B	0.1 B	0.5 B	-	0.5 B	-	0.5 B	-	0.4 B	0.2 B	1.1	-	0.1 J
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
	Oct-07	0.24	10.0	1.1 B	1.2 B	1.4 B	-	1.6 B	-	2 B	-	3.2 B	1.4 B	2.2 B	-	1.2 J

TABLE 10

SUMMARY OF DETECTED CONSTITUENTS
LEACHATE STORAGE LAGOON AREA

Constituent [NC 2L/GWP STD]	Date	DL	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)												
Cobalt [70]	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	57 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
	Oct-07	0.41	10.0	0.5 J	ND	0.5 J	-	5.8 J	-	20	-	0.5 J	ND	ND	-	ND
Copper [1000]	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
	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
	Oct-07	0.20	10.0	0.6 B	0.9 B	0.8 B	-	0.7 B	-	0.7 B	-	1.1 B	0.3 B	1.0 B	-	0.4 J
Lead [15]	Jul-93	-	5	67	ND	7	ND	ND	ND	ND	8	34	28	ND	13	ND
	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
	Oct-07	0.07	10.0	1.0 J	0.1 B	0.8 J	-	1.0 J	-	0.6 J	-	1.6 J	0.1 B	1.8 J	-	0.1 J

TABLE 10

SUMMARY OF DETECTED CONSTITUENTS
LEACHATE STORAGE LAGOON AREA

Constituent [NC 2L/GWP STD]	Date	DL	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 (ug/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
	Oct-07	0.66	50.0	1.2 J	1.9 J	1.3 J	-	7.4 J	-	25.5 J	-	1.6 J	2.2 J	1 J	-	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
	Oct-07	0.35	10.0	3.4 B	1.1 B	1.4 B	-	1.3 B	-	1.3 B	-	1.4 B	1.1 B	1.0 B	-	0.9 J
Thallium [0.28]	Oct-07	0.07	5.0	0.2 J	0.2 J	0.1 J	-	ND	-	ND	-	ND	ND	ND	-	ND
Vanadium [3.5]	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
	Oct-07	0.42	25.0	0.5 J	ND	1.3 J	-	0.9 J	-	3.2 J	-	4.0 J	ND	3.1 J	-	ND

TABLE 10

SUMMARY OF DETECTED CONSTITUENTS
LEACHATE STORAGE LAGOON AREA

Constituent [NC 2L/GWP STD]	Date	Concentrations (ug/L) DL	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	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	ND	-	ND
	Apr-07	-	10	ND	ND	ND	-	17	-	ND	-	22	ND	11	-	ND
	Oct-07	0.20	10.0	3.8 B	4.9 B	7.7 B	-	30 B	-	53	-	17 B	1.8 B	7.7 B	-	6.6 J
2-Butanone	Oct-07	0.85	100.0	4.60 J	4.00 J	3.70 J	-	3.80 J	-	4.50 J	-	3.90 J	4.10 J	2.90 J	-	ND
[4200]	Dec-07	0.96	5.0	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
Acetone	Oct-07	1.21	100.0	3.50 J	3.10 J	3.30 J	-	2.90 J	-	3.40 J	-	3.20 J	3.50 J	2.50 J	-	ND
[700]	Dec-07	2.20	25.0	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	4.6 J
Bromomethane	Oct-07	0.26	10.0	0.30 J	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	ND
[-]	Dec-07	0.29	5.0	ND	-	-	-	-	-	-	-	-	-	-	-	ND
Chloromethane	Oct-07	0.18	1.0	1.00	0.80 J	0.70 J	-	0.90 J	-	0.90 J	-	ND	0.70 J	0.60 J	-	ND
[2.6]	Dec-07	0.11	1.0	ND	ND	ND	-	ND	-	ND	-	-	ND	ND	-	ND
Methylene Chloride [4.6]	Oct-07	0.14	1.0	ND	ND	ND	-	ND	-	ND	-	ND	ND	ND	-	0.20 J

Notes:
1. All concentrations are in µg/L.
2. LST = leachate storage tank monitoring well
3. RL = laboratory reporting limit (NC SWSL or lower) from October 2007 to present.
4. ND = not detected above reporting limit
5. J = estimated value between the DL and the RL
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
9. DL = laboratory detection limit

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	-
	Oct-07	95	494	100	-	90	-	199	-	190	531	40	-
	Dec-07	89.8	54.5	103.0	-	333	-	163.5	-	229	619	46.5	-
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	-
	Oct-07	4.8	7.1	5.0	-	4.5	-	4.6	-	6.1	7.0	4.9	-
	Dec-07	5.81	6.88	5.30	-	3.97	-	4.05	-	7.13	7.12	4.95	-

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	-
	Oct-07	22	19	22	-	20	-	20	-	22	20	22	-
	Dec-07	17.1	17.2	17.3	-	15.5	-	16.9	-	18.5	17.7	17.3	-
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	-
	Oct-07	7.1	50	7.5	-	9.5	-	13	-	45	70	40	-
	Dec-07	29.6	3.17	62.9	-	91.0	-	124	-	72.1	19.56	885	-

Notes:
1. - = not available

TABLE 12

SUMMARY OF DETECTED CONSTITUENTS
SURFACE WATER

Constituent [NC 2B in µg/L]	Date	Concentrations (µg/L)						
		DL	RL	SWPT-1	SWPT-2	UD-1	UD-2	Blanks
Antimony	Oct-07	0.05	6.0	0.1 B	0.7 J	-	-	0.1 J
[-]								
Arsenic	Jul-93	-	5	ND	ND	ND	-	ND
[50]	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
	Oct-07	0.47	10.0	1.4 J	13	-	-	ND
Barium	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
	Oct-07	0.04	100.0	47.4 J	187	-	-	0.2 J

TABLE 12

SUMMARY OF DETECTED CONSTITUENTS
SURFACE WATER

Constituent [NC 2B in µg/L]	Date	Concentrations (µg/L) DL	RL	SWPT-1	SWPT-2	UD-1	UD-2	Blanks
Beryllium	Jul-93	-	1	ND	ND	ND	-	ND
[6.5]	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
	Oct-07	0.08	1.0	ND	0.4 J	-	-	ND
Cadmium	Jul-93	-	1	ND	ND	ND	-	ND
[2.0]	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
	Oct-07	0.06	1.0	0.1 B	0.2 B	-	-	0.1 J

TABLE 12

SUMMARY OF DETECTED CONSTITUENTS
SURFACE WATER

Constituent [NC 2B in µg/L]	Date	Concentrations (µg/L)										
		DL	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	
	Oct-07	0.24	10.0	1.7	B	12		-		-	1.2	J
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	
	Oct-07	0.41	10.0	1.5	J	3.4	J	-		-	ND	

TABLE 12

SUMMARY OF DETECTED CONSTITUENTS
SURFACE WATER

Constituent [NC 2B in µg/L]	Date	Concentrations (µg/L)										
		DL	RL	SWPT-1		SWPT-2		UD-1		UD-2	Blanks	
Copper	Jul-93	-	10	15	B	13	B	10	B	-	17	
[7.0]	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	
	Oct-07	0.20	10.0	0.7	B	3.9	J	-		-	0.4	J
Lead	Jul-93	-	5	ND		ND		ND		-	ND	
[25]	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	
	Oct-07	0.07	10.0	1.1	J	8.6	J	-		-	0.1	J

TABLE 12

SUMMARY OF DETECTED CONSTITUENTS
SURFACE WATER

Constituent [NC 2B in µg/L]	Date	Concentrations (µg/L) DL	RL	SWPT-1		SWPT-2		UD-1		UD-2		Blanks	
Nickel	Jul-93	-	10	20		20		24		-		ND	
[88]	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	
	Oct-07	0.66	50.0	3.4	J	15.2	J	-		-		ND	
Selenium	Oct-07	0.35	10.0	0.5	B	19		-		-		0.9	J
[5]	Dec-07	3.8	10.0	-		ND		-		-		ND	
Thallium	Oct-07	0.07	5.0	ND		0.1	J	-		-		ND	
[-]													
Vanadium	Oct-07	0.42	25.0	2.5	J	16.5	J	-		-		ND	
[-]													
Zinc	Jul-93	-	10	11	B	23	B	11	B	-		10	
[50]	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	
	Oct-07	0.20	10.0	44		22	B	-		-		6.6	J

TABLE 12

SUMMARY OF DETECTED CONSTITUENTS
SURFACE WATER

Constituent [NC 2B in µg/L]	Date	Concentrations (µg/L) DL	RL	SWPT-1	SWPT-2	UD-1	UD-2	Blanks
Acetone	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
	Oct-07	1.21	100.0	1.40 J	6.40 J	-	-	ND
	Dec-07	2.2	25.0	ND	ND	-	-	4.3 J
2-Butanone	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
	Oct-07	0.85	100.0	ND	1.50 J	-	-	ND
	Dec-07	0.96	5.0	-	ND	-	-	ND

TABLE 12

SUMMARY OF DETECTED CONSTITUENTS
SURFACE WATER

Constituent [NC 2B in µg/L]	Date	Concentrations (µg/L)						
		DL	RL	SWPT-1	SWPT-2	UD-1	UD-2	Blanks
Carbon Disulfide	Oct-07	0.14	100.0	ND	0.30 J	-	-	ND
[-]	Dec-07	1.2	2.0	-	ND	-	-	ND
Chloromethane	Oct-07	0.18	1.0	0.80 J	1.10	-	-	ND
[-]	Dec-07	0.11	1.0	ND	ND	-	-	ND
Methylene Chloride	Oct-07	0.14	1.0	ND	ND	-	-	0.20 J
[-]								
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
	Oct-07	0.13	1.0	ND	ND	-	-	ND

Notes:
1. All concentrations are in micrograms per Liter (ug/L).
2. SWPT = surface water monitoring point
3. UD = underdrain surface water monitoring point.
4. RL = laboratory reporting limit (NC SWSL or lower October 2007 to present).
5. ND = not detected above laboratory reporting limit.
6. B = blank-qualified data; result is expected to be biased high based on concentrations in the blanks
7. Shaded values are above the NC 2B Surface Water Standards.
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. UD-1 and UD-2 were not sampled during the October 2007 event due to dry conditions.
13. - = not available
14. ( ) = resample event results
15. DL = Laboratory detection limit.
16. J = Concentrations detected between the DL and RL and are considered estimated.
17. SWPT-1 and SMPT-2 were resampled December 2007.

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
	Oct-07	562	2820	-	-
	Dec-07	2140	3630	-	-
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
	Oct-07	7.1	7.1	-	-
	Dec-07	8.09	7.48	-	-

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
	Oct-07	21	23	-	-
	Dec-07	8.5	8.1	-	-
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
	Oct-07	37	350	-	-
	Dec-07	10.49	21.2	-	-

Notes:
1. - = not available

Table 14

Summary of Detected Constituents
Leachate

Constituent	Date	DL	RL	Concentration (ug/L)	
				Leachate	Blanks
Antimony	Oct-99	-	30	47	ND
	Apr-00	-	30	ND	ND
	Oct-00	-	30	ND	ND
	Apr-01	-	30	ND	ND
	Oct-01	-	30	ND	ND
	Apr-02	-	30	ND	ND
	Apr-03	-	30	ND	ND
	Apr-05	-	30	ND	ND
	Dec-05	-	30	ND	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	6.0	7	ND
	Oct-07	0.05	6.0	4.0 J	0.1 J
Arsenic	Oct-99	-	10	ND	ND
	Apr-00	-	10	ND	ND
	Oct-00	-	10	ND	ND
	Apr-01	-	10	ND	ND
	Oct-01	-	10	12	ND
	Apr-02	-	10	27	ND
	Apr-03	-	10	55	ND
	Apr-05	-	10	74	ND
	Dec-05	-	10	52	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	10	14	ND
	Oct-07	0.47	10.0	59	ND
Barium	Oct-99	-	500	ND	ND
	Apr-00	-	500	ND	ND
	Oct-00	-	500	ND	ND
	Apr-01	-	500	ND	ND
	Oct-01	-	500	537	ND
	Apr-02	-	500	1358	ND
	Apr-03	-	500	794	ND
	Apr-05	-	500	542	ND
	Dec-05	-	500	ND	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	100	112	ND
	Oct-07	0.04	100.0	754	0.2 J

Table 14

Summary of Detected Constituents
Leachate

Constituent	Date	DL	RL	Concentration (ug/L)	
				Leachate	Blanks
Beryllium	Oct-99	-	2	ND	ND
	Apr-00	-	2	ND	ND
	Oct-00	-	2	ND	ND
	Apr-01	-	2	ND	ND
	Oct-01	-	2	ND	ND
	Apr-02	-	2	ND	ND
	Apr-03	-	2	ND	ND
	Apr-05	-	2	ND	ND
	Dec-05	-	2	ND	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	1.0	ND	ND
	Oct-07	0.08	1.0	0.1 J	ND
Cadmium	Oct-99	-	1	ND	ND
	Apr-00	-	1	ND	ND
	Oct-00	-	1	ND	ND
	Apr-01	-	1	ND	ND
	Oct-01	-	1	ND	ND
	Apr-02	-	1	2	ND
	Apr-03	-	1	ND	ND
	Apr-05	-	1	ND	ND
	Dec-05	-	1	ND	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	1.0	ND	ND
	Oct-07	0.06	1.0	2	0.1 J
Chromium	Oct-99	-	10	ND	ND
	Apr-00	-	10	ND	ND
	Oct-00	-	10	ND	ND
	Apr-01	-	10	20	ND
	Oct-01	-	10	37	ND
	Apr-02	-	10	158	ND
	Apr-03	-	10	50	ND
	Apr-05	-	10	48	ND
	Dec-05	-	10	36	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	10	ND	ND
	Oct-07	0.24	10.0	81	1.2 J

Table 14

Summary of Detected Constituents
Leachate

Constituent	Date	DL	RL	Concentration (ug/L)			
				Leachate		Blanks	
Cobalt	Oct-99	-	10	ND		ND	
	Apr-00	-	10	ND		ND	
	Oct-00	-	10	ND		ND	
	Apr-01	-	10	ND		ND	
	Oct-01	-	10	ND		ND	
	Apr-02	-	10	ND		ND	
	Apr-03	-	10	23		ND	
	Apr-05	-	10	15		ND	
	Dec-05	-	10	22		ND	
	Apr-06	-	-	-		ND	
	Oct-06	-	-	-		ND	
	Apr-07	-	10	ND		ND	
	Oct-07	0.41	10.0	14		ND	
Copper	Oct-99	-	200	ND		ND	
	Apr-00	-	200	ND		ND	
	Oct-00	-	200	ND		ND	
	Apr-01	-	200	-		ND	
	Oct-01	-	200	ND		ND	
	Apr-02	-	200	ND		ND	
	Apr-03	-	200	ND		ND	
	Apr-05	-	200	ND		ND	
	Dec-05	-	200	ND		ND	
	Apr-06	-	-	-		ND	
	Oct-06	-	-	-		ND	
	Apr-07	-	10	ND		ND	
	Oct-07	0.20	10.0	9.4	J	0.4	J
Lead	Oct-99	-	10	ND		ND	
	Apr-00	-	10	ND		ND	
	Oct-00	-	10	ND		ND	
	Apr-01	-	10	ND		ND	
	Oct-01	-	10	ND		ND	
	Apr-02	-	10	30		ND	
	Apr-03	-	10	ND		ND	
	Apr-05	-	10	11		ND	
	Dec-05	-	10	ND		ND	
	Apr-06	-	-	-		ND	
	Oct-06	-	-	-		ND	
	Apr-07	-	10	ND		ND	
	Oct-07	0.07	10.0	1.4	J	0.1	J

Table 14

Summary of Detected Constituents
Leachate

Constituent	Date	DL	RL	Concentration (ug/L)	
				Leachate	Blanks
Nickel	Oct-99	-	50	ND	ND
	Apr-00	-	50	ND	ND
	Oct-00	-	50	ND	ND
	Apr-01	-	50	ND	ND
	Oct-01	-	50	77	ND
	Apr-02	-	50	394	ND
	Apr-03	-	50	141	ND
	Apr-05	-	50	112	ND
	Dec-05	-	50	84	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	50	ND	ND
	Oct-07	0.66	50.0	77	ND
Selenium	Oct-99	-	20	ND	ND
	Apr-00	-	20	ND	ND
	Oct-00	-	10	ND	ND
	Apr-01	-	20	ND	ND
	Oct-01	-	20	ND	ND
	Apr-02	-	20	ND	ND
	Apr-03	-	20	ND	ND
	Apr-05	-	20	20	ND
	Dec-05	-	20	33	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	10	20	ND
	Oct-07	0.35	10.0	51	0.9 J
Vanadium	Oct-99	-	40	ND	ND
	Apr-00	-	40	ND	ND
	Oct-00	-	40	ND	ND
	Apr-01	-	40	ND	ND
	Oct-01	-	40	ND	ND
	Apr-02	-	40	ND	ND
	Apr-03	-	40	ND	ND
	Apr-05	-	40	ND	ND
	Dec-05	-	40	51	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	25	ND	ND
	Oct-07	0.42	25.0	17.6 J	ND

Table 14

Summary of Detected Constituents
Leachate

Constituent	Date	DL	RL	Concentration (ug/L)	
				Leachate	Blanks
Zinc	Oct-99	-	50	ND	ND
	Apr-00	-	50	ND	ND
	Oct-00	-	50	ND	ND
	Apr-01	-	50	60	ND
	Oct-01	-	50	101	ND
	Apr-02	-	50	298	ND
	Apr-03	-	50	691	ND
	Apr-05	-	50	721	ND
	Dec-05	-	50	ND	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	10	22	ND
	Oct-07	0.20	10.0	42	6.6 J
Acetone	Oct-99	-	-	ND	ND
	Apr-00	-	-	3829	ND
	Oct-00	-	-	ND	ND
	Apr-01	-	-	ND	ND
	Oct-01	-	100	-	ND
	Apr-02	-	100	9690	ND
	Apr-03	-	500	1090	ND
	Apr-05	-	500	4570	ND
	Dec-05	-	500	ND	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	100	ND	ND
	Oct-07	1.21	100.0	81.70 J	ND

Table 14

Summary of Detected Constituents
Leachate

Constituent	Date	DL	RL	Concentration (ug/L)	
				Leachate	Blanks
Benzene	Oct-99	-	-	ND	ND
	Apr-00	-	-	ND	ND
	Oct-00	-	-	ND	ND
	Apr-01	-	-	12	ND
	Oct-01	-	5	-	ND
	Apr-02	-	5	-	ND
	Apr-03	-	25	ND	ND
	Apr-05	-	25	7.3	ND
	Dec-05	-	25	ND	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	3.00	ND	ND
	Oct-07	0.16	1.0	3.90	ND
Chlorobenzene	Oct-07	0.13	3.0	1.80 J	ND
Chloroethane	Oct-99	-	-	ND	ND
	Apr-00	-	-	ND	ND
	Oct-00	-	-	ND	ND
	Apr-01	-	-	19	ND
	Oct-01	-	10	-	ND
	Apr-02	-	10	-	ND
	Apr-03	-	50	ND	ND
	Apr-05	-	50	ND	ND
	Dec-05	-	50	ND	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	5.00	ND	ND
	Oct-07	0.29	10.0	0.50 J	ND
Chloromethane	Oct-07	0.18	1.0	2.40	ND
Cis-1,2-Dichloroethylene	Oct-07	0.14	5.0	2.00 J	ND
1,1-Dichloroethane	Oct-99	-	-	ND	ND
	Apr-00	-	-	15	ND
	Oct-00	-	-	ND	ND
	Apr-01	-	-	ND	ND
	Oct-01	-	5	-	ND
	Apr-02	-	5	-	ND
	Apr-03	-	25	ND	ND
	Apr-05	-	25	ND	ND
	Dec-05	-	25	ND	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	5.00	ND	ND
	Oct-07	0.16	5.0	0.30 J	ND

Table 14

Summary of Detected Constituents
Leachate

Constituent	Date	DL	RL	Concentration (ug/L)		
				Leachate		Blanks
1,2-Dichloroethane	Oct-07	0.12	1.0	0.40	J	ND
1,2-Dichloropropane	Oct-07	0.17	1.0	0.30	J	ND
2-Butanone	Oct-99	-	-	ND		ND
	Apr-00	-	-	5343		ND
	Oct-00	-	-	ND		ND
	Apr-01	-	-	ND		ND
	Oct-01	-	100	ND		ND
	Apr-02	-	100	5640		ND
	Apr-03	-	500	861		ND
	Apr-05	-	500	1580		ND
	Dec-05	-	500	ND		ND
	Apr-06	-	-	-		ND
	Oct-06	-	-	-		ND
	Apr-07	-	100.00	ND		ND
	Oct-07	0.85	100.0	45.10	J	ND
2-Hexanone	Apr-05	-	50	67.1		ND
	Dec-05	-	250	ND		ND
	Apr-06	-	-	-		ND
	Oct-06	-	-	-		ND
	Apr-07	-	50.00	ND		ND
	Oct-07	1.00	50.0	ND		ND
Styrene	Apr-05	-	10	33.2		ND
	Dec-05	-	50	ND		ND
	Apr-06	-	-	-		ND
	Oct-06	-	-	-		ND
	Apr-07	-	10.00	ND		ND
	Oct-07	0.16	1.0	2.10		ND
1,2-Dichlorobenzene	Oct-07	0.13	5.0	1.10	J	ND
1,4-Dichlorobenzene	Apr-05	-	5	12.5		ND
	Dec-05	-	25	ND		ND
	Apr-06	-	-	-		ND
	Oct-06	-	-	-		ND
	Apr-07	-	3.00	13.40		ND
	Oct-07	0.21	1.0	15.70		ND

Table 14

Summary of Detected Constituents
Leachate

Constituent	Date	DL	RL	Concentration (ug/L)	
				Leachate	Blanks
Trichloroethylene	Oct-99	-	-	ND	ND
	Apr-00	-	-	5.6	ND
	Oct-00	-	-	ND	ND
	Apr-01	-	-	ND	ND
	Oct-01	-	5	-	ND
	Apr-02	-	5	-	ND
	Apr-03	-	25	ND	ND
	Apr-05	-	25	ND	ND
	Dec-05	-	25	ND	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	3.00	ND	ND
	Oct-07	0.13	1.0	0.30 J	ND
Tetrachloroethylene	Oct-99	-	-	ND	ND
	Apr-00	-	-	22	ND
	Oct-00	-	-	ND	ND
	Apr-01	-	-	ND	ND
	Oct-01	-	5	-	ND
	Apr-02	-	5	ND	ND
	Apr-03	-	25	ND	ND
	Apr-05	-	25	ND	ND
	Dec-05	-	25	ND	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	3.00	ND	ND
	Oct-07	0.16	1.0	ND	ND
Ethylbenzene	Oct-99	-	-	ND	ND
	Apr-00	-	-	ND	ND
	Oct-00	-	-	ND	ND
	Apr-01	-	-	66	ND
	Oct-01	-	5	-	ND
	Apr-02	-	5	93.8	ND
	Apr-03	-	25	128	ND
	Apr-05	-	25	176	ND
	Dec-05	-	25	126	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	5.00	9.50	ND
	Oct-07	0.16	1.0	179.00	ND

Table 14

Summary of Detected Constituents
Leachate

Constituent	Date	DL	RL	Concentration (ug/L)	
				Leachate	Blanks
Methylene Chloride	Oct-99	-	-	32	ND
	Apr-00	-	-	234	ND
	Oct-00	-	-	ND	ND
	Apr-01	-	-	69	ND
	Oct-01	-	10	-	ND
	Apr-02	-	10	-	ND
	Apr-03	-	50	ND	ND
	Apr-05	-	50	ND	ND
	Dec-05	-	50	ND	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	5.00	ND	ND
	Oct-07	0.14	1.0	0.30 B	0.20 J
Toluene	Oct-99	-	-	9	ND
	Apr-00	-	-	16	ND
	Oct-00	-	-	ND	ND
	Apr-01	-	-	251	ND
	Oct-01	-	5	-	ND
	Apr-02	-	5	148	ND
	Apr-03	-	25	125	ND
	Apr-05	-	25	108	ND
	Dec-05	-	25	ND	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	5.00	5.60	ND
	Oct-07	0.13	1.0	22.80	ND
1,1,1-Trichloroethane	Oct-99	-	-	75	ND
	Apr-00	-	-	29	ND
	Oct-00	-	-	ND	ND
	Apr-01	-	-	ND	ND
	Oct-01	-	5	-	ND
	Apr-02	-	5	-	ND
	Apr-03	-	25	ND	ND
	Apr-05	-	25	ND	ND
	Dec-05	-	25	ND	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	5.00	ND	ND
	Oct-07	0.11	1.0	ND	ND
1,2,3-Trichloropropane	Oct-07	0.06	1.0	0.10 J	ND
1,1,2,2-Tetrachloroethane	Oct-07	0.16	3.0	0.30 J	ND

Table 14

Summary of Detected Constituents
Leachate

Constituent	Date	DL	RL	Concentration (ug/L)	
				Leachate	Blanks
Trichlorofluoromethane	Oct-99	-	-	220	ND
	Apr-00	-	-	37	ND
	Oct-00	-	-	ND	ND
	Apr-01	-	-	10	ND
	Oct-01	-	5	-	ND
	Apr-02	-	5	-	ND
	Apr-03	-	25	ND	ND
	Apr-05	-	25	ND	ND
	Dec-05	-	25	ND	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	5.00	ND	ND
	Oct-07	0.13	1.0	ND	ND
Vinyl Chloride	Oct-99	-	-	ND	ND
	Apr-00	-	-	ND	ND
	Oct-00	-	-	ND	ND
	Apr-01	-	-	36	ND
	Oct-01	-	10	-	ND
	Apr-02	-	10	-	ND
	Apr-03	-	50	ND	ND
	Apr-05	-	50	ND	ND
	Dec-05	-	50	ND	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	5.00	ND	ND
	Oct-07	0.34	1.0	1.10	ND
4-Methyl-2-Pentanone	Oct-99	-	-	ND	ND
	Apr-00	-	-	116	ND
	Oct-00	-	-	ND	ND
	Apr-01	-	-	471	ND
	Oct-01	-	50	-	ND
	Apr-02	-	50	-	ND
	Apr-03	-	500	923	ND
	Apr-05	-	500	2530	ND
	Dec-05	-	500	ND	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	100.00	ND	ND
	Oct-07	0.68	100.0	51.50 J	ND

Table 14

Summary of Detected Constituents
Leachate

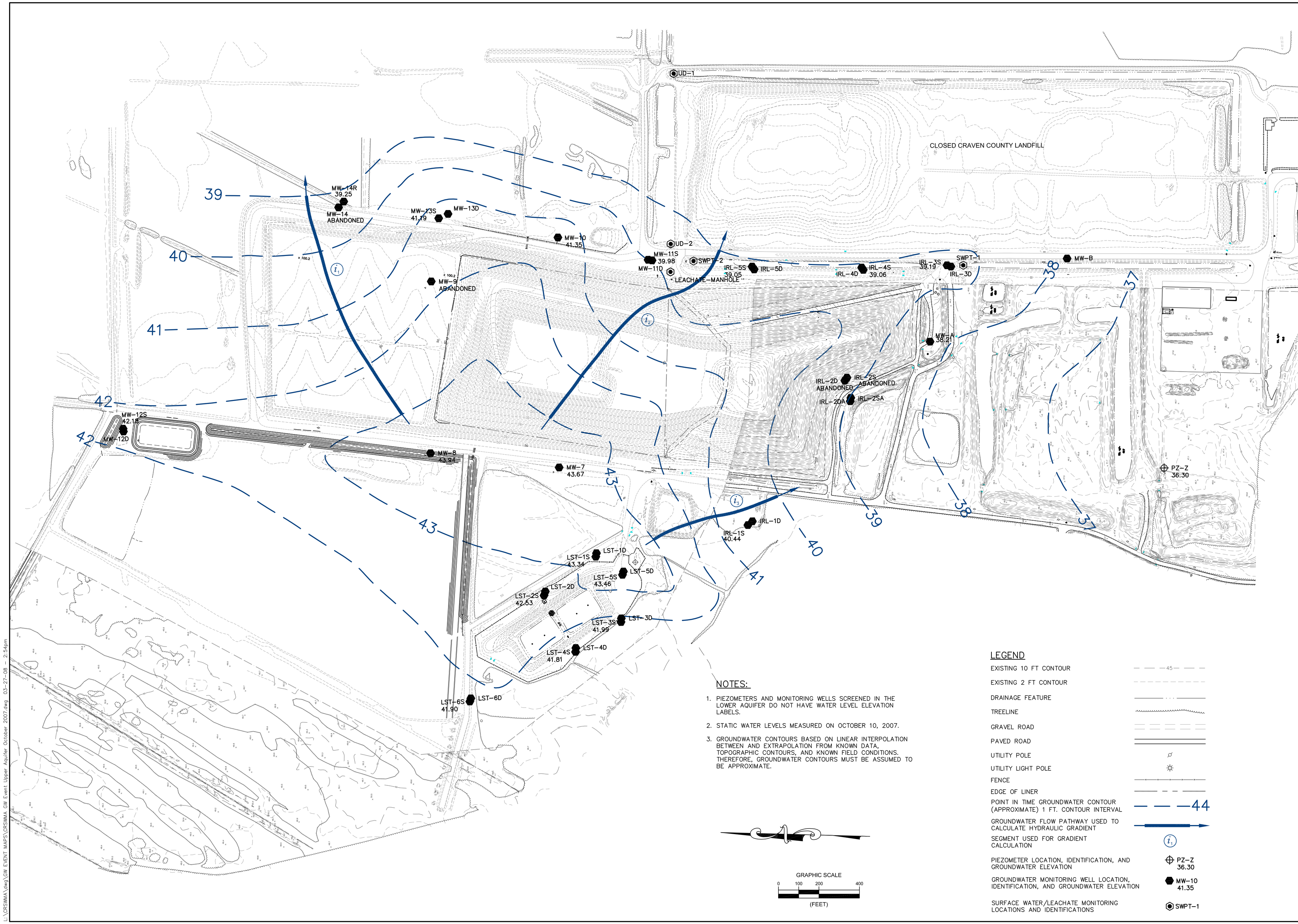
Constituent	Date	DL	RL	Concentration (ug/L)	
				Leachate	Blanks
Xylenes (total)	Oct-99	-	-	ND	ND
[530]	Apr-00	-	-	ND	ND
	Oct-00	-	-	ND	ND
	Apr-01	-	-	52	ND
	Oct-01	-	5	-	ND
	Apr-02	-	5	60.6	ND
	Apr-03	-	25	102	ND
	Apr-05	-	25	147	ND
	Dec-05	-	25	189	ND
	Apr-06	-	-	-	ND
	Oct-06	-	-	-	ND
	Apr-07	-	4.00	37.20	ND
	Oct-07	0.48	5.0	158.00	ND

Notes:

1. All concentrations are in ug/L.
2. RL = laboratory reporting limit (NC SWSL or lower from October 2007 to present)
3. ND = not detected above reporting limit
4. J = estimated value between the DL and the QL
5. B = blank-qualified data; result is expected to be biased high based on concentrations in the blanks
6. DL = laboratory detection limit
7. - = not available

Drawings

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



NOTES:

1. PIEZOMETERS AND MONITORING WELLS SCREENED IN THE LOWER AQUIFER DO NOT HAVE WATER LEVEL ELEVATION LABELS.
2. STATIC WATER LEVELS MEASURED ON OCTOBER 10, 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) 1 FT. CONTOUR INTERVAL	44
GROUNDWATER FLOW PATHWAY USED TO CALCULATE HYDRAULIC GRADIENT	
SEGMENT USED FOR GRADIENT CALCULATION	i_1
PIEZOMETER LOCATION, IDENTIFICATION, AND GROUNDWATER ELEVATION	PZ-Z 36.30
GROUNDWATER MONITORING WELL LOCATION, IDENTIFICATION, AND GROUNDWATER ELEVATION	MW-10 41.35
SURFACE WATER/LEACHATE MONITORING LOCATIONS AND IDENTIFICATIONS	SWPT-1

NO	BY	CK	APP

DATE — REVISIONS AND RECORD OF ISSUE

DESIGNED JJK
DRAWN CADD/JJK
CHECKED VB
APPROVED VB
DATE 11/07/07

© 2007 Joyce Engineering, Inc.
All rights reserved.

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

CRSWMA: TUSCARORA LANDFILL

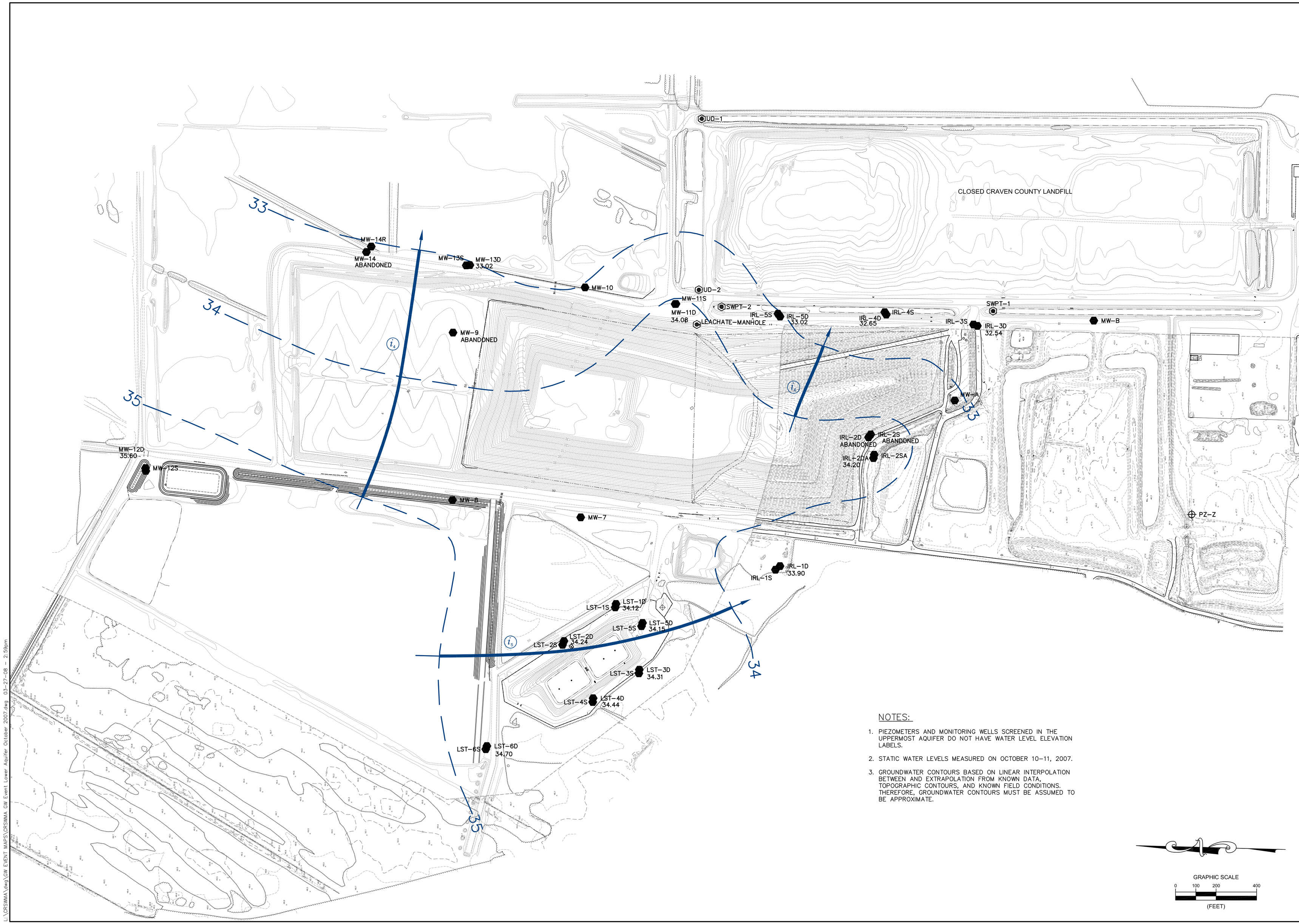
SHALLOW AQUIFER GROUNDWATER SURFACE CONTOUR MAP
OCTOBER 10-11, 2007

PROJECT NO.
618.01.22

SCALE
1"=200'

DRAWING NO.
1

L:\CRSWMA\dwg\GW EVENT MAPS\CRSWMA GW Event Upper Aquifer October 2007.dwg 03-27-08 2:54pm



NOTES:

1. PIEZOMETERS AND MONITORING WELLS SCREENED IN THE UPPERMOST AQUIFER DO NOT HAVE WATER LEVEL ELEVATION LABELS.
2. STATIC WATER LEVELS MEASURED ON OCTOBER 10–11, 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.

DATE	REVISIONS AND RECORD OF ISSUE	NO	BY	CK	APP

DESIGNED JJK
DRAWN CADD/JJK
CHECKED VB
APPROVED
DATE 11/07/07

© 2007 Joyce Engineering, Inc.
All rights reserved.

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

CRSWMA: TUSCARORA REGIONAL LANDFILL

DEEP AQUIFER GROUNDWATER
SURFACE CONTOUR MAP
OCTOBER 10–11, 2007

PROJECT NO.
618.01.22

SCALE
1"=200'

DRAWING NO.
2

L:\CRSWMA\dwg\GW EVENT MAPS\CRSWMA GW Event Lower Aquifer October 2007.dwg 03-27-08 - 2:59pm

Statistical Analyses

Summary of Statistical Analyses, Second Semiannual Sampling Event of 2007
Detailed Results

CRSWMA - Tuscarora Landfill
Summary of Statistical Analyses
Second Semiannual Sampling Event of 2007

Analyte	Data Distribution	Statistical Method used to Establish Background	Background (µg/L)	Noted Increases
Arsenic	n/a	Upper Poisson Prediction Limit	130	-
Barium	n/a	Non-parametric Prediction Interval	869	-
Cadmium	n/a	Non-parametric Prediction Interval	4	-
Chromium	n/a	Non-parametric Prediction Interval	112	-
Cobalt	n/a	Non-parametric Prediction Interval	41	-
Selenium	n/a	Upper Poisson Prediction Limit	163	-
Zinc	n/a	Nonparametric Prediction Interval	192	-

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

JEI Project: **CRSWMA - Tuscarora Landfill**
Project No: **618.01.22**
Sample Date: **01/07/08**

Analyte: **Arsenic**

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	Jul-93	IRL-1S	11		5
2	Aug-93	IRL-1S	6		5
3	Sep-93	IRL-1S	ND		5
4	Sep-93	IRL-1S	6		5
5	Apr-94	IRL-1S	ND		5
6	Oct-94	IRL-1S	ND		10
7	Apr-95	IRL-1S	ND		10
8	Oct-95	IRL-1S	ND		10
9	Apr-96	IRL-1S	ND		10
10	Oct-96	IRL-1S	ND		10
11	Apr-97	IRL-1S	ND		10
12	Oct-97	IRL-1S	ND		10
13	Apr-98	IRL-1S	ND		10
14	Oct-98	IRL-1S	ND		10
15	Mar-99	IRL-1S	ND		10
16	Oct-99	IRL-1S	ND		10
17	Apr-00	IRL-1S	ND		10
18	Oct-00	IRL-1S	ND		10
19	Apr-01	IRL-1S	ND		10
20	Oct-01	IRL-1S	ND		10
21	Apr-02	IRL-1S	ND		10
22	Oct-02	IRL-1S	ND		10
23	Apr-03	IRL-1S	ND		10
24	Oct-03	IRL-1S	ND		10
25	Apr-04	IRL-1S	ND		10
26	Oct-04	IRL-1S	ND		10
27	Apr-05	IRL-1S	ND		10
28	Oct-05	IRL-1S	ND		10
29	Apr-06	IRL-1S	ND		10
30	Oct-06	IRL-1S	ND		10
31	Apr-07	IRL-1S	ND		10
32	Oct-07	IRL-1S	3.0	J	10
33	Jul-93	IRL-1D	8		5
34	Aug-93	IRL-1D	ND		5
35	Sep-93	IRL-1D	ND		5
36	Sep-93	IRL-1D	10		5
37	Apr-94	IRL-1D	ND		5
38	Oct-94	IRL-1D	ND		10
39	Apr-95	IRL-1D	ND		10
40	Oct-95	IRL-1D	ND		10

41	Apr-96	IRL-1D	ND		10
42	Oct-05	IRL-1D	52		10
43	Apr-06	IRL-1D	ND		10
44	Oct-06	IRL-1D	ND		10
45	Apr-07	IRL-1D	ND		10
46	Oct-07	IRL-1D	ND		10
47	Oct-02	LST-5S	ND		10
48	Apr-03	LST-5S	ND		10
49	Oct-03	LST-5S	ND		10
50	Apr-04	LST-5S	ND		10
51	Oct-04	LST-5S	ND		10
52	Apr-05	LST-5S	ND		10
53	Oct-05	LST-5S	ND		10
54	Apr-06	LST-5S	ND		10
55	Oct-06	LST-5S	ND		10
56	Apr-07	LST-5S	ND		10
57	Oct-07	LST-5S	ND		10.0
58	Jul-99	MW-7	37		10
59	Aug-99	MW-7	13		10
60	Oct-99	MW-7	ND		10
61	Nov-99	MW-7	ND		10
62	Apr-00	MW-7	ND		10
63	Oct-00	MW-7	ND		10
64	Apr-01	MW-7	ND		10
65	Oct-01	MW-7	ND		10
66	Apr-02	MW-7	10		10
67	Oct-02	MW-7	ND		10
68	Apr-03	MW-7	ND		10
69	Oct-03	MW-7	ND		10
70	Apr-04	MW-7	ND		10
71	Oct-04	MW-7	ND		10
72	Apr-02	MW-12S	ND		10
73	Oct-02	MW-12S	ND		10
74	Apr-03	MW-12S	ND		10
75	Oct-03	MW-12S	ND		10
76	Apr-04	MW-12S	ND		10
77	Oct-04	MW-12S	ND		10
78	Apr-05	MW-12S	ND		10
79	Oct-05	MW-12S	ND		10
80	Apr-06	MW-12S	ND		10
81	Oct-06	MW-12S	ND		10
82	Apr-07	MW-12S	ND		10
83	Oct-07	MW-12S	6.6	J	10.0
84	Apr-02	MW-12D	ND		10
85	Oct-02	MW-12D	ND		10
86	Apr-03	MW-12D	ND		10
87	Oct-03	MW-12D	ND		10
88	Apr-04	MW-12D	ND		10
89	Oct-04	MW-12D	ND		10
90	Apr-05	MW-12D	ND		10
91	Oct-05	MW-12D	ND		10
92	Apr-06	MW-12D	ND		10
93	Oct-06	MW-12D	ND		10

94	Apr-07	MW-12D	ND	10
95	Oct-07	MW-12D	ND	10.0
96	Apr-04	MW-13S	ND	10
97	Oct-04	MW-13S	ND	10
98	Apr-05	MW-13S	ND	10
99	Oct-05	MW-13S	ND	10
100	Apr-04	MW-13D	ND	10
101	Oct-04	MW-13D	ND	10
102	Apr-05	MW-13D	ND	10
103	Oct-05	MW-13D	ND	10
104	Apr-04	MW-14	ND	10
105	Oct-04	MW-14	ND	10
106	Apr-05	MW-14	ND	10
107	Oct-05	MW-14	ND	10

Number of Data:	107
Number of Truncated Data:	96
Percentage of Truncated Data:	90%
Upper Poisson Prediction Limit:	**130**

- All concentrations in micrograms per liter.

JEI Project: **CRSWMA - Tuscarora Landfill**
Project No: **618.01.22**
Date: **01/07/08**

Upper Poisson Prediction Limit

Analyte: **Arsenic**

Background Data

Sample	Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)	Half Quantitation Limit	Discete Poisson Count	Rounded Discrete Poisson Count
1	Jul-93	IRL-1S	11		5	11	110	110
2	Aug-93	IRL-1S	6		5	6	60	60
3	Sep-93	IRL-1S	ND		5	2.5	25	25
4	Sep-93	IRL-1S	6		5	6	60	60
5	Apr-94	IRL-1S	ND		5	2.5	25	25
6	Oct-94	IRL-1S	ND		10	5	50	50
7	Apr-95	IRL-1S	ND		10	5	50	50
8	Oct-95	IRL-1S	ND		10	5	50	50
9	Apr-96	IRL-1S	ND		10	5	50	50
10	Oct-96	IRL-1S	ND		10	5	50	50
11	Apr-97	IRL-1S	ND		10	5	50	50
12	Oct-97	IRL-1S	ND		10	5	50	50
13	Apr-98	IRL-1S	ND		10	5	50	50
14	Oct-98	IRL-1S	ND		10	5	50	50
15	Mar-99	IRL-1S	ND		10	5	50	50
16	Oct-99	IRL-1S	ND		10	5	50	50
17	Apr-00	IRL-1S	ND		10	5	50	50
18	Oct-00	IRL-1S	ND		10	5	50	50
19	Apr-01	IRL-1S	ND		10	5	50	50
20	Oct-01	IRL-1S	ND		10	5	50	50
21	Apr-02	IRL-1S	ND		10	5	50	50
22	Oct-02	IRL-1S	ND		10	5	50	50
23	Apr-03	IRL-1S	ND		10	5	50	50
24	Oct-03	IRL-1S	ND		10	5	50	50
25	Apr-04	IRL-1S	ND		10	5	50	50
26	Oct-04	IRL-1S	ND		10	5	50	50
27	Apr-05	IRL-1S	ND		10	5	50	50
28	Oct-05	IRL-1S	ND		10	5	50	50
29	Apr-06	IRL-1S	ND		10	5	50	50
30	Oct-06	IRL-1S	ND		10	5	50	50
31	Apr-07	IRL-1S	ND		10	5	50	50
32	Oct-07	IRL-1S	3.0	J	10	3.0	30	30
33	Jul-93	IRL-1D	8		5	8	80	80
34	Aug-93	IRL-1D	ND		5	2.5	25	25
35	Sep-93	IRL-1D	ND		5	2.5	25	25
36	Sep-93	IRL-1D	10		5	10	100	100
37	Apr-94	IRL-1D	ND		5	2.5	25	25
38	Oct-94	IRL-1D	ND		10	5	50	50
39	Apr-95	IRL-1D	ND		10	5	50	50
40	Oct-95	IRL-1D	ND		10	5	50	50
41	Apr-96	IRL-1D	ND		10	5	50	50
42	Oct-05	IRL-1D	52		10	52	520	520
43	Apr-06	IRL-1D	ND		10	5	50	50
44	Oct-06	IRL-1D	ND		10	5	50	50
45	Apr-07	IRL-1D	ND		10	5	50	50
46	Oct-07	IRL-1D	ND		10	5	50	50
47	Oct-02	LST-5S	ND		10	5	50	50
48	Apr-03	LST-5S	ND		10	5	50	50
49	Oct-03	LST-5S	ND		10	5	50	50
50	Apr-04	LST-5S	ND		10	5	50	50
51	Oct-04	LST-5S	ND		10	5	50	50
52	Apr-05	LST-5S	ND		10	5	50	50
53	Oct-05	LST-5S	ND		10	5	50	50
54	Apr-06	LST-5S	ND		10	5	50	50
55	Oct-06	LST-5S	ND		10	5	50	50
56	Apr-07	LST-5S	ND		10	5	50	50
57	Oct-07	LST-5S	ND		10.0	5	50	50
58	Jul-99	MW-7	37		10	37	370	370

59	Aug-99	MW-7	13		10	13	130	130
60	Oct-99	MW-7	ND		10	5	50	50
61	Nov-99	MW-7	ND		10	5	50	50
62	Apr-00	MW-7	ND		10	5	50	50
63	Oct-00	MW-7	ND		10	5	50	50
64	Apr-01	MW-7	ND		10	5	50	50
65	Oct-01	MW-7	ND		10	5	50	50
66	Apr-02	MW-7	10		10	10	100	100
67	Oct-02	MW-7	ND		10	5	50	50
68	Apr-03	MW-7	ND		10	5	50	50
69	Oct-03	MW-7	ND		10	5	50	50
70	Apr-04	MW-7	ND		10	5	50	50
71	Oct-04	MW-7	ND		10	5	50	50
72	Apr-02	MW-12S	ND		10	5	50	50
73	Oct-02	MW-12S	ND		10	5	50	50
74	Apr-03	MW-12S	ND		10	5	50	50
75	Oct-03	MW-12S	ND		10	5	50	50
76	Apr-04	MW-12S	ND		10	5	50	50
77	Oct-04	MW-12S	ND		10	5	50	50
78	Apr-05	MW-12S	ND		10	5	50	50
79	Oct-05	MW-12S	ND		10	5	50	50
80	Apr-06	MW-12S	ND		10	5	50	50
81	Oct-06	MW-12S	ND		10	5	50	50
82	Apr-07	MW-12S	ND		10	5	50	50
83	Oct-07	MW-12S	6.6	J	10.0	6.6	66	66
84	Apr-02	MW-12D	ND		10	5	50	50
85	Oct-02	MW-12D	ND		10	5	50	50
86	Apr-03	MW-12D	ND		10	5	50	50
87	Oct-03	MW-12D	ND		10	5	50	50
88	Apr-04	MW-12D	ND		10	5	50	50
89	Oct-04	MW-12D	ND		10	5	50	50
90	Apr-05	MW-12D	ND		10	5	50	50
91	Oct-05	MW-12D	ND		10	5	50	50
92	Apr-06	MW-12D	ND		10	5	50	50
93	Oct-06	MW-12D	ND		10	5	50	50
94	Apr-07	MW-12D	ND		10	5	50	50
95	Oct-07	MW-12D	ND		10.0	5	50	50
96	Apr-04	MW-13S	ND		10	5	50	50
97	Oct-04	MW-13S	ND		10	5	50	50
98	Apr-05	MW-13S	ND		10	5	50	50
99	Oct-05	MW-13S	ND		10	5	50	50
100	Apr-04	MW-13D	ND		10	5	50	50
101	Oct-04	MW-13D	ND		10	5	50	50
102	Apr-05	MW-13D	ND		10	5	50	50
103	Oct-05	MW-13D	ND		10	5	50	50
104	Apr-04	MW-14	ND		10	5	50	50
105	Oct-04	MW-14	ND		10	5	50	50
106	Apr-05	MW-14	ND		10	5	50	50
107	Oct-05	MW-14	ND		10	5	50	50

Poisson Discrete Distribution Adjustment Factor = 10

Note: All sample concentrations are micrograms per liter

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

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

where:

c = k / n
y = Poisson count
t = t(n-1, 0.95), Student's t-distribution
n-1 = degrees of freedom (number of samples - 1)
k = number of downgradient samples per event (21)
.95 = confidence interval
n = number of background samples

For:

c = 0.196
y = 6301.00
k = 21
t = 1.660
n = 107

y* = 1301
Adjusted y* = 130

JEI Project: **CRSWMA - Tuscarora Landfill**
Project No: **618.01.22**
Sample Date: **01/07/08**

Analyte: **Barium**

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

42	Oct-05	IRL-1D	ND		500
43	Apr-06	IRL-1D	ND		500
44	Oct-06	IRL-1D	ND		500
45	Apr-07	IRL-1D	ND		100
46	Oct-07	IRL-1D	56.4	J	100.0
47	Oct-02	LST-5S	ND		500
48	Apr-03	LST-5S	ND		500
49	Oct-03	LST-5S	ND		500
50	Apr-04	LST-5S	ND		500
51	Oct-04	LST-5S	ND		500
52	Apr-05	LST-5S	ND		500
53	Oct-05	LST-5S	ND		500
54	Apr-06	LST-5S	ND		500
55	Oct-06	LST-5S	ND		500
56	Apr-07	LST-5S	ND		100
57	Oct-07	LST-5S	51.8	J	100.0
58	Jul-99	MW-7	869		500
59	Aug-99	MW-7	ND		500
60	Oct-99	MW-7	ND		500
61	Nov-99	MW-7	ND		500
62	Apr-00	MW-7	ND		500
63	Oct-00	MW-7	ND		500
64	Apr-01	MW-7	ND		500
65	Oct-01	MW-7	ND		500
66	Apr-02	MW-7	ND		500
67	Oct-02	MW-7	ND		500
68	Apr-03	MW-7	ND		500
69	Oct-03	MW-7	ND		500
70	Apr-04	MW-7	ND		500
71	Oct-04	MW-7	ND		500
72	Apr-02	MW-12S	ND		500
73	Oct-02	MW-12S	ND		500
74	Apr-03	MW-12S	ND		500
75	Oct-03	MW-12S	ND		500
76	Apr-04	MW-12S	ND		500
77	Oct-04	MW-12S	ND		500
78	Apr-05	MW-12S	ND		500
79	Oct-05	MW-12S	ND		500
80	Apr-06	MW-12S	ND		500
81	Oct-06	MW-12S	ND		500
82	Apr-07	MW-12S	ND		100
83	Oct-07	MW-12S	81.8	J	100.0
84	Apr-02	MW-12D	ND		500
85	Oct-02	MW-12D	ND		500
86	Apr-03	MW-12D	ND		500
87	Oct-03	MW-12D	ND		500
88	Apr-04	MW-12D	ND		500
89	Oct-04	MW-12D	ND		500
90	Apr-05	MW-12D	ND		500
91	Oct-05	MW-12D	ND		500
92	Apr-06	MW-12D	ND		500
93	Oct-06	MW-12D	ND		500

94	Apr-07	MW-12D	ND		100
95	Oct-07	MW-12D	47.4	J	100.0
96	Apr-04	MW-13S	ND		500
97	Oct-04	MW-13S	ND		500
98	Apr-05	MW-13S	ND		500
99	Oct-05	MW-13S	ND		500
100	Apr-04	MW-13D	ND		500
101	Oct-04	MW-13D	ND		500
102	Apr-05	MW-13D	ND		500
103	Oct-05	MW-13D	ND		500
104	Apr-04	MW-14	ND		500
105	Oct-04	MW-14	ND		500
106	Apr-05	MW-14	ND		500
107	Oct-05	MW-14	ND		500

Number of Data:	107
Number of Truncated Data:	91
Percentage of Truncated Data:	85%
Non-Parametric Prediction Limit:	**869**

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

JEI Project: **CRSWMA - Tuscarora Landfill**
Project No: **618.01.22**
Sample Date: **01/07/08**

Analyte: **Cadmium**

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	Jul-93	IRL-1S	ND		1
2	Aug-93	IRL-1S	ND		1
3	Sep-93	IRL-1S	ND		1
4	Sep-93	IRL-1S	ND		1
5	Apr-94	IRL-1S	ND		1
6	Oct-94	IRL-1S	ND		1
7	Apr-95	IRL-1S	ND		1
8	Oct-95	IRL-1S	ND		1
9	Apr-96	IRL-1S	ND		1
10	Oct-96	IRL-1S	ND		1
11	Apr-97	IRL-1S	ND		1
12	Oct-97	IRL-1S	ND		1
13	Apr-98	IRL-1S	ND		1
14	Oct-98	IRL-1S	ND		1
15	Mar-99	IRL-1S	ND		1
16	Oct-99	IRL-1S	ND		1
17	Apr-00	IRL-1S	ND		1
18	Oct-00	IRL-1S	ND		1
19	Apr-01	IRL-1S	ND		1
20	Oct-01	IRL-1S	ND		1
21	Apr-02	IRL-1S	ND		1
22	Oct-02	IRL-1S	1		1
23	Apr-03	IRL-1S	ND		1
24	Oct-03	IRL-1S	ND		1
25	Apr-04	IRL-1S	ND		1
26	Oct-04	IRL-1S	ND		1
27	Apr-05	IRL-1S	ND		1
28	Oct-05	IRL-1S	ND		1
29	Apr-06	IRL-1S	ND		1
30	Oct-06	IRL-1S	ND		1
31	Apr-07	IRL-1S	ND		1.0
32	Oct-07	IRL-1S	0.3	J	1.0
33	Jul-93	IRL-1D	ND		1
34	Aug-93	IRL-1D	ND		1
35	Sep-93	IRL-1D	ND		1
36	Sep-93	IRL-1D	ND		1
37	Apr-94	IRL-1D	ND		1
38	Oct-94	IRL-1D	ND		1
39	Apr-95	IRL-1D	ND		1
40	Oct-95	IRL-1D	ND		1
41	Apr-96	IRL-1D	ND		1
42	Oct-05	IRL-1D	4		1
43	Apr-06	IRL-1D	ND		1
44	Oct-06	IRL-1D	ND		1
45	Apr-07	IRL-1D	ND		1.0

46	Oct-07	IRL-1D	0.4	J	1.0
47	Oct-02	LST-5S	2		1
48	Apr-03	LST-5S	ND		1
49	Oct-03	LST-5S	ND		1
50	Apr-04	LST-5S	ND		1
51	Oct-04	LST-5S	1		1
52	Apr-05	LST-5S	ND		1
53	Oct-05	LST-5S	ND		1
54	Apr-06	LST-5S	ND		1
55	Oct-06	LST-5S	ND		1
56	Apr-07	LST-5S	ND		1.0
57	Oct-07	LST-5S	0.4	J	1.0
58	Jul-99	MW-7	1		1
59	Aug-99	MW-7	ND		1
60	Oct-99	MW-7	ND		1
61	Nov-99	MW-7	ND		1
62	Apr-00	MW-7	ND		1
63	Oct-00	MW-7	ND		1
64	Apr-01	MW-7	ND		1
65	Oct-01	MW-7	ND		1
66	Apr-02	MW-7	ND		1
67	Oct-02	MW-7	1		1
68	Apr-03	MW-7	ND		1
69	Oct-03	MW-7	ND		1
70	Apr-04	MW-7	ND		1
71	Oct-04	MW-7	ND		1
72	Apr-02	MW-12S	ND		1
73	Oct-02	MW-12S	ND		1
74	Apr-03	MW-12S	ND		1
75	Oct-03	MW-12S	ND		1
76	Apr-04	MW-12S	ND		1
77	Oct-04	MW-12S	ND		1
78	Apr-05	MW-12S	ND		1
79	Oct-05	MW-12S	ND		1
80	Apr-06	MW-12S	ND		1
81	Oct-06	MW-12S	ND		1
82	Apr-07	MW-12S	ND		1.0
83	Oct-07	MW-12S	0.2	J	1.0
84	Apr-02	MW-12D	ND		1
85	Oct-02	MW-12D	ND		1
86	Apr-03	MW-12D	ND		1
87	Oct-03	MW-12D	ND		1
88	Apr-04	MW-12D	2		1
89	Oct-04	MW-12D	ND		1
90	Apr-05	MW-12D	ND		1
91	Oct-05	MW-12D	ND		1
92	Apr-06	MW-12D	ND		1
93	Oct-06	MW-12D	ND		1
94	Apr-07	MW-12D	ND		1.0
95	Oct-07	MW-12D	0.1	J	1.0
96	Apr-04	MW-13S	ND		1
97	Oct-04	MW-13S	ND		1
98	Apr-05	MW-13S	ND		1

99	Oct-05	MW-13S	ND	1
100	Apr-04	MW-13D	ND	1
101	Oct-04	MW-13D	1	1
102	Apr-05	MW-13D	ND	1
103	Oct-05	MW-13D	ND	1
104	Apr-04	MW-14	ND	1
105	Oct-04	MW-14	ND	1
106	Apr-05	MW-14	ND	1
107	Oct-05	MW-14	ND	1

Number of Data:	107
Number of Truncated Data:	94
Percentage of Truncated Data:	88%
Non-Parametric Prediction Limit:	**4**

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

JEI Project: **CRSWMA - Tuscarora Landfill**
Project No: **618.01.22**
Sample Date: **01/08/07**

Analyte: **Chromium**

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	Jul-93	IRL-1S	36		5
2	Aug-93	IRL-1S	14		5
3	Sep-93	IRL-1S	11		5
4	Sep-93	IRL-1S	19		5
5	Apr-94	IRL-1S	10		5
6	Oct-94	IRL-1S	ND		10
7	Apr-95	IRL-1S	ND		10
8	Oct-95	IRL-1S	13		10
9	Apr-96	IRL-1S	ND		10
10	Oct-96	IRL-1S	39		10
11	Apr-97	IRL-1S	23		10
12	Oct-97	IRL-1S	50		10
13	Apr-98	IRL-1S	18		10
14	Oct-98	IRL-1S	ND		10
15	Mar-99	IRL-1S	58		10
16	Oct-99	IRL-1S	21		10
17	Apr-00	IRL-1S	87		5
18	Oct-00	IRL-1S	21		10
19	Apr-01	IRL-1S	11		10
20	Oct-01	IRL-1S	ND		10
21	Apr-02	IRL-1S	ND		10
22	Oct-02	IRL-1S	15		10
23	Apr-03	IRL-1S	ND		10
24	Oct-03	IRL-1S	12		10
25	Apr-04	IRL-1S	13		10
26	Oct-04	IRL-1S	ND		10
27	Apr-05	IRL-1S	ND		10
28	Oct-05	IRL-1S	ND		10
29	Apr-06	IRL-1S	ND		10
30	Oct-06	IRL-1S	ND		10
31	Apr-07	IRL-1S	ND		10
32	Oct-07	IRL-1S	1.6	J	10.0
33	Jul-93	IRL-1D	18		5
34	Aug-93	IRL-1D	8		5
35	Sep-93	IRL-1D	11		5
36	Sep-93	IRL-1D	43		5
37	Apr-94	IRL-1D	ND		5
38	Oct-94	IRL-1D	ND		10
39	Apr-95	IRL-1D	ND		10
40	Oct-95	IRL-1D	ND		10
41	Apr-96	IRL-1D	ND		10
42	Oct-05	IRL-1D	29		10
43	Apr-06	IRL-1D	ND		10
44	Oct-06	IRL-1D	ND		10
45	Apr-07	IRL-1D	ND		10
46	Oct-07	IRL-1D	1.2	J	10.0

47	Oct-02	LST-5S	ND	10
48	Apr-03	LST-5S	14	10
49	Oct-03	LST-5S	14	10
50	Apr-04	LST-5S	11	10
51	Oct-04	LST-5S	ND	10
52	Apr-05	LST-5S	ND	10
53	Oct-05	LST-5S	ND	10
54	Apr-06	LST-5S	ND	10
55	Oct-06	LST-5S	ND	10
56	Apr-07	LST-5S	ND	10
57	Oct-07	LST-5S	ND	10.0
58	Jul-99	MW-7	112	10
59	Aug-99	MW-7	29	10
60	Oct-99	MW-7	14	1
61	Nov-99	MW-7	22	10
62	Apr-00	MW-7	11	10
63	Oct-00	MW-7	16	10
64	Apr-01	MW-7	11	10
65	Oct-01	MW-7	38	10
66	Apr-02	MW-7	43	10
67	Oct-02	MW-7	15	10
68	Apr-03	MW-7	ND	10
69	Oct-03	MW-7	ND	10
70	Apr-04	MW-7	18	10
71	Oct-04	MW-7	ND	10
72	Apr-02	MW-12S	ND	10
73	Oct-02	MW-12S	ND	10
74	Apr-03	MW-12S	ND	10
75	Oct-03	MW-12S	ND	10
76	Apr-04	MW-12S	ND	10
77	Oct-04	MW-12S	ND	10
78	Apr-05	MW-12S	ND	10
79	Oct-05	MW-12S	ND	10
80	Apr-06	MW-12S	ND	10
81	Oct-06	MW-12S	ND	10
82	Apr-07	MW-12S	ND	10
83	Oct-07	MW-12S	ND	10.0
84	Apr-02	MW-12D	ND	10
85	Oct-02	MW-12D	ND	10
86	Apr-03	MW-12D	ND	10
87	Oct-03	MW-12D	ND	10
88	Apr-04	MW-12D	ND	10
89	Oct-04	MW-12D	ND	10
90	Apr-05	MW-12D	ND	10
91	Oct-05	MW-12D	ND	10
92	Apr-06	MW-12D	ND	10
93	Oct-06	MW-12D	ND	10
94	Apr-07	MW-12D	ND	10
95	Oct-07	MW-12D	ND	10.0
96	Apr-04	MW-13S	17	10
97	Oct-04	MW-13S	ND	10

98	Apr-05	MW-13S	ND	10
99	Oct-05	MW-13S	ND	10
100	Apr-04	MW-13D	ND	10
101	Oct-04	MW-13D	ND	10
102	Apr-05	MW-13D	ND	10
103	Oct-05	MW-13D	ND	10
104	Apr-04	MW-14	ND	10
105	Oct-04	MW-14	ND	10
106	Apr-05	MW-14	ND	10
107	Oct-05	MW-14	ND	10

Number of Data:	107
Number of Truncated Data:	67
Percentage of Truncated Data:	63%
Non-Parametric Prediction Limit:	**112**

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

JEI Project: **CRSWMA - Tuscarora Landfill**
Project No: **618.01.22**
Sample Date: **01/07/08**

Analyte: **Cobalt**

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	Jul-93	IRL-1S	32		20
2	Aug-93	IRL-1S	26		20
3	Sep-93	IRL-1S	22		20
4	Sep-93	IRL-1S	ND		20
5	Apr-94	IRL-1S	27	B	10
6	Oct-94	IRL-1S	ND		10
7	Apr-95	IRL-1S	ND		10
8	Oct-95	IRL-1S	ND		10
9	Apr-96	IRL-1S	ND		10
10	Oct-96	IRL-1S	ND		10
11	Apr-97	IRL-1S	ND		10
12	Oct-97	IRL-1S	20		10
13	Apr-98	IRL-1S	ND		10
14	Oct-98	IRL-1S	ND		10
15	Mar-99	IRL-1S	ND		10
16	Oct-99	IRL-1S	ND		10
17	Apr-00	IRL-1S	16		10
18	Oct-00	IRL-1S	ND		10
19	Apr-01	IRL-1S	ND		10
20	Oct-01	IRL-1S	ND		10
21	Apr-02	IRL-1S	ND		10
22	Oct-02	IRL-1S	ND		10
23	Apr-03	IRL-1S	ND		10
24	Oct-03	IRL-1S	ND		10
25	Apr-04	IRL-1S	ND		10
26	Oct-04	IRL-1S	ND		10
27	Apr-05	IRL-1S	ND		10
28	Oct-05	IRL-1S	ND		10
29	Apr-06	IRL-1S	ND		10
30	Oct-06	IRL-1S	ND		10
31	Apr-07	IRL-1S	ND		10
32	Oct-07	IRL-1S	0.6	J	10.0
33	Jul-93	IRL-1D	41		20
34	Aug-93	IRL-1D	27		20
35	Sep-93	IRL-1D	21		20
36	Sep-93	IRL-1D	ND		20
37	Apr-94	IRL-1D	22	B	10
38	Oct-94	IRL-1D	ND		10
39	Apr-95	IRL-1D	ND		10
40	Oct-95	IRL-1D	ND		10
41	Apr-96	IRL-1D	ND		10
42	Oct-05	IRL-1D	ND		10
43	Apr-06	IRL-1D	ND		10

44	Oct-06	IRL-1D	ND		10
45	Apr-07	IRL-1D	ND		10
46	Oct-07	IRL-1D	ND		10.0
47	Oct-02	LST-5S	ND		10
48	Apr-03	LST-5S	ND		10
49	Oct-03	LST-5S	ND		10
50	Apr-04	LST-5S	ND		10
51	Oct-04	LST-5S	ND		10
52	Apr-05	LST-5S	ND		10
53	Oct-05	LST-5S	ND		10
54	Apr-06	LST-5S	ND		10
55	Oct-06	LST-5S	ND		10
56	Apr-07	LST-5S	ND		10
57	Oct-07	LST-5S	0.5	J	10.0
58	Jul-99	MW-7	13		10
59	Aug-99	MW-7	ND		10
60	Oct-99	MW-7	ND		10
61	Nov-99	MW-7	ND		10
62	Apr-00	MW-7	ND		10
63	Oct-00	MW-7	ND		10
64	Apr-01	MW-7	ND		10
65	Oct-01	MW-7	ND		10
66	Apr-02	MW-7	ND		10
67	Oct-02	MW-7	ND		10
68	Apr-03	MW-7	ND		10
69	Oct-03	MW-7	ND		10
70	Apr-04	MW-7	ND		10
71	Oct-04	MW-7	ND		10
72	Apr-02	MW-12S	ND		10
73	Oct-02	MW-12S	ND		10
74	Apr-03	MW-12S	ND		10
75	Oct-03	MW-12S	ND		10
76	Apr-04	MW-12S	ND		10
77	Oct-04	MW-12S	ND		10
78	Apr-05	MW-12S	ND		10
79	Oct-05	MW-12S	ND		10
80	Apr-06	MW-12S	ND		10
81	Oct-06	MW-12S	ND		10
82	Apr-07	MW-12S	ND		10
83	Oct-07	MW-12S	1.4	J	10.0
84	Apr-02	MW-12D	ND		10
85	Oct-02	MW-12D	ND		10
86	Apr-03	MW-12D	ND		10
87	Oct-03	MW-12D	ND		10
88	Apr-04	MW-12D	ND		10
89	Oct-04	MW-12D	ND		10
90	Apr-05	MW-12D	ND		10
91	Oct-05	MW-12D	ND		10
92	Apr-06	MW-12D	ND		10
93	Oct-06	MW-12D	ND		10
94	Apr-07	MW-12D	ND		10
95	Oct-07	MW-12D	ND		10.0
96	Apr-04	MW-13S	ND		10
97	Oct-04	MW-13S	ND		10
98	Apr-05	MW-13S	ND		10

99	Oct-05	MW-13S	ND	10
100	Apr-04	MW-13D	ND	10
101	Oct-04	MW-13D	ND	10
102	Apr-05	MW-13D	ND	10
103	Oct-05	MW-13D	ND	10
104	Apr-04	MW-14	ND	10
105	Oct-04	MW-14	ND	10
106	Apr-05	MW-14	ND	10
107	Oct-05	MW-14	ND	10

Number of Data:	105
Number of Truncated Data:	93
Percentage of Truncated Data:	89%
Non-Parametric Prediction Limit:	**41**

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

JEI Project: **CRSWMA - Tuscarora Landfill**
Project No: **618.01.22**
Sample Date: **01/07/08**

Analyte: **Selenium**

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	Jul-93	IRL-1S	ND		10
2	Aug-93	IRL-1S	ND		10
3	Sep-93	IRL-1S	ND		10
4	Sep-93	IRL-1S	ND		10
5	Apr-94	IRL-1S	ND		10
6	Oct-94	IRL-1S	ND		20
7	Apr-95	IRL-1S	ND		20
8	Oct-95	IRL-1S	ND		20
9	Apr-96	IRL-1S	ND		20
10	Oct-96	IRL-1S	ND		20
11	Apr-97	IRL-1S	ND		20
12	Oct-97	IRL-1S	ND		20
13	Apr-98	IRL-1S	ND		20
14	Oct-98	IRL-1S	ND		20
15	Mar-99	IRL-1S	ND		20
16	Oct-99	IRL-1S	ND		20
17	Apr-00	IRL-1S	ND		20
18	Oct-00	IRL-1S	ND		20
19	Apr-01	IRL-1S	ND		20
20	Oct-01	IRL-1S	ND		20
21	Apr-02	IRL-1S	ND		20
22	Oct-02	IRL-1S	ND		20
23	Apr-03	IRL-1S	ND		20
24	Oct-03	IRL-1S	ND		20
25	Apr-04	IRL-1S	ND		20
26	Oct-04	IRL-1S	ND		20
27	Apr-05	IRL-1S	ND		20
28	Oct-05	IRL-1S	ND		20
29	Apr-06	IRL-1S	ND		20
30	Oct-06	IRL-1S	ND		20
31	Apr-07	IRL-1S	ND		10
32	Oct-07	IRL-1S	1.2	J	10.0
33	Jul-93	IRL-1D	ND		10
34	Aug-93	IRL-1D	ND		10
35	Sep-93	IRL-1D	ND		10
36	Sep-93	IRL-1D	ND		10
37	Apr-94	IRL-1D	ND		10
38	Oct-94	IRL-1D	ND		20
39	Apr-95	IRL-1D	ND		20
40	Oct-95	IRL-1D	ND		20
41	Apr-96	IRL-1D	ND		20

42	Oct-05	IRL-1D	ND		20
43	Apr-06	IRL-1D	ND		20
44	Oct-06	IRL-1D	ND		20
45	Apr-07	IRL-1D	ND		10
46	Oct-07	IRL-1D	1.0	J	10.0
47	Oct-02	LST-5S	ND		20
48	Apr-02	LST-5S	ND		20
49	Apr-05	LST-5S	ND		20
50	Oct-05	LST-5S	ND		20
51	Apr-06	LST-5S	ND		20
52	Oct-06	LST-5S	ND		20
53	Apr-07	LST-5S	ND		20
54	Oct-07	LST-5S	1.4	J	10.0
55	Apr-02	MW-12S	ND		10
56	Oct-02	MW-12S	ND		10
57	Apr-03	MW-12S	ND		10
58	Oct-03	MW-12S	ND		10
59	Apr-04	MW-12S	ND		10
60	Oct-04	MW-12S	ND		10
61	Apr-05	MW-12S	ND		10
62	Oct-05	MW-12S	ND		10
63	Apr-06	MW-12S	ND		10
64	Oct-06	MW-12S	ND		10
65	Apr-07	MW-12S	ND		10
66	Oct-07	MW-12S	2.6	J	10.0
67	Apr-02	MW-12D	ND		10
68	Oct-02	MW-12D	ND		10
69	Apr-03	MW-12D	ND		10
70	Oct-03	MW-12D	ND		10
71	Apr-04	MW-12D	ND		10
72	Oct-04	MW-12D	ND		10
73	Apr-05	MW-12D	ND		10
74	Oct-05	MW-12D	ND		10
75	Apr-06	MW-12D	ND		10
76	Oct-06	MW-12D	ND		10
77	Apr-07	MW-12D	ND		10
78	Oct-07	MW-12D	ND		10.0
79	Apr-04	MW-13S	ND		10
80	Oct-04	MW-13S	ND		10
81	Apr-05	MW-13S	ND		10
82	Oct-05	MW-13S	ND		10
83	Apr-04	MW-13D	ND		10
84	Oct-04	MW-13D	ND		10
85	Apr-05	MW-13D	ND		10
86	Oct-05	MW-13D	ND		10
87	Apr-04	MW-14	ND		10
88	Oct-04	MW-14	ND		10
89	Apr-05	MW-14	ND		10
90	Oct-05	MW-14	ND		10

Number of Data:	90
Number of Truncated Data:	86
Percentage of Truncated Data:	96%
Upper Poisson Prediction Limit:	**163**

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

JEI Project: **CRSWMA - Tuscarora Landfill**
Project No: **618.01.22**
Date: **01/07/08**

Upper Poisson Prediction Limit

Analyte: **Selenium**

Background Data

Sample	Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)	Half Quantitation Limit	Discete Poisson Count	Rounded Discrete Poisson Count
1	Jul-93	IRL-1S	ND		10	5	10	10
2	Aug-93	IRL-1S	ND		10	5	10	10
3	Sep-93	IRL-1S	ND		10	5	10	10
4	Sep-93	IRL-1S	ND		10	5	10	10
5	Apr-94	IRL-1S	ND		10	5	10	10
6	Oct-94	IRL-1S	ND		20	10	20	20
7	Apr-95	IRL-1S	ND		20	10	20	20
8	Oct-95	IRL-1S	ND		20	10	20	20
9	Apr-96	IRL-1S	ND		20	10	20	20
10	Oct-96	IRL-1S	ND		20	10	20	20
11	Apr-97	IRL-1S	ND		20	10	20	20
12	Oct-97	IRL-1S	ND		20	10	20	20
13	Apr-98	IRL-1S	ND		20	10	20	20
14	Oct-98	IRL-1S	ND		20	10	20	20
15	Mar-99	IRL-1S	ND		20	10	20	20
16	Oct-99	IRL-1S	ND		20	10	20	20
17	Apr-00	IRL-1S	ND		20	10	20	20
18	Oct-00	IRL-1S	ND		20	10	20	20
19	Apr-01	IRL-1S	ND		20	10	20	20
20	Oct-01	IRL-1S	ND		20	10	20	20
21	Apr-02	IRL-1S	ND		20	10	20	20
22	Oct-02	IRL-1S	ND		20	10	20	20
23	Apr-03	IRL-1S	ND		20	10	20	20
24	Oct-03	IRL-1S	ND		20	10	20	20
25	Apr-04	IRL-1S	ND		20	10	20	20
26	Oct-04	IRL-1S	ND		20	10	20	20
27	Apr-05	IRL-1S	ND		20	10	20	20
28	Oct-05	IRL-1S	ND		20	10	20	20
29	Apr-06	IRL-1S	ND		20	10	20	20
30	Oct-06	IRL-1S	ND		20	10	20	20
31	Apr-07	IRL-1S	ND		10	5	10	10
32	Oct-07	IRL-1S	1.2	J	10.0	1.2	2.4	2.0
33	Jul-93	IRL-1D	ND		10	5	10	10
34	Aug-93	IRL-1D	ND		10	5	10	10
35	Sep-93	IRL-1D	ND		10	5	10	10
36	Sep-93	IRL-1D	ND		10	5	10	10
37	Apr-94	IRL-1D	ND		10	5	10	10
38	Oct-94	IRL-1D	ND		20	10	20	20
39	Apr-95	IRL-1D	ND		20	10	20	20
40	Oct-95	IRL-1D	ND		20	10	20	20
41	Apr-96	IRL-1D	ND		20	10	20	20
42	Oct-05	IRL-1D	ND		20	10	20	20
43	Apr-06	IRL-1D	ND		20	10	20	20
44	Oct-06	IRL-1D	ND		20	10	20	20
45	Apr-07	IRL-1D	ND		10	5	10	10
46	Oct-07	IRL-1D	1.0	J	10.0	1.0	2.0	2.0
47	Oct-02	LST-5S	ND		20	10	20	20
48	Apr-02	LST-5S	ND		20	10	20	20
49	Apr-05	LST-5S	ND		20	10	20	20
50	Oct-05	LST-5S	ND		20	10	20	20
51	Apr-06	LST-5S	ND		20	10	20	20
52	Oct-06	LST-5S	ND		20	10	20	20

53	Apr-07	LST-5S	ND		20	10	20	20
54	Oct-07	LST-5S	1.4	J	10.0	1.4	2.8	3.0
55	Apr-02	MW-12S	ND		10	5	10	10
56	Oct-02	MW-12S	ND		10	5	10	10
57	Apr-03	MW-12S	ND		10	5	10	10
58	Oct-03	MW-12S	ND		10	5	10	10
59	Apr-04	MW-12S	ND		10	5	10	10
60	Oct-04	MW-12S	ND		10	5	10	10
61	Apr-05	MW-12S	ND		10	5	10	10
62	Oct-05	MW-12S	ND		10	5	10	10
63	Apr-06	MW-12S	ND		10	5	10	10
64	Oct-06	MW-12S	ND		10	5	10	10
65	Apr-07	MW-12S	ND		10	5	10	10
66	Oct-07	MW-12S	2.6	J	10.0	2.6	5.2	5
67	Apr-02	MW-12D	ND		10	5	10	10
68	Oct-02	MW-12D	ND		10	5	10	10
69	Apr-03	MW-12D	ND		10	5	10	10
70	Oct-03	MW-12D	ND		10	5	10	10
71	Apr-04	MW-12D	ND		10	5	10	10
72	Oct-04	MW-12D	ND		10	5	10	10
73	Apr-05	MW-12D	ND		10	5	10	10
74	Oct-05	MW-12D	ND		10	5	10	10
75	Apr-06	MW-12D	ND		10	5	10	10
76	Oct-06	MW-12D	ND		10	5	10	10
77	Apr-07	MW-12D	ND		10	5	10	10
78	Oct-07	MW-12D	ND		10.0	5	10	10
79	Apr-04	MW-13S	ND		10	5	10	10
80	Oct-04	MW-13S	ND		10	5	10	10
81	Apr-05	MW-13S	ND		10	5	10	10
82	Oct-05	MW-13S	ND		10	5	10	10
83	Apr-04	MW-13D	ND		10	5	10	10
84	Oct-04	MW-13D	ND		10	5	10	10
85	Apr-05	MW-13D	ND		10	5	10	10
86	Oct-05	MW-13D	ND		10	5	10	10
87	Apr-04	MW-14	ND		10	5	10	10
88	Oct-04	MW-14	ND		10	5	10	10
89	Apr-05	MW-14	ND		10	5	10	10
90	Oct-05	MW-14	ND		10	5	10	10

Poisson Discrete Distribution Adjustment Factor = 2

Note: All sample concentrations are micrograms per liter

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

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

where:

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

For:

c = 0.233
y = 1262.00
k = 21
t = 1.663
n = 90

y* = 326
Adjusted y* = 163

JEI Project: **CRSWMA - Tuscarora Landfill**
Project No: **618.01.22**
Sample Date: **01/07/08**

Analyte: **Zinc**

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

44	Oct-06	IRL-1D	ND		50
45	Apr-07	IRL-1D	ND		10
46	Oct-07	IRL-1D	5.3	B	10.0
47	Oct-02	LST-5S	ND		50
48	Apr-03	LST-5S	82		50
49	Oct-03	LST-5S	ND		50
50	Apr-04	LST-5S	ND		50
51	Oct-04	LST-5S	ND		50
52	Apr-05	LST-5S	55		50
53	Oct-05	LST-5S	ND		50
54	Apr-06	LST-5S	ND		50
55	Oct-06	LST-5S	ND		50
56	Apr-07	LST-5S	22		10
57	Oct-07	LST-5S	17	B	10.0
58	Jul-99	MW-7	113		50
59	Aug-99	MW-7	ND		50
60	Oct-99	MW-7	ND		50
61	Nov-99	MW-7	ND		50
62	Apr-00	MW-7	ND		50
63	Oct-00	MW-7	ND		50
64	Apr-01	MW-7	ND		50
65	Oct-01	MW-7	ND		50
66	Apr-02	MW-7	ND		50
67	Oct-02	MW-7	ND		50
68	Apr-03	MW-7	ND		50
69	Oct-03	MW-7	ND		50
70	Apr-04	MW-7	ND		50
71	Oct-04	MW-7	72		50
72	Apr-02	MW-12S	ND		50
73	Oct-02	MW-12S	ND		50
74	Apr-03	MW-12S	ND		50
75	Oct-03	MW-12S	11		50
76	Apr-04	MW-12S	ND		50
77	Oct-04	MW-12S	ND		50
78	Apr-05	MW-12S	ND		50
79	Oct-05	MW-12S	ND		50
80	Apr-06	MW-12S	ND		50
81	Oct-06	MW-12S	ND		50
82	Apr-07	MW-12S	16		10
83	Oct-07	MW-12S	22	B	10.0
84	Apr-02	MW-12D	ND		50
85	Oct-02	MW-12D	ND		50
86	Apr-03	MW-12D	ND		50
87	Oct-03	MW-12D	ND		50
88	Apr-04	MW-12D	ND		50
89	Oct-04	MW-12D	ND		50
90	Apr-05	MW-12D	ND		50
91	Oct-05	MW-12D	ND		50
92	Apr-06	MW-12D	ND		50
93	Oct-06	MW-12D	ND		50
94	Apr-07	MW-12D	ND		10
95	Oct-07	MW-12D	2.1	B	10.0
96	Apr-04	MW-13S	ND		50

97	Oct-04	MW-13S	ND	50
98	Apr-05	MW-13S	ND	50
99	Oct-05	MW-13S	ND	50
100	Apr-04	MW-13D	ND	50
101	Oct-04	MW-13D	ND	50
102	Apr-05	MW-13D	ND	50
103	Oct-05	MW-13D	ND	50
104	Apr-04	MW-14	ND	50
105	Oct-04	MW-14	ND	50
106	Apr-05	MW-14	ND	50
107	Oct-05	MW-14	ND	50

Number of Data:	98
Number of Truncated Data:	82
Percentage of Truncated Data:	84%
Non-Parametric Prediction Limit:	**192**

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

Laboratory Reports and Field Data

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6035

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

DATE COLLECTED: 10/10/07
DATE REPORTED : 10/24/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	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	5.0		4.5	10/10/07	RJH	SM4500HB
Antimony, ug/l	0.05	6.0	0.1 J	0.1 J	0.1 J		0.1 J	10/16/07	LFJ	EPA200.8
Arsenic, ug/l	0.47	10.0	1.0 J	--- U	3.0 J		1.7 J	10/16/07	LFJ	EPA200.8
Barium, ug/l	0.04	100.0	63.7 J	37.3 J	42 J		91.5 J	10/16/07	LFJ	EPA200.8
Beryllium, ug/l	0.08	1.0	0.5 J	0.1 J	0.3 J		0.5 J	10/16/07	LFJ	EPA200.8
Cadmium, ug/l	0.06	1.0	0.5 J	0.1 J	0.5 J		0.5 J	10/16/07	LFJ	EPA200.8
Cobalt, ug/l	0.41	10.0	0.5 J	--- U	0.5 J		5.8 J	10/16/07	LFJ	EPA200.8
Copper, ug/l	0.20	10.0	0.6 J	0.9 J	0.8 J		0.7 J	10/16/07	LFJ	EPA200.8
Total Chromium, ug/l	0.24	10.0	1.1 J	1.2 J	1.4 J		1.6 J	10/16/07	LFJ	EPA200.8
Lead, ug/l	0.07	10.0	1.0 J	0.1 J	0.8 J		1.0 J	10/16/07	LFJ	EPA200.8
Nickel, ug/l	0.66	50.0	1.2 J	1.9 J	1.3 J		7.4 J	10/16/07	LFJ	EPA200.8
Selenium, ug/l	0.35	10.0	3.4 J	1.1 J	1.4 J		1.3 J	10/16/07	LFJ	EPA200.8
Silver, ug/l	0.52	10.0	--- U	--- U	--- U		--- U	10/16/07	LFJ	EPA200.8
Thallium, ug/l	0.07	5.0	0.2 J	0.2 J	0.1 J		--- U	10/16/07	LFJ	EPA200.8
Vanadium, ug/l	0.42	25.0	0.5 J	--- U	1.3 J		0.9 J	10/16/07	LFJ	EPA200.8
Zinc, ug/l	0.20	10.0	3.8 J	4.9 J	7.7 J		30	10/16/07	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	7.1	50	7.5		9.5	10/10/07	MDM	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0	95	494	100		90	10/10/07	RJH	SM2510B
Temperature, °C			22	19	22		20	10/10/07	RJH	SM2550B
Static Water Level, feet			7.58	16.80	8.47	16.70	10.18	10/10/07	RJH	
Well Depth, feet			15.04	34.86	14.45	33.29	17.65	10/10/07	RJH	

RECEIVED OCT 3 0 2007

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6035

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

DATE COLLECTED: 10/10/07
DATE REPORTED : 10/24/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	Leachate Storage 3D	Leachate Storage 4S	Leachate Storage 4D	Leachate Storage 5S	Leachate Storage 5D	Analysis Date	Analyst	Method Code
PH (field measurement), Units				4.6		6.1	7.0	10/10/07	RJH	SM4500HB
Antimony, ug/l	0.05	6.0		0.5 J		0.2 J	0.1 J	10/16/07	LFJ	EPA200.8
Arsenic, ug/l	0.47	10.0		13		2.4 J	--- U	10/16/07	LFJ	EPA200.8
Barium, ug/l	0.04	100.0		184		30.9 J	51.8 J	10/16/07	LFJ	EPA200.8
Beryllium, ug/l	0.08	1.0		1.6		--- U	0.1 J	10/16/07	LFJ	EPA200.8
Cadmium, ug/l	0.06	1.0		0.5 J		0.4 J	0.2 J	10/16/07	LFJ	EPA200.8
Cobalt, ug/l	0.41	10.0		20		0.5 J	--- U	10/16/07	LFJ	EPA200.8
Copper, ug/l	0.20	10.0		0.7 J		1.1 J	0.3 J	10/16/07	LFJ	EPA200.8
Total Chromium, ug/l	0.24	10.0		2 J		3.2 J	1.4 J	10/16/07	LFJ	EPA200.8
Lead, ug/l	0.07	10.0		0.6 J		1.6 J	0.1 J	10/16/07	LFJ	EPA200.8
Nickel, ug/l	0.66	50.0		25.5 J		1.6 J	2.2 J	10/16/07	LFJ	EPA200.8
Selenium, ug/l	0.35	10.0		1.3 J		1.4 J	1.1 J	10/16/07	LFJ	EPA200.8
Silver, ug/l	0.52	10.0		--- U		--- U	--- U	10/16/07	LFJ	EPA200.8
Thallium, ug/l	0.07	5.0		--- U		--- U	--- U	10/16/07	LFJ	EPA200.8
Vanadium, ug/l	0.42	25.0		3.2 J		4.0 J	--- U	10/16/07	LFJ	EPA200.8
Zinc, ug/l	0.20	10.0		53		17	1.8 J	10/16/07	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0		13		45	70	10/10/07	MDM	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0		199		190	531	10/10/07	RJH	SM2510B
Temperature, °C				20		22	20	10/10/07	RJH	SM2550B
Static Water Level, feet			17.56	9.57	17.12	8.91	18.12	10/10/07	RJH	
Well Depth, feet			34.85	17.62	36.12	15.41	38.66	10/10/07	RJH	

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6035

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

DATE COLLECTED: 10/10/07
DATE REPORTED : 10/24/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	Leachate Storage 6S	Leachate Storage 6D	Equipment Blank	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.9				10/10/07	RJH	SM4500HB
Antimony, ug/l	0.05	6.0	0.1 J		0.1 J		10/16/07	LFJ	EPA200.8
Arsenic, ug/l	0.47	10.0	1.0 J		--- U		10/16/07	LFJ	EPA200.8
Barium, ug/l	0.04	100.0	34 J		0.2 J		10/16/07	LFJ	EPA200.8
Beryllium, ug/l	0.08	1.0	0.1 J		--- U		10/16/07	LFJ	EPA200.8
Cadmium, ug/l	0.06	1.0	1.1		0.1 J		10/16/07	LFJ	EPA200.8
Cobalt, ug/l	0.41	10.0	--- U		--- U		10/16/07	LFJ	EPA200.8
Copper, ug/l	0.20	10.0	1.0 J		0.4 J		10/16/07	LFJ	EPA200.8
Total Chromium, ug/l	0.24	10.0	2.2 J		1.2 J		10/16/07	LFJ	EPA200.8
Lead, ug/l	0.07	10.0	1.8 J		0.1 J		10/16/07	LFJ	EPA200.8
Nickel, ug/l	0.66	50.0	1 J		--- U		10/16/07	LFJ	EPA200.8
Selenium, ug/l	0.35	10.0	1.0 J		0.9 J		10/16/07	LFJ	EPA200.8
Silver, ug/l	0.52	10.0	--- U		--- U		10/16/07	LFJ	EPA200.8
Thallium, ug/l	0.07	5.0	--- U		--- U		10/16/07	LFJ	EPA200.8
Vanadium, ug/l	0.42	25.0	3.1 J		--- U		10/16/07	LFJ	EPA200.8
Zinc, ug/l	0.20	10.0	7.7 J		6.6 J		10/16/07	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	40				10/10/07	MDM	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0	40				10/10/07	RJH	SM2510B
Temperature, °C			22				10/10/07	RJH	SM2550B
Static Water Level, feet			9.33	16.47			10/10/07	RJH	
Well Depth, feet			16.44	34.37			10/10/07	RJH	

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

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

CLIENT ID: 6035

ANALYST: MAO
DATE COLLECTED: 10/10/07
DATE ANALYZED: 10/18/07
DATE REPORTED: 10/24/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Leachate Storage 1S	Leachate Storage 1D	Leachate Storage 2S	Leachate Storage 3S	Leachate Storage 4S
1. Chloromethane	0.18	1.0	1.00	0.80 J	0.70 J	0.90 J	0.90 J
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	0.30 J	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	3.50 J	3.10 J	3.30 J	2.90 J	3.40 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	4.60 J	4.00 J	3.70 J	3.80 J	4.50 J
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

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

CLIENT ID: 6035

ANALYST: MAO
DATE COLLECTED: 10/10/07
DATE ANALYZED: 10/18/07
DATE REPORTED: 10/24/07

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Leachate Storage 5S	Leachate Storage 5D	Leachate Storage 6S	Equipment Blank	Trip Blank
1. Chloromethane	0.18	1.0	--- U	0.70 J	0.60 J	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	3.20 J	3.50 J	2.50 J	--- U	--- U
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	0.20 J	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	3.90 J	4.10 J	2.90 J	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

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

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:** 40

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	A	A	A	A		E	E	E
Leachate Storage 1S	10/10/07	1100		22	6	G	G	G	G	G	G	G	G	G
Leachate Storage 1D	10/10/07	1110		19	5	G	G	G	G	G	G	G	G	
Leachate Storage 2S	10/10/07	1045		22	5	G	G	G	G	G	G	G	G	
Leachate Storage 2D	10/10/07				2						G			
Leachate Storage 3S	10/10/07	1010		20	5	G	G	G	G	G	G	G	G	
Leachate Storage 3D	10/10/07				2						G			
Leachate Storage 4S	10/10/07	0950		20	5	G	G	G	G	G	G	G	G	
Leachate Storage 4D	10/10/07				1						G			
Leachate Storage 5S	10/10/07	1020		22	5	G	G	G	G	G	G	G	G	
Leachate Storage 5D	10/10/07	1030		20	5	G	G	G	G	G	G	G	G	
Leachate Storage 6S	10/10/07	0935		22	6	G	G	G	G	G	G	G	G	G

PARAMETERS

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

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

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: Y N

SAMPLES COLLECTED BY: (Please Print) [illegible]

SAMPLES RECEIVED IN LAB AT 4.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
[illegible]	10/10/07 3:00	[illegible]	10/10/07 3:00
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.

№ 152328

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:** 40

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	A	A	A	A		E	E	E
Leachate Storage 6D	10/10/07				2						C			
Equipment Blank	10/10/07				3		C					C	C	
Trip Blank					2									

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 Joel Fox

SAMPLES RECEIVED IN LAB AT 10 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Joel	10/10/07	Anthony Fodor	10/10/07 B:10
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.

№ 152235

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

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: 10/10/07
DATE ANALYZED: 10/18/07
DATE REPORTED: 10/24/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B
METHOD BLANK RESULTS

PARAMETERS, ug/l	MDL	SWSL	Concentration
1. Chloromethane	0.18	1.00	--- U
2. Vinyl Chloride	0.34	1.00	--- U
3. Bromomethane	0.26	10.00	--- U
4. Chloroethane	0.29	10.00	--- U
5. Trichlorofluoromethane	0.13	1.00	--- U
6. 1,1-Dichloroethene	0.14	5.00	--- U
7. Acetone	1.21	100.00	--- U
8. Iodomethane	0.12	10.00	--- U
9. Carbon Disulfide	0.14	100.00	--- U
10. Methylene Chloride	0.14	1.00	--- U
11. trans-1,2-Dichloroethene	0.13	5.00	--- U
12. 1,1-Dichloroethane	0.16	5.00	--- U
13. Vinyl Acetate	0.20	5.00	--- U
14. cis-1,2-Dichloroethene	0.14	5.00	--- U
15. 2-Butanone	0.85	100.00	--- U
16. Bromochloromethane	0.11	3.00	--- U
17. Chloroform	0.13	5.00	--- U
18. 1,1,1-Trichloroethane	0.11	1.00	--- U
19. Carbon Tetrachloride	0.13	1.00	--- U
20. Benzene	0.16	1.00	--- U
21. 1,2-Dichloroethane	0.12	1.00	--- U
22. Trichloroethene	0.13	1.00	--- U
23. 1,2-Dichloropropane	0.17	1.00	--- U
24. Bromodichloromethane	0.13	1.00	--- U
25. cis-1,3-Dichloropropene	0.17	1.00	--- U
26. 4-methyl-2-Pentanone	0.68	100.00	--- U
27. Toluene	0.13	1.00	--- U
28. trans-1,3-Dichloropropene	0.14	1.00	--- U
29. 1,1,2-Trichloroethane	0.20	1.00	--- U
30. Tetrachloroethene	0.16	1.00	--- U
31. 2-Hexanone	1.00	50.00	--- U
32. Dibromochloromethane	0.14	3.00	--- U
33. 1,2-Dibromoethane	0.13	1.00	--- U
34. Chlorobenzene	0.13	3.00	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.00	--- U
36. Ethylbenzene	0.16	1.00	--- U
37. Xylenes	0.48	5.00	--- U
38. Dibromomethane	0.17	10.00	--- U
39. Styrene	0.16	1.00	--- U
40. Bromoform	0.11	3.00	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.00	--- U
42. 1,2,3-Trichloropropane	0.06	1.00	--- U
43. 1,4-Dichlorobenzene	0.21	1.00	--- U
44. 1,2-Dichlorobenzene	0.13	5.00	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.00	--- U
46. Acrylonitrile	1.49	200.00	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.00	--- U

Environment 1, Incorporated

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

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

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

CLIENT ID: 6035

ANALYST: MO
DATE COLLECTED: 10/10/07
DATE ANALYZED: 10/18/07
DATE REPORTED: 10/24/07

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	90.4	94.4	94.2
Laboratory Control std.	70-130	88.9	96.6	94.3
Method Blank	70-130	93.2	96.5	95.4
Leachate Storage 1S	70-130	101	102	102
Leachate Storage 1D	70-130	98.6	97.9	98.2
Leachate Storage 2S	70-130	94.9	95.5	95.0
Leachate Storage 3S	70-130	96.1	95.2	95.4
Leachate Storage 4S	70-130	106	102	103
Leachate Storage 5S	70-130	95.0	94.2	95.4
Leachate Storage 5D	70-130	105	103	104
Leachate Storage 6S	70-130	94.3	94.6	95.3
Equipment Blank	70-130	94.7	93.9	94.0
Trip Blank	70-130	101	101	99.3
Leachate Storage 6S M.S.	70-130	98.8	98.8	97.7
Leachate Storage 6S M.S.D.	70-130	95.0	97.3	97.0

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: 10/10/07
DATE ANALYZED: 10/18/07
DATE REPORTED: 10/24/07

REVIEWED BY:

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

Sample Spiked: Leachate Storage 6S (6035)	Spike Amount Ug/l	Sample Result Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)	Spike Dup. Result Ug/l	Spike Dup. Recovery (70-130%)	MS/MSD RPD (50%)
1,1-Dichloroethene	20.0	--- U	18.76	93.8	18.77	93.9	0.1
Benzene	20.0	--- U	20.03	100	19.95	99.8	0.3
Trichloroethene	20.0	--- U	20.06	100	19.80	99.0	1.3
Toluene	20.0	--- U	19.84	99.2	19.96	99.8	0.6
Chlorobenzene	20.0	--- U	19.55	97.8	19.74	98.7	1.0

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	20.0	17.82	89.1
Benzene	20.0	19.15	95.8
Trichloroethene	20.0	19.27	96.4
Toluene	20.0	18.80	94.0
Chlorobenzene	20.0	18.72	93.6

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6035 A

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

DATE COLLECTED: 10/10/07
DATE REPORTED : 10/26/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	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			5.2	6.2		6.2	6.8	10/10/07	RJH	SM4500HB
Antimony, ug/l	0.05	6.0	0.1 J	0.1 J		0.1 J	0.5 J	10/16/07	LFJ	EPA200.8
Arsenic, ug/l	0.47	10.0	3.0 J	--- U		2.3 J	--- U	10/16/07	LFJ	EPA200.8
Barium, ug/l	0.04	100.0	44.8 J	56.4 J		69.9 J	67.2 J	10/16/07	LFJ	EPA200.8
Beryllium, ug/l	0.08	1.0	0.1 J	--- U		--- U	0.3 J	10/16/07	LFJ	EPA200.8
Cadmium, ug/l	0.06	1.0	0.3 J	0.4 J		0.6 J	0.1 J	10/16/07	LFJ	EPA200.8
Cobalt, ug/l	0.41	10.0	0.6 J	--- U		--- U	--- U	10/16/07	LFJ	EPA200.8
Copper, ug/l	0.20	10.0	0.6 J	1.0 J		0.4 J	0.7 J	10/16/07	LFJ	EPA200.8
Total Chromium, ug/l	0.24	10.0	1.6 J	1.2 J		2.0 J	2.3 J	10/16/07	LFJ	EPA200.8
Lead, ug/l	0.07	10.0	0.4 J	0.1 J		0.1 J	0.1 J	10/16/07	LFJ	EPA200.8
Nickel, ug/l	0.66	50.0	1.5 J	0.9 J		3.3 J	2.7 J	10/16/07	LFJ	EPA200.8
Selenium, ug/l	0.35	10.0	1.2 J	1.0 J		8.0 J	1.7 J	10/16/07	LFJ	EPA200.8
Silver, ug/l	0.52	10.0	--- U	--- U		--- U	--- U	10/16/07	LFJ	EPA200.8
Thallium, ug/l	0.07	5.0	--- U	--- U		--- U	--- U	10/16/07	LFJ	EPA200.8
Vanadium, ug/l	0.42	25.0	0.6 J	--- U		2.5 J	1.2 J	10/16/07	LFJ	EPA200.8
Zinc, ug/l	0.20	10.0	7.5 J	5.3 J		3.8 J	3.0 J	10/16/07	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	11	10		58	65	10/10/07	MDM	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0	105	192		850	702	10/10/07	RJH	SM2510B
Temperature, °C			19	18		22	19	10/10/07	RJH	SM2550B
Static Water Level, feet			10.12	16.29	17.38	9.83	16.39	10/10/07	RJH	
Well Depth, feet			17.72	43.96	31.17	16.34	38.50	10/10/07	RJH	

RECEIVED OCT 3 0 2007

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6035 A

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

DATE COLLECTED: 10/10/07
DATE REPORTED : 10/26/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	Regional Landfill 4S	Regional Landfill 4D	Regional Landfill 5S	Regional Landfill 5D	MW-A	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.8	7.0	6.4		5.3	10/10/07	RJH	SM4500HB
Antimony, ug/l	0.05	6.0	0.1 J	0.1 J	0.1 J		0.1 J	10/16/07	LFJ	EPA200.8
Arsenic, ug/l	0.47	10.0	1.6 J	0.7 J	1.2 J		2.0 J	10/16/07	LFJ	EPA200.8
Barium, ug/l	0.04	100.0	133	39 J	96.9 J		28.8 J	10/16/07	LFJ	EPA200.8
Beryllium, ug/l	0.08	1.0	0.1 J	0.1 J	--- U		--- U	10/16/07	LFJ	EPA200.8
Cadmium, ug/l	0.06	1.0	0.4 J	0.1 J	0.4 J		0.1 J	10/16/07	LFJ	EPA200.8
Cobalt, ug/l	0.41	10.0	1.3 J	--- U	--- U		--- U	10/16/07	LFJ	EPA200.8
Copper, ug/l	0.20	10.0	0.9 J	0.5 J	0.7 J		1.0 J	10/16/07	LFJ	EPA200.8
Total Chromium, ug/l	0.24	10.0	1.3 J	2.1 J	1.4 J		1.3 J	10/16/07	LFJ	EPA200.8
Lead, ug/l	0.07	10.0	0.2 J	0.1 J	0.1 J		0.3 J	10/16/07	LFJ	EPA200.8
Nickel, ug/l	0.66	50.0	2.3 J	2.1 J	6.1 J		1.0 J	10/16/07	LFJ	EPA200.8
Selenium, ug/l	0.35	10.0	3.5 J	1.2 J	4.5 J		1.6 J	10/16/07	LFJ	EPA200.8
Silver, ug/l	0.52	10.0	--- U	--- U	--- U		--- U	10/16/07	LFJ	EPA200.8
Thallium, ug/l	0.07	5.0	--- U	--- U	--- U		--- U	10/16/07	LFJ	EPA200.8
Vanadium, ug/l	0.42	25.0	--- U	0.8 J	1.2 J		--- U	10/16/07	LFJ	EPA200.8
Zinc, ug/l	0.20	10.0	7.4 J	6.8 J	55		5.2 J	10/16/07	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	12	45	110		22	10/10/07	MDM	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0	354	550	1570		98	10/10/07	RJH	SM2510B
Temperature, °C			23	20	24		20	10/10/07	RJH	SM2550B
Static Water Level, feet			9.28	15.70	9.73	15.64	7.83	10/10/07	RJH	
Well Depth, feet			14.98	34.19	14.61	35.51	20.46	10/10/07	RJH	
Zinc, Total Dissolved, ug/l					9.5			10/16/07	LFJ	EPA200.8

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6035 A

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

DATE COLLECTED: 10/10/07
DATE REPORTED : 10/26/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	Piezometer #1	Trip Blank	Analysis Date	Analyst	Method Code
Static Water Level, feet			13.22		10/10/07	RJH	

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

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

CLIENT ID: 6035 A

ANALYST: MAO
DATE COLLECTED: 10/10/07
DATE ANALYZED: 10/19/07
DATE REPORTED: 10/26/07

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Regional Landfill 1S	Regional Landfill 1D	Regional Landfill 3S	Regional Landfill 3D	Regional Landfill 4S
1. Chloromethane	0.18	1.0	0.50 J	0.60 J	0.80 J	0.70 J	0.50 J
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	2.20 J	2.70 J	7.40 J	3.40 J	2.60 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	2.70 J	3.30 J	4.00 J	4.10 J	3.00 J
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

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

CLIENT ID: 6035 A

ANALYST: MAO
DATE COLLECTED: 10/10/07
DATE ANALYZED: 10/19/07
DATE REPORTED: 10/26/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Regional Landfill 4D	Regional Landfill 5S	MW-A	Trip Blank
1. Chloromethane	0.18	1.0	0.90 J	0.50 J	0.80 J	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	2.80 J	3.10 J	--- U
7. Acetone	1.21	100.0	4.90 J	--- U	--- U	--- U
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	4.40 J	2.70 J	3.90 J	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U

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

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: 40**

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
							L2					L2	L2	L2	L2
						P	P	P	P	P		P	G	G	G
						A	A	A	A	A		A	E	E	E
Regional Landfill 1S 10	1007	1125		19	6	G	G	G	G	G	G		G	G	G
Regional Landfill 1D 10	1007	1140		18	5	G	G	G	G	G	G		G	G	
Regional Land. 2-D-A 10	1007				1						G				
Regional Landfill 3S 10	1007	1210		22	5	G	G	G	G	G	G		G	G	
Regional Landfill 3D 10	1007	1200		19	5	G	G	G	G	G	G		G	G	
Regional Landfill 4S 10	1007	1240		23	5	G	G	G	G	G	G		G	G	
Regional Landfill 4D 10	1007	1230		20	5	G	G	G	G	G	G		G	G	
Regional Landfill 5S 10	1007	1300		24	7	G	G	G	G	G	G	G	G	G	G
Regional Landfill 5D 10	1007				2						G				
MW-A 10	1007	0915		20	5	G	G	G	G	G	G		G	G	
Piezometer #1 10	1007				1						G				

PARAMETERS

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

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 Lage / F of

SAMPLES RECEIVED IN LAB AT 1:00

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Lage 10	1007 3:00	[signature]	10/10/07 3:00
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.

№ 152234

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 A **Week: 40**

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							PARAMETERS
																						CHLORINE NEUTRALIZED AT COLLECTION
							<2					1	<2	<2	<2							pH CHECK (LAB)
						P	P	P	P	P		P	G	G	G							CONTAINER TYPE, P/G
						A	A	A	A	A		A	E	E	E							CHEMICAL PRESERVATION
Trip Blank					2																	

CHEMICAL PRESERVATION:
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 Ogoe FOX

SAMPLES RECEIVED IN LAB AT 1.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Ogoe	10/10/07	[signature]	10/10/07 3:00
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.

№ 152233

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

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: 10/10/07
DATE ANALYZED: 10/19/07
DATE REPORTED: 10/25/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B
METHOD BLANK RESULTS

PARAMETERS, ug/l	MDL	SWSL	Concentration
1. Chloromethane	0.18	1.00	--- U
2. Vinyl Chloride	0.34	1.00	--- U
3. Bromomethane	0.26	10.00	--- U
4. Chloroethane	0.29	10.00	--- U
5. Trichlorofluoromethane	0.13	1.00	--- U
6. 1,1-Dichloroethene	0.14	5.00	--- U
7. Acetone	1.21	100.00	--- U
8. Iodomethane	0.12	10.00	--- U
9. Carbon Disulfide	0.14	100.00	--- U
10. Methylene Chloride	0.14	1.00	--- U
11. trans-1,2-Dichloroethene	0.13	5.00	--- U
12. 1,1-Dichloroethane	0.16	5.00	--- U
13. Vinyl Acetate	0.20	5.00	--- U
14. cis-1,2-Dichloroethene	0.14	5.00	--- U
15. 2-Butanone	0.85	100.00	--- U
16. Bromochloromethane	0.11	3.00	--- U
17. Chloroform	0.13	5.00	--- U
18. 1,1,1-Trichloroethane	0.11	1.00	--- U
19. Carbon Tetrachloride	0.13	1.00	--- U
20. Benzene	0.16	1.00	--- U
21. 1,2-Dichloroethane	0.12	1.00	--- U
22. Trichloroethene	0.13	1.00	--- U
23. 1,2-Dichloropropane	0.17	1.00	--- U
24. Bromodichloromethane	0.13	1.00	--- U
25. cis-1,3-Dichloropropene	0.17	1.00	--- U
26. 4-methyl-2-Pentanone	0.68	100.00	--- U
27. Toluene	0.13	1.00	--- U
28. trans-1,3-Dichloropropene	0.14	1.00	--- U
29. 1,1,2-Trichloroethane	0.20	1.00	--- U
30. Tetrachloroethene	0.16	1.00	--- U
31. 2-Hexanone	1.00	50.00	--- U
32. Dibromochloromethane	0.14	3.00	--- U
33. 1,2-Dibromoethane	0.13	1.00	--- U
34. Chlorobenzene	0.13	3.00	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.00	--- U
36. Ethylbenzene	0.16	1.00	--- U
37. Xylenes	0.48	5.00	--- U
38. Dibromomethane	0.17	10.00	--- U
39. Styrene	0.16	1.00	--- U
40. Bromoform	0.11	3.00	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.00	--- U
42. 1,2,3-Trichloropropane	0.06	1.00	--- U
43. 1,4-Dichlorobenzene	0.21	1.00	--- U
44. 1,2-Dichlorobenzene	0.13	5.00	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.00	--- U
46. Acrylonitrile	1.49	200.00	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.00	--- U

Environment 1, Incorporated

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

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

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

CLIENT ID: 6035 A

ANALYST: MO
DATE COLLECTED: 10/10/07
DATE ANALYZED: 10/19/07
DATE REPORTED: 10/25/07

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	92.0	93.7	92.8
Laboratory Control std.	70-130	96.3	100	96.8
Method Blank	70-130	100	101	101
Regional Landfill 1S	70-130	93.3	93.1	94.0
Regional Landfill 1D	70-130	98.4	97.5	99.4
Regional Landfill 3S	70-130	98.6	97.8	99.9
Regional Landfill 3D	70-130	98.8	98.6	99.6
Regional Landfill 4S	70-130	102	102	101
Regional Landfill 4D	70-130	96.5	95.4	97.6
Regional Landfill 5S	70-130	99.9	98.6	98.2
Monitoring Well A	70-130	101	101	102
Trip Blank	70-130	96.6	95.2	95.8
Regional Landfill 1S M.S.	70-130	93.9	96.7	94.1
Regional Landfill 1S M.S.D.	70-130	95.6	96.5	96.7

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 A

ANALYST: MO
DATE COLLECTED: 10/10/07
DATE ANALYZED: 10/19/07
DATE REPORTED: 10/25/07

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	20.0	--- U	17.61	88.1	17.79	89.0	1.0
Benzene	20.0	--- U	18.99	95.0	19.29	96.5	1.6
Trichloroethene	20.0	--- U	18.77	93.9	19.49	97.5	3.8
Toluene	20.0	--- U	18.80	94.0	19.17	95.9	1.9
Chlorobenzene	20.0	--- U	18.69	93.5	19.16	95.8	2.5

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	20.0	18.87	94.4
Benzene	20.0	20.26	101
Trichloroethene	20.0	20.40	102
Toluene	20.0	20.12	101
Chlorobenzene	20.0	19.79	99.0

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6035 B

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

DATE COLLECTED: 10/11/07
DATE REPORTED : 10/26/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	SW-1	SW-2	Under Drain	Analysis Date	Analyst	Method Code
PH (field measurement), Units			7.1	7.1	Missing	10/11/07	RJH	SM4500HB
Antimony, ug/l	0.05	6.0	0.1 J	0.7 J	Missing	10/17/07	LFJ	EPA200.8
Arsenic, ug/l	0.47	10.0	1.4 J	13	Missing	10/17/07	LFJ	EPA200.8
Barium, ug/l	0.04	100.0	47.4 J	187	Missing	10/17/07	LFJ	EPA200.8
Beryllium, ug/l	0.08	1.0	--- U	0.4 J	Missing	10/17/07	LFJ	EPA200.8
Cadmium, ug/l	0.06	1.0	0.1 J	0.2 J	Missing	10/17/07	LFJ	EPA200.8
Cobalt, ug/l	0.41	10.0	01.5 J	3.4 J	Missing	10/17/07	LFJ	EPA200.8
Copper, ug/l	0.20	10.0	0.7 J	3.9 J	Missing	10/17/07	LFJ	EPA200.8
Total Chromium, ug/l	0.24	10.0	1.7 J	12	Missing	10/17/07	LFJ	EPA200.8
Lead, ug/l	0.07	10.0	1.1 J	8.6 J	Missing	10/17/07	LFJ	EPA200.8
Nickel, ug/l	0.66	50.0	3.4 J	15.2 J	Missing	10/17/07	LFJ	EPA200.8
Selenium, ug/l	0.35	10.0	0.5 J	19	Missing	10/17/07	LFJ	EPA200.8
Silver, ug/l	0.52	10.0	--- U	--- U	Missing	10/17/07	LFJ	EPA200.8
Thallium, ug/l	0.07	5.0	--- U	0.1 J	Missing	10/17/07	LFJ	EPA200.8
Vanadium, ug/l	0.42	25.0	2.5 J	16.5 J	Missing	10/17/07	LFJ	EPA200.8
Zinc, ug/l	0.20	10.0	44	22	Missing	10/17/07	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	37	350	Missing	10/11/07	MDM	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0	562	2820	Missing	10/11/07	RJH	SM2510B
Temperature, °C			21	23	Missing	10/11/07	RJH	SM2550B
8260 (Duplicate)					Missing	/ /		

RECEIVED OCT 30 2007

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

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

CLIENT ID: 6035 B

ANALYST: MAO
DATE COLLECTED: 10/11/07
DATE ANALYZED: 10/23/07
DATE REPORTED: 10/26/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	SW-1	SW-2
1. Chloromethane	0.18	1.0	0.80 J	1.10
2. Vinyl Chloride	0.34	1.0	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U
7. Acetone	1.21	100.0	1.40 J	6.40 J
8. Iodomethane	0.12	10.0	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	0.30 J
10. Methylene Chloride	0.14	1.0	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U
15. 2-Butanone	0.85	100.0	--- U	1.50 J
16. Bromochloromethane	0.11	3.0	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U

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

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: 40**

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
- [ ] _____

																					CHLORINE NEUTRALIZED AT COLLECTION
																					pH CHECK (LAB)
																					CONTAINER TYPE, P/G
																					CHEMICAL PRESERVATION
																					PARAMETERS
																					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	EPA 8260B	8260 Dup. 1									
						P	P	P	P	P	G	G									
						A	A	A	A	A	E	E									
SW-1 10	11 07	8910		21	5	G	G	G	G	G	G	G									
SW-2 10	11 07	1145		23	5	G	G	G	G	G	G	G									
~~Under Drain~~					5																

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 Gage Fox

SAMPLES RECEIVED IN LAB AT 1.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Gage	10 11 07	Amitha Sadler	10/11/07 2:35
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS: UNDER DRAIN – DRY

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

№ 152232

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: 10/11/07
DATE ANALYZED: 10/23/07
DATE REPORTED: 10/25/07

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B
METHOD BLANK RESULTS

PARAMETERS, ug/l	MDL	SWSL	Concentration
1. Chloromethane	0.18	1.00	--- U
2. Vinyl Chloride	0.34	1.00	--- U
3. Bromomethane	0.26	10.00	--- U
4. Chloroethane	0.29	10.00	--- U
5. Trichlorofluoromethane	0.13	1.00	--- U
6. 1,1-Dichloroethene	0.14	5.00	--- U
7. Acetone	1.21	100.00	--- U
8. Iodomethane	0.12	10.00	--- U
9. Carbon Disulfide	0.14	100.00	--- U
10. Methylene Chloride	0.14	1.00	--- U
11. trans-1,2-Dichloroethene	0.13	5.00	--- U
12. 1,1-Dichloroethane	0.16	5.00	--- U
13. Vinyl Acetate	0.20	5.00	--- U
14. cis-1,2-Dichloroethene	0.14	5.00	--- U
15. 2-Butanone	0.85	100.00	--- U
16. Bromochloromethane	0.11	3.00	--- U
17. Chloroform	0.13	5.00	--- U
18. 1,1,1-Trichloroethane	0.11	1.00	--- U
19. Carbon Tetrachloride	0.13	1.00	--- U
20. Benzene	0.16	1.00	--- U
21. 1,2-Dichloroethane	0.12	1.00	--- U
22. Trichloroethene	0.13	1.00	--- U
23. 1,2-Dichloropropane	0.17	1.00	--- U
24. Bromodichloromethane	0.13	1.00	--- U
25. cis-1,3-Dichloropropene	0.17	1.00	--- U
26. 4-methyl-2-Pentanone	0.68	100.00	--- U
27. Toluene	0.13	1.00	--- U
28. trans-1,3-Dichloropropene	0.14	1.00	--- U
29. 1,1,2-Trichloroethane	0.20	1.00	--- U
30. Tetrachloroethene	0.16	1.00	--- U
31. 2-Hexanone	1.00	50.00	--- U
32. Dibromochloromethane	0.14	3.00	--- U
33. 1,2-Dibromoethane	0.13	1.00	--- U
34. Chlorobenzene	0.13	3.00	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.00	--- U
36. Ethylbenzene	0.16	1.00	--- U
37. Xylenes	0.48	5.00	--- U
38. Dibromomethane	0.17	10.00	--- U
39. Styrene	0.16	1.00	--- U
40. Bromoform	0.11	3.00	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.00	--- U
42. 1,2,3-Trichloropropane	0.06	1.00	--- U
43. 1,4-Dichlorobenzene	0.21	1.00	--- U
44. 1,2-Dichlorobenzene	0.13	5.00	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.00	--- U
46. Acrylonitrile	1.49	200.00	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.00	--- U

Environment 1, Incorporated

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

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

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

CLIENT ID: 6035 B

ANALYST: MO
DATE COLLECTED: 10/11/07
DATE ANALYZED: 10/23/07
DATE REPORTED: 10/25/07

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	88.5	93.6	100
Laboratory Control std.	70-130	90.7	95.4	103
Method Blank	70-130	94.8	96.0	108
Surface Water #1	70-130	91.4	92.0	102
Surface Water #2	70-130	92.3	92.6	101
Monitoring Well #7 M.S	70-130	92.4	93.8	95.4
Monitoring Well #7 M.S.D.	70-130	97.0	96.3	98.7

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 B

ANALYST: MO
DATE COLLECTED: 10/11/07
DATE ANALYZED: 10/23/07
DATE REPORTED: 10/25/07

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	20.0	--- U	17.52	87.6	18.27	91.4	4.2
Benzene	20.0	--- U	19.69	98.5	20.71	103	5.0
Trichloroethene	20.0	--- U	19.85	99.3	20.65	103	4.0
Toluene	20.0	--- U	19.39	97.0	20.45	102	5.3
Chlorobenzene	20.0	--- U	18.88	94.4	19.83	99.2	4.9

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	20.0	18.11	90.6
Benzene	20.0	20.64	103
Trichloroethene	20.0	20.40	102
Toluene	20.0	20.55	103
Chlorobenzene	20.0	20.02	100

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6035 D

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

DATE COLLECTED: 10/11/07
DATE REPORTED : 10/26/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-11D	Under Drain #2	Leachate Manhole	Equipment Blank	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			7.1	Missing	7.2			10/11/07	RJH	SM4500HB
Antimony, ug/l	0.05	6.0	--- U	Missing	4.0 J	--- U		10/17/07	LFJ	EPA200.8
Arsenic, ug/l	0.47	10.0	--- U	Missing	59	--- U		10/17/07	LFJ	EPA200.8
Barium, ug/l	0.04	100.0	40.7 J	Missing	754	0.2 J		10/17/07	LFJ	EPA200.8
Beryllium, ug/l	0.08	1.0	0.1 J	Missing	0.1 J	--- U		10/17/07	LFJ	EPA200.8
Cadmium, ug/l	0.06	1.0	0.1 J	Missing	2	--- U		10/17/07	LFJ	EPA200.8
Cobalt, ug/l	0.41	10.0	--- U	Missing	14	--- U		10/17/07	LFJ	EPA200.8
Copper, ug/l	0.20	10.0	0.2 J	Missing	9.4 J	--- U		10/17/07	LFJ	EPA200.8
Total Chromium, ug/l	0.24	10.0	--- U	Missing	81	--- U		10/17/07	LFJ	EPA200.8
Lead, ug/l	0.07	10.0	--- U	Missing	1.4 J	--- U		10/17/07	LFJ	EPA200.8
Nickel, ug/l	0.66	50.0	1.8 J	Missing	77	--- U		10/17/07	LFJ	EPA200.8
Selenium, ug/l	0.35	10.0	--- U	Missing	51	--- U		10/17/07	LFJ	EPA200.8
Silver, ug/l	0.52	10.0	--- U	Missing	--- U	--- U		10/17/07	LFJ	EPA200.8
Thallium, ug/l	0.07	5.0	--- U	Missing	--- U	--- U		10/17/07	LFJ	EPA200.8
Vanadium, ug/l	0.42	25.0	--- U	Missing	17.6 J	--- U		10/17/07	LFJ	EPA200.8
Zinc, ug/l	0.20	10.0	2.5 J	Missing	42	2.0 J		10/17/07	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	60	Missing	21			10/11/07	MDM	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0	439	Missing	10820			10/11/07	RJH	SM2510B
Temperature, °C			18	Missing	28			10/11/07	RJH	SM2550B
Static Water Level, feet			13.47					10/11/07	RJH	
Well Depth, feet			34.42					10/11/07	RJH	
8260 (Duplicate)				Missing				/ /		

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

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

CLIENT ID: 6035 D

ANALYST: MAO
DATE COLLECTED: 10/11/07
DATE ANALYZED: 10/23/07
DATE REPORTED: 10/26/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	MW-7	MW-8	MW-10	MW-11S	MW-11D
1. Chloromethane	0.18	1.0	0.80 J	0.80 J	0.90 J	0.80 J	0.90 J
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	1.40 J	--- U	1.40 J	--- U	--- U
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	0.20 J	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6035 D

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

DATE COLLECTED: 10/11/07
DATE REPORTED : 10/26/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-7	MW-8	MW-9	MW-10	MW-11S	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.8	5.3	Missing	5.1	5.1	10/11/07	RJH	SM4500HB
Antimony, ug/l	0.05	6.0	0.1 J	--- U	Missing	--- U	--- U	10/17/07	LFJ	EPA200.8
Arsenic, ug/l	0.47	10.0	3.5 J	4.3 J	Missing	1.8 J	0.5 J	10/17/07	LFJ	EPA200.8
Barium, ug/l	0.04	100.0	63.3 J	32.7 J	Missing	44.8 J	45.7 J	10/17/07	LFJ	EPA200.8
Beryllium, ug/l	0.08	1.0	0.2 J	0.2 J	Missing	0.2 J	0.1 J	10/17/07	LFJ	EPA200.8
Cadmium, ug/l	0.06	1.0	0.6 J	0.1 J	Missing	0.1 J	0.5 J	10/17/07	LFJ	EPA200.8
Cobalt, ug/l	0.41	10.0	0.7 J	--- U	Missing	--- U	1.0 J	10/17/07	LFJ	EPA200.8
Copper, ug/l	0.20	10.0	1.2 J	0.5 J	Missing	0.3 J	0.4 J	10/17/07	LFJ	EPA200.8
Total Chromium, ug/l	0.24	10.0	4.8 J	1.1 J	Missing	0.3 J	--- U	10/17/07	LFJ	EPA200.8
Lead, ug/l	0.07	10.0	3.0 J	1.6 J	Missing	0.3 J	0.1 J	10/17/07	LFJ	EPA200.8
Nickel, ug/l	0.66	50.0	2.3 J	--- U	Missing	0.7 J	1.8 J	10/17/07	LFJ	EPA200.8
Selenium, ug/l	0.35	10.0	1.4 J	--- U	Missing	0.4 J	0.8 J	10/17/07	LFJ	EPA200.8
Silver, ug/l	0.52	10.0	--- U	--- U	Missing	--- U	--- U	10/17/07	LFJ	EPA200.8
Thallium, ug/l	0.07	5.0	0.1 J	--- U	Missing	0.1 J	--- U	10/17/07	LFJ	EPA200.8
Vanadium, ug/l	0.42	25.0	8.6 J	3.8 J	Missing	0.6 J	--- U	10/17/07	LFJ	EPA200.8
Zinc, ug/l	0.20	10.0	28	4.9 J	Missing	4.7 J	5.4 J	10/17/07	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	90	45	Missing	8.0	7.1	10/11/07	MDM	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0	273	80	Missing	128	229	10/11/07	RJH	SM2510B
Temperature, °C			22	22	Missing	21	21	10/11/07	RJH	SM2550B
Static Water Level, feet			7.02	7.00	Missing	5.97	7.69	10/11/07	RJH	
Well Depth, feet			16.59	15.62	Missing	15.95	14.04	10/11/07	RJH	
8260 (Duplicate)					Missing			/ /		

RECEIVED OCT 30 2007

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

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

CLIENT ID: 6035 D

ANALYST: MAO
DATE COLLECTED: 10/11/07
DATE ANALYZED: 10/23/07
DATE REPORTED: 10/26/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Leachate Manhole	Equipment Blank	Trip Blank
1. Chloromethane	0.18	1.0	2.40	--- U	--- U
2. Vinyl Chloride	0.34	1.0	1.10	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	0.50 J	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U
7. Acetone	1.21	100.0	81.70 J	--- U	--- U
8. Iodomethane	0.12	10.0	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	0.30 J	0.20 J	0.20 J
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	0.30 J	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	2.00 J	--- U	--- U
15. 2-Butanone	0.85	100.0	45.10 J	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U
20. Benzene	0.16	1.0	3.90	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	0.40 J	--- U	--- U
22. Trichloroethene	0.13	1.0	0.30 J	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	0.30 J	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	51.50 J	--- U	--- U
27. Toluene	0.13	1.0	22.80	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	1.80 J	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	179.00	--- U	--- U
37. Xylenes	0.48	5.0	158.00	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U
39. Styrene	0.16	1.0	2.10	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	0.30 J	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	0.10 J	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	15.70	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	1.10 J	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U

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

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: 40**

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
												<2	<2	<2
						P	P	P	P	P		G	G	G
						A	A	A	A	A		E	E	E
MW-7	10 11 07	0925		22	6	G	G	G	G	G	G	G	G	G
MW-8	10 11 07	0945		16	5	G	G	G	G	G	G	G	G	
~~MW-9~~					5									NO LONGER EXISTS
MW-10	10 11 07	1125		21	5	G	G	G	G	G	G	G	G	
MW-11S	10 11 07	1200		21	5	G	G	G	G	G	G	G	G	
MW-11D	10 11 07	1150		18	5	G	G	G	G	G	G	G	G	
~~Under Drain #2~~	~~10 11 07~~				5									
Leachate Manhole	10 11 07	1215		28	6	G	G	G	G	G		G	G	G
Equipment Blank	10 11 07				3		G					G	G	
Trip Blank					2									

PARAMETERS

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

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 Hogue Fox

SAMPLES RECEIVED IN LAB AT 1.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Hogue	10 11 07	[signature]	10/11/07 2:35
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS: UD 2 - DRY

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

№ 152231

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: 10/11/07
DATE ANALYZED: 10/23/07
DATE REPORTED: 10/25/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B
METHOD BLANK RESULTS

PARAMETERS, ug/l	MDL	SWSL	Concentration
1. Chloromethane	0.18	1.00	--- U
2. Vinyl Chloride	0.34	1.00	--- U
3. Bromomethane	0.26	10.00	--- U
4. Chloroethane	0.29	10.00	--- U
5. Trichlorofluoromethane	0.13	1.00	--- U
6. 1,1-Dichloroethene	0.14	5.00	--- U
7. Acetone	1.21	100.00	--- U
8. Iodomethane	0.12	10.00	--- U
9. Carbon Disulfide	0.14	100.00	--- U
10. Methylene Chloride	0.14	1.00	--- U
11. trans-1,2-Dichloroethene	0.13	5.00	--- U
12. 1,1-Dichloroethane	0.16	5.00	--- U
13. Vinyl Acetate	0.20	5.00	--- U
14. cis-1,2-Dichloroethene	0.14	5.00	--- U
15. 2-Butanone	0.85	100.00	--- U
16. Bromochloromethane	0.11	3.00	--- U
17. Chloroform	0.13	5.00	--- U
18. 1,1,1-Trichloroethane	0.11	1.00	--- U
19. Carbon Tetrachloride	0.13	1.00	--- U
20. Benzene	0.16	1.00	--- U
21. 1,2-Dichloroethane	0.12	1.00	--- U
22. Trichloroethene	0.13	1.00	--- U
23. 1,2-Dichloropropane	0.17	1.00	--- U
24. Bromodichloromethane	0.13	1.00	--- U
25. cis-1,3-Dichloropropene	0.17	1.00	--- U
26. 4-methyl-2-Pentanone	0.68	100.00	--- U
27. Toluene	0.13	1.00	--- U
28. trans-1,3-Dichloropropene	0.14	1.00	--- U
29. 1,1,2-Trichloroethane	0.20	1.00	--- U
30. Tetrachloroethene	0.16	1.00	--- U
31. 2-Hexanone	1.00	50.00	--- U
32. Dibromochloromethane	0.14	3.00	--- U
33. 1,2-Dibromoethane	0.13	1.00	--- U
34. Chlorobenzene	0.13	3.00	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.00	--- U
36. Ethylbenzene	0.16	1.00	--- U
37. Xylenes	0.48	5.00	--- U
38. Dibromomethane	0.17	10.00	--- U
39. Styrene	0.16	1.00	--- U
40. Bromoform	0.11	3.00	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.00	--- U
42. 1,2,3-Trichloropropane	0.06	1.00	--- U
43. 1,4-Dichlorobenzene	0.21	1.00	--- U
44. 1,2-Dichlorobenzene	0.13	5.00	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.00	--- U
46. Acrylonitrile	1.49	200.00	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.00	--- U

Environment 1, Incorporated

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

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

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

CLIENT ID: 6035 D

ANALYST: MO
DATE COLLECTED: 10/11/07
DATE ANALYZED: 10/23/07
DATE REPORTED: 10/25/07

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	70-130	88.5	93.6
Laboratory Control std.	70-130	70-130	90.7	95.4
Method Blank	70-130	70-130	94.8	96.0
Monitoring Well #7	70-130	94.4	95.2	107
Monitoring Well #8	70-130	89.0	89.5	98.9
Monitoring Well #10	70-130	90.8	91.0	97.1
Monitoring Well #11S	70-130	94.0	94.1	103
Monitoring Well #11D	70-130	91.6	91.0	98.1
Leachate Manhole	70-130	95.0	96.8	104
Equipment Blank	70-130	97.0	96.2	103
Trip Blank	70-130	90.6	90.4	96.9
Monitoring Well #7 M.S.	70-130	92.4	93.8	95.4
Monitoring Well #7 M.S.D.	70-130	97.0	96.3	98.7

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: 10/11/07
DATE ANALYZED: 10/23/07
DATE REPORTED: 10/25/07

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	20.0	--- U	17.52	87.6	18.27	91.4	4.2
Benzene	20.0	--- U	19.69	98.5	20.71	103	5.0
Trichloroethene	20.0	--- U	19.85	99.3	20.65	103	4.0
Toluene	20.0	--- U	19.39	97.0	20.45	102	5.3
Chlorobenzene	20.0	--- U	18.88	94.4	19.83	99.2	4.9

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	20.0	18.11	90.6
Benzene	20.0	20.64	103
Trichloroethene	20.0	20.40	102
Toluene	20.0	20.55	103
Chlorobenzene	20.0	20.02	100

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

ID#: 6035 E

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

DATE COLLECTED: 10/11/07
DATE REPORTED : 10/26/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-12s	Well #12 Deep	Well #13 Shallow	Well #13 Deep	MW-14R	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.3	7.0	5.1	7.2	5.3	10/11/07	RJH	SM4500HB
Antimony, ug/l	0.05	6.0	--- U		--- U			10/22/07	CMF	EPA200.8
Antimony, ug/l	0.05	6.0		--- U		--- U	0.1 J	10/17/07	LFJ	EPA200.8
Arsenic, ug/l	0.47	10.0	6.6 J		9.4 J			10/22/07	LFJ	EPA200.8
Arsenic, ug/l	0.47	10.0		--- U		--- U	1.0 J	10/17/07	LFJ	EPA200.8
Barium, ug/l	0.04	100.0	81.8 J		42.2 J			10/22/07	CMF	EPA200.8
Barium, ug/l	0.04	100.0		47.4 J		46.4 J	42.8 J	10/17/07	LFJ	EPA200.8
Beryllium, ug/l	0.08	1.0	0.1 J		0.1 J			10/22/07	CMF	EPA200.8
Beryllium, ug/l	0.08	1.0		--- U		--- U	0.1 J	10/17/07	LFJ	EPA200.8
Cadmium, ug/l	0.06	1.0	0.2 J		0.1 J			10/22/07	CMF	EPA200.8
Cadmium, ug/l	0.06	1.0		0.1 J		0.1 J	0.9 J	10/17/07	LFJ	EPA200.8
Cobalt, ug/l	0.41	10.0	1.4 J		--- U			10/22/07	CMF	EPA200.8
Cobalt, ug/l	0.41	10.0		--- U		--- U	2.7 J	10/17/07	LFJ	EPA200.8
Copper, ug/l	0.20	10.0	0.9 J		0.6 J			10/22/07	CMF	EPA200.8
Copper, ug/l	0.20	10.0		--- U		0.2 J	3.3 J	10/17/07	LFJ	EPA200.8
Total Chromium, ug/l	0.24	10.0	--- U		0.5 J			10/22/07	CMF	EPA200.8
Total Chromium, ug/l	0.24	10.0		--- U		--- U	--- U	10/17/07	LFJ	EPA200.8
Lead, ug/l	0.07	10.0	0.2 J		1.1 J			10/22/07	CMF	EPA200.8
Lead, ug/l	0.07	10.0		--- U		0.1 J	0.3 J	10/17/07	LFJ	EPA200.8
Nickel, ug/l	0.66	50.0	2.0 J		0.8 J			10/22/07	CMF	EPA200.8
Nickel, ug/l	0.66	50.0		1.6 J		1.2 J	3.6 J	10/17/07	LFJ	EPA200.8
Selenium, ug/l	0.35	10.0	2.6 J		--- U			02/24/07	CMF	EPA200.8
Selenium, ug/l	0.35	10.0		--- U		--- U	--- U	10/17/07	LFJ	EPA200.8
Silver, ug/l	0.52	10.0	--- U		--- U			02/24/07	CMF	EPA200.8
Silver, ug/l	0.52	10.0		--- U		--- U	--- U	10/17/07	LFJ	EPA200.8
Thallium, ug/l	0.07	5.0	0.2 J		0.1 J			10/22/07	CMF	EPA200.8
Thallium, ug/l	0.07	5.0		--- U		0.1 J	--- U	10/17/07	LFJ	EPA200.8
Vanadium, ug/l	0.42	25.0	0.9 J		2.7 J			10/22/07	CMF	EPA200.8
Vanadium, ug/l	0.42	25.0		--- U		--- U	--- U	10/17/07	LFJ	EPA200.8
Zinc, ug/l	0.20	10.0	22		6.1 J			10/22/07	CMF	EPA200.8
Zinc, ug/l	0.20	10.0		2.1 J		3.4 J	14	10/17/07	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	80	90	40	80	4.4	10/11/07	MDM	SM2130B
Conductivity (at 25c), uMhos	1.0	1.0	187	454	119	409	78	10/11/07	RJH	SM2510B
Temperature, °C			21	19	20	18	22	10/11/07	RJH	SM2550B
Static Water Level, feet			9.94	16.30	5.02	12.91	7.73	10/11/07	RJH	
Well Depth, feet			17.99	36.03	17.74	34.31	17.37	10/11/07	RJH	

RECEIVED OCT 3 0 2007

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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

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

CLIENT ID: 6035 E

ANALYST: MAO
DATE COLLECTED: 10/11/07
DATE REPORTED: 10/26/07

Page: 1

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	10/19/07 MW-12s	10/23/07 Well #12 Deep	10/19/07 Well #13 Shallow	10/19/07 Well #13 Deep	10/19/07 MW-14R
	Date Analyzed:						
1. Chloromethane	0.18	1.0	0.90 J	0.70 J	0.90 J	0.70 J	0.90 J
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

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

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 E **Week:** 40

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
CONTAINER TYPE, P/G						P	P	P	P	P		G	G	G
CHEMICAL PRESERVATION						A	A	A	A	A		E	E	E
MW-12s	10/11/07	1015		21	5	G	G	G	G	G	G	G	G	
MW-14R (W14R)	10/11/07	1100		22	6	G	G	G	G	G	G	G	G	G
Well #12 Deep	10/11/07	1000		19	5	G	G	G	G	G	G	G	G	
Well #13 Shallow	10/11/07	1030		20	5	G	G	G	G	G	G	G	G	
Well #13 Deep	10/11/07	1045		18	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
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: Y N

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

SAMPLES RECEIVED IN LAB AT 1.0 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Hogge	10/11/07	[signature]	10/11/07 2:35
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS: MW14R REPLACES MW14

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

№ 152230

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: 10/11/07
DATE ANALYZED: 10/23/07
DATE REPORTED: 10/25/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B
METHOD BLANK RESULTS

PARAMETERS, ug/l	MDL	SWSL	Concentration
1. Chloromethane	0.18	1.00	--- U
2. Vinyl Chloride	0.34	1.00	--- U
3. Bromomethane	0.26	10.00	--- U
4. Chloroethane	0.29	10.00	--- U
5. Trichlorofluoromethane	0.13	1.00	--- U
6. 1,1-Dichloroethene	0.14	5.00	--- U
7. Acetone	1.21	100.00	--- U
8. Iodomethane	0.12	10.00	--- U
9. Carbon Disulfide	0.14	100.00	--- U
10. Methylene Chloride	0.14	1.00	--- U
11. trans-1,2-Dichloroethene	0.13	5.00	--- U
12. 1,1-Dichloroethane	0.16	5.00	--- U
13. Vinyl Acetate	0.20	5.00	--- U
14. cis-1,2-Dichloroethene	0.14	5.00	--- U
15. 2-Butanone	0.85	100.00	--- U
16. Bromochloromethane	0.11	3.00	--- U
17. Chloroform	0.13	5.00	--- U
18. 1,1,1-Trichloroethane	0.11	1.00	--- U
19. Carbon Tetrachloride	0.13	1.00	--- U
20. Benzene	0.16	1.00	--- U
21. 1,2-Dichloroethane	0.12	1.00	--- U
22. Trichloroethene	0.13	1.00	--- U
23. 1,2-Dichloropropane	0.17	1.00	--- U
24. Bromodichloromethane	0.13	1.00	--- U
25. cis-1,3-Dichloropropene	0.17	1.00	--- U
26. 4-methyl-2-Pentanone	0.68	100.00	--- U
27. Toluene	0.13	1.00	--- U
28. trans-1,3-Dichloropropene	0.14	1.00	--- U
29. 1,1,2-Trichloroethane	0.20	1.00	--- U
30. Tetrachloroethene	0.16	1.00	--- U
31. 2-Hexanone	1.00	50.00	--- U
32. Dibromochloromethane	0.14	3.00	--- U
33. 1,2-Dibromoethane	0.13	1.00	--- U
34. Chlorobenzene	0.13	3.00	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.00	--- U
36. Ethylbenzene	0.16	1.00	--- U
37. Xylenes	0.48	5.00	--- U
38. Dibromomethane	0.17	10.00	--- U
39. Styrene	0.16	1.00	--- U
40. Bromoform	0.11	3.00	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.00	--- U
42. 1,2,3-Trichloropropane	0.06	1.00	--- U
43. 1,4-Dichlorobenzene	0.21	1.00	--- U
44. 1,2-Dichlorobenzene	0.13	5.00	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.00	--- U
46. Acrylonitrile	1.49	200.00	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.00	--- U

Environment 1, Incorporated

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

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

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

CLIENT ID: 6035 E

ANALYST: MO
DATE COLLECTED: 10/11/07
DATE ANALYZED: 10/23/07
DATE REPORTED: 10/25/07

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	88.5	93.6	100
Laboratory Control std.	70-130	90.7	95.4	103
Method Blank	70-130	94.8	96.0	108
Well #12 Deep	70-130	89.3	89.6	97.4
MW-7 M.S.	70-130	92.4	93.8	95.4
MW-7 M.S.D.	70-130	97.0	96.3	98.7

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 E

ANALYST: MO
DATE COLLECTED: 10/11/07
DATE ANALYZED: 10/23/07
DATE REPORTED: 10/25/07

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	20.0	--- U	17.52	87.6	18.27	91.4	4.2
Benzene	20.0	--- U	19.69	98.5	20.71	103	5.0
Trichloroethene	20.0	--- U	19.85	99.3	20.65	103	4.0
Toluene	20.0	--- U	19.39	97.0	20.45	102	5.3
Chlorobenzene	20.0	--- U	18.88	94.4	19.83	99.2	4.9

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	20.0	18.11	90.6
Benzene	20.0	20.64	103
Trichloroethene	20.0	20.40	102
Toluene	20.0	20.55	103
Chlorobenzene	20.0	20.02	100

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: 10/11/07
DATE ANALYZED: 10/19/07
DATE REPORTED: 10/25/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B
METHOD BLANK RESULTS

PARAMETERS, ug/l	MDL	SWSL	Concentration
1. Chloromethane	0.18	1.00	--- U
2. Vinyl Chloride	0.34	1.00	--- U
3. Bromomethane	0.26	10.00	--- U
4. Chloroethane	0.29	10.00	--- U
5. Trichlorofluoromethane	0.13	1.00	--- U
6. 1,1-Dichloroethene	0.14	5.00	--- U
7. Acetone	1.21	100.00	--- U
8. Iodomethane	0.12	10.00	--- U
9. Carbon Disulfide	0.14	100.00	--- U
10. Methylene Chloride	0.14	1.00	--- U
11. trans-1,2-Dichloroethene	0.13	5.00	--- U
12. 1,1-Dichloroethane	0.16	5.00	--- U
13. Vinyl Acetate	0.20	5.00	--- U
14. cis-1,2-Dichloroethene	0.14	5.00	--- U
15. 2-Butanone	0.85	100.00	--- U
16. Bromochloromethane	0.11	3.00	--- U
17. Chloroform	0.13	5.00	--- U
18. 1,1,1-Trichloroethane	0.11	1.00	--- U
19. Carbon Tetrachloride	0.13	1.00	--- U
20. Benzene	0.16	1.00	--- U
21. 1,2-Dichloroethane	0.12	1.00	--- U
22. Trichloroethene	0.13	1.00	--- U
23. 1,2-Dichloropropane	0.17	1.00	--- U
24. Bromodichloromethane	0.13	1.00	--- U
25. cis-1,3-Dichloropropene	0.17	1.00	--- U
26. 4-methyl-2-Pentanone	0.68	100.00	--- U
27. Toluene	0.13	1.00	--- U
28. trans-1,3-Dichloropropene	0.14	1.00	--- U
29. 1,1,2-Trichloroethane	0.20	1.00	--- U
30. Tetrachloroethene	0.16	1.00	--- U
31. 2-Hexanone	1.00	50.00	--- U
32. Dibromochloromethane	0.14	3.00	--- U
33. 1,2-Dibromoethane	0.13	1.00	--- U
34. Chlorobenzene	0.13	3.00	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.00	--- U
36. Ethylbenzene	0.16	1.00	--- U
37. Xylenes	0.48	5.00	--- U
38. Dibromomethane	0.17	10.00	--- U
39. Styrene	0.16	1.00	--- U
40. Bromoform	0.11	3.00	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.00	--- U
42. 1,2,3-Trichloropropane	0.06	1.00	--- U
43. 1,4-Dichlorobenzene	0.21	1.00	--- U
44. 1,2-Dichlorobenzene	0.13	5.00	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.00	--- U
46. Acrylonitrile	1.49	200.00	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.00	--- U

Environment 1, Incorporated

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

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

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

CLIENT ID: 6035 E

ANALYST: MO
DATE COLLECTED: 10/11/07
DATE ANALYZED: 10/19/07
DATE REPORTED: 10/25/07

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
Well #12 Shallow	70-130	104	102	102
Well #13 Shallow	70-130	93.4	94.1	92.8
Well #13 Deep	70-130	101	99.8	99.5
Well #14R	70-130	101	101	99.1
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

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: 10/11/07
DATE ANALYZED: 10/19/07
DATE REPORTED: 10/25/07

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	20.0	--- U	17.61	88.1	17.79	89.0	1.0
Benzene	20.0	--- U	18.99	95.0	19.29	96.5	1.6
Trichloroethene	20.0	--- U	18.77	93.9	19.49	97.5	3.8
Toluene	20.0	--- U	18.80	94.0	19.17	95.9	1.9
Chlorobenzene	20.0	--- U	18.69	93.5	19.16	95.8	2.5

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	20.0	18.87	94.4
Benzene	20.0	20.26	101
Trichloroethene	20.0	20.40	102
Toluene	20.0	20.12	101
Chlorobenzene	20.0	19.79	99.0

Pace Analytical®
www.pacelabs.com

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

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

December 21, 2007

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

RE: Project: CRSWMA-LEACHATE STORAGE LAGOON
Pace Project No.: 929360

Dear Mr. Kerly:
Enclosed are the analytical results for sample(s) received by the laboratory on December 06, 2007. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

RECEIVED DEC 26 2007

REPORT OF LABORATORY ANALYSIS

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

CERTIFICATIONS

Project: CRSWMA-LEACHATE STORAGE LAGOON
Pace Project No.: 929360

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

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

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

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

SAMPLE SUMMARY

Project: CRSWMA-LEACHATE STORAGE LAGOON
Pace Project No.: 929360

Lab ID	Sample ID	Matrix	Date Collected	Date Received
929360001	LST-1S	Water	12/04/07 08:30	12/06/07 14:08
929360002	LST-1D	Water	12/04/07 08:20	12/06/07 14:08
929360003	LST-2S	Water	12/04/07 08:40	12/06/07 14:08
929360004	LST-3S	Water	12/04/07 09:10	12/06/07 14:08
929360005	LST-5S	Water	12/04/07 08:15	12/06/07 14:08
929360006	LST-5D	Water	12/04/07 08:05	12/06/07 14:08
929360007	LST-6S	Water	12/04/07 09:25	12/06/07 14:08
929360008	LST-4S	Water	12/04/07 08:55	12/06/07 14:08
929360009	LST-4S DISS	Water	12/04/07 08:55	12/06/07 14:08
929360010	TRIP BLANK	Water	12/04/07 00:00	12/06/07 14:08
929360011	FIELD BLANK	Water	12/04/07 15:25	12/06/07 14:08

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

SAMPLE ANALYTE COUNT

Project: CRSWMA-LEACHATE STORAGE LAGOON
Pace Project No.: 929360

Lab ID	Sample ID	Method	Analytes Reported
929360001	LST-1S	EPA 8260	8
929360002	LST-1D	EPA 8260	7
929360003	LST-2S	EPA 8260	7
929360004	LST-3S	EPA 8260	7
929360005	LST-5S	EPA 8260	6
929360006	LST-5D	EPA 8260	7
929360007	LST-6S	EPA 8260	7
929360008	LST-4S	EPA 6010 GW North Carolina	1
		EPA 8260	7
929360009	LST-4S DISS	EPA 6010	1
929360010	TRIP BLANK	EPA 8260	10
929360011	FIELD BLANK	EPA 6010 GW North Carolina	2
		EPA 8260	10

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LEACHATE STORAGE LAGOON
Pace Project No.: 929360

Sample: LST-1S **Lab ID: 929360001** Collected: 12/04/07 08:30 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/08/07 11:35	67-64-1	
Bromomethane	ND	ug/L	5.0	0.29	1		12/08/07 11:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/08/07 11:35	78-93-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 11:35	74-87-3	
4-Bromofluorobenzene (S)	97	%	87-109		1		12/08/07 11:35	460-00-4	
Dibromofluoromethane (S)	96	%	85-115		1		12/08/07 11:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	79-120		1		12/08/07 11:35	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/08/07 11:35	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LEACHATE STORAGE LAGOON
Pace Project No.: 929360

Sample: LST-1D **Lab ID: 929360002** Collected: 12/04/07 08:20 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/08/07 04:27	67-64-1	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/08/07 04:27	78-93-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 04:27	74-87-3	
4-Bromofluorobenzene (S)	97	%	87-109		1		12/08/07 04:27	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		12/08/07 04:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	79-120		1		12/08/07 04:27	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		12/08/07 04:27	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LEACHATE STORAGE LAGOON
Pace Project No.: 929360

Sample: LST-2S **Lab ID: 929360003** Collected: 12/04/07 08:40 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/08/07 04:51	67-64-1	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/08/07 04:51	78-93-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 04:51	74-87-3	
4-Bromofluorobenzene (S)	98	%	87-109		1		12/08/07 04:51	460-00-4	
Dibromofluoromethane (S)	96	%	85-115		1		12/08/07 04:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	79-120		1		12/08/07 04:51	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		12/08/07 04:51	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LEACHATE STORAGE LAGOON
Pace Project No.: 929360

Sample: LST-3S **Lab ID: 929360004** Collected: 12/04/07 09:10 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/08/07 05:14	67-64-1	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/08/07 05:14	78-93-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 05:14	74-87-3	
4-Bromofluorobenzene (S)	96	%	87-109		1		12/08/07 05:14	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		12/08/07 05:14	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		12/08/07 05:14	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/08/07 05:14	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LEACHATE STORAGE LAGOON
Pace Project No.: 929360

Sample: LST-5S **Lab ID: 929360005** Collected: 12/04/07 08:15 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/08/07 05:38	67-64-1	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/08/07 05:38	78-93-3	
4-Bromofluorobenzene (S)	98	%	87-109		1		12/08/07 05:38	460-00-4	
Dibromofluoromethane (S)	95	%	85-115		1		12/08/07 05:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		12/08/07 05:38	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		12/08/07 05:38	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LEACHATE STORAGE LAGOON
Pace Project No.: 929360

Sample: LST-5D **Lab ID: 929360006** Collected: 12/04/07 08:05 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/08/07 06:02	67-64-1	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/08/07 06:02	78-93-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 06:02	74-87-3	
4-Bromofluorobenzene (S)	99	%	87-109		1		12/08/07 06:02	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		12/08/07 06:02	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		12/08/07 06:02	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/08/07 06:02	2037-26-5	

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

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LEACHATE STORAGE LAGOON
Pace Project No.: 929360

Sample: LST-6S **Lab ID: 929360007** Collected: 12/04/07 09:25 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/08/07 06:26	67-64-1	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/08/07 06:26	78-93-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 06:26	74-87-3	
4-Bromofluorobenzene (S)	98	%	87-109		1		12/08/07 06:26	460-00-4	
Dibromofluoromethane (S)	98	%	85-115		1		12/08/07 06:26	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		12/08/07 06:26	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/08/07 06:26	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LEACHATE STORAGE LAGOON
Pace Project No.: 929360

Sample: LST-4S **Lab ID: 929360008** Collected: 12/04/07 08:55 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Arsenic	**9.5**	ug/L	5.0	2.7	1	12/09/07 12:45	12/14/07 13:54	7440-38-2	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/08/07 06:50	67-64-1	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/08/07 06:50	78-93-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 06:50	74-87-3	
4-Bromofluorobenzene (S)	98	%	87-109		1		12/08/07 06:50	460-00-4	
Dibromofluoromethane (S)	96	%	85-115		1		12/08/07 06:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		12/08/07 06:50	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		12/08/07 06:50	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LEACHATE STORAGE LAGOON
Pace Project No.: 929360

Sample: LST-4S DISS **Lab ID: 929360009** Collected: 12/04/07 08:55 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	12/11/07 19:10	12/12/07 16:02	7440-38-2	

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

Pace Analytical
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LEACHATE STORAGE LAGOON
Pace Project No.: 929360

Sample: TRIP BLANK **Lab ID: 929360010** Collected: 12/04/07 00:00 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**4.3J**	ug/L	25.0	2.2	1		12/08/07 04:03	67-64-1	
Bromomethane	ND	ug/L	5.0	0.29	1		12/08/07 04:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/08/07 04:03	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		12/08/07 04:03	75-15-0	
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 04:03	74-87-3	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/08/07 04:03	75-35-4	
4-Bromofluorobenzene (S)	97	%	87-109		1		12/08/07 04:03	460-00-4	
Dibromofluoromethane (S)	96	%	85-115		1		12/08/07 04:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		12/08/07 04:03	17060-07-0	
Toluene-d8 (S)	98	%	70-120		1		12/08/07 04:03	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LEACHATE STORAGE LAGOON
Pace Project No.: 929360

Sample: FIELD BLANK **Lab ID: 929360011** Collected: 12/04/07 15:25 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	12/09/07 12:45	12/19/07 00:35	7440-38-2	
Selenium	ND	ug/L	10.0	3.8	1	12/09/07 12:45	12/19/07 00:35	7782-49-2	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/08/07 11:58	67-64-1	
Bromomethane	ND	ug/L	5.0	0.29	1		12/08/07 11:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/08/07 11:58	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		12/08/07 11:58	75-15-0	
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 11:58	74-87-3	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/08/07 11:58	75-35-4	
4-Bromofluorobenzene (S)	97	%	87-109		1		12/08/07 11:58	460-00-4	
Dibromofluoromethane (S)	96	%	85-115		1		12/08/07 11:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	94	%	79-120		1		12/08/07 11:58	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/08/07 11:58	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

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

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

QUALITY CONTROL DATA

Project: CRSWMA-LEACHATE STORAGE LAGOON
Pace Project No.: 929360

QC Batch: MSV/1998 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 929360001, 929360002, 929360003, 929360004, 929360005, 929360006, 929360007, 929360008

METHOD BLANK: 50672
Associated Lab Samples: 929360001, 929360002, 929360003, 929360004, 929360005, 929360006, 929360007, 929360008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
2-Butanone (MEK)	ug/L	ND	5.0	
Acetone	ug/L	ND	25.0	
Bromomethane	ug/L	ND	5.0	
Chloromethane	ug/L	ND	1.0	
1,2-Dichloroethane-d4 (S)	%	97	79-120	
4-Bromofluorobenzene (S)	%	97	87-109	
Dibromofluoromethane (S)	%	96	85-115	
Toluene-d8 (S)	%	99	70-120	

LABORATORY CONTROL SAMPLE: 50673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	100	101	101	50-134	
Acetone	ug/L	100	120	120	50-146	
Bromomethane	ug/L	50	71.4	143	50-150	
Chloromethane	ug/L	50	45.8	92	54-139	
1,2-Dichloroethane-d4 (S)	%			93	79-120	
4-Bromofluorobenzene (S)	%			99	87-109	
Dibromofluoromethane (S)	%			98	85-115	
Toluene-d8 (S)	%			99	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52690 52691

Parameter	Units	929364010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane-d4 (S)	%						107	104	79-120			
4-Bromofluorobenzene (S)	%						94	97	87-109			
Dibromofluoromethane (S)	%						101	101	85-115			
Toluene-d8 (S)	%						100	98	70-120			

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

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

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

QUALITY CONTROL DATA

Project: CRSWMA-LEACHATE STORAGE LAGOON
Pace Project No.: 929360

QC Batch: MPRP/1595
QC Batch Method: EPA 3010
Analysis Method: EPA 6010 GW North Carolina
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 929360008, 929360011

METHOD BLANK: 51269
Associated Lab Samples: 929360008, 929360011

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Arsenic	ug/L	ND	5.0	
Selenium	ug/L	ND	10.0	

LABORATORY CONTROL SAMPLE: 51270

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	493	99	80-120	
Selenium	ug/L	500	482	96	80-120	

MATRIX SPIKE SAMPLE: 51271

Parameter	Units	929222004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	500	483	96	75-125	
Selenium	ug/L	ND	500	475	95	75-125	

SAMPLE DUPLICATE: 51322

Parameter	Units	929360008 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	9.5	9.2	2	25	
Selenium	ug/L	ND	ND	8	25	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

QUALITY CONTROL DATA

Project: CRSWMA-LEACHATE STORAGE LAGOON
Pace Project No.: 929360

QC Batch: MSV/2017
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 929360010, 929360011

METHOD BLANK: 51463
Associated Lab Samples: 929360010, 929360011

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	5.0	
Acetone	ug/L	ND	25.0	
Bromomethane	ug/L	ND	5.0	
Carbon disulfide	ug/L	ND	2.0	
Chloromethane	ug/L	ND	1.0	
1,2-Dichloroethane-d4 (S)	%	97	79-120	
4-Bromofluorobenzene (S)	%	97	87-109	
Dibromofluoromethane (S)	%	96	85-115	
Toluene-d8 (S)	%	99	70-120	

LABORATORY CONTROL SAMPLE: 51464

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	66.0	132	78-146	
2-Butanone (MEK)	ug/L	100	101	101	50-134	
Acetone	ug/L	100	120	120	50-146	
Bromomethane	ug/L	50	71.4	143	50-150	
Carbon disulfide	ug/L	50	59.5	119	54-150	
Chloromethane	ug/L	50	45.8	92	54-139	
1,2-Dichloroethane-d4 (S)	%			93	79-120	
4-Bromofluorobenzene (S)	%			99	87-109	
Dibromofluoromethane (S)	%			98	85-115	
Toluene-d8 (S)	%			99	70-120	

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

Pace Analytical®
www.pacelabs.com

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

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

QUALITY CONTROL DATA

Project: CRSWMA-LEACHATE STORAGE LAGOON
Pace Project No.: 929360

QC Batch: MPRP/1612
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Filtered
Associated Lab Samples: 929360009

METHOD BLANK: 52259
Associated Lab Samples: 929360009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Arsenic	ug/L	ND	5.0	

LABORATORY CONTROL SAMPLE: 52260

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	412	82	80-120	

MATRIX SPIKE SAMPLE: 52261

Parameter	Units	929128021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	500	408	82	75-125	

SAMPLE DUPLICATE: 52262

Parameter	Units	929128022 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND		20	

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

Pace Analytical®
www.pacelabs.com

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

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

QUALIFIERS

Project: CRSWMA-LEACHATE STORAGE LAGOON
Pace Project No.: 929360

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
S - Surrogate
1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

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

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1136510

Section A Required Client Information:

Company: Joyce Engineering, Inc.
Address: 2211 W. Meadowview Rd Suite 101, Greensboro, NC 27407
Email To: jkerly@joyceengineering.com
Phone: 336-323-0092 Fax: 336-323-0093
Requested Due Date/TAT: 12-15-07

Section B Required Project Information:

Report To: Jeremy Kerly
Copy To:
Purchase Order No.:
Project Name: CRQWMA Landfills - Leachate Storage Lagoon Area
Project Number: 618.01.20

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference: 92111207.281
Pace Project Manager:
Pace Profile #: 2186-3

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

Site Location STATE: NC

Section D Required Client Information

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/GRAB DATE	Composite End/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): NC App I 8260 2-Butanone	NC App I 8260 - Acetone	NC App I 8260 - Bromomethane	NC App I 8260 - Chloromethane	NC App I Metals - Arsenic	NC App I Metals - Arsenic (Dissolved)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9293360
1	LST-1S	WT	G			12-4-07	830	17.1	3				X					X	X	X	X				9293360001
2	LST-1D	"	G			12-4-07	820	17.2	3				X					X	X		X				002
3	LST-2S	"	"			12-4-07	840	17	3				X					X	X		X				003
4	LST-3S	"	"			12-4-07	910	15	3				X					X	X		X				004
5	LST-4S	"	"			12-4-07	855	17	5	X		X	X					X	X		X	X	X		008 009
6	LST-5S	"	"			12-4-07	815	19	3				X					X	X						005
7	LST-5D	"	"			12-4-07	805	18	3				X					X	X		X				006
8	LST-6S	"	"			12-4-07	925	17	3				X					X	X		X				007
9																									010
10																									011
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Report Trip & Field Blanks from Long Term	JEI	12-6-07	800	Pace	12-6-07	8:00				
Regional Landfill Report on this report.		12-6-07	14:08		12-6-07	14:08	1.4	Y	N	Y
Level II Data Report Requested										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jeremy Kerly Carrie Mitchell

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 12-4-07

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

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

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

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CBSWMA Landfill **Project No./Task No.:** 618.01.20

Well ID: LST-15 **Sampler(s):** Jeremey Kerly / Carrie Mitchell

Well Location:

Well Diameter: 2 inches

Initial Depth to Water (DTW): 7.29 feet

Depth to Bottom (DTB): 15.04 feet

Water Column Thickness (WCT): 7.75 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.26 gallons

For 4" Well: WCT X 0.653 = ___ gallons

For THREE Well Volumes: WV X 3 = 3.78 gallons

Actual Amount Purged/Bailed : 3.78 gallons

Purged with: Disposable bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : 7.47 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	1032	19.9	5.44	85.2	15.39	JJK
1.26	1035	19.2	5.08	79.5	169	JJK
2.52	1036	19.2	5.01	80.5	217	JJK
3.78	1038	19.4	4.87	84.9	167	JJK
	12/4/07					
Before Sampling	830	17.1	5.81	59.8	29.6	CM

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

12/3/07: Sunny, 60s°F, Breezy *needs well tag

12/4/07: Cold, 30s°F, Cloudy

Signature: [signature] **Date:** 12/4/07

QA/QC Sign Off: [signature] **Date:** 12/5/07

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA Landfill **Project No./Task No.:** 618.01.20

Well ID: LST-1D **Sampler(s):** Jeremey Kerly / Carrie Mitchell

Well Location:

Well Diameter: 2 inches

Initial Depth to Water (DTW): 17.39 feet

Depth to Bottom (DTB): 34.86 feet

Water Column Thickness (WCT): 17.47 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 2.85 gallons

For 4" Well: WCT X 0.653 = — gallons

For THREE Well Volumes: WV X 3 = 8.55 gallons

Actual Amount Purged/Bailed : 8.55 gallons

Purged with: Disposable Bailer

Sampled with: Disposable Bailer

Depth to Water before Sampling : 18.46 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	10:44	20.1	6.68	522	63.3	CM
2.85	10:47	18.3	7.26	560	867	CM
5.70	10:51	18.1	7.20	554	984	CM
8.55	10:55	18.2	7.38	555	801	CM
	12/4/07					
Before Sampling	8:20	17.2	6.88	545	3.17	CM

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

12/3/07 Windy, Cloudy ~60s°F

* needs well tag

12/4/07 cold, 30's°F cloudy

Signature: [signature] **Date:** 12/4/07

QA/QC Sign Off: Carrie Mitchell **Date:** 12/5/07

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA-Landfill **Project No./Task No.:** 618.01.20

Well ID: LST-2S **Sampler(s):** Jeremey Kerley/Carrie Mitchell

Well Location:

Well Diameter: 2 inches

Initial Depth to Water (DTW): 8.40 feet

Depth to Bottom (DTB): 14.45 feet

Water Column Thickness (WCT): 6.05 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 0.99 gallons

For 4" Well: WCT X 0.653 = ___ gallons

For THREE Well Volumes: WV X 3 = 2.97 gallons

Actual Amount Purged/Bailed : 2.97 gallons

Purged with: Disposable bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : 8.64 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	11:03	20.0	6.30	104.8	37.4	JJK
0.99	11:05	19.6	5.40	97.8	245	JJK
1.98	11:07	19.3	5.23	93.5	167	JJK
2.97	11:09	19.5	5.18	90.5	405	JJK
	12/4/07					
Before Sampling	8:40	17.3	5.30	103.0	62.9	JJK

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

12/3/07 Sunny 60's °F, Breezy

*needs well tag

12/4/07 Cloudy 30's F, cold

Signature: [signature] **Date:** 12/4/07

QA/QC Sign Off: [signature] **Date:** 12/5/07

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRS WMA Landfill **Project No./Task No.:** 618.01.20

Well ID: LST-3S **Sampler(s):** Jeremey Kerly / Carrie Mitchell

Well Location:

Well Diameter: 2 inches

Initial Depth to Water (DTW): 10.26 feet

Depth to Bottom (DTB): 17.65 feet

Water Column Thickness (WCT): 7.39 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.20 gallons

For 4" Well: WCT X 0.653 = — gallons

For THREE Well Volumes: WV X 3 = 3.60 gallons

Actual Amount Purged/Bailed : 3.60 gallons

Purged with: Disposable bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : 10.47 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	1137	19.1	4.47	138.5	22.4	DJK
1.20	1139	18.7	4.43	135.6	151	DJK
2.40	1141	19.1	4.47	173.5	201	DJK
3.60	1143	19.1	4.39	217	254	DJK
	12/4/07					
Before Sampling	910	15.5	3.97	333	91.0	CM

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

12/3/07 Sunny, 60's °F, Breezy

*needs well tag

12/4/07 Breezy, Cloudy 30's

Signature: [signature] **Date:** 12/4/07

QA/QC Sign Off: [signature] **Date:** 12/5/07

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA-Landfill **Project No./Task No.:** 618.01.20

Well ID: LST-5S **Sampler(s):** Jeremey Kerly / Carrie Mitchell

Well Location: Next to LST-5D

Well Diameter: 2 inches

Initial Depth to Water (DTW): 9.02 feet

Depth to Bottom (DTB): 15.41 feet

Water Column Thickness (WCT): 6.39 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.04 gallons

For 4" Well: WCT X 0.653 = ____ gallons

For THREE Well Volumes: WV X 3 = 3.12 gallons

Actual Amount Purged/Bailed : 3.12 gallons

Purged with: Disposable Bailer

Sampled with: Disposable Bailer

Depth to Water before Sampling : 9.17 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	9:56	20.7	6.06	189.6	5.92	DJK
1.04	9:58	20.4	6.00	211	697	DJK
2.08	9:59	20.3	6.16	221	992	DJK
3.12	10:01	20.6	6.30	219	>1000	DJK
	12/4/07					
Before Sampling	8:15	18.5	7.13	229	72.1	DJK

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

12/3/07 60's°F, Breezy, Cloudy *needs well tag

12/4/07 cold 30's°F cloudy

Parameters taken after sampling

Signature: [signature] **Date:** 12/4/07

QA/QC Sign Off: Carrie [signature] **Date:** 12/5/07

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA Landfill **Project No./Task No.:** 618.01.20

Well ID: LST-5D **Sampler(s):** Jeremey Kerly / Carrie Mitchell

Well Location: Next to leachate Removal System

Well Diameter: 2 inches

Initial Depth to Water (DTW): 18.68 feet

Depth to Bottom (DTB): 38.66 feet

Water Column Thickness (WCT): 19.98 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 3.26 gallons

For 4" Well: WCT X 0.653 = — gallons

For THREE Well Volumes: WV X 3 = 9.78 gallons

Actual Amount Purged/Bailed : 9.78 gallons

Purged with: Disposable Bailer

Sampled with: Disposable Bailer

Depth to Water before Sampling : 18.79 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	10:09	21.1	6.72	581	73.7	CM
3.26	10:14	19.1	7.10	632	905	CM
6.52	10:18	18.9	7.28	621	968	CM
9.78	10:22	18.9	7.13	613	959	CM
	12/4/07					
Before Sampling	8:05	17.7	7.12	619	19.56	[illegible]

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

12/3/07 Windy, Slightly Cloudy ~60s

*Needs well tag; red algae present

12/4/07 cloudy, 30s°F cold

Signature: [signature] **Date:** 12/4/07

QA/QC Sign Off: [signature] **Date:** 12/5/07

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA Landfill **Project No./Task No.:** 618.01.20

Well ID: LST-65 **Sampler(s):** Jeremey Kerley / Carrie Mitchell

Well Location:

Well Diameter: 2 inches

Initial Depth to Water (DTW): 9.32 feet

Depth to Bottom (DTB): 16.44 feet

Water Column Thickness (WCT): 7.12 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.16 gallons

For 4" Well: WCT X 0.653 = — gallons

For THREE Well Volumes: WV X 3 = 3.48 gallons

Actual Amount Purged/Bailed : 3.48 gallons

Purged with: Disposable Bailer

Sampled with: Disposable Bailer

Depth to Water before Sampling : 9.50 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	12:00	20.2	5.30	42.4	19.27	CM
1.16	12:04	19.8	5.00	41.4	481	CM
2.32	12:06	19.8	4.88	40.3	995	CM
3.48	12:08	19.8	5.06	41.2	262	CM
	12/4/07					
Before Sampling	9:25	17.3	4.95	46.5	885	JMK

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

12/3/07 Breezy, Sunny, 60°F

12/4/07 Cloudy 30s°F, cold

Signature: [signature] **Date:** 12/4/07

QA/QC Sign Off: Carrie [signature] **Date:** 12/5/07

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA Landfill **Project No./Task No.:** 618.01.20

Well ID: LST-45 **Sampler(s):** Jeremey Kerly / Carrie Mitchell

Well Location: _____

Well Diameter:	2	inches
Initial Depth to Water (DTW):	9.67	feet
Depth to Bottom (DTB):	17.62	feet
Water Column Thickness (WCT):	7.95	feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well:	WCT X 0.163	=	1.30	gallons
For 4" Well:	WCT X 0.653	=	—	gallons
For THREE Well Volumes:	WV X 3	=	3.90	gallons

Actual Amount Purged/Bailed : 3.90 gallons

Purged with: Disposable Bailer

Sampled with: Disposable Bailer

Depth to Water before Sampling : 9.87 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	11:23	19.6	5.28	124.6	227	CM
1.30	11:24	19.0	5.03	86.4	641	CM
2.60	11:26	18.9	4.91	97.9	903	CM
3.90	11:29	19.3	4.71	163.7	341	CM
	12/4/07					
Before Sampling	8:55	16.9	4.05	163.5	124	CM

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

12/3/07 Sunny, Breezy 60's°F

*needs well tag ; red algae present & odor

12/4/07 Breezy, cool 30's°F

Signature: Carrie Mitchell **Date:** 12/4/07

QA/QC Sign Off: [signature] **Date:** 12-5-07

Pace Analytical®
www.pacelabs.com

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

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

December 20, 2007

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

RE: Project: CRSWMA-LONGTERM REGIONAL
Pace Project No.: 929364

Dear Mr. Kerly:
Enclosed are the analytical results for sample(s) received by the laboratory on December 06, 2007. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

RECEIVED DEC 26 2007

REPORT OF LABORATORY ANALYSIS

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

nelac

Pace Analytical
www.pacelabs.com

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

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

CERTIFICATIONS

Project: CRSWMA-LONGTERM REGIONAL
Pace Project No.: 929364

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

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

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

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

Pace Analytical
www.pacelabs.com

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

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

SAMPLE SUMMARY

Project: CRSWMA-LONGTERM REGIONAL
Pace Project No.: 929364

Lab ID	Sample ID	Matrix	Date Collected	Date Received
929364001	MW-7	Water	12/04/07 11:15	12/06/07 14:08
929364002	MW-8	Water	12/04/07 11:05	12/06/07 14:08
929364003	MW-10	Water	12/04/07 11:50	12/06/07 14:08
929364004	MW-11S	Water	12/04/07 12:00	12/06/07 14:08
929364005	MW-11D	Water	12/04/07 12:05	12/06/07 14:08
929364006	MW-12S	Water	12/04/07 10:45	12/06/07 14:08
929364007	MW-12D	Water	12/04/07 10:50	12/06/07 14:08
929364008	MW-13S	Water	12/04/07 11:35	12/06/07 14:08
929364009	MW-13D	Water	12/04/07 11:40	12/06/07 14:08
929364010	MW-14R MS/MSD	Water	12/04/07 11:25	12/06/07 14:08
929364011	TRIP BLANK	Water	12/04/07 00:00	12/06/07 14:08
929364012	FIELD BLANK	Water	12/04/07 15:25	12/06/07 14:08

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

ACCREDITED IN ACCORDANCE WITH nelac

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

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

SAMPLE ANALYTE COUNT

Project: CRSWMA-LONGTERM REGIONAL
Pace Project No.: 929364

Lab ID	Sample ID	Method	Analytes Reported
929364001	MW-7	EPA 8260	6
929364002	MW-8	EPA 8260	5
929364003	MW-10	EPA 8260	6
929364004	MW-11S	EPA 8260	5
929364005	MW-11D	EPA 8260	5
929364006	MW-12S	EPA 8260	5
929364007	MW-12D	EPA 8260	5
929364008	MW-13S	EPA 8260	5
929364009	MW-13D	EPA 8260	5
929364010	MW-14R MS/MSD	EPA 8260	5
929364011	TRIP BLANK	EPA 8260	10
929364012	FIELD BLANK	EPA 6010 GW North Carolina	2
		EPA 8260	10

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

Pace Analytical
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LONGTERM REGIONAL
Pace Project No.: 929364

Sample: MW-7 **Lab ID: 929364001** Collected: 12/04/07 11:15 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/08/07 07:37	67-64-1	
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 07:37	74-87-3	
4-Bromofluorobenzene (S)	98	%	87-109		1		12/08/07 07:37	460-00-4	
Dibromofluoromethane (S)	96	%	85-115		1		12/08/07 07:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	79-120		1		12/08/07 07:37	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/08/07 07:37	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LONGTERM REGIONAL
Pace Project No.: 929364

Sample: MW-8 **Lab ID: 929364002** Collected: 12/04/07 11:05 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 08:01	74-87-3	
4-Bromofluorobenzene (S)	99	%	87-109		1		12/08/07 08:01	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		12/08/07 08:01	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	79-120		1		12/08/07 08:01	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/08/07 08:01	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LONGTERM REGIONAL
Pace Project No.: 929364

Sample: MW-10 **Lab ID: 929364003** Collected: 12/04/07 11:50 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/08/07 08:25	67-64-1	
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 08:25	74-87-3	
4-Bromofluorobenzene (S)	98	%	87-109		1		12/08/07 08:25	460-00-4	
Dibromofluoromethane (S)	98	%	85-115		1		12/08/07 08:25	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	79-120		1		12/08/07 08:25	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/08/07 08:25	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LONGTERM REGIONAL
Pace Project No.: 929364

Sample: MW-11S **Lab ID: 929364004** Collected: 12/04/07 12:00 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 08:48	74-87-3	
4-Bromofluorobenzene (S)	99	%	87-109		1		12/08/07 08:48	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		12/08/07 08:48	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	79-120		1		12/08/07 08:48	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/08/07 08:48	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LONGTERM REGIONAL
Pace Project No.: 929364

Sample: MW-11D **Lab ID: 929364005** Collected: 12/04/07 12:05 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 09:12	74-87-3	
4-Bromofluorobenzene (S)	98	%	87-109		1		12/08/07 09:12	460-00-4	
Dibromofluoromethane (S)	95	%	85-115		1		12/08/07 09:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		12/08/07 09:12	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		12/08/07 09:12	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LONGTERM REGIONAL
Pace Project No.: 929364

Sample: MW-12S **Lab ID: 929364006** Collected: 12/04/07 10:45 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 09:36	74-87-3	
4-Bromofluorobenzene (S)	96	%	87-109		1		12/08/07 09:36	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		12/08/07 09:36	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	79-120		1		12/08/07 09:36	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		12/08/07 09:36	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LONGTERM REGIONAL
Pace Project No.: 929364

Sample: MW-12D **Lab ID: 929364007** Collected: 12/04/07 10:50 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 10:00	74-87-3	
4-Bromofluorobenzene (S)	98	%	87-109		1		12/08/07 10:00	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		12/08/07 10:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		12/08/07 10:00	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		12/08/07 10:00	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LONGTERM REGIONAL
Pace Project No.: 929364

Sample: MW-13S **Lab ID: 929364008** Collected: 12/04/07 11:35 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 10:24	74-87-3	
4-Bromofluorobenzene (S)	97	%	87-109		1		12/08/07 10:24	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		12/08/07 10:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		12/08/07 10:24	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/08/07 10:24	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LONGTERM REGIONAL
Pace Project No.: 929364

Sample: MW-13D **Lab ID: 929364009** Collected: 12/04/07 11:40 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 10:47	74-87-3	
4-Bromofluorobenzene (S)	98	%	87-109		1		12/08/07 10:47	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		12/08/07 10:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		12/08/07 10:47	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		12/08/07 10:47	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LONGTERM REGIONAL
Pace Project No.: 929364

Sample: MW-14R MS/MSD **Lab ID: 929364010** Collected: 12/04/07 11:25 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 11:11	74-87-3	
4-Bromofluorobenzene (S)	97	%	87-109		1		12/08/07 11:11	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		12/08/07 11:11	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		12/08/07 11:11	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/08/07 11:11	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LONGTERM REGIONAL
Pace Project No.: 929364

Sample: TRIP BLANK **Lab ID: 929364011** Collected: 12/04/07 00:00 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**4.3J**	ug/L	25.0	2.2	1		12/08/07 04:03	67-64-1	
Bromomethane	ND	ug/L	5.0	0.29	1		12/08/07 04:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/08/07 04:03	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		12/08/07 04:03	75-15-0	
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 04:03	74-87-3	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/08/07 04:03	75-35-4	
4-Bromofluorobenzene (S)	97	%	87-109		1		12/08/07 04:03	460-00-4	
Dibromofluoromethane (S)	96	%	85-115		1		12/08/07 04:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		12/08/07 04:03	17060-07-0	
Toluene-d8 (S)	98	%	70-120		1		12/08/07 04:03	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-LONGTERM REGIONAL
Pace Project No.: 929364

Sample: FIELD BLANK **Lab ID: 929364012** Collected: 12/04/07 15:25 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	12/09/07 12:45	12/19/07 00:35	7440-38-2	
Selenium	ND	ug/L	10.0	3.8	1	12/09/07 12:45	12/19/07 00:35	7782-49-2	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/08/07 11:58	67-64-1	
Bromomethane	ND	ug/L	5.0	0.29	1		12/08/07 11:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/08/07 11:58	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		12/08/07 11:58	75-15-0	
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 11:58	74-87-3	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/08/07 11:58	75-35-4	
4-Bromofluorobenzene (S)	97	%	87-109		1		12/08/07 11:58	460-00-4	
Dibromofluoromethane (S)	96	%	85-115		1		12/08/07 11:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	94	%	79-120		1		12/08/07 11:58	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/08/07 11:58	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

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

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

QUALITY CONTROL DATA

Project: CRSWMA-LONGTERM REGIONAL
Pace Project No.: 929364

QC Batch: MSV/1998 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 929364001, 929364002, 929364003, 929364004, 929364005, 929364006, 929364007, 929364008, 929364009, 929364010, 929364011

METHOD BLANK: 50672
Associated Lab Samples: 929364001, 929364002, 929364003, 929364004, 929364005, 929364006, 929364007, 929364008, 929364009, 929364010, 929364011

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	5.0	
Acetone	ug/L	ND	25.0	
Bromomethane	ug/L	ND	5.0	
Carbon disulfide	ug/L	ND	2.0	
Chloromethane	ug/L	ND	1.0	
1,2-Dichloroethane-d4 (S)	%	97	79-120	
4-Bromofluorobenzene (S)	%	97	87-109	
Dibromofluoromethane (S)	%	96	85-115	
Toluene-d8 (S)	%	99	70-120	

LABORATORY CONTROL SAMPLE: 50673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	66.0	132	78-146	
2-Butanone (MEK)	ug/L	100	101	101	50-134	
Acetone	ug/L	100	120	120	50-146	
Bromomethane	ug/L	50	71.4	143	50-150	
Carbon disulfide	ug/L	50	59.5	119	54-150	
Chloromethane	ug/L	50	45.8	92	54-139	
1,2-Dichloroethane-d4 (S)	%			93	79-120	
4-Bromofluorobenzene (S)	%			99	87-109	
Dibromofluoromethane (S)	%			98	85-115	
Toluene-d8 (S)	%			99	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52690 52691

Parameter	Units	929364010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L				59.7	56.6				5	30	
1,2-Dichloroethane-d4 (S)	%						107	104	79-120			
4-Bromofluorobenzene (S)	%						94	97	87-109			
Dibromofluoromethane (S)	%						101	101	85-115			
Toluene-d8 (S)	%						100	98	70-120			

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

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

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

QUALITY CONTROL DATA

Project: CRSWMA-LONGTERM REGIONAL
Pace Project No.: 929364

QC Batch: MSV/1999
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 929364012

METHOD BLANK: 50677
Associated Lab Samples: 929364012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
2-Butanone (MEK)	ug/L	ND	5.0	
Acetone	ug/L	ND	25.0	
Bromomethane	ug/L	ND	5.0	
Carbon disulfide	ug/L	ND	2.0	
Chloromethane	ug/L	ND	1.0	
1,2-Dichloroethane-d4 (S)	%	97	79-120	
4-Bromofluorobenzene (S)	%	97	87-109	
Dibromofluoromethane (S)	%	96	85-115	
Toluene-d8 (S)	%	99	70-120	

LABORATORY CONTROL SAMPLE: 50678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	100	101	101	50-134	
Acetone	ug/L	100	120	120	50-146	
Bromomethane	ug/L	50	71.4	143	50-150	
Carbon disulfide	ug/L	50	59.5	119	54-150	
Chloromethane	ug/L	50	45.8	92	54-139	
1,2-Dichloroethane-d4 (S)	%			93	79-120	
4-Bromofluorobenzene (S)	%			99	87-109	
Dibromofluoromethane (S)	%			98	85-115	
Toluene-d8 (S)	%			99	70-120	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

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

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

QUALITY CONTROL DATA

Project: CRSWMA-LONGTERM REGIONAL
Pace Project No.: 929364

QC Batch: MPRP/1596
QC Batch Method: EPA 3010
Associated Lab Samples: 929364012

Analysis Method: EPA 6010 GW North Carolina
Analysis Description: 6010 MET NC Groundwater

METHOD BLANK: 51273
Associated Lab Samples: 929364012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Arsenic	ug/L	ND	5.0	
Selenium	ug/L	ND	10.0	

LABORATORY CONTROL SAMPLE: 51274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	531	106	80-120	
Selenium	ug/L	500	526	105	80-120	

MATRIX SPIKE SAMPLE: 51282

Parameter	Units	929363017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	500	531	106	75-125	
Selenium	ug/L	ND	500	530	105	75-125	

SAMPLE DUPLICATE: 51276

Parameter	Units	929363018 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND	175	25	
Selenium	ug/L	ND	ND		25	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical
www.pacelabs.com

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

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

QUALIFIERS

Project: CRSWMA-LONGTERM REGIONAL
Pace Project No.: 929364

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1136507

Section A Required Client Information:

Company: Joyce Engineering, Inc.
Address: 2211 W. Meadowview Rd
Suite 101 Greensboro, NC 27407
Email To: jkerly@joyceengineering.com
Phone: 336-323-0092 Fax: 336-323-0093
Requested Due Date/TAT: 12/15/07

Section B Required Project Information:

Report To: Jeremey Kerly
Copy To:
Purchase Order No.:
Project Name: CRSWMA - Longterm Regional
Project Number: 618.01.20

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference: 92111207.281
Pace Project Manager:
Pace Profile #: 2186-2

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	NC App I 8260 Acetone	NC App I 8260 Chloromethane	NC App I 8260 2-Butanone	" " Carbon Disulfide	" " Bromomethane	" " 1,1-Dichloroethene	NC App I Metals Arsenic	" " Selenium	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 929364
1	mw-7	WT	G	\	\	12-4-07	1115	17	3				X						X	X								929364001
2	mw-8	"	"	\	\	12-4-07	1105	19	3				X							X								002
3	mw-10	"	"	\	\	12-4-07	1150	17	3				X						X	X								003
4	mw-11S	"	"	\	\	12-4-07	1200	14	3				X							X								004
5	mw-11D	"	"	\	\	12-4-07	1205	18	3				X							X								005
6	mw-12S	"	"	\	\	12-4-07	1045	18	3				X							X								006
7	mw-12D	"	"	\	\	12-4-07	1050	19	3				X							X								007
8	mw-13S	"	"	\	\	12-4-07	1135	16	3				X							X								008
9	mw-13D	"	"	\	\	12-4-07	1140	17	3				X							X								009
10	mw-14R (MS/MSD)	"	"	\	\	12-4-07	1125	17	6				X							X								010
11	Trip Blank	"	"	\	\	–	–	–	2				X						X	X	X	X	X	X				011
12	Field Blank	"	"	\	\	12-4-07	1525	–	4			X	X						X	X	X	X	X	X	X	X		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Level II Data Report Requested	[signature] / JET	12-6-07	800	[signature] pace	12-6-07	11:00	2.2			
	[signature]	12-6-07	14:08	[signature]	12-6-07	14:08	2.2	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jeremey Kerly, Carrie Mitchell

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12-4-07

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

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

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA - Landfill **Project No./Task No.:** 618.01.20

Well ID: MW-7 **Sampler(s):** Jeremey Kerly / Carrie Mitchell

Well Location:

Well Diameter: 2 inches

Initial Depth to Water (DTW): 7.97 feet

Depth to Bottom (DTB): 16.59 feet

Water Column Thickness (WCT): 8.62 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.41 gallons

For 4" Well: WCT X 0.653 = — gallons

For THREE Well Volumes: WV X 3 = 4.23 gallons

Actual Amount Purged/Bailed : 4.23 gallons

Purged with: Disposable bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : 8.18 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	13:13	19.5	5.88	296	95.3	CM
1.41	13:15	20.1	5.92	300	807	CM
2.82	13:17	20.3	6.05	317	396	CM
4.23	13:20	20.1	6.33	336	>1000	CM
	12/4/07					
Before Sampling	11:15	17.4	6.20	340	90.3	[illegible]

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

12/3/07 very windy, sunny low 60's°F

12/4/07 windy, 40's°F, Partly Cloudy

Signature: [illegible] **Date:** 12/4/07

QA/QC Sign Off: Carrie [illegible] **Date:** 12/5/07

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CPSWMA Landfill **Project No./Task No.:** 618.01.20

Well ID: MW-8 **Sampler(s):** Jeremey Kerly / Carrie Mitchell

Well Location:

Well Diameter: 2 inches

Initial Depth to Water (DTW): 6.05 feet

Depth to Bottom (DTB): 15.02 feet

Water Column Thickness (WCT): 8.97 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.46 gallons

For 4" Well: WCT X 0.653 = ____ gallons

For THREE Well Volumes: WV X 3 = 4.38 gallons

Actual Amount Purged/Bailed : 4.38 gallons

Purged with: Disposable bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : 6.96 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	1256	19.6	6.94	74.3	26.3	JJK
1.46	1259	19.6	5.86	71.7	320	JJK
2.92	1300	20.6	5.52	87.9	567	JJK
4.38	1304	20.8	5.40	80.3	>1000	JJK
	12/4/07					
Before Sampling	1105	18.5	6.55	83.5	811	JJK

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

12/3/07 Sunny, very Breezy, 60s°F

12/4/07 Cloudy, 40s°F, Breezy

Signature: [signature] **Date:** 12/4/07

QA/QC Sign Off: [signature] **Date:** 12/5/07

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA Landfill **Project No./Task No.:** 618.01.20

Well ID: MW-10 **Sampler(s):** Jeremey Kerley / Carrie Mitchell

Well Location: _____

Well Diameter: 2 inches

Initial Depth to Water (DTW): 6.64 feet

Depth to Bottom (DTB): 15.95 feet

Water Column Thickness (WCT): 9.31 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.52 gallons

For 4" Well: WCT X 0.653 = — gallons

For THREE Well Volumes: WV X 3 = 4.56 gallons

Actual Amount Purged/Bailed : 3.04 gallons

Purged with: Disposable bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : 6.91 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	14:22	18.8	6.19	125.6	58.1	JK
1.52	14:25	18.6	5.30	142.1	277	JK
3.04	14:28	18.9	5.51	176.5	>1000	JK
—	—	Dry @ 3.04 gal			—	
	12/4/07					
Before Sampling	11:50	16.7	6.22	128.9	31.4	CM

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

12/3/07 Sunny, 60's°F, Breezy

12/4/07 Cloudy 40's°F, Breezy

Signature: [signature] **Date:** 12/4/07

QA/QC Sign Off: [signature] **Date:** 12-5-07

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA-Landfill **Project No./Task No.:** 618.01.20

Well ID: MW-11S **Sampler(s):** Jeremey Kerby / Carrie Mitchell

Well Location: _____

Well Diameter:	2	inches
Initial Depth to Water (DTW):	9.23	feet
Depth to Bottom (DTB):	14.04	feet
Water Column Thickness (WCT):	4.81	feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well:	WCT X 0.163	=	0.78	gallons
For 4" Well:	WCT X 0.653	=	—	gallons
For THREE Well Volumes:	WV X 3	=	2.34	gallons

Actual Amount Purged/Bailed : 1.56 gallons

Purged with: Disposable bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : 9.28 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	1454	19.2	5.53	301	52.7	JJK
0.78	1456	19.1	4.87	322	540	DDK
1.56	1457	19.1	4.92	253	574	JJK
—	—	Dry @	1.56 gal	—	—	—
	12/4/07					
Before Sampling	1200	13.8	4.53	232	34.3	CM

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

12/3/07 windy sunny 60°F

12/4/07 breezy, 40s°F cloudy

Signature: Carrie Mitchell **Date:** 12/4/07

QA/QC Sign Off: [illegible] **Date:** 12-5-07

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA Landfill **Project No./Task No.:** 6115.01.20

Well ID: MW-11D **Sampler(s):** Jeremey Kerly / Carrie Mitchell

Well Location: _____

Well Diameter: 2 inches

Initial Depth to Water (DTW): 13.88 feet

Depth to Bottom (DTB): 34.42 feet

Water Column Thickness (WCT): 20.54 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 3.35 gallons

For 4" Well: WCT X 0.653 = ——— gallons

For THREE Well Volumes: WV X 3 = 10.05 gallons

Actual Amount Purged/Bailed : 10.05 gallons

Purged with: Disposable bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : 13.98 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	14:38	20.3	6.26	476	42.3	CM
3.35	14:42	17.9	7.24	517	129	CM
6.70	14:46	17.6	7.14	514	99.6	CM
10.05	14:50	18.0	7.10	516	120	CM
	12/4/07					
Before Sampling	12:05	17.9	5.82	497	9.86	CM

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

12/3/07 windy, sunny 60's

*red algae present

12/4/07 windy, chilly 40's

Signature: Carrie Mitchell **Date:** 12/4/07

QA/QC Sign Off: [illegible] **Date:** 12-5-07

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA Landfill **Project No./Task No.:** 6118.01.20

Well ID: MW-12S **Sampler(s):** Jeremey Kerly/Carrie Mitchell

Well Location: _____

Well Diameter: 2 inches

Initial Depth to Water (DTW): 9.86 feet

Depth to Bottom (DTB): 17.99 feet

Water Column Thickness (WCT): 8.13 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.33 gallons

For 4" Well: WCT X 0.653 = — gallons

For THREE Well Volumes: WV X 3 = 3.99 gallons

Actual Amount Purged/Bailed : 3.99 gallons

Purged with: Disposable bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : 10.62 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	1221	21.2	5.02	163.3	35.9	JJK
1.33	1223	20.9	5.04	183.0	49.6	JJK
2.66	1224	20.8	5.19	202	80.2	JJK
3.99	1227	20.5	5.38	233	765	JJK
	12/4/07					
Before Sampling	1045	18.2	5.46	159.2	53.1	CM

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

12/3/07 very windy, sunny 60's °F

12/4/07 windy, cloudy 30's °F

Signature: [signature] **Date:** 12/4/07

QA/QC Sign Off: [signature] **Date:** 12-5-07

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA - Landfill **Project No./Task No.:** 618.01.20

Well ID: MW-12D **Sampler(s):** Jeremey Kerly / Carrie Mitchell

Well Location: _____

Well Diameter: 2 inches

Initial Depth to Water (DTW): 16.74 feet

Depth to Bottom (DTB): 36.03 feet

Water Column Thickness (WCT): 19.29 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 3.14 gallons

For 4" Well: WCT X 0.653 = ——— gallons

For THREE Well Volumes: WV X 3 = 9.42 gallons

Actual Amount Purged/Bailed : 9.42 gallons

Purged with: Disposable bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : 16.82 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	1233	20.9	6.14	501	98.0	CM
3.14	1237	18.7	7.07	528	454	CM
6.28	1240	18.6	7.13	517	675	CM
9.42	1244	18.6	7.18	510	293	CM
	12/4/07					
Before Sampling	1050	18.9	6.01	501	50.4	CM

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

12/3/07 very windy, sunny 60's

12/4/07 windy, cloudy 30's

Signature: Carrie Mitchell **Date:** 12/4/07

QA/QC Sign Off: [illegible] **Date:** 12-5-07

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA Landfill **Project No./Task No.:** 618.01.20

Well ID: MW-135 **Sampler(s):** Jeremey Kerly/ Carrie Mitchell

Well Location: _____

Well Diameter: 2 inches

Initial Depth to Water (DTW): 4.36 feet

Depth to Bottom (DTB): 17.74 feet

Water Column Thickness (WCT): 13.38 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 2.18 gallons

For 4" Well: WCT X 0.653 = ——— gallons

For THREE Well Volumes: WV X 3 = 6.54 gallons

Actual Amount Purged/Bailed : 6.54 gallons

Purged with: Disposable bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : ——— feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	1348	19.1	5.07	180.1	53.9	JK
2.18	1351	19.1	5.05	154.7	79.8	JK
4.36	1353	19.0	5.11	153.8	363	JK
6.54	1355	19.0	5.04	232	691	JK
	12/4/07					
Before Sampling	1135	16.0	5.17	146.4	46.1	JK

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

12/3/07 very windy, sunny 60s°F

12/4/07 Breezy, 40s°F cloudy

Signature: [signature] **Date:** 12/4/07

QA/QC Sign Off: Carrie [signature] **Date:** 12/5/07

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA Landfill **Project No./Task No.:** 618.01.20

Well ID: MW-13D **Sampler(s):** Jeremey Kerly / Carrie Mitchell

Well Location:

Well Diameter:	2	inches
Initial Depth to Water (DTW):	13.37	feet
Depth to Bottom (DTB):	34.31	feet
Water Column Thickness (WCT):	20.94	feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well:	WCT X 0.163	=	3.41	gallons
For 4" Well:	WCT X 0.653	=	—	gallons
For THREE Well Volumes:	WV X 3	=	10.23	gallons

Actual Amount Purged/Bailed : 10.23 gallons

Purged with: Disposable bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : 13.46 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	14:00	19.7	6.20	416	144	CM
3.41	14:04	17.5	7.11	480	191	CM
6.82	14:07	17.4	7.12	478	489	CM
10.23	14:11	17.3	7.20	476	667	CM
	12/4/07					
Before Sampling	1140	17.1	5.98	482	17.85	JK

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

12/3/07 windy, sunny 60s°F

12/4/07 Breezy, 40s°F cloudy

Signature: [signature] **Date:** 12/4/07

QA/QC Sign Off: [signature] **Date:** 12/5/07

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: Croswell Landfill **Project No./Task No.:** 618.01.20

Well ID: MW-14R **Sampler(s):** Jeremey Kerly / Carrie Mitchell

Well Location:

Well Diameter: 2 inches

Initial Depth to Water (DTW): 7.25 feet

Depth to Bottom (DTB): 17.37 feet

Water Column Thickness (WCT): 10.12 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.65 gallons

For 4" Well: WCT X 0.653 = ——— gallons

For THREE Well Volumes: WV X 3 = 4.95 gallons

Actual Amount Purged/Bailed : 4.95 gallons

Purged with: Disposable bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : 7.31 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	13:32	18.6	5.62	79.3	110	CM
1.65	13:32	18.7	4.87	74.0	821	CM
3.30	13:36	19.4	5.01	68.2	805	CM
4.95	13:38	19.6	4.97	75.0	797	CM
	12/4/07					
Before Sampling	11:25	16.9	5.95	73.1	28.8	CM

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

12/3/07 windy, sunny ~60° F

12/4/07 Breezy, 40° F, cloudy

* Field blank taken at 1525

Signature: [signature] **Date:** 12/4/07

QA/QC Sign Off: [signature] **Date:** 12-5-07

Pace Analytical®
www.pacelabs.com

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

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

December 21, 2007

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

RE: Project: CRSWMA-INTERIM REGIONAL
Pace Project No.: 929366

Dear Mr. Kerly:
Enclosed are the analytical results for sample(s) received by the laboratory on December 06, 2007. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

RECEIVED DEC 26 2007

REPORT OF LABORATORY ANALYSIS

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

CERTIFICATIONS

Project: CRSWMA-INTERIM REGIONAL
Pace Project No.: 929366

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

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

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

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

SAMPLE SUMMARY

Project: CRSWMA-INTERIM REGIONAL
Pace Project No.: 929366

Lab ID	Sample ID	Matrix	Date Collected	Date Received
929366001	IRL-1S	Water	12/04/07 13:40	12/06/07 14:08
929366002	IRL-1D	Water	12/04/07 13:45	12/06/07 14:08
929366003	IRL-3S	Water	12/04/07 14:50	12/06/07 14:08
929366004	IRL-3D	Water	12/04/07 14:55	12/06/07 14:08
929366005	IRL-4S	Water	12/04/07 15:10	12/06/07 14:08
929366006	IRL-4D	Water	12/04/07 15:05	12/06/07 14:08
929366007	IRL-5S	Water	12/04/07 14:05	12/06/07 14:08
929366008	MW-A	Water	12/04/07 13:55	12/06/07 14:08
929366009	TRIP BLANK	Water	12/04/07 00:00	12/06/07 14:08
929366010	FIELD BLANK	Water	12/04/07 15:25	12/06/07 14:08

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

SAMPLE ANALYTE COUNT

Project: CRSWMA-INTERIM REGIONAL
Pace Project No.: 929366

Lab ID	Sample ID	Method	Analytes Reported
929366001	IRL-1S	EPA 8260	7
929366002	IRL-1D	EPA 8260	7
929366003	IRL-3S	EPA 8260	7
929366004	IRL-3D	EPA 8260	7
929366005	IRL-4S	EPA 8260	7
929366006	IRL-4D	EPA 8260	7
929366007	IRL-5S	EPA 8260	7
929366008	MW-A	EPA 8260	7
929366009	TRIP BLANK	EPA 8260	10
929366010	FIELD BLANK	EPA 6010 GW North Carolina	2
		EPA 8260	10

REPORT OF LABORATORY ANALYSIS

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-INTERIM REGIONAL
Pace Project No.: 929366

Sample: IRL-1S **Lab ID: 929366001** Collected: 12/04/07 13:40 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/08/07 12:22	67-64-1	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/08/07 12:22	78-93-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 12:22	74-87-3	
4-Bromofluorobenzene (S)	98	%	87-109		1		12/08/07 12:22	460-00-4	
Dibromofluoromethane (S)	96	%	85-115		1		12/08/07 12:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		12/08/07 12:22	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		12/08/07 12:22	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-INTERIM REGIONAL
Pace Project No.: 929366

Sample: IRL-1D **Lab ID: 929366002** Collected: 12/04/07 13:45 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/08/07 12:46	67-64-1	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/08/07 12:46	78-93-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 12:46	74-87-3	
4-Bromofluorobenzene (S)	96	%	87-109		1		12/08/07 12:46	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		12/08/07 12:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		12/08/07 12:46	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		12/08/07 12:46	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-INTERIM REGIONAL
Pace Project No.: 929366

Sample: IRL-3S **Lab ID: 929366003** Collected: 12/04/07 14:50 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/09/07 12:38	67-64-1	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/09/07 12:38	78-93-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/09/07 12:38	74-87-3	
4-Bromofluorobenzene (S)	97	%	87-109		1		12/09/07 12:38	460-00-4	
Dibromofluoromethane (S)	98	%	85-115		1		12/09/07 12:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		12/09/07 12:38	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/09/07 12:38	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-INTERIM REGIONAL
Pace Project No.: 929366

Sample: IRL-3D **Lab ID: 929366004** Collected: 12/04/07 14:55 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/09/07 13:02	67-64-1	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/09/07 13:02	78-93-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/09/07 13:02	74-87-3	
4-Bromofluorobenzene (S)	97	%	87-109		1		12/09/07 13:02	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		12/09/07 13:02	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		12/09/07 13:02	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/09/07 13:02	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-INTERIM REGIONAL
Pace Project No.: 929366

Sample: IRL-4S **Lab ID: 929366005** Collected: 12/04/07 15:10 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/09/07 13:26	67-64-1	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/09/07 13:26	78-93-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/09/07 13:26	74-87-3	
4-Bromofluorobenzene (S)	98	%	87-109		1		12/09/07 13:26	460-00-4	
Dibromofluoromethane (S)	99	%	85-115		1		12/09/07 13:26	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		12/09/07 13:26	17060-07-0	
Toluene-d8 (S)	98	%	70-120		1		12/09/07 13:26	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-INTERIM REGIONAL
Pace Project No.: 929366

Sample: IRL-4D **Lab ID: 929366006** Collected: 12/04/07 15:05 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/09/07 13:50	67-64-1	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/09/07 13:50	78-93-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/09/07 13:50	74-87-3	
4-Bromofluorobenzene (S)	100	%	87-109		1		12/09/07 13:50	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		12/09/07 13:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	79-120		1		12/09/07 13:50	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/09/07 13:50	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-INTERIM REGIONAL
Pace Project No.: 929366

Sample: IRL-5S **Lab ID: 929366007** Collected: 12/04/07 14:05 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/09/07 14:14	78-93-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/09/07 14:14	74-87-3	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/09/07 14:14	75-35-4	
4-Bromofluorobenzene (S)	99	%	87-109		1		12/09/07 14:14	460-00-4	
Dibromofluoromethane (S)	97	%	85-115		1		12/09/07 14:14	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		12/09/07 14:14	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		12/09/07 14:14	2037-26-5	

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

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-INTERIM REGIONAL
Pace Project No.: 929366

Sample: MW-A **Lab ID: 929366008** Collected: 12/04/07 13:55 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/09/07 14:37	78-93-3	
Chloromethane	ND	ug/L	1.0	0.11	1		12/09/07 14:37	74-87-3	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/09/07 14:37	75-35-4	
4-Bromofluorobenzene (S)	99	%	87-109		1		12/09/07 14:37	460-00-4	
Dibromofluoromethane (S)	99	%	85-115		1		12/09/07 14:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	79-120		1		12/09/07 14:37	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		12/09/07 14:37	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-INTERIM REGIONAL
Pace Project No.: 929366

Sample: TRIP BLANK **Lab ID: 929366009** Collected: 12/04/07 00:00 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**4.3J**	ug/L	25.0	2.2	1		12/08/07 04:03	67-64-1	
Bromomethane	ND	ug/L	5.0	0.29	1		12/08/07 04:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/08/07 04:03	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		12/08/07 04:03	75-15-0	
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 04:03	74-87-3	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/08/07 04:03	75-35-4	
4-Bromofluorobenzene (S)	97	%	87-109		1		12/08/07 04:03	460-00-4	
Dibromofluoromethane (S)	96	%	85-115		1		12/08/07 04:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		12/08/07 04:03	17060-07-0	
Toluene-d8 (S)	98	%	70-120		1		12/08/07 04:03	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-INTERIM REGIONAL
Pace Project No.: 929366

Sample: FIELD BLANK **Lab ID: 929366010** Collected: 12/04/07 15:25 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	12/09/07 12:45	12/19/07 00:35	7440-38-2	
Selenium	ND	ug/L	10.0	3.8	1	12/09/07 12:45	12/19/07 00:35	7782-49-2	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/08/07 11:58	67-64-1	
Bromomethane	ND	ug/L	5.0	0.29	1		12/08/07 11:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/08/07 11:58	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		12/08/07 11:58	75-15-0	
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 11:58	74-87-3	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/08/07 11:58	75-35-4	
4-Bromofluorobenzene (S)	97	%	87-109		1		12/08/07 11:58	460-00-4	
Dibromofluoromethane (S)	96	%	85-115		1		12/08/07 11:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	94	%	79-120		1		12/08/07 11:58	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/08/07 11:58	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

QUALITY CONTROL DATA

Project: CRSWMA-INTERIM REGIONAL
Pace Project No.: 929366

QC Batch: MSV/1999
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 929366001, 929366002

METHOD BLANK: 50677
Associated Lab Samples: 929366001, 929366002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
2-Butanone (MEK)	ug/L	ND	5.0	
Acetone	ug/L	ND	25.0	
Chloromethane	ug/L	ND	1.0	
1,2-Dichloroethane-d4 (S)	%	97	79-120	
4-Bromofluorobenzene (S)	%	97	87-109	
Dibromofluoromethane (S)	%	96	85-115	
Toluene-d8 (S)	%	99	70-120	

LABORATORY CONTROL SAMPLE: 50678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	100	101	101	50-134	
Acetone	ug/L	100	120	120	50-146	
Chloromethane	ug/L	50	45.8	92	54-139	
1,2-Dichloroethane-d4 (S)	%			93	79-120	
4-Bromofluorobenzene (S)	%			99	87-109	
Dibromofluoromethane (S)	%			98	85-115	
Toluene-d8 (S)	%			99	70-120	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

QUALITY CONTROL DATA

Project: CRSWMA-INTERIM REGIONAL
Pace Project No.: 929366

QC Batch: MPRP/1596
QC Batch Method: EPA 3010
Associated Lab Samples: 929366010

Analysis Method: EPA 6010 GW North Carolina
Analysis Description: 6010 MET NC Groundwater

METHOD BLANK: 51273
Associated Lab Samples: 929366010

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Arsenic	ug/L	ND	5.0	
Selenium	ug/L	ND	10.0	

LABORATORY CONTROL SAMPLE: 51274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	531	106	80-120	
Selenium	ug/L	500	526	105	80-120	

MATRIX SPIKE SAMPLE: 51282

Parameter	Units	929363017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	500	531	106	75-125	
Selenium	ug/L	ND	500	530	105	75-125	

SAMPLE DUPLICATE: 51276

Parameter	Units	929363018 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND	175	25	
Selenium	ug/L	ND	ND		25	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

QUALITY CONTROL DATA

Project: CRSWMA-INTERIM REGIONAL
Pace Project No.: 929366

QC Batch: MSV/2006 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 929366003, 929366004, 929366005, 929366006, 929366007, 929366008

METHOD BLANK: 51312
Associated Lab Samples: 929366003, 929366004, 929366005, 929366006, 929366007, 929366008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	5.0	
Acetone	ug/L	ND	25.0	
Chloromethane	ug/L	ND	1.0	
1,2-Dichloroethane-d4 (S)	%	98	79-120	
4-Bromofluorobenzene (S)	%	98	87-109	
Dibromofluoromethane (S)	%	97	85-115	
Toluene-d8 (S)	%	98	70-120	

LABORATORY CONTROL SAMPLE: 51313

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	69.9	140	78-146	
2-Butanone (MEK)	ug/L	100	115	115	50-134	
Acetone	ug/L	100	136	136	50-146	
Chloromethane	ug/L	50	48.1	96	54-139	
1,2-Dichloroethane-d4 (S)	%			104	79-120	
4-Bromofluorobenzene (S)	%			99	87-109	
Dibromofluoromethane (S)	%			98	85-115	
Toluene-d8 (S)	%			99	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51314 51315

Parameter	Units	929453004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	61.6	58.9	123	118	60-150	4	30	
1,2-Dichloroethane-d4 (S)	%						101	104	79-120			
4-Bromofluorobenzene (S)	%						100	100	87-109			
Dibromofluoromethane (S)	%						100	100	85-115			
Toluene-d8 (S)	%						100	99	70-120			

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

QUALITY CONTROL DATA

Project: CRSWMA-INTERIM REGIONAL
Pace Project No.: 929366

QC Batch: MSV/2017
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 929366009, 929366010

METHOD BLANK: 51463
Associated Lab Samples: 929366009, 929366010

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	5.0	
Acetone	ug/L	ND	25.0	
Bromomethane	ug/L	ND	5.0	
Carbon disulfide	ug/L	ND	2.0	
Chloromethane	ug/L	ND	1.0	
1,2-Dichloroethane-d4 (S)	%	97	79-120	
4-Bromofluorobenzene (S)	%	97	87-109	
Dibromofluoromethane (S)	%	96	85-115	
Toluene-d8 (S)	%	99	70-120	

LABORATORY CONTROL SAMPLE: 51464

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	66.0	132	78-146	
2-Butanone (MEK)	ug/L	100	101	101	50-134	
Acetone	ug/L	100	120	120	50-146	
Bromomethane	ug/L	50	71.4	143	50-150	
Carbon disulfide	ug/L	50	59.5	119	54-150	
Chloromethane	ug/L	50	45.8	92	54-139	
1,2-Dichloroethane-d4 (S)	%			93	79-120	
4-Bromofluorobenzene (S)	%			99	87-109	
Dibromofluoromethane (S)	%			98	85-115	
Toluene-d8 (S)	%			99	70-120	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

QUALIFIERS

Project: CRSWMA-INTERIM REGIONAL
Pace Project No.: 929366

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1136514

Section A Required Client Information:

Company: Joyce Engineering, Inc
Address: 2211 W Meadowview Ste 101
Greensboro, NC 27407
Email To: jkerly@joyceengineering.com
Phone: 336-323-0092 Fax: 336-323-0093
Requested Due Date/TAT: 12/15/2007

Section B Required Project Information:

Report To: Jeremey Kerly
Copy To:
Purchase Order No.:
Project Name: CRSWMA-Interim Regional
Project Number: 618.01.20

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference: 92111207.281
Pace Project Manager:
Pace Profile #: 2186-1

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	NC APPI 8240-Acetone	" "-Chloromethane	" "1,1-Dichloroethene	" " 2-Butanone	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 929366
1	IRL-1S	WT	G	\	\	12-4-07	1340	17	3				X						X	X		X		929366001
2	IRL-1D	"	"	\	\	12-4-07	1345	17	3				X						X	X		X		002
3	IRL-3S	"	"	\	\	12-4-07	1450	18	3				X						X	X		X		003
4	IRL-3D	"	"	\	\	12-4-07	1455	17	3				X						X	X		X		004
5	IRL-4S	"	"	\	\	12-4-07	1510	19	3				X						X	X		X		005
6	IRL-4D	"	"	\	\	12-4-07	1505	19	3				X						X	X		X		006
7	IRL-5S	"	"	\	\	12-4-07	1405	19	3				X							X	X	X		007
8	MW-A	"	"	\	\	12-4-07	1355	17	3				X							X	X	X		008
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Report Trip Blank and	[signature] / JEI	12-6-07	800	[signature] pace	12-6-07	11:00				
Field Blank from Long	[signature]	12-6-07	14:08	[signature]	12-6-07	14:08	1.2	4	4	4
Term Regional Landfill										
report on this report										

Level II Data Report Requested

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jeremey Kerly Carrie Mitchell

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12-4-07

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

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

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA-Landfill **Project No./Task No.:** 618.01.20

Well ID: IRL-15 **Sampler(s):** Jeremey Kerly / Carrie Mitchell

Well Location:

Well Diameter: 2 inches

Initial Depth to Water (DTW): 8.26 feet

Depth to Bottom (DTB): 17.72 feet

Water Column Thickness (WCT): 9.46 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.54 gallons

For 4" Well: WCT X 0.653 = — gallons

For THREE Well Volumes: WV X 3 = 4.62 gallons

Actual Amount Purged/Bailed : 4.62 gallons

Purged with: Disposable Bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : 8.27 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	1530	17.6	5.71	90.4	42.6	JJK
1.54	1534	17.1	5.09	105.8	294	JJK
3.08	1536	17.4	5.14	116.3	533	JJK
4.62	1538	17.4	5.19	113.5	593	JJK
	12/4/07					
Before Sampling	1340	16.7	6.60	109.2	79.4	JJK

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

12/3/07 - Windy, Sunny 60's°F

12/4/07 - Cold 30's°F Cloudy

Signature: Carrie [signature] **Date:** 12/4/07

QA/QC Sign Off: [signature] **Date:** 12-5-07

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA Landfill **Project No./Task No.:** 6018.01.20

Well ID: IRL-1D **Sampler(s):** Jeremey Kerly / Carrie Mitchell

Well Location:

Well Diameter:	2	inches
Initial Depth to Water (DTW):	16.79	feet
Depth to Bottom (DTB):	43.96	feet
Water Column Thickness (WCT):	27.17	feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well:	WCT X 0.163	=	4.43	gallons
For 4" Well:	WCT X 0.653	=	—	gallons
For THREE Well Volumes:	WV X 3	=	13.29	gallons

Actual Amount Purged/Bailed : 13.29 gallons

Purged with: Disposable bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : 16.84 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	15:11	18.2	6.01	172.3	39.1	CM
4.43	15:16	16.9	6.24	224	527	CM
8.86	15:22	16.8	6.37	226	694	CM
13.29	15:27	16.8	6.48	225	762	CM
	12/4/07					
Before Sampling	13:45	16.7	6.29	357	14.97	[illegible]

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

12/3/07 Windy, Sunny 60s°F

* Needs well tag

12/4/07 Breezy, Cloudy 30s°F

Signature: Carrie [illegible] **Date:** 12/4/07

QA/QC Sign Off: [illegible] **Date:** 12-5-07

DATE: 12/04/07

ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA-Landfill **Project No./Task No.:** 618.01.20

Well ID: IRL-3S **Sampler(s):** Jeremey Kerly / Carrie Mitchell

Well Location:

Well Diameter: 2 inches

Initial Depth to Water (DTW): 9.92 feet

Depth to Bottom (DTB): 14.34 feet

Water Column Thickness (WCT): 6.42 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 1.05 gallons

For 4" Well: WCT X 0.653 = — gallons

For THREE Well Volumes: WV X 3 = 3.15 gallons

Actual Amount Purged/Bailed : 3.15 gallons

Purged with: Disposable bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : 10.67 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	10:00	18.6	6.46	945	21.5	JJK
1.05	10:02	18.7	6.43	982	180	JJK
2.10	10:03	19.4	6.30	974	115	JJK
3.15	10:05	19.4	6.46	946	215	JJK
Before Sampling	14:50	18.2	7.08	963	15.00	JJK

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

12/4/07 Cloudy, 40's °F, odor

* Needs well tag

Signature: [signature] **Date:** 12/4/07

QA/QC Sign Off: [signature] **Date:** 12/5/07

DATE: 12/4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA-Landfill **Project No./Task No.:** 418.01.20

Well ID: IRL-3D **Sampler(s):** Jeremey Kerly Carrie Mitchell

Well Location:

Well Diameter: 2 inches

Initial Depth to Water (DTW): 17.90 feet

Depth to Bottom (DTB): 38.50 feet

Water Column Thickness (WCT): 20.60 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 3.36 gallons

For 4" Well: WCT X 0.653 = — gallons

For THREE Well Volumes: WV X 3 = 10.08 gallons

Actual Amount Purged/Bailed : 10.80 gallons

Purged with: Disposable bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : 17.91 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	9:44	17.8	5.91	755	22.5	CM
3.36	9:48	17.4	6.65	853	105	CM
6.72	9:52	17.4	6.67	973	633	CM
10.08	9:54	17.4	6.74	1014	818	CM
Before Sampling	1455	16.8	4.60	1052	525	DJK

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

12/4/07 Breezy Cool 30's

*needs well tag

Parameters taken after sampling

Signature: [signature] **Date:** 12/4/07

QA/QC Sign Off: [signature] **Date:** 12/5/07

DATE: 12/4/07

ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA Landfill **Project No./Task No.:** 618.01.20

Well ID: IRL-45 **Sampler(s):** Jeremey Kerly / Carrie Mitchell

Well Location:

Well Diameter: 2 inches

Initial Depth to Water (DTW): 9.89 feet

Depth to Bottom (DTB): 14.98 feet

Water Column Thickness (WCT): 5.09 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 0.83 gallons

For 4" Well: WCT X 0.653 = — gallons

For THREE Well Volumes: WV X 3 = 2.49 gallons

Actual Amount Purged/Bailed : 2.49 gallons

Purged with: Disposable bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : 11.34 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	1027	18.6	6.28	341	117	JOK
0.83	1029	19.1	5.58	310	203	JOK
1.66	1031	19.2	5.61	343	429	JOK
2.49	1032	19.5	5.71	339	710	JOK
Before Sampling	1510	18.6	6.64	379	47.5	CM

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

12/4/07 Cloudy 40's°F, Breezy

Signature: Carrie Mitchell **Date:** 12/4/07

QA/QC Sign Off: [illegible] **Date:** 12-5-07

DATE: 12/4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA Landfill **Project No./Task No.:** 618.01.20

Well ID: IRL-4D **Sampler(s):** Jeremey Kerly / Carrie Mitchell

Well Location: _____

Well Diameter: 2 inches

Initial Depth to Water (DTW): 16.25 feet

Depth to Bottom (DTB): 34.19 feet

Water Column Thickness (WCT): 17.94 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 2.92 gallons

For 4" Well: WCT X 0.653 = — gallons

For THREE Well Volumes: WV X 3 = 8.76 gallons

Actual Amount Purged/Bailed : 8.76 gallons

Purged with: Disposable bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : 16.23 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	10:14	19.0	7.48	582	63.4	CM
2.92	10:18	19.0	7.06	619	143	CM
5.84	10:21	19.1	7.05	621	143	CM
8.76	10:23	18.9	7.07	620	204	CM
Before Sampling	1505	18.8	7.39	610	64.6	CM

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

12/4/07 Breezy, Chilly 30s

Signature: Carrie Mitchell **Date:** 12/4/07

QA/QC Sign Off: [illegible] **Date:** 12-5-07

DATE: 12/3-4/07

ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA-Landfill **Project No./Task No.:** 618.01.20

Well ID: IRL-5S **Sampler(s):** Jeremey Kerly / Carrie Mitchell

Well Location: _____

Well Diameter: 2 inches

Initial Depth to Water (DTW): 10.22 feet

Depth to Bottom (DTB): 14.61 feet

Water Column Thickness (WCT): 4.39 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 0.72 gallons

For 4" Well: WCT X 0.653 = — gallons

For THREE Well Volumes: WV X 3 = 2.16 gallons

Actual Amount Purged/Bailed : 2.16 gallons

Purged with: Disposable bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : 10.29 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	16:12	20.0	6.25	1900	240	JJK
0.72	16:14	20.0	6.51	1846	37.6	JJK
1.44	16:15	20.6	6.34	1860	34.3	JJK
2.16	16:18	20.4	6.51	1855	33.1	JJK
	12/4/07					
Before Sampling	1405	18.7	6.26	1829	9.92	JJK

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

12/3/07 - Sunny, 50's°F, breezy, odor

12/4/07 - Cloudy 50's°F, breezy

Signature: [signature] **Date:** 12/4/07

QA/QC Sign Off: [signature] **Date:** 12/5/07

DATE: 12/3-4/07

JOYCE ENGINEERING, INC.

GROUND WATER SAMPLING LOG

Project Name: CRSWMA-Landfill **Project No./Task No.:** 108.01.20

Well ID: MW-A **Sampler(s):** Jeremey Kerly / Carrie Mitchell

Well Location:

Well Diameter: 2 inches

Initial Depth to Water (DTW): 7.92 feet

Depth to Bottom (DTB): 20.46 feet

Water Column Thickness (WCT): 12.54 feet [DTB-DTW]

Calculation for One Well Volume (WV):

For 2" Well: WCT X 0.163 = 2.04 gallons

For 4" Well: WCT X 0.653 = ——— gallons

For THREE Well Volumes: WV X 3 = 6.12 gallons

Actual Amount Purged/Bailed : 6.12 gallons

Purged with: Disposable bailer

Sampled with: Disposable bailer

Depth to Water before Sampling : 8.00 feet

Gallons	Time	Temp(°C)	pH	Cond. (µS)	Turb.(ntu)	Initials
0	15:51	18.3	5.26	77.5	55.8	CM
2.04	15:54	19.1	5.11	94.4	436	CM
4.08	15:56	19.2	5.21	98.7	806	CM
6.12	15:59	19.3	5.25	97.5	107	CM
	12/4/07					
Before Sampling	13:55	16.9	6.61	108.7	73.3	CM

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

12/3/07 Windy, sunny 50's°F

12/4/07 Chilly, windy 40's°F

Signature: Carrie Mitchell **Date:** 12/4/07

QA/QC Sign Off: [illegible] **Date:** 12-5-07

Pace Analytical®
www.pacelabs.com

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

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

December 21, 2007

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

RE: Project: CRSWMA-Surface Water
Pace Project No.: 929367

Dear Mr. Kerly:
Enclosed are the analytical results for sample(s) received by the laboratory on December 06, 2007. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

RECEIVED DEC 26 2007

REPORT OF LABORATORY ANALYSIS

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

CERTIFICATIONS

Project: CRSWMA-Surface Water
Pace Project No.: 929367

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

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

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

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

SAMPLE SUMMARY

Project: CRSWMA-Surface Water
Pace Project No.: 929367

Lab ID	Sample ID	Matrix	Date Collected	Date Received
929367001	**SWPT-1**	Water	12/04/07 14:35	12/06/07 14:08
929367002	**SWPT-2**	Water	12/04/07 14:20	12/06/07 14:08
929367003	**SWPT-2 DISSOLVED**	Water	12/04/07 14:20	12/06/07 14:08
929367004	**TRIP BLANK**	Water	12/04/07 00:00	12/06/07 14:08
929367005	**FIELD BLANK**	Water	12/04/07 15:25	12/06/07 14:08

REPORT OF LABORATORY ANALYSIS

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

SAMPLE ANALYTE COUNT

Project: CRSWMA-Surface Water
Pace Project No.: 929367

Lab ID	Sample ID	Method	Analytes Reported
929367001	SWPT-1	EPA 8260	6
929367002	SWPT-2	EPA 6010 GW North Carolina	1
		EPA 8260	7
929367003	SWPT-2 DISSOLVED	EPA 6010	1
929367004	TRIP BLANK	EPA 8260	10
929367005	FIELD BLANK	EPA 6010 GW North Carolina	2
		EPA 8260	10

REPORT OF LABORATORY ANALYSIS

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-Surface Water
Pace Project No.: 929367

Sample: SWPT-1 **Lab ID: 929367001** Collected: 12/04/07 14:35 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/07/07 14:43	67-64-1	
Chloromethane	ND	ug/L	1.0	0.11	1		12/07/07 14:43	74-87-3	
4-Bromofluorobenzene (S)	102	%	87-109		1		12/07/07 14:43	460-00-4	
Dibromofluoromethane (S)	96	%	85-115		1		12/07/07 14:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		12/07/07 14:43	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/07/07 14:43	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-Surface Water
Pace Project No.: 929367

Sample: SWPT-2 **Lab ID: 929367002** Collected: 12/04/07 14:20 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Selenium	ND	ug/L	10.0	3.8	1	12/09/07 12:45	12/19/07 00:44	7782-49-2	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/08/07 04:44	67-64-1	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/08/07 04:44	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		12/08/07 04:44	75-15-0	
4-Bromofluorobenzene (S)	96	%	87-109		1		12/08/07 04:44	460-00-4	
Dibromofluoromethane (S)	105	%	85-115		1		12/08/07 04:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	112	%	79-120		1		12/08/07 04:44	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		12/08/07 04:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-Surface Water
Pace Project No.: 929367

Sample: SWPT-2 DISSOLVED **Lab ID: 929367003** Collected: 12/04/07 14:20 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Selenium	ND	ug/L	10.0	3.8	1	12/11/07 19:10	12/12/07 16:06	7782-49-2	

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

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-Surface Water
Pace Project No.: 929367

Sample: TRIP BLANK **Lab ID: 929367004** Collected: 12/04/07 00:00 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**4.3J**	ug/L	25.0	2.2	1		12/08/07 04:03	67-64-1	
Bromomethane	ND	ug/L	5.0	0.29	1		12/08/07 04:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/08/07 04:03	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		12/08/07 04:03	75-15-0	
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 04:03	74-87-3	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/08/07 04:03	75-35-4	
4-Bromofluorobenzene (S)	97	%	87-109		1		12/08/07 04:03	460-00-4	
Dibromofluoromethane (S)	96	%	85-115		1		12/08/07 04:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	79-120		1		12/08/07 04:03	17060-07-0	
Toluene-d8 (S)	98	%	70-120		1		12/08/07 04:03	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

ANALYTICAL RESULTS

Project: CRSWMA-Surface Water
Pace Project No.: 929367

Sample: FIELD BLANK **Lab ID: 929367005** Collected: 12/04/07 15:25 Received: 12/06/07 14:08 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Arsenic	ND	ug/L	5.0	2.7	1	12/09/07 12:45	12/19/07 00:35	7440-38-2	
Selenium	ND	ug/L	10.0	3.8	1	12/09/07 12:45	12/19/07 00:35	7782-49-2	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		12/08/07 11:58	67-64-1	
Bromomethane	ND	ug/L	5.0	0.29	1		12/08/07 11:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		12/08/07 11:58	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		12/08/07 11:58	75-15-0	
Chloromethane	ND	ug/L	1.0	0.11	1		12/08/07 11:58	74-87-3	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		12/08/07 11:58	75-35-4	
4-Bromofluorobenzene (S)	97	%	87-109		1		12/08/07 11:58	460-00-4	
Dibromofluoromethane (S)	96	%	85-115		1		12/08/07 11:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	94	%	79-120		1		12/08/07 11:58	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		12/08/07 11:58	2037-26-5	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

QUALITY CONTROL DATA

Project: CRSWMA-Surface Water
Pace Project No.: 929367

QC Batch: MSV/1996
QC Batch Method: EPA 8260
Associated Lab Samples: 929367001

Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level

METHOD BLANK: 50584
Associated Lab Samples: 929367001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Acetone	ug/L	ND	25.0	
Chloromethane	ug/L	ND	1.0	
1,2-Dichloroethane-d4 (S)	%	98	79-120	
4-Bromofluorobenzene (S)	%	101	87-109	
Dibromofluoromethane (S)	%	96	85-115	
Toluene-d8 (S)	%	99	70-120	

LABORATORY CONTROL SAMPLE: 50585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	100	153	153	50-146	L3
Chloromethane	ug/L	50	53.2	106	54-139	
1,2-Dichloroethane-d4 (S)	%			96	79-120	
4-Bromofluorobenzene (S)	%			100	87-109	
Dibromofluoromethane (S)	%			100	85-115	
Toluene-d8 (S)	%			99	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50670 50671

Parameter	Units	929126005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane-d4 (S)	%						110	112	79-120			
4-Bromofluorobenzene (S)	%						96	94	87-109			
Dibromofluoromethane (S)	%						102	102	85-115			
Toluene-d8 (S)	%						100	100	70-120			

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

QUALITY CONTROL DATA

Project: CRSWMA-Surface Water
Pace Project No.: 929367

QC Batch: MSV/2002
QC Batch Method: EPA 8260
Associated Lab Samples: 929367002

Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level

METHOD BLANK: 50692
Associated Lab Samples: 929367002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
2-Butanone (MEK)	ug/L	ND	5.0	
Acetone	ug/L	ND	25.0	
Carbon disulfide	ug/L	ND	2.0	
1,2-Dichloroethane-d4 (S)	%	111	79-120	
4-Bromofluorobenzene (S)	%	95	87-109	
Dibromofluoromethane (S)	%	103	85-115	
Toluene-d8 (S)	%	101	70-120	

LABORATORY CONTROL SAMPLE: 50693

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	100	122	122	50-134	
Acetone	ug/L	100	172	172	50-146	L3
Carbon disulfide	ug/L	50	56.5	113	54-150	
1,2-Dichloroethane-d4 (S)	%			101	79-120	
4-Bromofluorobenzene (S)	%			102	87-109	
Dibromofluoromethane (S)	%			101	85-115	
Toluene-d8 (S)	%			100	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50807 50808

Parameter	Units	929220001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane-d4 (S)	%						110	112	79-120			
4-Bromofluorobenzene (S)	%						96	94	87-109			
Dibromofluoromethane (S)	%						102	102	85-115			
Toluene-d8 (S)	%						100	100	70-120			

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

QUALITY CONTROL DATA

Project: CRSWMA-Surface Water
Pace Project No.: 929367

QC Batch: MPRP/1594
QC Batch Method: EPA 3010
Associated Lab Samples: 929367005

Analysis Method: EPA 6010 GW North Carolina
Analysis Description: 6010 MET NC Groundwater

METHOD BLANK: 51265
Associated Lab Samples: 929367005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Arsenic	ug/L	ND	5.0	
Selenium	ug/L	ND	10.0	

LABORATORY CONTROL SAMPLE: 51266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	479	96	80-120	
Selenium	ug/L	500	494	99	80-120	

MATRIX SPIKE SAMPLE: 51267

Parameter	Units	929230020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	500	518	103	75-125	
Selenium	ug/L	ND	500	517	103	75-125	

SAMPLE DUPLICATE: 51268

Parameter	Units	929101001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND	57	25	
Selenium	ug/L	ND	ND	178	25	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

QUALITY CONTROL DATA

Project: CRSWMA-Surface Water
Pace Project No.: 929367

QC Batch: MPRP/1596
QC Batch Method: EPA 3010
Associated Lab Samples: 929367002

Analysis Method: EPA 6010 GW North Carolina
Analysis Description: 6010 MET NC Groundwater

METHOD BLANK: 51273
Associated Lab Samples: 929367002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Selenium	ug/L	ND	10.0	

LABORATORY CONTROL SAMPLE: 51274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	ug/L	500	526	105	80-120	

MATRIX SPIKE SAMPLE: 51282

Parameter	Units	929363017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Selenium	ug/L	ND	500	530	105	75-125	

SAMPLE DUPLICATE: 51276

Parameter	Units	929363018 Result	Dup Result	RPD	Max RPD	Qualifiers
Selenium	ug/L	ND	ND		25	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

QUALITY CONTROL DATA

Project: CRSWMA-Surface Water
Pace Project No.: 929367

QC Batch: MSV/2017
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 929367004, 929367005

METHOD BLANK: 51463
Associated Lab Samples: 929367004, 929367005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1-Dichloroethene	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	5.0	
Acetone	ug/L	ND	25.0	
Bromomethane	ug/L	ND	5.0	
Carbon disulfide	ug/L	ND	2.0	
Chloromethane	ug/L	ND	1.0	
1,2-Dichloroethane-d4 (S)	%	97	79-120	
4-Bromofluorobenzene (S)	%	97	87-109	
Dibromofluoromethane (S)	%	96	85-115	
Toluene-d8 (S)	%	99	70-120	

LABORATORY CONTROL SAMPLE: 51464

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	66.0	132	78-146	
2-Butanone (MEK)	ug/L	100	101	101	50-134	
Acetone	ug/L	100	120	120	50-146	
Bromomethane	ug/L	50	71.4	143	50-150	
Carbon disulfide	ug/L	50	59.5	119	54-150	
Chloromethane	ug/L	50	45.8	92	54-139	
1,2-Dichloroethane-d4 (S)	%			93	79-120	
4-Bromofluorobenzene (S)	%			99	87-109	
Dibromofluoromethane (S)	%			98	85-115	
Toluene-d8 (S)	%			99	70-120	

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

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical®
www.pacelabs.com

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

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

QUALITY CONTROL DATA

Project: CRSWMA-Surface Water
Pace Project No.: 929367

QC Batch: MPRP/1612
QC Batch Method: EPA 3010
Associated Lab Samples: 929367003

Analysis Method: EPA 6010
Analysis Description: 6010 MET Filtered

METHOD BLANK: 52259
Associated Lab Samples: 929367003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Selenium	ug/L	ND	10.0	

LABORATORY CONTROL SAMPLE: 52260

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	ug/L	500	408	82	80-120	

MATRIX SPIKE SAMPLE: 52261

Parameter	Units	929128021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Selenium	ug/L	ND	500	393	79	75-125	

SAMPLE DUPLICATE: 52262

Parameter	Units	929128022 Result	Dup Result	RPD	Max RPD	Qualifiers
Selenium	ug/L	ND	ND		20	

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

Pace Analytical®
www.pacelabs.com

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

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

QUALIFIERS

Project: CRSWMA-Surface Water
Pace Project No.: 929367

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

ANALYTE QUALIFIERS

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1136513

Section A Required Client Information:

Company: Joyce Engineering, Inc.
Address: 2211 W. Meadowview Rd Ste 101 Greensboro, NC 27407
Email To: jkerly@joyceengineering.com
Phone: 336-323-0092 Fax: 336-323-0093
Requested Due Date/TAT: 12/15/07

Section B Required Project Information:

Report To: Jeremey Kerly
Copy To:
Purchase Order No.:
Project Name: CSWMA- Surface Water
Project Number: 618.01.20

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference: 92111207.281
Pace Project Manager:
Pace Profile #: 2186-4

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): NC App I-8260 Acetone	" 2-Butanone	" Carbon Disulfide	" Chloroformane	NC App I-Metals Selenium	" Selenium Dissolved	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 929367
1	SWPT-1	WT	G	\	\	12-4-07	1435	9	3				X					X			X				929367 001
2	SWPT-2	"	"	\	\	12-4-07	1420	8	5	X		X	X					X	X	X		X	X		002
3																									003
4																									004
5																									005
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Report Trip Blank and Field	JSEI	12-6-07	800	Pace	12-6-07	11:00	
Blank from Long Term Regional		12-6-07	14:08		12-6-07	14:08	12 4 ~ 7
Landfill report on this report.							
Level II Data Report Requested							

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

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jeremey Kerly Carrie Mitchell

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12-4-07

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

DATE: 12/4/07

JOYCE ENGINEERING, INC.

SURFACE WATER MONITORING LOG

Project Name: CRSWMA landfill **Project/Task No.:** 618.01.20

Surface Point ID: SWPT-1 **Sampler(s):** Jeremey Kerly / Carrie Mitchell

Location:

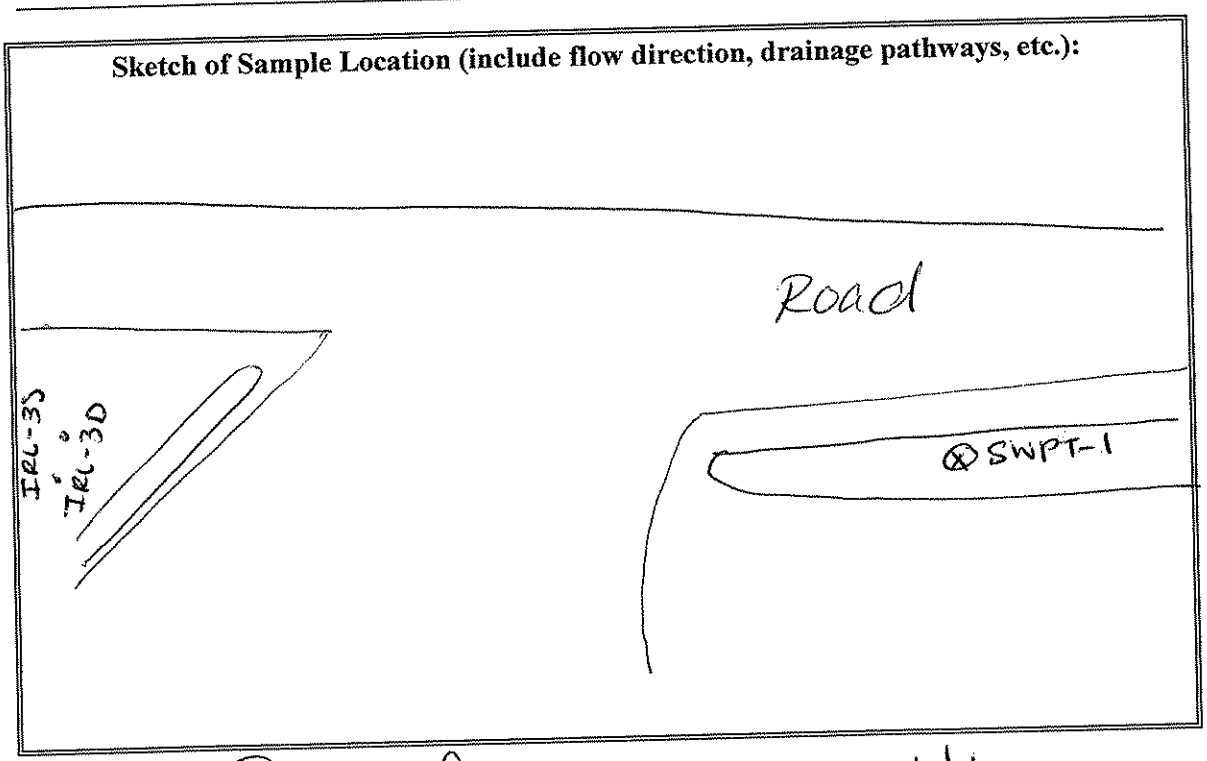
Field Parameters:

Time of Sampling:	1435	
pH:	8.09	
Temperature :	8.5	(°C)
Conductivity :	2140	(µS)
Turbidity :	10.49	(ntu)

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

Partly cloudy, Breezy 50.5°F

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



Signature: Carrie Mitchell **Date:** 12/4/07

QA/QC Sign Off: [illegible] **Date:** 12-5-07

DATE: 12/4/07

JOYCE ENGINEERING, INC.

SURFACE WATER MONITORING LOG

Project Name: CRSWMA Landfill **Project/Task No.:** 6184.01.20

Surface Point ID: SWPT-2 **Sampler(s):** Jeremey Kelly / Carrie Mitchell

Location:

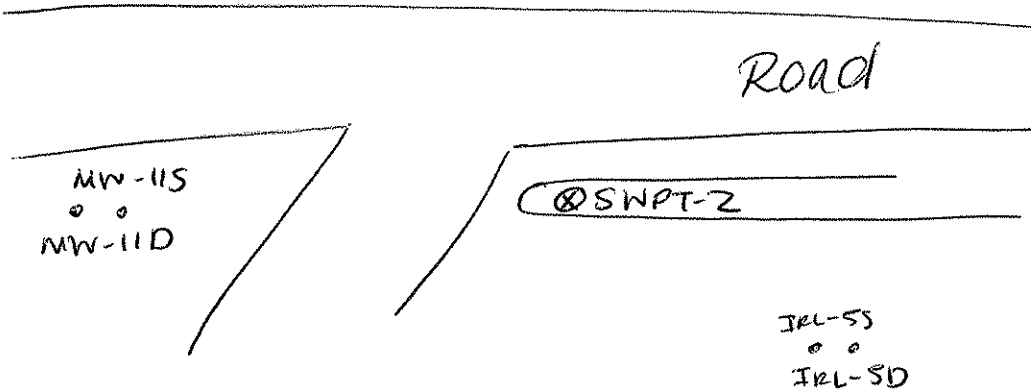
Field Parameters:

Time of Sampling:	1420	
pH:	7.48	
Temperature :	8.1	(°C)
Conductivity :	3.63	~~(µS)~~ mS
Turbidity :	21.2	(ntu)

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

12/4/07 windy, chilly 40's

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



Signature: [signature] **Date:** 12/4/07

QA/QC Sign Off: [signature] **Date:** 12-5-07