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

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Dan Girdner Phone: (336) 323-0092

E-mail: dgirdner@joyceengineering.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Coastal Regional Solid Waste Management Authority Tuscarora Landfills	7400 Old Hwy 70 West New Bern, NC 28562	25-04 & 25-09	.1600	October 21-23, 2014

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Hannu Kemppinen, P.G. | Sr. Project Consultant | (336) 323-0092

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

Hannu Kemppinen | Jan 26, 2015

Signature | Date

Affix NC Licensed/Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1400 GEOLOGIST HANNU M. A. KEMPPINEN

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

Facility Representative Address

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

Revised 6/2009

Environmental Engineers, Scientists & Consultants

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February 10, 2015

Mr. Ervin Lane
Compliance Hydrogeologist
Division of Waste Management/Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646

RE: Permits 25-04 & 25-09 CRSWMA MSWLF 2nd Semiannual Water Quality Monitoring Report of 2014
JOYCE Project No. 00618. 1501.12, Task No. 01

Dear Ervin:

On behalf of the Coastal Regional Solid Waste Management Authority (CRSWMA), Joyce Engineering is submitting the enclosed *Second Semiannual Water Quality Monitoring Report of 2014* in electronic format, including the Environmental Monitoring Form. This report completes the second semiannual compliance monitoring event of 2014 for the Tuscarora Landfill, Permit Numbers 25-04 and 25-09, as required by the North Carolina Division of Waste Management, Solid Waste Section. Please feel free to contact me or Dan Girdner at (336) 323-0092 if you have any questions regarding this submittal.

Sincerely,
JOYCE ENGINEERING

Hannu Kemppinen, P.G.
Senior Project Consultant

Enclosure

C: Bobby Darden – Executive Director, CRSWMA (with enclosure)

PREPARED FOR:

COASTAL REGIONAL SOLID WASTE MANAGEMENT AUTHORITY
P.O. BOX 128
COVE CITY, NORTH CAROLINA 28523

COASTAL REGIONAL SOLID WASTE MANAGEMENT AUTHORITY
TUSCARORA LANDFILL
PERMIT NUMBERS 25-04 & 25-09

SECOND SEMIANNUAL WATER QUALITY MONITORING REPORT OF 2014

FEBRUARY 2015

***PREPARED BY*:**

2211 WEST MEADOWVIEW ROAD, SUITE 101
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JOYCE PROJECT NO. 00618.1501.12.01

Second Semiannual Water Quality Monitoring Report of 2014
Coastal Regional Solid Waste Management Authority Tuscarora Landfill
Craven County, North Carolina

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Second Semiannual Water Quality Monitoring Report of 2014
Coastal Regional Solid Waste Management Authority Tuscarora Landfill
Craven County, North Carolina

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1.0 INTRODUCTION

1.1 Site Information

The Tuscarora Landfill is owned and operated by the Coastal Regional Solid Waste Management Authority (CRSWMA) and is currently operating under North Carolina Solid Waste Permit Nos. 25-04 and 25-09. The landfill is located off of Old Highway 70, near the town of New Bern in northwestern Craven County, North Carolina. The property boundary is indicated on an excerpt from the 7.5 minute USGS topographic map for Jasper, North Carolina (Figure No. 1).

The Tuscarora Landfill includes four contiguous waste cells; the closed Tuscarora Interim Regional Landfill (Permit 25-04-MSWLF-1993) and Phases 1, 2, and 3 of the Tuscarora Long-Term Regional Landfill (Permit 25-09-MSWLF-1999). The Interim Regional Landfill (IRL) was constructed in accordance with the Federal Subtitle D regulations with a composite liner and leachate collection and removal system. The IRL began receiving waste in 1993, and stopped receiving waste by November 1999. The Tuscarora Long-Term Regional (LTR) Landfill (LTR) is constructed in accordance with Subtitle D requirements, beginning with Phase 1, which was constructed and began receiving waste in November 1999 and stopped receiving waste in 2005. Phase 2 was constructed in 2005 and was active from 2005 until June 2013. Phase 3 is the current, active cell and began receiving waste on June 20, 2013. The Permit to Operate Phase 3 was approved by NC DENR Solid Waste Section on June 6, 2013. The current waste footprint comprises approximately 79 acres of the 101 acres approved in the permit.

1.2 Site Geology

The Tuscarora Landfill is located in the Coastal Plain physiographic province. The Coastal Plain consists of a wedge of continental and marine sediments that are Cretaceous, Tertiary, and Quaternary in age. These sediments are approximately 1,500 feet thick in the area of the Tuscarora Landfill according to the North Carolina State Geologic Map (Brown, 1985). Surface water is directed through a network of constructed drainage ditches to the north-northeast towards Jumping Run, a tributary of Bachelor Creek. Shallow groundwater flow is to the east-southeast towards Beaverdam Branch, which is another tributary of Bachelor Creek located approximately 2.25 miles away. Bachelor Creek flows to the east to its confluence with the Neuse River.

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

1.3 Regulatory Status

The Tuscarora Landfill groundwater monitoring is completed in accordance with North Carolina Solid Waste Management Regulations (NCSWMR) § 1633 (Detection Monitoring Program). Statistical analyses of the laboratory data has been prepared in accordance with the required compliance demonstration Rule .1632(g), (h), and (i) of the NCSWMR.

2.0 FACILITY MONITORING PROGRAMS

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

2.1 Tuscarora Interim Regional Landfill Monitoring Program

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

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

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

2.2 Tuscarora Long-Term Regional Landfill Monitoring Program

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

The groundwater monitoring network at the Tuscarora Long-Term Regional (LTR) Landfill area consists of two up-gradient/background wells (MW-12S and MW-12D) and eighteen down-gradient wells (MW-7, MW-8, MW-10, MW-11S, MW-11D, MW-13S, MW-13D, MW-14, MW-15S, MW-15D, MW-16S, MW-16D, MW-17S, MW-17D, MW-18S, MW-18D, MW-19S, and MW-19D). Well MW-9, which was previously monitored, was abandoned on July 15, 2004 to accommodate construction of Phase 2 of the Long-Term Regional Landfill. Well MW-14 was damaged by equipment in 2006 and was replaced by MW-14R prior to the April 2007 sampling event. The shallow and deep aquifer monitoring well pairs numbered MW-15S & MW-15D through MW-19S & MW-19D were installed as part of the hydrogeological investigation for Phase 3 in the summer of 2009. The individual wells in the LTR landfill are listed in the table below.

	Monitoring Well	Date Installed	Classification	Monitoring Program	Total Depth from TOC (ft.)	Lithology of Screened Interval
Phase 1	*MW-7*	7/15/99	Compliance	Detection	17.89	Shallow Aquifer / Sediment
	MW-8	7/15/99	Compliance	Detection	15.14	Shallow Aquifer / Sediment
	MW-9	7/15/99	Abandoned	-	-	-
	MW-10	7/15/99	Compliance	Detection	16.92	Shallow Aquifer / Sediment
	MW-11S	7/15/99	Compliance	Detection	12.07	Shallow Aquifer / Sediment
	MW-11D	7/15/99	Compliance	Detection	36.85	Deep Aquifer / Sediment
Phase 2	*MW-12S*	4/09/02	Background	Detection	18.02	Shallow Aquifer / Sediment
	MW-12D	4/09/02	Background	Detection	38.00	Deep Aquifer / Sediment
	MW-13S	4/21/03	Compliance	Detection	17.48	Shallow Aquifer/ Sediment
	MW-13D	4/23/03	Compliance	Detection	42.29	Deep Aquifer / Sediment
	MW-14	4/18/03	Abandoned	-	-	-
	MW-14R	10/04/07	Compliance	Detection	16.85	Shallow Aquifer / Sediment
Phase 3	*MW-15S*	6/22/09	Compliance	Detection	15.00	Shallow Aquifer / Sediment
	MW-15D	6/23/09	Compliance	Detection	38.00	Deep Aquifer / Sediment
	MW-16S	8/10/09	Compliance	Detection	12.00	Shallow Aquifer / Sediment
	MW-16D	6/24/09	Compliance	Detection	35.00	Deep Aquifer / Sediment
	MW-17S	6/30/09	Compliance	Detection	13.00	Shallow Aquifer / Sediment
	MW-17D	6/30/09	Compliance	Detection	38.00	Deep Aquifer / Sediment
	MW-18S	7/01/09	Compliance	Detection	11.00	Shallow Aquifer / Sediment
	MW-18D	7/01/09	Compliance	Detection	35.00	Deep Aquifer / Sediment
	MW-19S	7/01/09	Compliance	Detection	10.00	Shallow Aquifer / Sediment
	MW-19D	7/01/09	Compliance	Detection	25.00	Deep Aquifer / Sediment

2.3 Leachate Storage Lagoon Area Monitoring Program

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

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

Monitoring Well	Date Installed	Classification	Monitoring Program	Total Depth from TOC (ft.)	Lithology of Screened Interval
LST-1S	6/24/93	Compliance	Detection	15.83	Shallow Aquifer / Sediment
LST-1D	6/24/93	Compliance	Detection	36.01	Deep Aquifer / Sediment
LST-2S	6/24/93	Compliance	Detection	14.74	Shallow Aquifer / Sediment
LST-2D	6/24/93	Observation	Water Level	33.96	Deep Aquifer / Sediment
LST-3S	6/25/93	Compliance	Detection	18.34	Shallow Aquifer / Sediment
LST-3D	6/24/93	Observation	Water Level	35.57	Deep Aquifer / Sediment
LST-4S	6/25/93	Compliance	Detection	18.18	Shallow Aquifer / Sediment
LST-4D	6/24/93	Observation	Water Level	36.39	Deep Aquifer / Sediment
LST-5S	6/28/93	Background	Detection	16.75	Shallow Aquifer / Sediment
LST-5D	6/28/93	Compliance	Detection	39.04	Deep Aquifer / Sediment
LST-6S	6/28/93	Compliance	Detection	17.25	Shallow Aquifer / Sediment
LST-6D	9/28/93	Observation	Water Level	35.17	Deep Aquifer / Sediment

2.4 Surface Water Monitoring Program

Surface water monitoring at the Tuscarora Landfill is completed in accordance with NCSWMR and the approved Groundwater Monitoring Plan for the facility. Surface water 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) a downstream surface water monitoring points (SWPT-2), and two underdrain outlets (UD-1, and UD-2).

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

2.5 Leachate Monitoring Program

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

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

3.0 SECOND SEMIANNUAL SAMPLING EVENT OF 2014

3.1 Field Work

On October 21-23, 2014, personnel from Environment 1, Incorporated visited the facility to obtain depth-to-water measurements to the nearest 0.01 foot, purge, and sample monitoring wells at the closed Tuscarora Interim Regional Landfill, Tuscarora Long-Term Regional Landfill, and Leachate Storage Lagoon areas. Four surface water monitoring points and one leachate monitoring point were also sampled during the October 21-23, 2014 event. In addition, for monitoring wells not part of the compliance network, depth-to-water measurements were also obtained to the nearest 0.01 foot using an electronic water level indicator on October 22, 2014.

Monitoring wells were purged and sampled using decontaminated re-usable Teflon bailers during the October 2014 sampling event. Measurements of temperature, pH, specific conductivity, and turbidity were recorded prior to purging, after each purge volume, and during sampling. Prior to sampling, laboratory-supplied containers were prepared with the following information:

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

During the October 2014 sampling event, groundwater samples from each monitoring well were collected directly from the bailers in the provided laboratory containers either immediately after purging or within 24 hours of the final purge volume. Immediately after collection, the samples were placed in a laboratory provided cooler and chilled on ice.

Surface water samples were collected directly from stream flow by lowering the prepared sample containers into the stream. Care was taken to not overflow the sample containers (which could lead to preservative loss) and to avoid sample-induced turbidity. At the time of sampling,

surface water was also measured for temperature, pH, specific conductivity, and turbidity. After sample collection, the samples were placed in a laboratory provided cooler and chilled on ice.

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

3.2 Laboratory Analysis and JOYCE Quality Control

Groundwater, surface water, and leachate samples were submitted to Environment 1, Incorporated of Greenville, North Carolina under chain-of-custody control for analysis. As discussed earlier, the groundwater, surface water, and leachate samples were analyzed for North Carolina Appendix I constituents. Joyce Engineering (JOYCE) requested a Level II data report. The samples were received by the laboratory on October 21-23, 2014 in good condition, properly preserved, and within analysis hold times.

In addition to samples collected for compliance monitoring at the CRSWMA Landfills, an Equipment Blank was collected by Environment 1, Inc. personnel as part of the October 21-23, 2014 sampling event. Also, a Trip Blank was prepared by the laboratory to accompany the volatile sampling containers during shipment. The Equipment Blank was analyzed for North Carolina Appendix I constituents while the Trip Blank was analyzed for North Carolina Appendix I volatile organics only.

Upon receipt of laboratory data packages, the data were reviewed by JOYCE personnel for the following:

- General typographical errors;
- Correct analyses performed and within method specified hold times;
- Biased data results based on Surrogate Recoveries, Matrix Spike, Matrix Spike Duplicate, and Laboratory Control Samples;
- Blank qualified data (B-flags);
- Detections above the North Carolina Solid Waste Section Limits (SWSLs), groundwater standards, or surface water standards; and
- Detections that are above historical levels.

The laboratory data packages for the October 21-23, 2014, sampling events are included in Appendix A of this report, and the results are summarized in the detection and historical tables (Tables 5 – 14) for the CRSWMA Tuscarora Regional Landfill.

4.0 HYDROGEOLOGICAL CONDITIONS

Depth to groundwater was measured in the compliance monitoring wells prior to sampling. The groundwater elevation at each well was calculated relative to the surveyed measuring point (top of casing) for each monitoring well. Tables 1-3 summarize the groundwater elevations. In

general, groundwater elevations for the shallow aquifer are similar to previous events. Groundwater elevations for the deep aquifer have been influenced by borrow area pumping.

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

Groundwater elevation contours for the shallow and deep aquifers are shown on Drawings 1 and 2, and were interpreted from the October 2014 water level measurements. Groundwater at the site flows predominantly to the east-southeast for the shallow aquifer. Groundwater in the deep aquifer usually flows primarily to the northwest due to pumping in the borrow area excavations, creating a cone of depression. However, beginning September 1, 2014, pumping in the borrow area excavations stopped, allowing the deep aquifer to revert to a more gradual potentiometric surface and lower velocity for the groundwater. The hydrogeological conditions will continue to be monitored and reported semiannually.

Horizontal groundwater gradients were estimated based on October 2014 groundwater levels. The groundwater contours and the groundwater flow lines were used to calculate hydraulic gradients for the site. The horizontal gradients were estimated to range from 0.0027 to 0.0042 ft/ft (Table 4) for the shallow aquifer and 0.0069 to 0.0115 ft/ft (Table 5) for the deep aquifer. The gradients reported for this event generally reflect the shallow depth to the uppermost aquifer underlying the site, the flat topography of the site, and wet storm water drainage ditches and basins located within the site, as well as the borrow pit area was not actively pumping.

Linear groundwater flow velocities were computed using the following modified Darcy equation:

$$V = Ki/n$$

where V = average linear velocity (feet per day – ft/day), K = hydraulic conductivity (ft/day), i = horizontal hydraulic gradient, and n = effective porosity. The hydraulic conductivity used to calculate flow velocities was based on the geometric mean of hydraulic conductivities derived from slug tests for the shallow and deep aquifers. The gradient and flow velocity calculations are included in Tables 4 and 5.

The calculated linear groundwater flow velocities range from 0.009 to 0.014 ft/day (Table 4) for the shallow aquifer range and 0.149 to 0.249 ft/day (Table 5) for the deep aquifer. The linear velocity equation is based on the simplified assumption of a homogeneous and isotropic aquifer.

5.0 DATA ANALYSIS AND STATISTICAL RESULTS

The data from the laboratory analysis of the October 21-23, 2014 sampling event were received on December 18, 2014, from Environment 1, Inc. and are found in Appendix A of this report. Groundwater data are compared to the relevant North Carolina water quality standard found in 15A NCAC 2L.0202 (NC 2L) or Solid Waste Section Groundwater Protection Standards (GWPS) for NCSWMR Appendix I listed constituents. For inorganic constituents, statistical

background data is determined in accordance with the procedures outlined in NCSWMR Title 15A NCAC 13B.1632 (g), (h) and (i). The statistical worksheets are found in Appendix B of this report.

5.1 Analytical Results and Comparisons to Standards

5.1.1 Tuscarora Interim Regional Landfill

The following inorganic constituents were detected at quantified concentrations during the October 2014 sampling event for the Tuscarora Interim Regional Landfill in one or more compliance monitoring wells.

Constituent	NC2L/ (GWPS)	Background		Down-gradient						Blanks
		IRL-1S	IRL-1D	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	MW-A	
Barium	700	187	38.2 J	51.8 J	46.5 J	82.8 J	42.2 J	117	44.2	ND
Zinc	1000	3.8 J	6.4 J	6.2 J	2.0 J	7.8 J	3.6 J	93	2.8 J	ND

All concentrations are reported in micrograms per liter (µg/L). ND = Non-detect
J = Estimated concentration below SWSL. B = Blank-qualified detection.

The inorganic and organic analytical results from the October 2014 groundwater sampling event at the closed Tuscarora Interim Regional Landfill are summarized in Table 6 and field parameters are summarized on Table 7 of this report. The results, as reported by the laboratory, the laboratory quality assurance/quality control information, and the chains-of-custody are included in Appendix A. No quantified detections of inorganic or organic constituents were reported above the NC 2L or GWPS for the Interim Regional Landfill.

5.1.2 Tuscarora Long-Term Regional Landfill

The following inorganic constituents were detected at quantified concentrations during the October 2014 sampling event for the Tuscarora Long-Term Regional Landfill in one or more Phases 1-2 compliance monitoring wells.

Constituent	NC2L/ (GWPS)	Background		Down-gradient								Blanks
		MW-12S	MW-12D	MW-7	MW-8	MW-10	MW-11S	MW-11D	MW-13S	MW-13D	MW-14R	
Barium	700	35.9 J	39.0 J	36.6 J	124	60.6 J	28.5 J	42.3 J	85.6 J	40.4	73.0 J	ND
Zinc	1000	7.7 J	2.7 J	6.7 J	5.7 J	10	6.4 J	9.4 J	7.4 J	1.5 J	6.4 J	ND

All concentrations are reported in micrograms per liter (µg/L). ND = Non-detect
J = Estimated concentration below SWSL. B = Blank-qualified detection.

The following inorganic constituents were detected at quantified concentrations during the October 2014 sampling event for the Tuscarora Long-Term Regional Landfill in one or more Phase 3 compliance monitoring wells.

Constituent	NC2L/ (GWPS)	Down-gradient										Blanks
		MW-15S	MW-15D	MW-16S	MW-16D	MW-17S	MW-17D	MW-18S	MW-18D	MW-19S	MW-19D	
Barium	700	98.8 J	33.0 J	36.2 J	76.4 J	138	32.5 J	17.1 J	35.3 J	36.2 J	29.9 J	ND
Beryllium	(4)	**5**	ND	**7**	0.05 J	4	0.05 J	**7**	0.13 J	0.08 J	0.21 J	ND

Table continues on next page

Cadmium	2	0.35 J	0.06 J	**3**	0.07 J	0.39J	0.06 J	1	0.05 J	0.09 J	0.10J	ND
Cobalt	(1)	**27**	0.20 J	2.2 J	0.19 J	3.9 J	0.29 J	8.2 J	0.23 J	0.28 J	0.70 J	ND
Zinc	1000	41	4.6 J	17	2.6 J	14	3.1 J	30	3.5 J	2.9 J	14	ND

All concentrations are reported in micrograms per liter (µg/L). ND = Non-detect
J = Estimated concentration below SWSL. B = Blank-qualified detection.
Bold = result above the NC 2L or GWPS level

The inorganic and organic analytical results from the October 2014 groundwater sampling event at the Tuscarora Long-Term Regional Landfill are summarized in Table 8A for Phase 1 and Phase 2 monitoring wells and in Table 8B for Phase 3 monitoring wells. The field parameters are summarized in Tables 9A and 9B. The results as reported by the laboratory, the laboratory quality assurance/quality control information, and the chains-of-custody are included in Appendix A. See Sections 5.2 and 5.3 of this report for discussion of the statistical background for beryllium, cadmium, and cobalt.

5.1.3 Leachate Storage Lagoon Area

The following inorganic constituent was detected at a quantified concentration during the October 2014 sampling event for the Leachate Storage Lagoon Area in one or more compliance monitoring wells.

Constituent	**NC2L/ (GWPS)**	**Background**	**Down-gradient**							**Blanks**
		LST-5S	**LST-1S**	**LST-1D**	**LST-2S**	**LST-3S**	**LST-4S**	**LST-5D**	**LST-6S**	
Zinc	1,000	12	3.8 J	3.9 J	5.1 J	19	15	6.2 J	8.5 J	ND

All concentrations are reported in micrograms per liter (µg/L). --- = Data not available.
J = Estimated concentration below SWSL. B = Blank-qualified detection.

The inorganic and organic analytical results from the October 2014 sampling event at the Leachate Storage Lagoon Area are summarized in Table 10 and field parameters are summarized in Table 11 of this report. The results as reported by the laboratory, the laboratory quality assurance/quality control information, and the chains-of-custody are included in the Appendix A of this report. Quantified detections of zinc were reported, but well below NC 2L Standard. There were no other quantified detections of inorganic or organic constituents during the October 2014 sampling event for the Leachate Storage monitoring area.

5.1.4 Surface Water

The only quantified detection for the surface water monitoring locations during the October 2014 sampling event was zinc at 56ug/L from SWPT-1. The concentration of zinc was above the NC 2B Surface Water Standard; however, SWPT-1 is the upstream sampling location, and zinc was only detected in much lower, estimated concentrations from the compliance sampling locations. The complete inorganic and organic surface water analytical results from the October 22, 2014 sampling events at the CRSWMA landfills are summarized in Table 12 with the field parameters summarized in Table 13. The complete results as reported by the laboratory, the laboratory quality assurance/quality control information, and the chains-of-custody are included in the Appendix A of this report.

5.1.5 Leachate

The following constituents were detected at quantified concentrations in the leachate during the October 2014 sampling event.

Constituent	Leachate	Blanks
Arsenic	63	ND
Barium	1189	ND
Cadmium	7	ND
Cobalt	13	ND
Chromium	35	ND
Nickel	71	ND
Selenium	66	ND
Benzene	2.60	ND
Styrene	5.50	ND
1,4-Dichlorobenzene	7.50	ND
Ethylbenzene	41.20	ND
Toluene	14.80	ND
Xylenes	22.40	ND

All concentrations are reported in micrograms per liter (µg/L). ND = Non-detect
J = Estimated concentration below SWSL. B = Blank-qualified detection.

The leachate analytical results from the October 2014 sampling event at the CRSWMA landfills are summarized in Table 14 of this report. The complete results as reported by the laboratory, the laboratory quality assurance/quality control information, and the chains-of-custody are included in Appendix A of this report.

5.2 Statistical Methods

The data were evaluated in accordance with the procedures outlined in NCSWMR Title 15A NCAC 13B.1632.g-h, through the use of the Shapiro-Wilk Test, Parametric Prediction Limits, Parametric Tolerance Intervals, Aitchison's Adjustment, Non-parametric Prediction Limits, and Poisson Prediction Limits, as appropriate. Background data, tests for normality, outliers, Aitchison's adjustment, tolerance interval, or prediction limits are used, as appropriate, based on the background data.

The statistical test by which down-gradient 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. Statistical background values were calculated using a data pool of historical results from pre-waste background monitoring events and from up-gradient wells during successive semiannual monitoring events.

5.3 Statistical Results

Background concentrations for inorganic constituents are determined using statistical procedures as discussed in Section 5.2. Beryllium, cadmium, and cobalt were the inorganic constituents

detected in down-gradient monitoring wells above NC 2L or GWPS levels requiring statistical analysis. The statistical background for beryllium was calculated at 25 ug/L using the Non-parametric Prediction Interval. The statistical background for cadmium was calculated at 5 ug/L, also using the Non-Parametric Prediction Interval. Finally, the statistical background for cobalt was calculated at 258 ug/L using the Non-Parametric Prediction Interval. In accordance with rule .1634.g.5 of the NCSWMR, since the background is higher than the GWPS, the background can be considered the groundwater protection standard (GPS); therefore, the beryllium and cadmium detections in MW-16S, as well as beryllium detected in MW-18S and the cobalt and beryllium in MW-15S do not constitute GPS exceedences. The statistical worksheets and a summary table are presented in Appendix B of this report.

6.0 CONCLUSION

Analytical results reported detections of the inorganic constituents beryllium, cadmium, and cobalt above their respective NC 2L or GWPS; however, in accordance with rule .1634.g.5 of the NCSWMR, statistical analysis of background data for each of these constituents was used to determine background concentrations To be used as the site specific GPS. Beryllium was detected in MW-15S, MW-16S and MW-18S at concentrations below the GPS (background) during the October 2014 sampling event; therefore, these detections are not exceedences. Cadmium was also detected in MW-16S above the NC 2L listed concentration, but below the GPS. Finally Cobalt was detected in MW-15S above the GWPS, but below its statistically determined GPS.

Zinc was detected in surface water monitoring point SWPT-1 at a concentration above NC 2B Standards for surface water; however, SWPT-1 is the upstream monitoring location. Furthermore; results for zinc from the compliance monitoring points SWPT-2, UD-1 and UD-2 were low, non-quantified concentrations below the NC 2B Standard.

The results of the October 2014 monitoring event reflect a change in the deep aquifer hydrogeological conditions due to the cessation of pumping in the borrow area in September. This change in the groundwater flow regime is primarily visible in the deep aquifer. The cone of depression from the pumping operation has been relieved, affecting the potentiometric surface contours as well as the direction and rate of groundwater flow. The hydrological conditions will continue to be monitored on a semiannual basis.

Based on the results presented herein, the CRSWMA Tuscarora Landfill shall remain in the Detection Monitoring Program as outlined in Title 15A NCAC 13B .1633. The next semiannual monitoring event is tentatively scheduled for April 2015.

7.0 REFERENCES

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TABLE 1

SUMMARY OF GROUNDWATER ELEVATIONS
C.R.S.W.M.A. TUSCARORA INTERIM REGIONAL LANDFILL

Well No.	Background		Downgradient										
	IRL-1S	IRL-1D	IRL-2SA	IRL-2DA	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	IRL-5D	MW-A	MW-B	PZ-Z
Well TOC Elev.	50.56	50.19	51.37	51.58	49.02	48.93	48.34	48.35	48.78	48.66	46.04	48.90	49.52
Well Depth	17.73	45.20	17.68	30.95	16.40	39.22	14.99	34.64	14.62	35.42	20.40	14.90	32.35
Jul-93	46.57	36.02	NI	NI	38.68	34.26	43.13	34.24	40.19	34.73	NI	NI	NI
Aug-93	44.94	35.46	NI	NI	38.57	33.68	42.02	33.54	39.58	34.13	NI	NI	NI
Sep-93	44.29	34.70	NI	NI	38.42	32.97	41.77	33.01	39.50	33.39	NI	NI	NI
Sep-93	45.07	34.42	NI	NI	38.85	32.58	41.33	32.69	39.51	33.07	NI	NI	NI
Apr-94	45.55	38.93	NI	NI	37.74	37.27	39.48	37.33	37.95	37.79	NI	NI	NI
Oct-94	44.90	35.97	NI	NI	37.84	34.38	38.54	34.39	37.52	34.86	NI	NI	NI
Apr-95	45.50	38.73	NI	NI	38.02	37.15	38.82	37.16	37.56	37.60	NI	NI	NI
Oct-95	45.12	35.41	NI	NI	37.11	34.06	38.79	34.05	37.41	34.44	NI	NI	NI
Apr-96	46.60	40.25	NI	NI	38.98	38.82	38.58	38.83	37.51	39.28	NI	NI	NI
Oct-96	46.12	NS	NI	NI	37.88	39.01	38.52	39.06	37.29	NS	NI	NI	NI
Dec-96	47.26	40.19	NI	NI	38.12	38.73	37.94	38.85	37.28	39.26	NI	NI	NI
Apr-97	45.35	NS	NI	NI	37.71	37.50	38.82	37.54	37.30	NS	NI	NI	NI
Mar-97	46.65	40.46	NI	NI	37.67	39.00	38.70	39.03	37.40	39.48	NI	NI	NI
Oct-97	43.40	NS	NI	NI	37.68	NS	38.18	32.92	37.04	NS	NI	NI	NI
Apr-98	46.18	NS	NI	NI	38.05	38.57	38.51	38.62	37.52	NS	NI	NI	NI
Oct-98	44.11	36.69	NI	NI	37.52	35.32	37.78	35.38	37.23	35.79	NI	NI	NI
Mar-99	46.10	NS	NI	NI	38.35	37.95	38.35	37.99	38.18	38.39	NI	NI	NI
Jul-99	43.89	36.25	NI	NI	38.31	35.06	39.37	35.10	38.92	35.47	NI	NI	NI
Aug-99	43.27	34.79	NI	NI	38.18	33.34	39.37	33.41	38.96	33.75	NI	NI	NI
Oct-99	47.38	40.16	NI	NI	41.56	38.75	40.85	38.80	40.21	39.20	NI	NI	NI
Nov-99	45.52	39.56	NI	NI	38.70	38.16	39.21	38.23	39.29	38.65	NI	NI	NI
Apr-00	45.71	39.77	NI	NI	39.54	38.35	39.61	38.45	39.34	38.84	NI	NI	NI
Oct-00	44.52	38.90	NI	NI	39.76	37.43	39.46	37.52	39.45	37.94	NI	NI	NI
Apr-01	46.00	39.96	43.70	40.19	40.15	38.62	40.11	38.69	39.59	39.06	40.98	39.55	40.93
Oct-01	43.36	36.31	39.92	37.28	38.61	35.03	38.97	35.08	39.89	35.46	38.76	38.65	38.56
Apr-02	44.88	38.85	41.38	39.20	39.02	37.53	39.66	37.60	39.42	37.99	39.69	40.16	41.43
Oct-02	44.93	34.93	40.97	35.38	39.22	33.76	40.23	33.87	39.79	34.21	39.78	39.35	37.70
Apr-03	46.28	40.03	44.11	40.35	39.75	38.65	42.03	38.73	40.62	39.16	40.41	40.94	40.63
Oct-03	46.72	40.36	44.43	40.67	40.21	38.97	41.68	39.03	40.83	39.46	40.93	40.80	41.70
15-Apr-04	47.23	39.69	44.93	40.05	40.72	38.33	41.40	38.44	40.54	38.83	40.94	40.80	41.25
14-Oct-04	44.14	39.23	42.05	38.60	40.21	37.88	40.27	37.96	40.10	38.41	39.98	39.50	40.74
05-Apr-05	44.81	NS	NS	40.33	40.21	38.56	40.13	38.66	39.92	39.12	37.79	NS	41.27
27-Oct-05	46.74	NS	NS	41.01	40.88	39.18	41.16	39.31	40.44	39.70	40.67	NS	42.03
21-Apr-06	44.90	39.71	NS	39.89	40.41	38.23	40.31	38.35	40.07	38.77	40.15	NS	41.10
12-Oct-06	45.45	39.71	NS	40.00	39.80	38.28	40.86	38.37	40.18	38.79	40.58	NS	41.01
26-Apr-07	45.01	39.44	NS	39.85	39.85	38.13	40.32	38.22	40.08	38.66	40.29	NS	40.80
10-Oct-07	40.44	33.90	NS	34.20	39.19	32.54	39.06	32.65	39.05	33.02	38.21	NS	36.30
02-Apr-08	45.39	38.21	NS	38.64	40.08	37.08	39.79	37.17	39.54	37.49	40.03	NS	38.67
28-Oct-08	42.22	35.12	NS	36.03	40.24	34.70	39.69	34.76	39.27	34.93	39.88	NS	38.53
08-Apr-09	45.28	35.45	43.56	36.66	40.40	35.60	42.62	35.63	40.29	35.65	40.46	40.70	39.67
27-Oct-09	42.34	31.89	39.37	33.38	40.19	32.41	39.09	32.40	38.96	32.30	39.24	39.12	37.48
08-Apr-10	45.27	34.66	44.07	36.19	40.32	35.28	40.83	35.31	40.48	35.16	40.65	39.46	39.64
13-Oct-10	45.69	33.64	43.89	35.23	40.03	34.56	39.80	34.53	39.73	34.30	40.39	40.72	38.42
27-Apr-11	44.45	32.47	42.66	34.28	39.34	33.53	40.22	33.51	39.98	33.24	40.07	40.48	38.40
20-Oct-11	44.95	32.49	42.13	34.23	39.37	33.44	39.64	34.16	39.55	33.21	40.15	39.71	38.19
16-Oct-12	44.55	32.59	42.63	34.44	39.69	33.93	39.72	33.91	39.70	33.52	39.94	40.10	39.30
11-Apr-13	45.06	31.67	44.17	33.58	39.72	33.15	40.14	33.08	39.76	32.68	40.38	39.18	37.78
30-Oct-13	42.95	30.20	42.37	32.16	39.86	31.42	39.44	31.38	39.41	31.07	40.18	39.32	36.88
09-Apr-14	46.28	32.45	45.24	34.58	40.78	34.08	41.30	34.01	41.08	33.56	41.10	40.55	39.08
22-Oct-14	44.92	39.22	44.07	39.53	40.25	37.77	40.33	37.84	40.11	38.33	40.74	38.97	40.76

NOTES:

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

TABLE 2

SUMMARY OF GROUNDWATER ELEVATIONS
C.R.S.W.M.A. TUSCARORA LONG-TERM REGIONAL LANDFILL

Well No.	Background		Down-gradient											Phase 3											
	MW-12S	MW-12D	MW-7	MW-7D	MW-8	MW-8D	MW-9	MW-10	MW-11S	MW-11D	MW-13S	MW-13D	MW-14R	MW-15S	MW-15D	MW-16SR	MW-16D	MW-17S	MW-17D	MW-18S	MW-18D	MW-19S	MW-19D	MW-20D	MW-21D
Well TOC Elev.	52.12	51.90	50.69	50.82	50.94	50.27	53.11	47.32	47.67	47.55	46.21	45.93	46.98	47.20	47.22	47.25	47.17	45.66	45.93	46.34	46.14	46.80	46.75	46.33	47.21
Well Depth	35.95	17.96	16.22	42.00	15.61	36.00	22.00	15.95	14.03	34.73	15.00	33.00	14.00	15.00	38.00	12.00	35.00	13.00	38.00	11.00	35.00	10.00	25.00	11.00	35.00
Jul-99	NI	NI	46.76	-	46.16	-	44.87	44.60	38.94	36.60	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Aug-99	NI	NI	45.10	-	44.41	-	44.76	43.13	39.19	34.87	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Oct-99	NI	NI	46.94	-	46.08	-	46.49	43.34	40.79	40.34	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Nov-99	NI	NI	46.19	-	44.13	-	44.75	42.34	38.85	39.71	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Apr-00	NI	NI	46.96	-	45.66	-	45.11	42.96	39.04	39.93	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Oct-00	NI	NI	45.79	-	43.94	-	45.59	42.30	38.74	39.05	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Apr-01	NI	NI	47.33	-	45.62	-	44.60	43.60	39.37	40.16	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Oct-01	NI	NI	44.81	-	42.99	-	43.26	41.57	38.92	35.41	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Apr-02	43.69	40.78	43.86	-	44.74	-	44.26	43.10	39.39	39.09	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Oct-02	45.15	36.77	45.18	-	44.19	-	43.91	41.28	39.49	35.26	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Apr-03	45.77	42.00	47.26	-	45.74	-	45.86	43.27	40.40	40.24	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Oct-03	46.32	42.32	47.98	-	46.34	-	46.33	42.64	41.67	40.44	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
15-Apr-04	46.79	41.70	47.78	-	46.47	-	46.40	43.40	41.57	38.78	43.27	38.93	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
14-Oct-04	45.16	41.09	46.69	-	45.04	-	-	43.09	40.29	39.53	41.28	38.41	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
05-Apr-05	44.54	41.89	47.05	-	44.88	-	-	43.29	40.28	40.18	43.29	39.19	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
27-Oct-05	45.51	42.62	47.16	-	46.12	-	-	42.63	41.93	40.81	44.51	39.82	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
21-Apr-06	45.43	41.59	47.12	-	46.02	-	-	43.53	40.37	39.89	43.17	38.82	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
12-Oct-06	45.70	41.72	47.20	-	46.27	-	-	43.05	40.85	39.87	44.03	38.79	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
26-Apr-07	45.52	41.49	47.06	-	45.66	-	-	43.34	41.06	39.74	43.01	38.59	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
11-Oct-07	42.18	35.60	43.67	-	43.94	-	-	41.35	39.98	34.08	41.19	33.02	39.25	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
03-Apr-08	44.74	39.14	45.99	-	45.68	-	-	42.42	38.85	38.47	44.00	37.32	42.10	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
28-Oct-08	44.67	35.23	44.56	-	45.67	-	-	41.58	38.95	35.90	44.07	34.59	42.13	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
08-Apr-09	45.31	33.90	46.77	-	45.98	-	-	42.67	39.69	36.40	43.17	34.92	41.94	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
27-Oct-09	43.96	29.37	43.45	-	44.89	-	-	40.72	38.59	33.16	42.66	31.48	41.32	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
08-Apr-10	45.17	31.48	46.57	-	45.94	-	-	42.74	40.28	36.00	43.01	34.27	41.67	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
13-Oct-10	45.16	29.72	45.69	-	45.76	-	-	41.11	39.74	35.02	43.33	33.29	41.54	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
27-Apr-11	44.73	29.09	45.77	-	45.63	-	-	42.17	39.76	34.01	42.99	32.18	41.30	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
20-Oct-11	44.86	29.42	44.98	-	45.99	-	-	41.12	39.94	33.96	43.31	32.13	43.65	41.20	30.31	40.04	31.76	39.33	32.70	40.99	32.80	39.61	32.78	26.07	27.21
26-Apr-12	44.18	29.11	45.46	-	45.49	-	-	41.80	40.17	34.05	43.32	31.68	42.33	40.86	30.53	39.64	32.00	39.27	33.04	39.62	33.08	37.08	33.08	26.15	19.89
16-Oct-12	43.81	29.59	45.18	31.47	45.39	31.00	-	41.51	39.87	34.21	42.77	32.26	42.17	41.02	31.22	39.58	32.88	39.34	34.02	39.91	33.93	38.22	33.82	26.46	27.61
11-Apr-13	44.16	28.14	45.94	30.08	45.70	29.84	-	41.90	40.13	33.43	43.41	31.28	42.37	40.97	29.88	39.82	31.84	39.33	33.08	39.54	33.02	39.06	33.01	25.11	27.05
30-Oct-13	43.86	27.48	45.16	29.20	45.23	28.71	-	40.78	39.82	31.83	42.95	29.93	42.18	40.90	29.11	39.35	30.75	39.24	31.83	39.64	31.59	38.34	31.45	24.39	25.51
09-Apr-14	44.92	25.27	47.01	31.12	46.14	31.27	-	42.93	40.84	34.22	43.98	32.03	44.08	41.82	30.42	40.80	32.53	40.62	34.08	41.60	34.24	41.36	34.69	25.70	26.96
22-Oct-14	44.47	40.90	45.74	39.05	45.05	39.33	-	42.06	40.33	39.41	43.11	38.35	43.54	41.03	39.71	39.60	39.56	39.84	39.15	41.41	38.84	40.89	38.54	36.33	37.07

NOTES:

1. All elevations are in feet above mean sea level.
2. NI = Well/Piezometer not installed.
3. NM = Not Measured.

TABLE 3

SUMMARY OF GROUNDWATER ELEVATIONS
C.R.S.W.M.A. TUSCARORA LF - LEACHATE STORAGE AREA

Well No.	Background	Downgradient										
	LST-5S	LST-1S	LST-1D	LST-2S	LST-2D	LST-3S	LST-3D	LST-4S	LST-4D	LST-5D	LST-6S	LST-6D
Well TOC Elev.	52.37	50.92	50.92	51.00	50.94	52.17	51.87	51.38	51.56	52.27	51.23	51.17
Well Depth	16.12	15.32	34.99	14.59	33.25	17.93	34.69	17.85	36.16	39.11	16.61	34.31
Jul-93	47.21	47.48	36.53	46.95	36.79	47.01	36.85	47.12	37.02	36.68	47.11	37.42
Aug-93	46.38	45.92	35.80	45.71	35.98	45.79	35.98	45.89	36.19	35.86	45.82	36.74
Sep-93	45.91	45.54	35.03	45.63	35.48	45.04	35.27	44.25	34.96	34.37	44.94	35.87
Sep-93	45.93	45.74	34.47	45.35	34.66	45.23	35.08	45.49	34.94	33.67	45.29	35.28
Apr-94	46.71	46.78	37.59	46.29	34.59	45.72	38.01	46.18	39.81	37.16	46.41	40.16
Oct-94	46.14	45.99	36.41	46.00	36.64	45.65	36.63	45.41	36.76	36.47	44.52	37.17
Apr-95	46.92	46.43	39.16	46.39	39.40	46.06	39.42	45.91	39.57	39.26	45.94	39.95
Oct-95	45.86	46.89	35.72	46.06	35.95	45.90	35.95	45.77	36.11	35.83	43.70	36.32
Apr-96	47.56	47.25	40.74	47.23	41.00	46.88	40.91	46.87	41.05	40.84	47.41	41.51
Oct-96	46.88	46.42	40.93	46.81	NS	46.38	NS	46.48	NS	41.05	48.06	NS
Dec-96	46.87	47.62	40.62	47.10	40.94	47.07	40.87	46.08	41.06	40.77	47.73	41.37
Apr-97	46.97	46.40	39.40	46.37	NS	46.05	NS	45.97	NS	39.51	45.89	NS
Mar-97	47.99	47.92	40.88	47.49	41.11	47.12	41.13	47.01	41.28	40.98	47.56	41.63
Oct-97	45.21	45.43	34.80	44.19	NS	45.03	NS	45.06	NS	34.83	44.09	NS
Apr-98	47.20	46.67	40.47	46.47	NS	46.54	NS	46.56	NS	40.54	46.30	41.63
Oct-98	44.65	43.89	37.00	44.10	37.19	44.44	37.22	44.42	37.35	37.06	42.24	37.57
Mar-99	46.50	45.92	39.73	46.00	39.95	46.54	40.00	46.73	40.11	39.81	45.88	40.45
Jul-99	45.86	45.34	37.48	45.37	36.64	45.53	36.75	45.33	36.80	36.55	41.58	36.96
Aug-99	44.90	45.07	34.78	45.30	34.95	45.29	35.05	45.12	35.11	34.84	40.70	35.26
Oct-99	46.97	46.37	40.52	46.86	40.76	47.97	40.85	47.96	40.94	40.62	46.35	41.24
Nov-99	45.85	45.44	39.94	45.51	40.18	46.35	40.20	45.22	40.38	40.06	44.58	40.62
Apr-00	46.87	45.97	40.09	46.04	40.35	46.50	40.42	46.39	40.56	40.27	45.59	40.82
Oct-00	45.34	44.92	39.27	45.10	39.50	45.38	39.54	45.28	39.71	40.37	43.57	39.98
Apr-01	46.85	46.11	40.30	46.14	40.49	46.37	40.56	46.27	40.65	40.39	44.93	40.95
Oct-01	45.22	44.58	36.62	44.79	36.76	44.92	36.87	44.82	36.90	36.72	42.23	37.22
Apr-02	46.47	45.97	39.22	45.98	39.43	46.07	39.51	45.93	39.64	39.29	44.25	39.93
Oct-02	45.97	45.61	35.22	45.57	35.39	45.72	35.44	45.39	35.56	35.27	42.22	35.85
Apr-03	47.04	46.33	40.39	46.37	40.61	46.61	40.68	46.66	40.80	40.51	45.38	41.11
Oct-03	47.21	46.52	40.71	46.76	40.95	46.99	41.02	47.18	41.15	40.83	45.78	41.42
15-Apr-04	47.38	46.62	40.08	46.82	40.30	47.38	40.35	47.75	40.52	40.17	45.91	40.78
14-Oct-04	46.37	45.72	39.58	44.82	39.76	45.76	39.87	45.68	39.95	39.67	44.48	40.22
05-Apr-05	46.35	46.02	40.37	46.03	40.56	46.17	40.60	46.00	40.73	40.45	44.99	40.99
27-Oct-05	46.86	42.38	41.01	46.39	41.23	46.99	41.18	47.50	41.05	41.10	45.55	41.75
21-Apr-06	46.41	46.05	40.07	45.98	40.27	46.05	40.33	45.93	40.41	40.24	44.56	40.75
12-Oct-06	46.92	46.51	40.11	46.38	40.36	46.49	40.43	46.40	40.58	40.24	44.95	40.88
26-Apr-07	46.52	46.05	39.67	45.99	39.78	46.17	40.07	46.03	40.29	39.76	44.93	40.59
10-Oct-07	43.46	43.34	34.12	42.53	34.24	41.99	34.31	41.81	34.44	34.15	41.90	34.70
03-Apr-08	46.54	46.17	38.12	46.00	38.20	46.42	38.31	46.28	38.42	38.23	44.77	38.48
28-Oct-08	45.96	45.99	34.75	45.66	34.71	45.28	34.85	45.13	34.87	34.83	43.99	34.58
08-Apr-09	45.47	46.27	34.56	46.07	34.43	46.40	34.87	46.26	34.66	34.84	44.75	33.79
27-Oct-09	45.15	45.05	30.72	44.55	30.42	44.66	30.85	44.54	30.51	30.94	43.37	29.33
08-Apr-10	46.69	46.00	33.15	45.95	32.79	46.16	33.35	46.09	32.99	33.47	44.77	31.42
13-Oct-10	46.63	45.99	31.83	45.99	31.43	46.41	32.01	46.41	31.58	32.26	44.42	29.69
27-Apr-11	46.27	45.75	30.80	45.72	30.48	45.63	30.99	45.53	30.62	31.17	44.28	28.87
20-Oct-11	46.25	46.25	30.89	46.07	30.59	46.07	31.14	46.18	30.76	31.70	44.89	29.23
26-Apr-12	46.03	45.76	30.36	45.65	30.10	45.72	30.55	45.69	30.31	30.76	44.51	28.72
16-Oct-12	46.05	45.65	30.73	45.53	30.40	45.71	31.02	45.66	30.56	31.15	44.90	28.87
11-Apr-13	46.36	46.20	29.65	45.89	29.37	45.79	30.11	45.62	29.45	30.13	44.79	27.96
30-Oct-13	45.53	45.68	28.53	45.48	28.23	44.96	28.77	44.75	28.42	28.85	44.13	26.94
09-Apr-14	48.32	46.52	30.30	46.41	29.94	46.86	30.65	46.97	30.14	30.73	45.32	28.26
22-Oct-14	47.17	46.11	39.43	45.99	39.57	46.04	39.86	45.98	39.77	39.55	44.51	39.94

NOTES:

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

TABLE 4

ESTIMATED HYDRAULIC GRADIENTS AND AVERAGE LINEAR VELOCITIES FOR THE SHALLOW AQUIFER

			OCTOBER 22, 2014				
GRADIENT CALCULATION SEGMENT	FLOW LINE LENGTH (feet)	FLOW DIRECTION	GROUND-WATER ELEV. (feet)	HORIZ. GRADIENT, i (ft/ft)	HYDRAULIC CONDUCTIVITY, K (ft/day)	EFFECTIVE POROSITY n	LINEAR VELOCITY, V (ft/day)
i_1	2140	SE	47 40	0.0033	5.67E-01	0.17	0.011
i_2	1185	SE	45 40	0.0042	5.67E-01	0.17	0.014
i_3	1831	NE	45 40	0.0027	5.67E-01	0.17	0.009
			Average	0.0034		Average	0.011

Notes:

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

TABLE 5

ESTIMATED HYDRAULIC GRADIENTS AND AVERAGE LINEAR VELOCITIES FOR THE DEEP AQUIFER

			OCTOBER 22, 2014				
GRADIENT CALCULATION SEGMENT	FLOW LINE LENGTH (feet)	FLOW DIRECTION	GROUND-WATER ELEV. (feet)	HORIZ. GRADIENT, i (ft/ft)	HYDRAULIC CONDUCTIVITY, K (ft/day)	EFFECTIVE POROSITY n	LINEAR VELOCITY, V (ft/day)
i_4	145	SW	39.0 38.0	0.0069	5.39E+00	0.25	0.149
i_5	260	SE	40.0 37.0	0.0115	5.39E+00	0.25	0.249
			Average	0.0077		Average	0.166

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

HISTORICAL DETECTIONS in GROUNDWATER
C.R.S.W.M.A. TUSCARORA INTERIM REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	IRL-1S	IRL-1D	IRL-2S	IRL-2SA	IRL-2D	IRL-2DA	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	IRL-5D	IRL-6S	IRL-6D	MW-A	MW-B	Blanks
Inorganic Compounds																				
Antimony	10-Oct-07	0.05	6.0	0.1 B	0.1 B	---	---	---	---	0.10 B	0.50 B	0.10 B	0.10 B	0.10 B	---	---	---	0.10 B	---	0.10 J
GWPS = 1.4 µg/L (10/23/07)	2-Apr-08	0.08	6.0	0.5 B	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	0.10 J
	28-Oct-08	0.08	6.0	0.1 J	0.1 J	---	---	---	---	0.50 J	0.10 J	ND	0.10 J	0.10 J	---	---	---	ND	---	ND
	8-Apr-09	0.06	6.0	ND	ND	---	---	---	---	0.10 J	0.10 J	ND	ND	0.90 J	---	---	---	0.10 J	---	ND
	27-Oct-09	0.06	6.0	ND	0.7 J	---	---	---	---	0.20 J	0.10 J	ND	ND	ND	---	---	---	ND	---	ND
	8-Apr-10	0.22	6.0	1.0 B	0.9 B	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	0.70 J
GWPS = 1 µg/L (8/1/10)	13-Oct-10	0.22	6.0	ND	ND	---	---	---	---	0.50 J	ND	ND	ND	ND	---	---	---	ND	---	ND
	27-Apr-11	0.14	6.0	ND	ND	---	---	---	---	1.60 J	0.28 J	ND	ND	ND	---	---	---	ND	---	ND
	20-Oct-11	0.14	6.0	0.2 J	0.2 J	---	---	---	---	0.22 J	ND	ND	ND	ND	---	---	---	0.50 J	---	ND
	26-Apr-12	0.14	6.0	ND	ND	---	---	---	---	0.19 J	ND	ND	ND	ND	---	---	---	ND	---	ND
	16-Oct-12	0.02	6.0	ND	0.2 J	---	---	---	---	0.16 J	0.39 J	0.23 J	0.19 J	0.12 J	---	---	---	0.07 J	---	ND
	11-Apr-13	0.02	6.0	0.2 J	0.2 J	---	---	---	---	0.36 J	0.21 J	0.39 J	0.10 J	0.20 J	---	---	---	0.33 J	---	ND
	30-Oct-13	0.02	6.0	0.2 B	0.4 B	---	---	---	---	0.36 B	0.79 J	0.09 B	0.17 B	0.12 B	---	---	---	0.31 B	---	0.08 J
	9-Apr-14	0.02	6.0	0.2 J	1.2 J	---	---	---	---	0.78 J	0.21 J	0.18 J	0.12 J	0.16 J	---	---	---	0.11 J	---	ND
	22-Oct-14	0.12	6.0	ND	0.72 J	---	---	---	---	ND	ND	ND	0.36 J	ND	---	---	---	ND	---	ND
Arsenic	Jul-93	NR	5.0	11	8	ND	NI	ND	NI	ND	ND	ND	22	ND	34.0	11.0	ND	NI	NI	ND
	Aug-93	NR	5.0	6	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	6.0	ND	NI	NI	ND
	Sep-93	NR	5.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	6	ND	ND	ND	ND	NI	NI	ND
	Sep-93	NR	5.0	6	10	ND	NI	ND	NI	ND	ND	ND	168	ND	ND	ND	ND	NI	NI	ND
	Apr-94	NR	5.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	Oct-94	NR	10.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	Apr-95	NR	10.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	Oct-95	NR	10.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	Apr-96	NR	10.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	Oct-96	NR	10.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	Apr-97	NR	10.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	Oct-97	NR	10.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	Apr-98	NR	10.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	10	---	14.0	---	NI	NI	ND
	Oct-98	NR	10.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	Mar-99	NR	10.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	Oct-99	NR	10.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	Apr-00	NR	10.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	Oct-00	NR	10.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	Apr-01	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	ND
	Oct-01	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	ND
	Apr-02	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Oct-02	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Apr-03	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Oct-03	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	15-Apr-04	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	14-Oct-04	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	05-Apr-05	NR	10.0	ND	---	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	05-Oct-05	NR	10.0	ND	52	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	21-Apr-06	NR	10.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	12-Oct-06	NR	10.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	26-Apr-07	NR	10.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	10-Oct-07	0.5	10.0	3 J	ND	---	---	---	---	2.3 J	ND	1.6 J	0.7 J	1.2 J	---	---	---	2 J	---	ND
NC 2L = 50 µg/L (10/23/07)	02-Apr-08	0.1	10.0	0.8 J	0.8 J	---	---	---	---	0.4 J	0.4 J	1.7 J	0.4 J	2.2 J	---	---	---	1.2 J	---	ND
	28-Oct-08	0.1	10.0	1 B	1.6 B	---	---	---	---	1.7 B	1 B	2 B	0.5 B	4.3 J	---	---	---	5 J	---	0.5 J
	08-Apr-09	0.17	10.0	1.2 J	1.4 J	---	---	---	---	1.2 J	1.4 J	2.7 J	0.5 B	4.2 J	---	---	---	3.8 J	---	0.2 J
	27-Oct-09	0.17	10.0	2.1 J	1.8 J	---	---	---	---	1 J	1 J	1 J	1 J	5 J	---	---	---	4 J	---	ND
NC 2L = 10 µg/L (1/1/10)	08-Apr-10	0.04	10.0	1 J	0.9 J	---	---	---	---	2 J	ND	1 J	ND	2.8 J	---	---	---	3 J	---	ND
	13-Oct-10	0.04	10.0	ND	2.7 J	---	---	---	---	3 J	1 J	2 J	0.8 J	4.8 J	---	---	---	4 J	---	ND
	27-Apr-11	0.10	10.0	0.18 J	0.82 J	---	---	---	---	0.7 J	0.2 J	0.8 J	0.3 J	2.2 J	---	---	---	2.2 J	---	ND
	20-Oct-11	0.10	10.0	ND	1.4 J	---	---	---	---	1.5 J	ND	1.3 J	0.4 J	0.3 J	---	---	---	3.9 J	---	ND
	26-Apr-12	0.10	10.0	0.42 J	1.3 J	---	---	---	---	1.0 J	ND	1.3 J	0.3 J	2.7 J	---	---	---	2.0 J	---	ND
	16-Oct-12	0.13	10.0	0.45 J	1.6 J	---	---	---	---	2 J	0 J	2 J	0.4 J	2.5 J	---	---	---	3 J	---	ND
	11-Apr-13	0.05	10.0	0.82 J	0.85 J	---	---	---	---	1 J	0 B	1 J	0.3 B	2.5 J	---	---	---	2 J	---	0.15 J
	30-Oct-13	0.05	10.0	0.77 B	1.4 J	---	---	---	---	1 B	ND	2 J	0.1 B	3.6 J	---	---	---	5 J	---	0.2 J
	9-Apr-14	0.05	10.0	0.53 J	1.2 J	---	---	---	---	1 J	0.1 J	0.76 J	0.15 J	2.3 J	---	---	---	3.5 J	---	ND
	22-Oct-14	0.10	10.0	0.31 J	1.3 J	---	---	---	---	0.94 J	ND	2.0 J	ND	1.5 J	---	---	---	5.6 J	---	ND
Barium	1-Jul-93	NR	50.0	268	343	302	NI	188.0	NI	296	189	202	580.0	280.0	365.0	785.0	182.0	NI	NI	ND
	1-Aug-93	NR	50.0	122	252	109	NI	210	NI	248	110	110	125.0	294.0	116.0	96.0	54.0	NI	NI	ND
	1-Sep-93	NR	50.0	113	105	107	NI	125	NI	159	166	91	215.0	181.0	80.0	70.0	ND	NI	NI	ND
	1-Sep-93	NR	50.0	109	212	152	NI	204	NI	200	145	143	-	250.0	137.0	75.0	87.0	NI	NI	ND
	1-Apr-94	NR	50.0	73	131	97	NI	113	NI	83	86	103	65	309	73.0	ND	ND	NI	NI	ND
	1-Oct-94	NR	500.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Apr-95	NR	500.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-95	NR	500.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Apr-96	NR	500.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-96	NR	500.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Apr-97	NR	500.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	986	---	ND	---	NI	NI	ND
	1-Oct-97	NR	500.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	1084	---	ND	---	NI	NI	ND
	1-Apr-98	NR	500.0	ND	---	ND	NI	---	NI	ND	657	ND	515	971	---	ND	---	NI	NI	ND
	1-Oct-98	NR	500.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	898	---	---	---	NI	NI	ND
	1-Mar-99	NR	500.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Oct-99	NR	500.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Apr-00	NR	500.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Oct-00	NR	500.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	Apr-01	NR	500.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	ND
	Oct-01	NR	500.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	ND
	Apr-02	NR	500.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Oct-02	NR	500.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Apr-03	NR	500.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Oct-03	NR	500.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	15-Apr-04	NR	500.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	14-Oct-04	NR	500.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	5-Apr-05	NR	500.0	ND	---	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	5-Oct-05	NR	500.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	21-Apr-06	NR	500.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	12-Oct-06	NR	500.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	26-Apr-07	NR	100.0	ND	ND	---	---	---	---	ND	ND	113	ND	ND	---	---	---	ND	---	ND
	10-Oct-07	0.0	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
NC 2L = 2,000 µg/L (10/23/07)	2-Apr-08	0.1	100.0	72.9 J	33.4 J	---	---	---	---	74.7 J	64.2 J	140	40.2 J	69.5 J	---	---	---	33.8 J	---	ND
	28-Oct-08	0.1	100.0	94.9 J	39.6 J	---	---	---	---	91.7 J	95.9 J	149	39 J	116.0	---	---	---	44.2 J	---	0.7 J
	8-Apr-09	0.0	100.0	118	41.1 J	---	---	---	---	72.6 J	107	176	43.8 J	92.8 J	---	---	---	42.0 J	---	0.2 J
	27-Oct-09	0.0	100.0	113	42.9 J	---	---	---	---	58.4 J	92 J	176	46.9 J	120.0	---	---	---	29.6 J	---	0.1 J
NC 2L = 700 µg/L (1/1/10)	8-Apr-10	0.0	100.0	109	47.0 J	---	---	---	---	53.9 J	81.2 J	180	47.2 J	107.0	---	---	---	35.0 J	---	0.1 J
	13-Oct-10	0.0	100.0	131	53.4 J	---	---	---	---	59.9 J	68.8 J	140	44.9 J	114.0	---	---	---	37.7 J	---	0.2 J
	27-Apr-11	0.0	100.0	170	45.8 J	---	---	---	---	48.3 J	66.5 J	150	51.6 J	107.0	---	---	---	37.3 J	---	0.1 J
	20-Oct-11	0.02	100.0	112	37.2 J	---	---	---	---	46.5 J	54.7 J	117	39.4 J	103	---	---	---	30.2 J	---	0.1 J
	26-Apr-12	0.02	100.0	133	49.3 J	---	---	---	---	54.0 J	50.6 J	115.0	46.3 J	91.5 J	---	---	---	35.1 J	---	0.12 J
	16-Oct-12	0.07	100.0	139	42.5 J	---	---	---	---	48.1 J	53.5 J	78.0 J	34.5 J	95.9 J	---	---	---	35.6 J	---	0.28 J
	11-Apr-13	0.06	100.0	158	46.1 J	---	---	---	---	40.4 J	45.2 J	59.5 J	40.7 J	86.0 J	---	---	---	31.5 J	---	0.06 J
	30-Oct-13	0.06	100.0	166	39.7 J	---	---	---	---	43 J	41 J	91 J	43.9 J	94.4 J	---	---	---	39.5 J	---	0.24 J
	9-Apr-14	0.06	100.0	188	56.2 J	---	---	---	---	48.4 J	44.3 J	60.4 J	45.7 J	110	---	---	---	51.5 J	---	ND
	22-Oct-14	0.12	100.0	187	38.2 J	---	---	---	---	51.8 J	46.5 J	82.8 J	42.2 J	117	---	---	---	44.2 J	---	ND

TABLE 6

HISTORICAL DETECTIONS in GROUNDWATER
C.R.S.W.M.A. TUSCARORA INTERIM REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	IRL-1S	IRL-1D	IRL-2S	IRL-2SA	IRL-2D	IRL-2DA	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	IRL-5D	IRL-6S	IRL-6D	MW-A	MW-B	Blanks
Beryllium	1-Jul-93	NR	1.0	3	1	ND	NI	ND	NI	ND	ND	2	ND	ND	8.0	4.0	ND	NI	NI	ND
	1-Aug-93	NR	1.0	1	1	ND	NI	1.0	NI	ND	1.0	ND	1.0	ND	1.0	ND	ND	NI	NI	ND
	1-Sep-93	NR	1.0	1.0	ND	ND	NI	ND	NI	ND	ND	ND	3.0	ND	ND	ND	ND	NI	NI	ND
	1-Sep-93	NR	1.0	2	3	ND	NI	ND	NI	ND	2.0	ND	ND	ND	1.0	ND	ND	NI	NI	ND
	1-Apr-94	NR	1.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-94	NR	2.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Apr-95	NR	2.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-95	NR	2.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Apr-96	NR	2.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-96	NR	2.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Apr-97	NR	2.0	3	---	ND	NI	---	NI	ND	ND	ND	ND	3	---	ND	---	NI	NI	ND
	1-Oct-97	NR	2.0	3	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Apr-98	NR	2.0	ND	---	ND	NI	---	NI	ND	ND	ND	2.5	ND	---	2.0	---	NI	NI	ND
	1-Oct-98	NR	2.0	2	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Mar-99	NR	2.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Oct-99	NR	2.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Apr-00	NR	2.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Oct-00	NR	2.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	Apr-01	NR	2.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	ND
	Oct-01	NR	2.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	ND
	Apr-02	NR	2.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Oct-02	NR	2.0	ND	---	---	6	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Apr-03	NR	2.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Oct-03	NR	2.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	15-Apr-04	NR	2.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	14-Oct-04	NR	2.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	5-Apr-05	NR	2.0	ND	---	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	5-Oct-05	NR	2.0	ND	6.0	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	21-Apr-06	NR	2.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	12-Oct-06	NR	2.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	26-Apr-07	NR	1.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	10-Oct-07	0.08	1.0	0.10 J	ND	---	---	---	---	ND	0.3 J	0.1 J	0.1 J	ND	---	---	---	ND	---	ND
GWPS = 4 µg/L (10/23/07)	2-Apr-08	0.06	1.0	0.40 J	0.1 J	---	---	---	---	0.1 J	0.1 J	0.2 J	0.1 J	ND	---	---	---	0.2 J	---	ND
	28-Oct-08	0.06	1.0	0.5 J	0.1 J	---	---	---	---	0.1 J	0.2 J	0.2 J	0.1 J	ND	---	---	---	0.2 J	---	ND
	8-Apr-09	0.06	1.0	0.6 J	0.1 J	---	---	---	---	0.2 J	0.5 J	0.2 J	0.1 J	ND	---	---	---	0.2 J	---	ND
	27-Oct-09	0.06	1.0	0.7 J	0.2 J	---	---	---	---	0.2 J	0.2 J	0.2 J	0.2 J	ND	---	---	---	0.2 J	---	ND
	8-Apr-10	0.02	1.0	0.6 J	0.1 B	---	---	---	---	0.3 B	0.1 B	0.2 B	0.1 B	0.10 B	---	---	---	0.2 B	---	0.1 J
GWPS = 4 µg/L (10/1/10)	13-Oct-10	0.02	1.0	0.6 J	0.3 J	---	---	---	---	0.1 J	0.2 J	0.2 J	0.2 J	0.1 J	---	---	---	0.2 J	---	ND
	27-Apr-11	0.02	1.0	0.59 J	0.06 J	---	---	---	---	0.1 J	0.13 J	0.26 J	0.13 J	ND	---	---	---	0.16 J	---	ND
	20-Oct-11	0.02	1.0	0.49 J	0.15 J	---	---	---	---	0.1 J	0.11 J	0.19 J	0.14 J	ND	---	---	---	0.19 J	---	ND
	26-Apr-12	0.02	1.0	0.58 J	0.09 J	---	---	---	---	0.1 J	0.17 J	0.34 J	0.15 J	ND	---	---	---	0.15 J	---	ND
	16-Oct-12	0.07	1.0	0.54 J	0.08 J	---	---	---	---	0.1 J	0.13 J	0.25 J	0.15 J	ND	---	---	---	0.1 J	---	ND
	11-Apr-13	0.03	1.0	0.7 J	0.09 J	---	---	---	---	0.2 J	0.16 J	0.49 J	0.15 J	ND	---	---	---	0.17 J	---	ND
	30-Oct-13	0.03	1.0	0.68 J	0.12 B	---	---	---	---	0.07 B	0.16 B	0.34 J	0.12 B	ND	---	---	---	0.18 B	---	0.04 J
	9-Apr-14	0.03	1.0	0.63 J	0.08 J	---	---	---	---	0.1 J	0.16 J	0.45 J	0.19 J	---	---	---	---	0.25 J	---	ND
	22-Oct-14	0.04	1.0	0.70 J	0.10 J	---	---	---	---	0.09 J	0.11 J	0.58 J	0.12 J	ND	---	---	---	0.20 J	---	ND
Cadmium	1-Jul-93	NR	1.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Aug-93	NR	1.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Sep-93	NR	1.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Sep-93	NR	1.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	10	ND	ND	ND	ND	NI	NI	ND
	1-Apr-94	NR	1.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-94	NR	1.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Apr-95	NR	1.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-95	NR	1.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Apr-96	NR	1.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-96	NR	1.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Apr-97	NR	1.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Oct-97	NR	1.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Apr-98	NR	1.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Oct-98	NR	1.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Mar-99	NR	1.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Oct-99	NR	1.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Apr-00	NR	1.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Oct-00	NR	1.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	Apr-01	NR	1.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	ND
	Oct-01	NR	1.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	ND
	Apr-02	NR	1.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Oct-02	NR	1.0	1	---	---	ND	---	---	ND	ND	1	ND	ND	---	---	---	ND	ND	ND
	Apr-03	NR	1.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Oct-03	NR	1.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	15-Apr-04	NR	1.0	ND	---	---	3	---	---	1	ND	ND	ND	ND	---	---	---	1	ND	ND
	14-Oct-04	NR	1.0	ND	---	---	2	---	---	ND	ND	ND	ND	1	---	---	---	ND	ND	ND
	5-Apr-05	NR	1.0	ND	---	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	5-Oct-05	NR	1.0	ND	4	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	21-Apr-06	NR	1.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	12-Oct-06	NR	1.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	26-Apr-07	NR	1.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	10-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
NC 2L = 1.75 µg/L (10/23/07)	2-Apr-08	0.04	1.0	0.2 J	0.4 J	---	---	---	---	0.2 J	0.7 J	0.5 J	0.1 J	0.1 J	---	---	---	0.1 J	---	ND
	28-Oct-08	0.04	1.0	0.3 J	0.8 J	---	---	---	---	0.1 J	0.1 J	0.2 J	0.2 J	0.3 J	---	---	---	0.2 J	---	ND
	8-Apr-09	0.04	1.0	0.2 J	0.1 J	---	---	---	---	0.6 J	0.4 J	0.6 J	0.1 J	0.7 J	---	---	---	0.1 J	---	ND
	27-Oct-09	0.04	1.0	0.4 J	0.3 J	---	---	---	---	0.2 J	0.2 J	0.2 J	0.2 J	0.2 J	---	---	---	0.2 J	---	ND
NC 2L = 2 µg/L (1/1/10)	8-Apr-10	0.02	1.0	0.4 B	0.2 B	---	---	---	---	0.9 J	0.1 B	0.2 B	0.1 B	0.1 B	---	---	---	0.1 B	---	0.1 J
	13-Oct-10	0.02	1.0	0.7 J	0.3 J	---	---	---	---	0.3 J	0.2 J	1.1	0.2 J	0.1 J	---	---	---	0.5 J	---	ND
	27-Apr-11	0.02	1.0	0.11 J	0.10 J	---	---	---	---	0.06 J	0.19 J	0.24 J	0.08 J	0.11 J	---	---	---	0.06 J	---	ND
	20-Oct-11	0.02	1.0	0.07 J	0.15 J	---	---	---	---	0.09 J	ND	0.16 J	0.26 J	0.08 J	---	---	---	0.09 J	---	ND
	26-Apr-12	0.02	1.0	0.18 J	0.08 J	---	---	---	---	0.54 J	0.30 J	2	0.12 J	0.11 J	---	---	---	0.07 J	---	ND
	16-Oct-12	0.03	1.0	0.20 J	0.25 J	---	---	---	---	0.24 J	0.21 J	0.39 J	0.11 J	0.15 J	---	---	---	0.10 J	---	ND
	11-Apr-13	0.05	1.0	0.16 J	0.16 J	---	---	---	---	0.54 J	0.12 J	0.32 J	0.40 J	0.11 J	---	---	---	0.12 J	---	ND
	30-Oct-13	0.05	1.0	0.97 J	0.12 J	---	---	---	---	0.07 J	0.10 J	0.55 J	0.14 J	0.26 J	---	---	---	0.17 J	---	ND
	9-Apr-14	0.05	1.0	0.46 J	0.39 J	---	---	---	---	0.1 J	0.7 J	0.39 J	0.33 J	0.43 J	---	---	---	0.05 J	---	ND
	22-Oct-14	0.04	1.0	0.06 J	0.15 J	---	---	---	---	0.53 J	0.07 J	0.33 J	0.18 J	ND	---	---	---	ND	---	ND

TABLE 6

HISTORICAL DETECTIONS in GROUNDWATER
C.R.S.W.M.A. TUSCARORA INTERIM REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	IRL-1S	IRL-1D	IRL-2S	IRL-2SA	IRL-2D	IRL-2DA	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	IRL-5D	IRL-6S	IRL-6D	MW-A	MW-B	Blanks
Total Chromium	1-Jul-93	NR	5.0	36.0	18	ND	NI	ND	NI	ND	16	ND	49	ND	90.00	44	6	NI	NI	ND
	1-Aug-93	NR	5.0	14.0	8	ND	NI	7	NI	ND	6	ND	6	ND	18.00	ND	ND	NI	NI	ND
	1-Sep-93	NR	5.0	11.0	11	ND	NI	ND	NI	ND	10	ND	15	ND	11.00	7	ND	NI	NI	ND
	1-Sep-93	NR	5.0	19.0	43	ND	NI	6	NI	ND	22	ND	20	ND	21.00	6	ND	NI	NI	ND
	1-Apr-94	NR	5.0	10	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-94	NR	10.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Apr-95	NR	10.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-95	NR	10.0	13	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Apr-96	NR	10.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-96	NR	10.0	39	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Apr-97	NR	10.0	23	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Oct-97	NR	10.0	50	---	ND	NI	---	NI	ND	ND	18	ND	ND	---	ND	---	NI	NI	ND
	1-Apr-98	NR	10.0	18	---	ND	NI	---	NI	22.0	ND	14.0	ND	ND	---	25.0	---	NI	NI	ND
	1-Oct-98	NR	10.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Mar-99	NR	10.0	58	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Oct-99	NR	10.0	21	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Apr-00	NR	5.0	87	---	---	NI	---	NI	19.0	ND	18.0	ND	ND	---	---	---	NI	NI	ND
	1-Oct-00	NR	10.0	21	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	Apr-01	NR	10.0	11	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	ND
	Oct-01	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	ND
	Apr-02	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	12	ND	ND
	Oct-02	NR	10.0	15	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Apr-03	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Oct-03	NR	10.0	12	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	15-Apr-04	NR	10.0	13	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	10	ND	ND
	14-Oct-04	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	5-Apr-05	NR	10.0	ND	---	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	5-Oct-05	NR	10.0	ND	29	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	21-Apr-06	NR	10.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	12-Oct-06	NR	10.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	26-Apr-07	NR	10.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	10-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
NC 2L = 50 µg/L (10/23/07)	2-Apr-08	0.11	10.0	1.6 J	ND	---	---	---	---	0.7 J	0.5 J	ND	0.5 J	ND	---	---	---	0.3 J	---	ND
	28-Oct-08	0.11	10.0	3 J	1.6 J	---	---	---	---	1.5 J	1.1 J	0.4 J	1.1 J	0.4 J	---	---	---	1.8 J	---	ND
	8-Apr-09	0.10	10.0	6.1 J	1.1 J	---	---	---	---	2.7 J	5.9 J	1.6 J	1.2 J	0.6 J	---	---	---	2.1 J	---	ND
	27-Oct-09	0.10	10.0	7.8 J	2.2 J	---	---	---	---	3.1 J	2 J	1 J	1.6 J	0.9 J	---	---	---	1.1 J	---	ND
	8-Apr-10	0.03	10.0	5.9 J	0.9 J	---	---	---	---	3.7 J	1.1 J	1 J	0.6 J	0.3 J	---	---	---	1.1 J	---	ND
NC 2L = 10 µg/L (1/1/10)	13-Oct-10	0.03	10.0	0.7 J	3.4 J	---	---	---	---	1.5 J	1.6 J	0.8 J	1.5 J	0.6 J	---	---	---	1.7 J	---	ND
	27-Apr-11	0.04	10.0	0.81 B	0.56 B	---	---	---	---	1.6 J	1.8 J	0.9 B	1.4 J	0.37 B	---	---	---	0.98 J	---	0.18 J
	20-Oct-11	0.0	10.0	1.6 J	2.3 J	---	---	---	---	3.2 J	1.7 J	1.5 J	1.9 J	1.1 J	---	---	---	2.7 J	---	0.18 J
	26-Apr-12	0.04	10.0	3.9 J	1.5 J	---	---	---	---	3 J	2.7 J	2.8 J	2 J	0.79 J	---	---	---	2 J	---	0.09 J
	16-Oct-12	0.18	10.0	1.6 J	1.6 J	---	---	---	---	2 J	2.1 J	0.8 J	1.5 J	0.4 J	---	---	---	0.74 J	---	ND
	11-Apr-13	0.04	10.0	4.8 J	0.56 J	---	---	---	---	1.6 J	2.1 J	0.72 J	1.3 J	0.32 J	---	---	---	1.2 J	---	ND
	30-Oct-13	0.04	10.0	3.9 J	1.1 J	---	---	---	---	1.1 J	1.9 J	2.9 J	1.4 J	0.32 B	---	---	---	1.1 J	---	0.11 J
	9-Apr-14	0.04	10.0	1.7 J	0.91 J	---	---	---	---	0.68 J	1.9 J	1 J	1.8 J	0.38 J	---	---	---	3.7 J	---	ND
	22-Oct-14	0.14	10.0	1.2 J	1.8 J	---	---	---	---	2.2 J	1.7 J	1.6 J	1.6 J	0.84 J	---	---	---	1.4 J	---	ND
Cobalt	1-Jul-93	NR	20.0	32	41	27	NI	20	NI	21	31	ND	93	29	118	45	23	NI	NI	ND
	1-Aug-93	NR	20.0	26	27	23	NI	40	NI	37	32	27	33	50	30	22	25	NI	NI	ND
	1-Sep-93	NR	20.0	22	21.0	ND	NI	21	NI	23	25	ND	38	36.0	32	ND	ND	NI	NI	ND
	1-Sep-93	NR	20.0	ND	ND	ND	NI	22	NI	ND	ND	31	53	26.0	21	ND	ND	NI	NI	ND
	1-Apr-94	NR	10.0	27 B	22.0 B	27 B	NI	41 B	NI	35 B	39 B	27 B	41 B	53.0 B	34 B	20 B	ND	NI	NI	18.0
	1-Oct-94	NR	10.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Apr-95	NR	10.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	37	NI	NI	ND
	1-Oct-95	NR	10.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Apr-96	NR	10.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-96	NR	10.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Apr-97	NR	10.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Oct-97	NR	10.0	20	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Apr-98	NR	10.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Oct-98	NR	10.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Mar-99	NR	10.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Oct-99	NR	10.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Apr-00	NR	10.0	16	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Oct-00	NR	10.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	Apr-01	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	ND
	Oct-01	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	ND
	Apr-02	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Oct-02	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Apr-03	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Oct-03	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	15-Apr-04	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	14-Oct-04	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	5-Apr-05	NR	10.0	ND	---	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	5-Oct-05	NR	10.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	21-Apr-06	NR	10.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	12-Oct-06	NR	10.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	26-Apr-07	NR	10.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	10-Oct-07	0.41	10.0	0.6 J	ND	---	---	---	---	ND	ND	1.3 J	ND	ND	---	---	---	ND	---	ND
GWPS = 70 µg/L (10/23/07)	2-Apr-08	0.03	10.0	0.9 J	0.1 J	---	---	---	---	0.3 J	0.3 J	1.3 J	0.1 J	0.4 J	---	---	---	1.6 J	---	ND
	28-Oct-08	0.03	10.0	1.1 J	0.5 J	---	---	---	---	0.4 J	0.4 J	1.2 J	0.4 J	1.1 J	---	---	---	0.5 J	---	ND
	8-Apr-09	0.02	10.0	1.3 J	0.8 J	---	---	---	---	0.6 J	1.2 J	1.4 J	0.5 J	1.5 J	---	---	---	0.7 J	---	ND
	27-Oct-09	0.02	10.0	1.2 J	0.5 J	---	---	---	---	0.5 J	0.4 J	1.4 J	0.6 J	2.1 J	---	---	---	0.4 J	---	ND
	8-Apr-10	0.10	10.0	1.3 J	0.9 J	---	---	---	---	1.6 J	0.3 J	1.8 J	0.4 J	1.5 J	---	---	---	0.6 J	---	ND
GWPS = 1 µg/L (10/1/10)	13-Oct-10	0.10	10.0	1 J	0.7 J	---	---	---	---	0.7 J	0.4 J	1.4 J	0.6 J	2.1 J	---	---	---	0.4 J	---	ND
	27-Apr-11	0.03	10.0	1.3 J	0.24 J	---	---	---	---	0.69 J	0.26 J	2.3 J	0.33 J	0.71 J	---	---	---	0.50 J	---	ND
	20-Oct-11	0.03	10.0	0.86 J	0.46 J	---	---	---	---	0.80 J	0.14 J	2.0 J	0.36 J	1.1 J	---	---	---	0.42 J	---	ND
	26-Apr-12	0.03	10.0	1 J	0.41 J	---	---	---	---	0.72 J	0.39 J	2.6 J	0.52 J	1.1 J	---	---	---	0.45 J	---	ND
	16-Oct-12	0.02	10.0	0.93 J	0.46 J	---	---	---	---	0.66 J	0.33 J	2.6 J	0.4 J	1 J	---	---	---	0.3 J	---	ND
	11-Apr-13	0.02	10.0	1.3 J	0.33 J	---	---	---	---	0.49 J	0.39 J	3.1 J	0.39 J	0.77 J	---	---	---	0.52 J	---	0.03 J
	30-Oct-13	0.02	10.0	1.1 J	0.37 J	---	---	---	---	0.33 J	0.21 B	2.8 J	0.24 B	0.79 J	---	---	---	0.35 J	---	0.05 J
	9-Apr-14	0.02	10.0	1.3 J	0.4 J	---	---	---	---	0.32 J	0.31 J	3 J	0.55 J	1.1 J	---	---	---	0.62 J	---	ND
	22-Oct-14	0.12	10.0	1.3 J	1.4 J	---	---	---	---	0.40 J	0.24 J	2.9 J	0.26 J	0.76 J	---	---	---	0.36 J	---	ND

TABLE 6

HISTORICAL DETECTIONS in GROUNDWATER
C.R.S.W.M.A. TUSCARORA INTERIM REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	IRL-1S	IRL-1D	IRL-2S	IRL-2SA	IRL-2D	IRL-2DA	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	IRL-5D	IRL-6S	IRL-6D	MW-A	MW-B	Blanks
Copper	1-Jul-93	NR	10.0	38 B	25 B	22 B	NI	29 B	NI	30 B	29 B	24 B	63 B	23 B	54 B	55 B	22 B	NI	NI	17
	1-Aug-93	NR	10.0	32 B	26 B	27 B	NI	24 B	NI	24 B	26 B	24 B	20 B	19 B	23.0 B	25.00 B	17 B	NI	NI	19.00
	1-Sep-93	NR	10.0	22 B	24 B	27 B	NI	22 B	NI	19 B	24 B	22 B	29 B	34 B	26.00 B	25.0 B	27 B	NI	NI	11.0
	1-Sep-93	NR	10.0	89 B	101 B	58 B	NI	79 B	NI	39 B	69 B	65 B	ND	53 B	62.0 B	53.0 B	54 B	NI	NI	39.00
	1-Apr-94	NR	10.0	26 B	22 B	26 B	NI	29 B	NI	28 B	29 B	28 B	28 B	33 B	24.0 B	24.0 B	ND	NI	NI	21.00
	1-Oct-94	NR	200.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Apr-95	NR	200.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	24	NI	NI	ND
	1-Oct-95	NR	200.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Apr-96	NR	200.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-96	NR	200.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Apr-97	NR	200.0	55	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Oct-97	NR	200.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Apr-98	NR	200.0	ND	---	11	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Oct-98	NR	200.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Mar-99	NR	200.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Oct-99	NR	200.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Apr-00	NR	200.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Oct-00	NR	200.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	Apr-01	NR	200.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	ND
	Oct-01	NR	200.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	ND
	Apr-02	NR	200.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Oct-02	NR	200.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Apr-03	NR	200.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Oct-03	NR	200.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	15-Apr-04	NR	200.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	14-Oct-04	NR	200.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	5-Apr-05	NR	200.0	ND	---	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	5-Oct-05	NR	200.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	21-Apr-06	NR	200.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	12-Oct-06	NR	200.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	26-Apr-07	NR	10.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	10-Oct-07	0.20	10.0	0.6 B	1 B	---	---	---	---	0 B	1 B	1 B	0.5 B	0.7 B	---	---	---	1.0 B	---	0.4 J
NC 2L = 1,000 µg/L (10/23/07)	2-Apr-08	0.05	10.0	0.8 B	0.4 B	---	---	---	---	0.6 B	0.5 B	0.8 B	0.2 B	0.4 B	---	---	---	0.4 B	---	0.2 J
	28-Oct-08	0.05	10.0	1.4 B	1.5 B	---	---	---	---	0.7 B	0.5 B	1 B	0.5 B	1.0 B	---	---	---	1.2 B	---	1.1 J
	8-Apr-09	0.04	10.0	2.2 J	0.9 J	---	---	---	---	1.7 J	1.6 J	1.9 J	0.4 B	2.3 J	---	---	---	1.1 J	---	0.1 J
	27-Oct-09	0.04	10.0	3.2 J	2.1 J	---	---	---	---	1.9 J	3 J	2.5 J	1.9 J	1.3 J	---	---	---	5.4 J	---	0.1 J
	8-Apr-10	0.03	10.0	2.9 J	2.7 J	---	---	---	---	2.8 J	1 B	1.6 J	0.8 B	1.2 J	---	---	---	1.6 J	---	0.2 J
	13-Oct-10	0.03	10.0	1.6 J	2.6 J	---	---	---	---	0.5 B	0.7 B	1.7 J	0.6 B	1 B	---	---	---	1.5 J	---	0.2 J
	27-Apr-11	0.02	10.0	0.96 B	1.1 B	---	---	---	---	0.62 B	0.68 B	0.83 B	0.57 B	0.64 B	---	---	---	1.2 B	---	0.66 J
	20-Oct-11	0.02	10.0	1.1 J	1.3 J	---	---	---	---	1.1 J	0.97 B	0.86 B	1.3 J	0.97 B	---	---	---	1.3 J	---	0.2 J
	26-Apr-12	0.02	10.0	1.6 B	1.1 B	---	---	---	---	1.7 B	1.7 B	1.1 B	0.84 B	1 B	---	---	---	1.1 B	---	0.94 J
	16-Oct-12	0.06	10.0	0.93 B	1.4 J	---	---	---	---	0.73 B	0.59 B	0.82 B	0.69 B	1.1 B	---	---	---	0.61 B	---	0.25 J
	11-Apr-13	0.06	10.0	1.7 J	0.64 B	---	---	---	---	0.76 B	0.67 B	0.84 B	0.68 B	0.74 B	---	---	---	1 B	---	0.28 J
	30-Oct-13	0.06	10.0	2.6 B	1.4 B	---	---	---	---	0.52 B	0.63 B	0.85 B	0.51 B	1.4 B	---	---	---	1.4 B	---	1.2 J
	9-Apr-14	0.06	10.0	0.75 J	2 J	---	---	---	---	0.22 J	0.39 J	0.83 J	0.44 J	0.47 J	---	---	---	1 J	---	ND
	22-Oct-14	0.10	10.0	0.34 J	0.65 J	---	---	---	---	0.55 J	ND	1.2 J	0.42 J	0.45 J	---	---	---	0.31 J	---	---
Lead	1-Jul-93	NR	5.0	32	6	ND	NI	ND	NI	12	7	ND	30	ND	30.0	65.0	ND	NI	NI	ND
	1-Aug-93	NR	5.0	7	5	6	NI	10	NI	ND	ND	7	ND	ND	12.0	8.0	5.0	NI	NI	ND
	1-Sep-93	NR	5.0	14	9	ND	NI	ND	NI	ND	7	5	12	ND	ND	9.0	ND	NI	NI	ND
	1-Sep-93	NR	5.0	13	22	ND	NI	ND	NI	ND	8	ND	21	ND	ND	7.0	ND	NI	NI	ND
	1-Apr-94	NR	5.0	11	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-94	NR	10.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Apr-95	NR	10.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-95	NR	10.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Apr-96	NR	10.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-96	NR	10.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Apr-97	NR	10.0	22	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Oct-97	NR	10.0	ND	---	11	NI	---	NI	ND	ND	22	ND	ND	---	ND	---	NI	NI	ND
	1-Apr-98	NR	10.0	12	---	ND	NI	---	NI	16	ND	ND	ND	ND	---	20.0	---	NI	NI	ND
	1-Oct-98	NR	10.0	14.0	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Mar-99	NR	10.0	21.0	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Oct-99	NR	10.0	12	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Apr-00	NR	10.0	38	---	---	NI	---	NI	ND	ND	14	ND	ND	---	---	---	NI	NI	ND
	1-Oct-00	NR	10.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	Apr-01	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	ND
	Oct-01	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	ND
	Apr-02	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Oct-02	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Apr-03	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Oct-03	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	15-Apr-04	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	14-Oct-04	NR	10.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	5-Apr-05	NR	10.0	ND	---	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	5-Oct-05	NR	10.0	ND	31.0	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	21-Apr-06	NR	10.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	12-Oct-06	NR	10.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	26-Apr-07	NR	10.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	10-Oct-07	0.07	10.0	0.4 B	0.1 B	---	---	---	---	0.1 B	0.1 B	0 B	0.1 B	0.1 B	---	---	---	0 B	---	0.1 J
NC 2L = 15 µg/L (10/23/07)	2-Apr-08	0.04	10.0	1.4 J	0.1 J	---	---	---	---	0 J	0 J	0 J	ND	0.1 J	---	---	---	0 J	---	ND
	28-Oct-08	0.04	10.0	3.5 J	1.5 J	---	---	---	---	0.9 J	0 B	0.7 J	0.4 B	0.5 B	---	---	---	1 J	---	0.1 J
	8-Apr-09	0.04	10.0	4.8 J	0.9 J	---	---	---	---	1.9 J	8.9 J	1.4 J	0.4 B	0.6 J	---	---	---	2 J	---	0.1 J
	27-Oct-09	0.04	10.0	8.7 J	1.5 J	---	---	---	---	2 J	2 J	1 J	0.7 J	0.9 J	---	---	---	1 J	---	ND
	8-Apr-10	0.01	10.0	5 J	0.8 J	---	---	---	---	3 J	0 B	0.8 J	0.3 B	0.3 B	---	---	---	1 J	---	0.1 J
	13-Oct-10	0.01	10.0	1.2 J	2.7 J	---	---	---	---	1.1 J	1.0 J	0.5 B	0.7 J	0.7 J	---	---	---	2 J	---	0.1 J
	27-Apr-11	0.02	10.0	1.3 J	0.63 J	---	---	---	---	1 J	0.5 J	0.5 J	0.4 J	0.3 J	---	---	---	1 J	---	ND
	20-Oct-11	0.02	10.0	1.6 J	1.2 J	---	---	---	---	2 J	1 J	1 J	0.6 J	0.5 J	---	---	---	1 J	---	ND
	26-Apr-12	0.02	10.0	3 J	1 J	---	---	---	---	2.2 J	1.2 J	1.7 J	0.6 J	0.4 J	---	---	---	1.1 J	---	0.02 J
	16-Oct-12	0.08	10.0	1.9 J	1.4 J	---	---	---	---	1.6 J	0.83 J	0.29 J	0.4 J	0.5 J	---	---	---	0.6 J	---	ND
	11-Apr-13	0.02	10.0	4.4 J	0.62 J	---	---	---	---	1.5 J	0.89 J	0.4 J	0.4 J	0.1 J	---	---	---	0.9 J	---	ND
	30-Oct-13	0.02	10.0	4.7 J	0.94 J	---	---	---	---	0.66 J	0.64 J	1.7 J	0.22 B	0.33 B	---	---	---	0.65 J	---	0.08 J
	9-Apr-14	0.02	10.0	1.6 J	0.75 J	---	---	---	---	0.75 J	0.8 J	0.4 J	0.71 J	0.44 J	---	---	---	2.4 J	---	ND
	22-Oct-14	0.13	10.0	1.3 J	1.3 J	---	---	---	---	1.5 J	0.61 J	3.6 J	0.49 J	0.27 J	---	---	---	1.0 J	---	ND

TABLE 6

HISTORICAL DETECTIONS in GROUNDWATER
C.R.S.W.M.A. TUSCARORA INTERIM REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	IRL-1S	IRL-1D	IRL-2S	IRL-2SA	IRL-2D	IRL-2DA	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	IRL-5D	IRL-6S	IRL-6D	MW-A	MW-B	Blanks
Nickel	1-Jul-93	NR	10.0	45	30	15	NI	21	NI	23	53	26	133	51	144.0	54.0	35.0	NI	NI	ND
	1-Aug-93	NR	10.0	25 B	16 B	16 B	NI	36 B	NI	31 B	28 B	99	62	60	42.0 B	213.0	35.0 B	NI	NI	11
	1-Sep-93	NR	10.0	25 B	28 B	33 B	NI	22 B	NI	20 B	28 B	27 B	53 B	48 B	42.0 B	36.0 B	24.0 B	NI	NI	17
	1-Sep-93	NR	10.0	24	32	16	NI	22	NI	17	22	11	ND	20	21.0	ND	ND	NI	NI	ND
	1-Apr-94	NR	10.0	34 B	38 B	36 B	NI	54 B	NI	53 B	57 B	45 B	40 B	50 B	27.0 B	ND	ND	NI	NI	20
	1-Oct-94	NR	50.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	64	ND	ND	ND	NI	NI	ND
	1-Apr-95	NR	50.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	17.0	NI	NI	ND
	1-Oct-95	NR	50.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Apr-96	NR	50.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-96	NR	50.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Apr-97	NR	50.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Oct-97	NR	50.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Apr-98	NR	50.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Oct-98	NR	50.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Mar-99	NR	50.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Oct-99	NR	50.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Apr-00	NR	50.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Oct-00	NR	50.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	Apr-01	NR	50.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	ND
	Oct-01	NR	50.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	ND
	Apr-02	NR	50.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Oct-02	NR	50.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Apr-03	NR	50.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Oct-03	NR	50.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	15-Apr-04	NR	50.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	14-Oct-04	NR	50.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	5-Apr-05	NR	50.0	ND	---	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	5-Oct-05	NR	50.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	21-Apr-06	NR	50.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	12-Oct-06	NR	50.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	26-Apr-07	NR	50.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	10-Oct-07	0.7	50.0	1.5 J	0.9 J	---	---	---	---	3.3 J	2.7 J	2.3 J	2.1 J	6.1 J	---	---	---	1 J	---	ND
NC 2L = 100 µg/L (10/23/07)	2-Apr-08	0.1	50.0	1.6 J	1.4 B	---	---	---	---	5.4 J	3.9 J	2 J	2.5 J	5.3 J	---	---	---	2.1 J	---	0.3 J
	28-Oct-08	0.06	50.0	2 J	1.6 J	---	---	---	---	5 J	4.8 J	1.9 J	2.9 J	8.4 J	---	---	---	1.1 J	---	0.2 J
	8-Apr-09	0.04	50.0	3.1 J	1 J	---	---	---	---	4.6 J	6.4 J	1.9 J	1.7 J	6.3 J	---	---	---	0.8 J	---	ND
	27-Oct-09	0.04	50.0	2.5 J	1.4 J	---	---	---	---	2.8 J	2.3 J	1.9 J	1.8 J	4.9 J	---	---	---	0.8 B	---	0.2 J
	8-Apr-10	0.05	50.0	1.9 J	0.5 J	---	---	---	---	5 J	1.9 J	2.0 J	1.1 J	4.9 J	---	---	---	1.1 J	---	ND
	13-Oct-10	0.05	50.0	2.1 J	4 J	---	---	---	---	8 J	4.5 J	2.8 J	3.5 J	10.7 J	---	---	---	1.1 J	---	0.1 J
	27-Apr-11	0.04	50.0	2.7 J	0.88 B	---	---	---	---	3 J	2 J	3 J	1.6 J	4.4 J	---	---	---	1 B	---	0.3 J
	20-Oct-11	0.04	50.0	2 B	1.3 B	---	---	---	---	3.0 J	1.7 B	2.8 J	1.6 B	4.1 J	---	---	---	1.2 B	---	0.56 J
	26-Apr-12	0.04	50.0	2.2 J	1.2 J	---	---	---	---	3.4 J	2.1 J	3.5 J	1.9 J	4.6 J	---	---	---	1.1 J	---	ND
	16-Oct-12	0.06	50.0	2.2 J	1.6 J	---	---	---	---	4 J	2.6 J	3.7 J	2.0 J	5.1 J	---	---	---	1.0 B	---	0.23 J
	11-Apr-13	0.45	50.0	2.5 J	1.7 J	---	---	---	---	3.5 J	2.7 J	4.1 J	2.3 J	6.7 J	---	---	---	1.1 J	---	ND
	30-Oct-13	0.45	50.0	2.9 J	1.4 J	---	---	---	---	3.0 J	2.1 J	4.2 J	2.2 J	5.6 J	---	---	---	1.3 J	---	ND
	9-Apr-14	0.45	50.0	4.7 J	1.3 J	---	---	---	---	3.8 J	2.5 J	4.0 J	3.0 J	7.1 J	---	---	---	1.8 J	---	ND
	22-Oct-14	0.12	50.0	2.6 J	1.1 J	---	---	---	---	2.0 J	1.1 J	3.6 J	1.3 J	5.5 J	---	---	---	0.70 J	---	ND
Selenium	10-Oct-07	0.35	10.0	1.2 B	1 B	---	---	---	---	8 J	1.7 B	3.5 B	1.2 B	4.5 B	---	---	---	1.6 B	---	0.9 J
NC 2L = 50 µg/L (10/23/07)	2-Apr-08	0.14	10.0	ND	ND	---	---	---	---	1 J	0.9 J	5.2 J	ND	6.2 J	---	---	---	0.7 J	---	ND
	28-Oct-08	0.14	10.0	0.2 B	ND	---	---	---	---	2.8 B	2.4 B	5 B	ND	4.5 B	---	---	---	1.2 B	---	1.9 J
	8-Apr-09	0.12	10.0	ND	ND	---	---	---	---	0.8 J	2 J	3 J	ND	3.1 J	---	---	---	0.9 J	---	ND
	27-Oct-09	0.12	10.0	0.3 J	0.3 J	---	---	---	---	2 J	1.5 J	2.3 J	ND	3.4 J	---	---	---	0.7 J	---	ND
NC 2L = 20 µg/L (1/1/10)	8-Apr-10	0.32	10.0	ND	ND	---	---	---	---	0.5 J	0.8 J	3.6 J	ND	5.1 J	---	---	---	0.6 J	---	ND
	13-Oct-10	0.32	10.0	ND	ND	---	---	---	---	1.6 J	1.2 J	5.1 J	ND	6.6 J	---	---	---	1.6 J	---	ND
	27-Apr-11	0.20	10.0	ND	0.31 J	---	---	---	---	1.5 J	0.76 J	2.3 J	0.34 J	3.8 J	---	---	---	0.81 J	---	ND
	20-Oct-11	0.20	10.0	0.31 J	0.26 J	---	---	---	---	1.5 J	1.3 J	1.9 J	0.22 J	2.6 J	---	---	---	0.75 J	---	ND
	26-Apr-12	0.20	10.0	0.21 J	ND	---	---	---	---	1 J	0.32 J	1.9 J	0.21 J	3.5 J	---	---	---	0.58 J	---	ND
	16-Oct-12	0.17	10.0	0.19 J	0.33 J	---	---	---	---	3 J	0.22 J	2.1 J	ND	2.9 J	---	---	---	0.66 J	---	ND
	11-Apr-13	0.06	10.0	0.13 J	0.38 J	---	---	---	---	1.4 J	0.23 J	2.0 J	0.12 J	4.2 J	---	---	---	0.97 J	---	ND
	30-Oct-13	0.06	10.0	0.5 J	0.38 J	---	---	---	---	2.2 J	0.28 J	1.7 J	0.17 J	3.4 J	---	---	---	1.3 J	---	ND
	9-Apr-14	0.06	10.0	ND	ND	---	---	---	---	0.51 J	N	1.1 J	ND	1.8 J	---	---	---	0.22 J	---	ND
	22-Oct-14	0.16	10.0	0.92 J	0.82 J	---	---	---	---	1.9 J	0.47 J	1.7 J	0.74 J	2.7 J	---	---	---	1.4 J	---	---
Silver	2-Apr-08	0.04	10.0	0.1 B	0.1 B	---	---	---	---	0.1 B	ND	0.1 B	ND	ND	---	---	---	0.1 B	---	0.1 J
NC 2L = 17.5 µg/L (10/23/07)	28-Oct-08	0.04	10.0	0.1 B	0.1 B	---	---	---	---	0.1 B	ND	ND	ND	0.1 B	---	---	---	ND	---	0.1 J
	8-Apr-09	0.04	10.0	ND	ND	---	---	---	---	ND	ND	0.1 J	ND	ND	---	---	---	ND	---	ND
	27-Oct-09	0.04	10.0	ND	0.1 J	---	---	---	---	0.1 J	0.1 J	0.1 J	ND	ND	---	---	---	0.1 J	---	ND
NC 2L = 20 µg/L (1/1/10)	8-Apr-10	0.03	10.0	ND	ND	---	---	---	---	0.1 B	0.1 B	0.1 B	ND	0.1 B	---	---	---	ND	---	0.1 J
	13-Oct-10	0.03	10.0	ND	ND	---	---	---	---	ND	ND	ND	0.1 J	0.1 J	---	---	---	ND	---	ND
	27-Apr-11	0.02	10.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	20-Oct-11	0.02	10.0	ND	0.07 J	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	0.06 J	---	ND
	26-Apr-12	0.02	10.0	ND	ND	---	---	---	---	0.04 J	0.06 J	0.04 J	0.0 J	ND	---	---	---	ND	---	ND
	16-Oct-12	0.10	10.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	11-Apr-13	0.03	10.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	30-Oct-13	0.03	10.0	ND	0.04 B	---	---	---	---	ND	ND	ND	ND	0.07 B	---	---	---	0.05 B	---	0.05 J
	9-Apr-14	0.03	10.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	22-Oct-14	0.04	10.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
Thallium	2-Apr-08	0.04	5.0	0.1 J	0.2 J	---	---	---	---	0.1 J	ND	0.1 J	ND	ND	---	---	---	0.1 J	---	ND
GWPS = 0.28 µg/L (10/23/07)	28-Oct-08	0.04	5.0	0.2 J	ND	---	---	---	---	0.1 J	ND	0.1 J	ND	ND	---	---	---	ND	---	ND
	8-Apr-09	0.03	5.0	0.1 J	ND	---	---	---	---	0.1 J	0.1 J	0.1 J	ND	ND	---	---	---	ND	---	ND
	27-Oct-09	0.03	5.0	0.1 J	0.1 J	---	---	---	---	0.1 J	0.1 J	ND	ND	ND	---	---	---	ND	---	ND
	8-Apr-10	0.05	5.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
GWPS = 0.2 µg/L (10/1/10)	13-Oct-10	0.05	5.0	ND	ND	---	---	---	---	ND	ND	ND	0.2 J	0.1 J	---	---	---	ND	---	ND
	27-Apr-11	0.02	5.5	0.03 B	ND	---	---	---	---	0.05 B	ND	0.04 B	ND	ND	---	---	---	ND	---	0.03 J
	20-Oct-11	0.02	5.5	0.03 J	0.09 J	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	0.03 J	---	ND
	26-Apr-12	0.02	5.5	0.06 J	ND	---	---	---	---	0.18 J	0.05 J	0.07 J	0.02 J	ND	---	---	---	0.02 J	---	ND
	16-Oct-12	0.07	5.5	ND	ND	---	---	---	---	ND	ND	0.08 J	0.07 J	ND	---	---	---	ND	---	ND
	11-Apr-13	0.02	5.5	0.05 B	0.11 B	---	---	---	---	ND	ND	0.05 B	ND	ND	---	---	---	ND	---	0.19 J
	30-Oct-13	0.02	5.5	0.07 B	0.08 B	---	---	---	---	ND	ND	0.05 B	ND	ND	---	---	---	0.2 B	---	0.13 J
	9-Apr-14	0.02	5.5	0.03 J	ND	---	---	---	---	ND	ND	0.07 J	ND	ND	---	---	---	0.03 J	---	ND
	22-Oct-14	0.13	5.5	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND

TABLE 6

HISTORICAL DETECTIONS in GROUNDWATER
C.R.S.W.M.A. TUSCARORA INTERIM REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	IRL-1S	IRL-1D	IRL-2S	IRL-2SA	IRL-2D	IRL-2DA	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	IRL-5D	IRL-6S	IRL-6D	MW-A	MW-B	Blanks
Vanadium	1-Jul-93	NR	2000	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Aug-93	NR	2000	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Sep-93	NR	2000	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Sep-93	NR	2000	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Apr-94	NR	25.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-94	NR	40.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Apr-95	NR	40.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-95	NR	40.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Apr-96	NR	40.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-96	NR	40.0	ND	---	ND	NI	---	NI	48	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Apr-97	NR	40.0	48	---	ND	NI	---	NI	48	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Oct-97	NR	40.0	56	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Apr-98	NR	40.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Oct-98	NR	40.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Mar-99	NR	40.0	63	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Oct-99	NR	40.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Apr-00	NR	40.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	1-Oct-00	NR	40.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	ND	---	---	---	NI	NI	ND
	Apr-01	NR	40.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	ND
	Oct-01	NR	40.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	---	---	ND
	Apr-02	NR	40.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Oct-02	NR	40.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Apr-03	NR	40.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	Oct-03	NR	40.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	15-Apr-04	NR	40.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	14-Oct-04	NR	40.0	ND	---	---	ND	---	---	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND
	5-Apr-05	NR	40.0	ND	---	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	5-Oct-05	NR	40.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	21-Apr-06	NR	40.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	12-Oct-06	NR	40.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	26-Apr-07	NR	25.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	10-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
GWPS = 3.5 µg/L (10/23/07)	2-Apr-08	0.07	25.0	2 J	0.3 J	---	---	---	---	1.6 J	1.1 J	0.3 J	1 J	1.2 J	---	---	---	1.1 J	---	ND
	28-Oct-08	0.07	25.0	4.2 J	2.1 J	---	---	---	---	3.3 J	1.9 J	1 B	1.7 J	2 J	---	---	---	2.7 J	---	0.2 J
	8-Apr-09	0.28	25.0	7.8 J	1.9 J	---	---	---	---	6.2 J	8.2 J	3.1 J	2.1 J	3 J	---	---	---	3.7 J	---	ND
	27-Oct-09	0.28	25.0	10.3 J	2.7 J	---	---	---	---	5.9 J	2.5 J	1.5 B	2.3 J	2.4 J	---	---	---	2.4 J	---	0.4 J
	8-Apr-10	0.03	25.0	7.5 J	1.2 B	---	---	---	---	6 J	1.1 B	1.2 B	1.2 B	2.0 B	---	---	---	3.1 J	---	0.4 J
GWPS = 0.3 µg/L (10/1/10)	13-Oct-10	0.03	25.0	1.7 B	5.1 J	---	---	---	---	2.9 B	2.6 B	1.5 B	2.7 B	2.2 B	---	---	---	3 B	---	0.6 J
	27-Apr-11	0.14	25.0	1.2 J	0.8 J	---	---	---	---	2 J	1.6 J	0.49 J	1.4 J	1.5 J	---	---	---	1.3 J	---	ND
	20-Oct-11	0.14	25.0	1.4 J	2.1 J	---	---	---	---	4.4 J	0.92 J	0.79 J	1.3 J	0.8 J	---	---	---	2.8 J	---	ND
	26-Apr-12	0.14	25.0	4.6 J	1.1 J	---	---	---	---	4.4 J	2.2 J	2.9 J	1.5 J	0.99 J	---	---	---	1.9 J	---	ND
	16-Oct-12	0.10	25.0	2.2 J	2.3 J	---	---	---	---	2.7 J	2 J	0.29 J	1.6 J	1.1 J	---	---	---	1 J	---	ND
	11-Apr-13	0.07	25.0	7.4 J	1.2 J	---	---	---	---	3.1 J	2.7 J	0.87 J	2 J	1.1 J	---	---	---	2.2 J	---	ND
	30-Oct-13	0.07	25.0	5.8 J	1.0 J	---	---	---	---	2 J	1.9 J	3.7 J	1.3 J	1.2 J	---	---	---	1.4 J	---	ND
	9-Apr-14	0.07	25.0	2.3 J	1.2 J	---	---	---	---	2.2 J	2.3 J	1.1 J	2.6 J	1.7 J	---	---	---	4.9 J	---	ND
	22-Oct-14	0.06	25.0	1.2 J	1.8 J	---	---	---	---	3.8 J	1.4 J	5.1 J	1.3 J	1.4 J	---	---	---	2.1 J	---	0.18 J
Zinc	1-Jul-93	NR	10.0	42 B	41.0 B	10 B	NI	15 B	NI	11 B	43 B	14 B	293	ND	301	ND	25 B	NI	NI	10
	1-Aug-93	NR	10.0	37	18.0	11	NI	14	NI	ND	ND	16	25	ND	64	12	22	NI	NI	ND
	1-Sep-93	NR	10.0	31	20.0	ND	NI	ND	NI	ND	13	ND	57	ND	12	ND	ND	NI	NI	ND
	1-Sep-93	NR	10.0	73	88	17	NI	27	NI	22	26	14	41	11	29	12	24	NI	NI	ND
	1-Apr-94	NR	10.0	36 B	19 B	42 B	NI	21.0 B	NI	155.0	24.0 B	25.0 B	30.0 B	48.0 B	22.0 B	34.0 B	ND	NI	NI	20
	1-Oct-94	NR	50.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	97.0	ND	ND	ND	NI	NI	ND
	1-Apr-95	NR	50.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	803.0	ND	ND	25.0	NI	NI	ND
	1-Oct-95	NR	50.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Apr-96	NR	50.0	ND	ND	ND	NI	ND	NI	ND	ND	ND	ND	ND	ND	ND	ND	NI	NI	ND
	1-Oct-96	NR	50.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	ND	---	ND	---	NI	NI	ND
	1-Apr-97	NR	50.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	1425.0	---	ND	---	NI	NI	ND
	1-Oct-97	NR	50.0	110	---	ND	NI	---	NI	ND	ND	ND	ND	1240.0	---	ND	---	NI	NI	ND
	1-Apr-98	NR	50.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	6340.0	---	ND	---	NI	NI	ND
	1-Oct-98	NR	50.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	54.0	---	---	---	NI	NI	ND
	1-Mar-99	NR	50.0	ND	---	ND	NI	---	NI	ND	ND	ND	ND	1608.0	---	---	---	NI	NI	ND
	1-Oct-99	NR	50.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	65.0	---	---	---	NI	NI	ND
	1-Apr-00	NR	50.0	90	---	---	NI	---	NI	ND	ND	ND	ND	596.0	---	---	---	NI	NI	ND
	1-Oct-00	NR	50.0	ND	---	---	NI	---	NI	ND	ND	ND	ND	74.0	---	---	---	NI	NI	ND
	Apr-01	NR	50.0	ND	---	---	ND	---	---	ND	ND	ND	ND	1204	---	---	---	---	---	ND
	Oct-01	NR	50.0	ND	---	---	ND	---	---	ND	ND	ND	ND	362	---	---	---	---	---	ND
	Apr-02	NR	50.0	ND	---	---	ND	---	---	ND	ND	ND	ND	124	---	---	---	ND	ND	ND
	Oct-02	NR	50.0	ND	---	---	ND	---	---	ND	ND	ND	ND	131	---	---	---	ND	ND	ND
	Apr-03	NR	50.0	ND	---	---	ND	---	---	ND	ND	ND	ND	112	---	---	---	ND	ND	ND
	Oct-03	NR	50.0	ND	---	---	ND	---	---	ND	ND	ND	ND	277	---	---	---	ND	ND	ND
	15-Apr-04	NR	50.0	ND	---	---	ND	---	---	ND	ND	ND	ND	364	---	---	---	ND	ND	ND
	14-Oct-04	NR	50.0	ND	---	---	ND	---	---	ND	ND	ND	ND	63	---	---	---	ND	ND	ND
	5-Apr-05	NR	50.0	ND	---	---	---	---	---	ND	ND	ND	ND	132	---	---	---	ND	---	ND
	5-Oct-05	NR	50.0	ND	192	---	---	---	---	ND	ND	ND	ND	280	---	---	---	ND	---	ND
	21-Apr-06	NR	50.0	ND	ND	---	---	---	---	ND	ND	ND	ND	76	---	---	---	ND	---	ND
	12-Oct-06	NR	50.0	ND	ND	---	---	---	---	ND	ND	ND	ND	172	---	---	---	ND	---	ND
	26-Apr-07	NR	10.0	ND	ND	---	---	---	---	ND	ND	ND	ND	30	---	---	---	ND	---	ND
	10-Oct-07	0.20	10.0	7.5 B	5.3 B	---	---	---	---	3.8 B	3 B	7.4 B	6.8 B	55	---	---	---	5.2 B	---	6.6
NC 2L = 1,050 µg/L (10/23/07)	2-Apr-08	0.04	10.0	5.5 B	14 B	---	---	---	---	3.3 B	2.1 B	4.4 B	1.6 B	37	---	---	---	11 B	---	6.3 J
	28-Oct-08	0.04	10.0	6.8 J	6.6 J	---	---	---	---	7.8 J	3.8 J	8.7 J	3 J	415	---	---	---	6.8 J	---	0.4 J
Resample	23-Dec-08	4.46	10.0	---	---	---	---	---	---	---	---	---	---	86	---	---	---	---	---	NA
	8-Apr-09	0.14	10.0	9.5 J	13	---	---	---	---	18	18	11	2.1 B	380	---	---	---	6.4 J	---	0.8 J
Resample	1-Jun-09	0.14	10.0	---	---	---	---	---	---	---	---	---	---	26	---	---	---	---	---	---
	27-Oct-09	0.14	10.0	11	6.7 B	---	---	---	---	9.0 J	5 B	6.6 B	4.2 B	640	---	---	---	7.0 B	---	1.4 J
NC 2L = 1,000 µg/L (01/01/10) Resample	12-Feb-10	0.14	10.0	---	---	---	---	---	---	---	---	---	---	158	---	---	---	---	---	---
	8-Apr-10	0.08	10.0	12	9.7 J	---	---	---	---	32	2.6 B	8 J	5.1 J	177	---	---	---	7.3 J	---	0.7 J
	13-Oct-10	0.08	10.0	7 B	14 B	---	---	---	---	10 B	4.4 B	9.5 B	13 B	362	---	---	---	9.9 B	---	4.1 J
Resample	1-Dec-10	0.08	10.0	---	---	---	---	---	---	---	---	---	---	106.0	---	---	---	---	---	---
	27-Apr-11	0.24	10.0	4.4 B	3.2 B	---	---	---	---	8.7 J	1.8 B	8.1 J	3.1 B	118.0	---	---	---	5.3 B	---	1.1 J
	20-Oct-11	0.24	10.0	3.6 J	5.4 J	---	---	---	---	11	2.1 J	6 J	3.9 J	152.0	---	---	---	5.9 J	---	0.3 J
	26-Apr-12	0.24	10.0	6.5 B	4.3 B	---	---	---	---	11	4.8 B	8.9 B	6.4 B	150.0	---	---	---	5.7 B	---	1.9 J
	16-Oct-12	0.48	10.0	5.9 J	7.2 J	---	---	---	---	12	4 J	7.6 J	3.1 J	107	---	---	---	5 J	---	ND
	11-Apr-13	0.47	10.0	9.9 J	2.9 B	---	---	---	---	11	3.2 B	9.8 J	5.4 J	60	---	---	---	6.2 J	---	0.88 J
	30-Oct-13	0.47	10.0	15 B	6.9 B	---	---	---	---	5.1 B	3.3 B	11 B	3.8 B	112	---	---	---	6.1 B	---	3.2 J
	9-Apr-14	0.47	10.0	6.5 J	7.8 J	---	---	---	---	3.3 J	1.6 J	8.4 J	3.7 J	151	---	---	---	4.7 J	---	ND
	22-Oct-14	0.53	10.0	3.8 J	6.4 J	---	---	---	---	6.2 J	2.0 J	7.8 J	3.6 J	93	---	---	---	2.8 J	---	ND

TABLE 6

HISTORICAL DETECTIONS in GROUNDWATER
C.R.S.W.M.A. TUSCARORA INTERIM REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	IRL-1S	IRL-1D	IRL-2S	IRL-2SA	IRL-2D	IRL-2DA	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	IRL-5D	IRL-6S	IRL-6D	MW-A	MW-B	Blanks
Organic Compounds																				
1,1-Dichloroethylene	10-Oct-07	0.14	5.0	ND	ND	---	---	---	---	ND	ND	ND	ND	2.8 J	---	---	---	3.1 J	---	ND
NC 2L = 7 µg/L (10/23/07) Resample	4-Dec-07	0.56	1.0	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	ND	---	ND
	2-Apr-08	0.14	5.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	28-Oct-08	0.14	5.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	8-Apr-09	0.14	5.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	27-Oct-09	0.17	5.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	8-Apr-10	0.17	5.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	13-Oct-10	0.17	5.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	27-Apr-11	0.17	5.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	20-Oct-11	0.17	5.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	26-Apr-12	0.17	5.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	16-Oct-12	0.17	5.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
NC 2L = 350 µg/L (04/01/2013)	11-Apr-13	0.17	5.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	30-Oct-13	0.17	5.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	9-Apr-14	0.17	5.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	22-Oct-14	0.17	5.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
2-Butanone	10-Oct-07	0.85	100.0	2.7 J	3.3 J	---	---	---	---	4 J	4 J	3 J	4.4 J	2.7 J	---	---	---	4 J	---	ND
NC 2L = 4,200 µg/L (10/23/07) Resample	4-Dec-07	0.96	5.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	2-Apr-08	0.85	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	28-Oct-08	0.85	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	8-Apr-09	0.85	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	27-Oct-09	2.21	100.0	ND	ND	---	---	---	---	2.6 J	2.8 J	5.2 J	2.9 J	2.9 J	---	---	---	3 J	---	ND
NC 2L = 4,000 µg/L (1/1/10)	8-Apr-10	2.21	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	13-Oct-10	2.21	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	2.5 J	---	---	---	ND	---	ND
	27-Apr-11	2.21	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	20-Oct-11	2.21	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	26-Apr-12	2.21	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	16-Oct-12	2.21	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	11-Apr-13	2.21	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	30-Oct-13	2.21	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	9-Apr-14	2.21	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	22-Oct-14	2.21	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
Acetone	10-Oct-07	1.210	100.0	2.2 J	2.7 J	---	---	---	---	7.4 J	3.4 J	2.6 J	4.9 J	ND	---	---	---	ND	---	ND
NC 2L = 700 µg/L (10/23/07) Resample	4-Dec-07	2.200	25.0	ND	ND	---	---	---	---	ND	ND	ND	ND	---	---	---	---	---	---	ND
	2-Apr-08	1.210	100.0	3.5 B	6.6 B	---	---	---	---	4.9 B	4.9 B	4 B	3.6 B	3.9 B	---	---	---	4.20 B	---	1.50 J
	28-Oct-08	1.210	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	1.9 J	---	---	---	ND	---	ND
	8-Apr-09	1.210	100.0	ND	ND	---	---	---	---	ND	1.4 J	ND	ND	1.4 J	---	---	---	ND	---	ND
	27-Oct-09	9.060	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
NC 2L = 6,000 µg/L (1/1/10)	8-Apr-10	9.060	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	13-Oct-10	9.060	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	27-Apr-11	9.060	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	20-Oct-11	9.060	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	26-Apr-12	9.060	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	16-Oct-12	9.060	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	11-Apr-13	9.060	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	30-Oct-13	9.060	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	10.3 J	---	---	---	ND	---	ND
	9-Apr-14	9.060	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	22-Oct-14	9.060	100.0	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
Chloromethane	10-Oct-07	0.18	1.00	0.5 J	0.6 J	---	---	---	---	0.8 J	0.7 J	0.5 J	0.9 J	0.5 J	---	---	---	0.8 J	---	ND
NC 2L = 2.6 µg/L (10/23/07) Resample	4-Dec-07	0.11	1.00	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	2-Apr-08	0.18	1.00	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	28-Oct-08	0.18	1.00	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	8-Apr-09	0.18	1.00	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	27-Oct-09	0.77	1.00	ND	ND	---	---	---	---	ND	ND	0.9 J	ND	ND	---	---	---	ND	---	ND
NC 2L = 3 µg/L (1/1/10)	8-Apr-10	0.77	1.00	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	13-Oct-10	0.77	1.00	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	27-Apr-11	0.77	1.00	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	20-Oct-11	0.77	1.00	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	26-Apr-12	0.77	1.00	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	16-Oct-12	0.77	1.00	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	11-Apr-13	0.77	1.00	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	30-Oct-13	0.77	1.00	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	9-Apr-14	0.77	1.00	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND
	22-Oct-14	0.77	1.00	ND	ND	---	---	---	---	ND	ND	ND	ND	ND	---	---	---	ND	---	ND

Notes:
All concentrations are in micrograms per liter (µg/L)
IRL = Interim Regional Landfill monitoring well
RL = Laboratory reporting limit (NC SWSL or lower from October 2007 to present).
ND = Not detected above laboratory reporting limit.
B = Blank-qualified data; result is expected to be biased high based on concentrations in the blanks.
NC 2L = North Carolina 2L Groundwater Standards.
GWPS = Groundwater Protection Standards.
When the NC 2L has not been established, the GWPS will be used.
Shaded values are above the NC 2L Groundwater Standards or Groundwater Protection Standards.
DL = Laboratory detection limit.
J = Estimated value between the DL and the RL
--- = Not sampled and/or not monitored

TABLE 7

SUMMARY OF FIELD PARAMETERS
C.R.S.W.M.A. TUSCARORA INTERIM REGIONAL LANDFILL

Analyte	Sample Collection Date	IRL-1S	IRL-1D	IRL-2S	IRL-2SA	IRL-2D	IRL-2DA	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	IRL-5D	IRL-6S	IRL-6D	MW-A	MW-B
Inorganic Compounds																	
Conductivity (at 25c)	1-Jun-93	1000.00	480.00	30.00	---	580.00	---	430.000	520.000	370.000	600.000	800.000	590.000	310.000	460.000	---	---
	1-Aug-93	59.00	240.00	110.00	---	360.00	---	370.00	300.00	240.00	330.00	600.00	290.00	110.00	260.00	---	---
	1-Sep-93	75.00	300.00	150.00	---	530.00	---	420.00	450.00	250.00	460.00	880.00	400.00	150.00	400.00	---	---
	1-Sep-93	74	280.00	150	---	520.00	---	360.00	440.00	270.00	460.00	860.00	360.00	130.00	390.00	---	---
	1-Apr-94	76.00	350.00	140.00	---	570.00	---	360.00	620.00	290.00	560.00	990.00	460.00	77.00	460.00	---	---
	1-Oct-94	130	280.00	130	---	820.00	---	570.00	820.00	270.00	730.00	1000.00	82.00	82.00	420.00	---	---
	1-Apr-95	67	360.00	160	---	560.00	---	240.00	670.00	290.00	520.00	1900.00	490.00	69.00	450.00	---	---
	1-Oct-95	65	270.00	260	---	660.00	---	260.00	700.00	330.00	520.00	1300.00	480.00	75.00	450.00	---	---
	1-Apr-96	79	360.00	340	---	580.00	---	700.00	320.00	290.00	520.00	1500.00	450.00	77.00	440.00	---	---
	1-Oct-96	63.00	---	---	---	---	---	410.00	530.00	250.00	400.00	1000.00	---	87.00	---	---	---
	1-Apr-97	80	---	640.00	---	---	---	330.00	690.00	270.00	530.00	1800.00	---	---	---	---	---
	1-Oct-97	84.00	---	630.00	---	---	---	720.00	270.00	270.00	490.00	1200.00	---	---	---	---	---
	1-Apr-98	73	---	700	---	---	---	360.00	770.00	240.00	520.00	1400.00	---	110.00	---	---	---
	1-Oct-98	74	---	600	---	---	---	480.00	750.00	230.00	490.00	1200.00	---	---	---	---	---
	1-Mar-99	77	---	810	---	---	---	880.00	760.00	760.00	520.00	1200.00	---	---	---	---	---
	1-Oct-99	74	---	---	---	---	---	960.00	710.00	490.00	490.00	800.00	---	---	---	---	---
	1-Apr-00	74	---	---	---	---	---	1100.00	1400.00	170.00	500.00	900.00	---	---	---	---	---
	1-Oct-00	76	---	---	---	---	---	1100.00	720.00	230.00	500.00	900.00	---	---	---	---	---
	1-Apr-14	67	---	---	64	---	---	1100.00	710.00	190.00	470.00	840.00	---	---	---	---	---
	1-Oct-14	74	---	---	170.00	---	---	1000.00	710.00	200.00	500.00	1700.00	---	---	---	---	---
	2-Apr-14	68	---	---	120.00	---	---	950.00	710.00	200.00	450.00	1700.00	---	---	---	90.00	120.00
	2-Oct-14	19	---	---	448.00	---	---	970.00	830.00	192.00	550.00	1848.00	---	---	---	98.00	132.00
	3-Apr-14	100	---	---	329.00	---	---	1082.00	804.00	215.00	486.00	1024.00	---	---	---	86.00	157.00
	3-Oct-14	96	---	---	182.00	---	---	1110.00	849.00	205.00	506.00	1393.00	---	---	---	81.00	180.00
	15-Apr-04	64	---	---	120.00	---	---	700.00	600.00	170.00	360.00	990.00	---	---	---	56.00	100.00
	14-Oct-04	99	---	---	183.00	---	---	775.00	712.00	239.00	482.00	1188.00	---	---	---	86.00	123.00
	5-Apr-05	96	---	---	---	---	---	1033.00	942.00	287.00	601.00	1491.00	---	---	---	89.00	---
	27-Oct-05	105	195.00	---	---	---	---	876	775.00	250	502	1,323	---	---	---	91	---
	21-Apr-06	104	231.00	---	---	---	---	927.00	736.00	271.00	553.00	1424.00	---	---	---	79.00	---
	12-Oct-06	101	164	---	---	---	---	784	672.00	278	515	126	---	---	---	87	---
	26-Apr-07	103	155	---	---	---	---	850	721.00	287	536	1,287	---	---	---	75	---
	10-Oct-07	105	192	---	---	---	---	850	702.00	354	550	1,570	---	---	---	98	---
Resample	4-Dec-07	109.2	357	---	---	---	---	963	1052.00	379.00	610	1,829	---	---	---	108.7	---
	2-Apr-08	109	169	---	---	---	---	1,096	713.00	253.00	540	1,272	---	---	---	86	---
	28-Oct-08	109	217	---	---	---	---	935	931.00	266.00	533	1,468	---	---	---	103	---
	8-Apr-09	106	215	---	---	---	---	1,092	894.00	283.00	541	1,265	---	---	---	95	---
	27-Oct-09	93	170	---	---	---	---	898	824.00	372.00	522	1,144	---	---	---	91	---
	8-Apr-10	103	220	---	---	---	---	1,030	860.00	338.00	576	1,538	---	---	---	94	---
	13-Oct-10	119	187	---	---	---	---	889	753.00	464.00	557	1,303	---	---	---	93	---
	27-Apr-11	156	252	---	---	---	---	982.00	734.00	505.00	605.00	1472.00	---	---	---	104	---
	20-Oct-11	124	178	---	---	---	---	839.00	667.00	467.00	576.00	1310.00	---	---	---	102	---
	26-Apr-12	132	219	---	---	---	---	931.00	653.00	514.00	585.00	1553.00	---	---	---	107	---
	16-Oct-12	139	193	---	---	---	---	886.00	628.00	532.00	574.00	1502.00	---	---	---	102	---
	11-Apr-13	131.00	277	---	---	---	---	834.00	605.00	580.00	571.00	1300.00	---	---	---	101	---
	30-Oct-13	113.00	170	---	---	---	---	731.00	588.00	569.00	572.00	1110.00	---	---	---	101	---
	9-Apr-14	261.00	153	---	---	---	---	927.00	595.00	511.00	582.00	1568.00	---	---	---	112	---
	22-Oct-14	164	208	---	---	---	---	795	607	501	572	1507	---	---	---	112	---
pH	1-Jun-93	5.30	6.3	6.10	---	6.20	---	5.40	6.30	5.70	6.10	6.00	6.40	5.80	6.20	---	---
[standard units]	1-Aug-93	5.50	6.5	6.30	---	6.80	---	6.00	6.80	6.40	6.9	6.20	6.80	6.30	7.00	---	---
	1-Sep-93	5.90	6.6	5.70	---	6.50	---	5.90	6.50	6.70	7	6.10	6.60	6.50	6.70	---	---
	1-Sep-93	6.10	6.5	5.80	---	6.10	---	5.90	6.50	5.70	6.3	6.40	6.90	6.60	6.60	---	---
	1-Apr-94	5.90	6.1	5.40	---	6.40	---	5.70	6.50	6.20	6.7	6.40	6.80	6.40	6.70	---	---
	1-Oct-94	5.20	6.4	5.20	---	6.70	---	5.70	6.70	6.00	6.8	6.20	7.00	5.50	6.80	---	---
	1-Apr-95	5.70	6.1	5.50	---	6.40	---	6.00	6.20	6.20	6.6	6.20	3.80	6.20	6.60	---	---
	1-Oct-95	5.00	6.4	5.60	---	6.70	---	5.40	6.60	5.90	6.8	6.20	6.90	5.30	7.00	---	---
	1-Apr-96	5	6.3	5.80	---	6.60	---	6.70	6.00	6.10	6.70	6.40	7.00	5.50	6.60	---	---
	1-Oct-96	5.2	---	---	---	---	---	6.00	6.00	6.4	6.400	5.800	---	6.000	---	---	---
	1-Apr-97	6.1	---	6.3	---	---	---	6.20	6.50	6.10	6.60	6.20	---	---	---	---	---
	1-Oct-97	5.3	---	5.8	---	---	---	6	6	6	6.10	5.80	---	---	---	---	---
	1-Apr-98	5.8	---	6.5	---	---	---	5.4	6.4	5.6	6.80	6.10	---	5.20	---	---	---
	1-Oct-98	5.5	---	6.1	---	---	---	5.6	6.3	5.7	6.70	6.00	---	---	---	---	---
	1-Mar-99	5.2	---	6.3	---	---	---	6	7	6	6.70	6.00	---	---	---	---	---
	1-Oct-99	4.9	---	---	---	---	---	6	6	7	6.80	5.70	---	---	---	---	---
	1-Apr-00	5.2	---	---	---	---	---	6	6	6	6.90	5.80	---	---	---	---	---
	1-Oct-00	4.8	---	---	---	---	---	6	6	6	6.60	5.20	---	---	---	---	---
	1-Apr-14	4.9	---	---	4.8	---	---	6	7	5	6.60	5.50	---	---	---	---	---
	1-Oct-14	5	---	---	5	---	---	6	7	6	6.90	6.10	---	---	---	---	---
	2-Apr-14	4.7	---	---	4.3	---	---	6	6	5	6.40	6.00	---	---	---	5	4.50
	2-Oct-14	5.1	---	---	4.1	---	---	6.0	6.4	5	7.00	6.10	---	---	---	5	4.70
	3-Apr-14	5.1	---	---	4.3	---	---	6.1	6.5	5.3	6.80	5.80	---	---	---	5	4.70
	3-Oct-14	4.8	---	---	4.3	---	---	5.8	6.3	5.1	6.70	5.90	---	---	---	5	4.80
	15-Apr-04	5.3	---	---	4.4	---	---	6.4	5.6	5.8	6.8	6.4	---	---	---	5	5.80
	14-Oct-04	4.9	---	---	4.4	---	---	6.1	6.5	5.3	6.9	6.1	---	---	---	5	4.80
	5-Apr-05	5.1	---	---	---	---	---	6.3	6.7	5.2	7.0	6.1	---	---	---	5	---
	27-Oct-05	4.9	6.60	---	---	---	---	6.0	6.5	5.1	6.9	6.2	---	---	---	5	---
	21-Apr-06	5	6.30	---	---	---	---	6.2	7.00	5.4	7.9	6.0	---	---	---	5	---
	12-Oct-06	5	6.10	---	---	---	---	6.2	6.60	5.1	6.8	6.1	---	---	---	5	---
	26-Apr-07	4.9	6.10	---	---	---	---	6.2	6.70	5.4	6.9	6.1	---	---	---	5	---
	10-Oct-07	5.2	6.20	---	---	---	---	6.2	6.80	5.8	7.0	6.4	---	---	---	5	---
Resample	4-Dec-07	6.6	6.29	---	---	---	---	7.1	6.60	6.6	7.4	6.3	---	---	---	7	---
	8-Apr-08	4.9	6.70	---	---	---	---	5.6	6.80	5.2	6.8	6	---	---	---	5	---
	28-Oct-08	4.7	6.30	---	---	---	---	6.0	6.50	5.3	6.9	6.3	---	---	---	5	---
	8-Apr-09	4.9	6.00	---	---	---	---	5.5	6.40	4.9	6.7	8.5	---	---	---	5	---
	27-Oct-09	4.8	6.20	---	---	---	---	5.8	6.30	5.3	6.8	6	---	---	---	4.9	---
	8-Apr-10	4.7	6.30	---	---	---	---	5.60	6.50	4.80	6.90	6.10	---	---	---	5.00	---
	13-Oct-10	5.2	6.3	---	---	---	---	5.8	6.50	5.3	6.7	6.1	---	---	---	5.1	---
	27-Apr-11	4.9	6.3	---	---	---	---	5.6	6.60	5	6.7	6	---	---	---	4.9	---
	20-Oct-11	4.6	6.3	---	---	---	---	5.9	6.70	6.1	6.9	4.7	---	---	---	4.9	---
	26-Apr-12	4.6	6.2	---	---	---	---	5.7	6.70	4.9	6.8	6	---	---	---	5	---
	16-Oct-12	4.5	6.2	---	---	---	---	5.9	6.80	4.9	6.9	6.2	---	---	---	5.2	---
	11-Apr-13	4.8	6.3	---	---	---	---	5.5	6.7	4.7	6.9	6.1	---	---	---	5	---
	30-Oct-13	5.1	6.3	---	---	---	---	6.1	6.90	5.2	6.9	6.2	---	---	---	5.3	---
	9-Apr-14	6.3	4.8	---	---	---	---	5.9	6.70	5.1	6.8	6.2	---	---	---	5.1	---
	22-Oct-14	4.3	6.0	---	---	---	---	6.0	6.70	4.8	6.8	6.2	---	---	---	5.0	---
Temperature	1-Jun-93	22	20	23	---	20.00	---	23	22.00	23.0	21	23	21	22	21	---	---
[oC]	1-Aug-93	23	20	22	---	21.00	---	22	22.00	23.0	20.0	24	21.0	23	20	---	---
	1-Sep-93	23	20	24	---	20.00	---	25.0	20.00	24.0	20.0	25.0	20.0	24.0	21.0	---	---
	1-Sep-93	23	21	24	---	21.00	---	24.0	21.00	23	20	24.0	22	24.0	21.0	---	---
	1-Apr-94	18	18	17	---	17.00	---	16.0	16.00	15.0	16.0	16.0	16.0	15.0	15.0	---	---
	1-Oct-94	21	18	21	---	20.00	---	21.0	19.00	21.0	19.0	21.0	20.0	21.0	20.0	---	---
	1-Apr-95	15	15	15	---	17.00	---	16.0	16.00	16.0	16.0	16.0	16.0	15.0	16.0	---	---
	1-Oct-95	22.00	20	22.00	---	20.00	---	22.00	20.00	22.00	22.0	22.00	21.00	22.0	20.00	---	---
	1-Apr-96	12.0	13	13.0	---	14.00	---	13.0	13.00	13.0	13.0	13	14.0	12.0	12.0	---	---
	1-Oct-96	20.0	---	---	---	---	---	22.0	22.00	22.0	22	22	---	22	---	---	---
	1-Apr-97	13.00	---	14.00	---	---	---	15.00	14.00	15.00	15	14.00	---	---	---	---	---
	1-Oct-97	18.00	---	21.00	---	---	---	17.00	19.00	19.0	18	20.0	---	---	---	---	---
	1-Apr-98	15.0	---	16.0	---	---	---	15.0	16.00	15.0	17	15.0	---	15.0	---	---	---
	1-Oct-98	19.0	---	21.0	---	---	---	21.0	19.00	21.0	20	21.0	---	---	---	---	---
	1-Mar-99	12.0	---	16.0	---	---	---	17.0	17.00	17.0	18	17.0	---	---	---	---	---
	1-Oct-99	21.00	---	---	---	---	---	20.0	20.00	21.0	21.0	21.0	---	---	---	---	---
	1-Apr-00	15.00	---	---	---	---	---	15.0	17.00	19.0	18.0	15.0	---	---	---	---	---
	1-Oct-00	18	---	---	---	---	---	18.00	20.00	21.00	20.00	16.00	---	---	---	---	---
	1-Apr-14	15	---	---	15	---	---	18.0	17.0	16.0	15.0	15.0	---	---	---	---	---
	1-Oct-14	19	---	---	20	---	---	20	20	21	21	21	---	---	---	---	---
	2-Apr-14	15	---	---	16	---	---	15.0	15.0	16.0	17	17	---	---	---	17.0	16
	2-Oct-14	24	---	---	26	---	---	23.0	22.0	24.0	23	24	---	---	---	25.0	25
	3-Apr-14	15	---	---	17	---	---	16	16	15	16	17	---	---	---	16	16
	3-Oct-14	20	---	---	21	---	---	21.0	20.0	21.0	22	21	---	---	---	21.0	21
	15-Apr-04	13	---	---	14	---	---	13.0	13.0	14.0	14	15	---	---	---	13.0	13
	14-Oct-04	20	---	---	21	---	---	21	21	22	22	22	---	---	---	21	21
	5-Apr-05	15	---	---	---	---	---	15.0	15.0	15.0	15	15	---	---	---	15.0	---
	27-Oct-05	20	17	---	---	---	---	22.0	22.0	23.0	23	23	---	---	---	21.0	---
	21-Apr-06	20	18	---	---	---	---	14.0	16.0	15.0	15	18	---	---	---	18.0	---
	12-Oct-06	20	18	---	---	---	---	22.0	19.0	23.0	21	23	---	---	---	21.0	---
	26-Apr-07	16	17	---	---	---	---	17.0	18.0	16.0	18	17	---	---	---	17.0	---
	10-Oct-07	19	18	---	---	---	---	22.0	19.0	23.0	20	24	---	---	---	20.0	---
Resample	4-Dec-07	16.7	16.7	---	---	---	---	18.2	16.8	18.6	18.8	18.7	---	---	---	16.9	---
	2-Apr-08	15	17	---	---	---	---	17.0	17.0	16.0	19.0	16.0	---	---	---	16.0	---
	28-Oct-08	19	19	---	---	---	---	20	20	21	21	19	---	---	---	19.0	---
	8-Apr-09	14	16	---	---	---	---	14.0	16.0	15.0	16.0	15.0	---	---	---	14.0	---
	27-Oct-09	20	19	---	---	---	---	21.0	20.0	21.0	21.0	22.0	---	---	---	21.0	---
	8-Apr-10	17	17	---	---	---	---	15.0	16.00	15.0	17.0	16.0	---	---	---	16.0	---
	13-Oct-10	21	20	---	---	---	---	21.0	20.00	22.0	21.0	23.0	---	---	---	22.0	---
	27-Apr-11	17	16	---	---	---	---	16.0	17.00	17.0	18.0	17.0	---	---	---	17.0	---
	20-Oct-11	20	18	---	---	---	---	21.0	19.00	21.0	19.0	21.0	---	---	---	20.0	---
	26-Apr-12	17	17	---	---	---	---	17.0	17.00	16.0	18.0	17.0	---	---	---	17.0	---
	16-Oct-12	21	19	---	---	---	---	21.0	20.00	22.0	21.0	22.0	---	---	---	22.0	---
	11-Apr-13	15	17	---	---	---	---	15.0	17.00	14.0	17.0	15.0	---	---	---	15.0	---
	30-Oct-13	20.0	19	---	---	---	---	21.0	20.00	21.0	19.0	21.0	---	---	---	21.0	---
	9-Apr-14	16.0	15	---	---	---	---	14.0	15.00	13.0	15.0	13.0	---	---	---	16.0	---
	22-Oct-14	21	20	---	---	---	---	21	21	21	21	21	---	---	---	21	---

TABLE 7

SUMMARY OF FIELD PARAMETERS
C.R.S.W.M.A. TUSCARORA INTERIM REGIONAL LANDFILL

Analyte	Sample Collection Date	IRL-1S	IRL-1D	IRL-2S	IRL-2SA	IRL-2D	IRL-2DA	IRL-3S	IRL-3D	IRL-4S	IRL-4D	IRL-5S	IRL-5D	IRL-6S	IRL-6D	MW-A	MW-B
Turbidity	1-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
[NTU]	1-Aug-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1-Oct-94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1-Apr-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1-Oct-95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1-Apr-96	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1-Oct-96	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1-Apr-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1-Oct-97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1-Apr-98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1-Oct-98	---	---	130.0	---	---	---	60	180.00	220	190	650	---	---	---	---	---
	1-Mar-99	650	---	290.0	---	---	---	85	180.00	180	270	95	---	---	---	---	---
	1-Oct-99	600	---	---	---	---	---	10	23.00	17	17	5.9	---	---	---	---	---
	1-Apr-00	170.00	---	---	---	---	---	18.00	40.00	33.00	40.0	13.00	---	---	---	---	---
	1-Oct-00	700.0	---	---	---	---	---	31.0	90.00	7.1	34.0	21.0	---	---	---	---	---
	1-Apr-14	140.0	---	---	50.0	---	---	21.0	60.00	12.0	27.0	10.0	---	---	---	---	---
	1-Oct-14	106.00	---	---	68.0	---	---	74.00	139.00	34.00	18	26.00	---	---	---	---	---
	2-Apr-14	90.00	---	---	12.0	---	---	40.0	35.00	5.3	25	19.0	---	---	---	140	5.9
	2-Oct-14	280.0	---	---	19.0	---	---	45.0	100.00	9.2	38	100.0	---	---	---	75	4.0
	3-Apr-14	90.0	---	---	6.9	---	---	45.0	110.00	9.4	39	27.0	---	---	---	110	8.8
	3-Oct-14	65.0	---	---	13.0	---	---	31.0	30.00	19.0	60	55.0	---	---	---	160	40.0
	15-Apr-04	200.0	---	---	100.0	---	---	45.0	35.00	37.0	32.0	36.0	---	---	---	110.0	13.0
	14-Oct-04	75.0	---	---	13.0	---	---	85.0	80.00	8.9	240.0	80.0	---	---	---	95.0	5.9
	5-Apr-05	100	---	---	---	---	---	40.00	18.00	13.00	25.00	32.00	---	---	---	75.00	---
	27-Oct-05	90.0	>1,000	---	---	---	---	22	29.0	14.0	36	19	---	---	---	85	---
	21-Apr-06	8.9	14	---	---	---	---	5.5	32	7.3	53	25	---	---	---	4.1	---
	12-Oct-06	5.1	40	---	---	---	---	21	140	1.6	37	170	---	---	---	20	---
	26-Apr-07	7	4	---	---	---	---	22	160	200	200	90	---	---	---	25	---
	10-Oct-07	11	10	---	---	---	---	58.0	65	12	45	110	---	---	---	22	---
Resample	4-Dec-07	79.4	14.97	---	---	---	---	15	525.0	47.5	64.6	9.42	---	---	---	73.3	---
	2-Apr-08	40	9.5	---	---	---	---	3.5	28	7.7	55	11	---	---	---	20	---
	28-Oct-08	80	50	---	---	---	---	36	37	36	40	38	---	---	---	86	---
	8-Apr-09	130	56	---	---	---	---	90	260	120	38	32	---	---	---	90	---
	27-Oct-09	270	55	---	---	---	---	85	85.0	23	70	62	---	---	---	65	---
	8-Apr-10	160	39	---	---	---	---	75	65	18	40	75	---	---	---	65	---
	13-Oct-10	10	85	---	---	---	---	34	75	35	50	170	---	---	---	140	---
	27-Apr-11	16	29	---	---	---	---	44	110	31	70	65	---	---	---	50	---
	20-Oct-11	12	55	---	---	---	---	45	130.00	34	85	90	---	---	---	85	---
	26-Apr-12	85	45	---	---	---	---	31	120.00	85	60	85	---	---	---	65	---
	16-Oct-12	18	55	---	---	---	---	75	110.00	18.0	50	140	---	---	---	45	---
	11-Apr-13	150	25	---	---	---	---	35.00	130.00	19	45	110	---	---	---	65	---
	30-Oct-13	110	40	---	---	---	---	50	180.00	55	65	50.00	---	---	---	39	---
	9-Apr-14	31	45	---	---	---	---	75	80.00	24	65	100.00	---	---	---	130	---
	22-Oct-14	34	65	---	---	---	---	39	100	320	55	150	---	---	---	95	---

Notes:
1. --- = Data not available.

TABLE 8A

HISTORICAL DETECTIONS in GROUNDWATER
C.R.S.W.M.A. TUSCARORA LONG-TERM REGIONAL LF PHASES 1 and 2

	Sample			Background		Downgraidient										
Analyte	Collection Date	DL	SWSL	MW-12S	MW-12D	MW-7	MW-8	MW-9	MW-10	MW-11S	MW-11D	MW-13S	MW-13D	MW-14	MW-14R	Blanks
Inorganic Compounds																
Antimony	1-Jul-99	---	30	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Aug-99	---	30	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-99	---	30	---	---	ND	ND	**40**	ND	ND	ND	---	---	---	---	ND
	1-Nov-99	---	30	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Apr-00	---	30	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-00	---	30	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Apr-01	---	30	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-01	---	30	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	2-Apr-02	---	30	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-02	---	30	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Apr-03	---	30	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-03	---	30	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	15-Apr-04	---	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	ND
	14-Oct-04	---	30	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	5-Apr-05	---	30	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	27-Oct-05	---	30	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	21-Apr-06	---	30	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	12-Oct-06	---	30	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	---	---	ND
	26-Apr-07	---	6	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	---	---	ND
	11-Oct-07	0.05	6	ND	ND	0.1 B	ND	---	ND	ND	ND	ND	ND	---	0.1 B	0.1 J
GWPS = 1.4 µg/L (10/23/07)	3-Apr-08	0.44	6	ND	0.5 J	0.1 J	ND	---	ND	ND	0.5 J	0.1 J	ND	---	ND	ND
	28-Oct-08	0.44	6	0.1 J	ND	0.9 J	0.2 J	---	0.1 J	ND	ND	ND	ND	---	ND	ND
	8-Apr-09	0.06	6	0.1 J	0.2 J	0.1 J	ND	---	ND	ND	ND	0.9 J	0.2 J	---	0.1 J	ND
	27-Oct-09	0.06	6	0.1 J	0.6 J	ND	ND	---	ND	ND	ND	0.8 J	0.6 J	---	0.1 J	ND
	8-Apr-10	0.22	6	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	---	0.8 B	0.7 J
GWPS = 1 µg/L (8/1/10)	13-Oct-10	0.22	6	ND	ND	ND	ND	---	0.5 J	ND	ND	ND	ND	---	ND	ND
	27-Apr-11	0.14	6	ND	ND	ND	0.37 J	---	0.22 J	0.17 J	ND	ND	ND	---	ND	ND
	20-Oct-11	0.14	6	ND	ND	0.19 J	ND	---	ND	ND	ND	ND	ND	---	0.34 J	ND
	26-Apr-12	0.14	6	ND	ND	ND	ND	---	ND	ND	0.4 J	ND	ND	---	ND	ND
	16-Oct-12	0.02	6.0	ND	0.76 J	0.15 J	0.17 J	---	0.13 J	0.06 J	0.18 J	0.02 J	0.2 J	---	0.04 J	ND
	11-Apr-13	0.02	6.0	0.07 J	0.09 J	0.12 J	0.43 J	---	0.1 J	0.07 J	0.08 J	0.06 J	0.09 J	---	0.17 J	ND
	30-Oct-13	0.02	6.0	0.15 B	0.94 J	0.24 B	0.12 B	---	0.1 B	0.13 B	0.38 B	0.24 B	0.5 J	---	0.25 B	0.08 J
	9-Apr-14	0.02	6.0	0.33 B	1 B	0.14 B	0.18 B	---	0.79 B	0.41 B	0.11 B	0.13 B	0.14 B	---	0.31 B	0.66 J
	22-Oct-14	0.12	6.0	ND	0.25 J	ND	ND	---	0.33 J	ND	0.81 J	0.41 J	ND	---	0.44 J	ND
Arsenic	1-Jul-99	---	10.0	---	---	37	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Aug-99	---	10.0	---	---	13	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-99	---	10.0	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Nov-99	---	10.0	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Apr-00	---	10.0	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-00	---	10.0	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Apr-01	---	10.0	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-01	---	10.0	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	2-Apr-02	---	10.0	ND	ND	10	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-02	---	10.0	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Apr-03	---	10.0	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-03	---	10.0	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	15-Apr-04	---	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	ND
	14-Oct-04	---	10.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	5-Apr-05	---	10.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	27-Oct-05	---	10.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	21-Apr-06	---	10.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	12-Oct-06	---	10.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	---	---	ND
	26-Apr-07	---	10.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	---	---	ND
	11-Oct-07	0.47	10.0	6.6 J	ND	3.5 J	4.3 J	---	1.8 J	0.5 J	ND	9.4 J	ND	---	1.0 J	ND
NC 2L = 50 µg/L (10/23/07)	3-Apr-08	0.57	10.0	1.4 J	ND	1 B	1.3 J	---	4.1 J	0.2 B	ND	1.3 J	ND	---	0.2 B	0.2 J
	28-Oct-08	0.57	10.0	1 B	0.8 B	2.4 B	5.3 J	---	3.1 J	0.4 B	0.2 B	1.3 B	0.5 B	---	0.7 B	0.5 J
	8-Apr-09	0.17	10.0	1.2 J	0.8 B	1.2 J	3.9 J	---	3.5 J	1 B	0 B	2 J	0.4 B	---	0.4 B	0.2 J
	27-Oct-09	0.17	10.0	1 J	0.8 J	1.7 J	5 J	---	2.3 J	0 J	0 J	1 J	0.7 J	---	0.8 J	ND
NC 2L = 10 µg/L (1/1/10)	8-Apr-10	0.04	10.0	0.4 J	ND	0.7 J	2.5 J	---	2.9 J	ND	ND	2 J	ND	---	0.2 J	ND
	13-Oct-10	0.04	10.0	0.9 J	1 J	1 J	2.3 J	---	3.4 J	0 J	0 J	2 J	0.7 J	---	1.2 J	ND
	27-Apr-11	0.10	10.0	0.28 J	ND	2.9 J	1.5 J	---	2.4 J	0 J	ND	1 J	ND	---	0.2 J	ND
	20-Oct-11	0.10	10.0	0.36 J	0.51 J	2.8 J	1.3 J	---	2.7 J	0.43 J	ND	1 J	0.2 J	---	1.4 J	ND
	26-Apr-12	0.10	10.0	0.24 J	0.56 J	1.9 J	1.6 J	---	8 J	0.55 J	ND	1 J	0.4 J	---	1.9 J	ND
	16-Oct-12	0.13	10.0	0.22 B	ND	1.3 B	1.2 B	---	2.4 J	0.56 B	ND	0.93 B	0.2 B	---	5.1 J	0.4 J
	11-Apr-13	0.05	10.0	0.33 B	0.31 B	1.3 J	2.1 J	---	2.1 J	0.92 J	0.41 J	1.6 J	0.31 B	---	4.3 J	0.15 J
	30-Oct-13	0.05	10.0	0.46 B	1.4 J	0.93 B	2 J	---	2.8 J	0.58 B	0.19 B	1.2 J	0.28 B	---	4.9 J	0.2 J
	9-Apr-14	0.05	10.0	ND	1.6 J	0.82 J	1 J	---	3 J	ND	ND	1.1 J	ND	---	2.7 J	ND
	22-Oct-14	0.10	10.0	ND	1.4 J	0.55 J	1.5 J	---	3.8 J	0.35 J	0.11 J	0.49 J	0.28 J	---	3.4 J	ND
Barium	1-Jul-99	---	500	---	---	869	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Aug-99	---	500	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-99	---	500	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Nov-99	---	500	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Apr-00	---	500	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-00	---	500	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Apr-01	---	500	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-01	---	500	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	2-Apr-02	---	500	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-02	---	500	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Apr-03	---	500	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-03	---	500.0	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	15-Apr-04	---	500.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	ND
	14-Oct-04	---	500.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	5-Apr-05	---	500.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	27-Oct-05	---	500.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	21-Apr-06	---	500.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	12-Oct-06	---	500.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	---	---	ND
	26-Apr-07	---	100.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	---	---	ND
	11-Oct-07	0.04	100.0	81.8 J	47.4 J	63.3 J	32.7 J	---	44.8 J	45.7 J	40.7 J	42.2 J	46.4 J	---	42.8 J	0.2 J
NC 2L = 2,000 µg/L (10/23/07)	3-Apr-08	0.11	100.0	88.6 J	36.7 J	67.3 J	43.6 J	---	40.1 J	45.8 J	44 J	43 J	35 J	---	44.9 J	0.4 J
	28-Oct-08	0.11	100.0	85.2 J	30.9 J	115.0	80.3 J	---	55.1 J	111	37.9 J	51.1 J	37.9 J	---	50.7 J	0.7 J
	8-Apr-09	0.04	100.0	109	33.6 J	61.0 J	82.8 J	---	66.5 J	52.4 J	42.8 J	59.4 J	50.4 J	---	99.7 J	0.2 J
	27-Oct-09	0.04	100.0	66.5 J	27.3 J	93 J	94.1 J	---	77.7 J	65.4 J	35.9 J	54.9 J	44.8 J	---	112	0.1 J
NC 2L = 700 µg/L (1/1/10)	8-Apr-10	0.03	100.0	82.1 J	26.8 J	46.4 J	79.9 J	---	53.9 J	35.2 J	39.2 J	45.5 J	45.4 J	---	132	0.1 J
	13-Oct-10	0.03	100.0	54.4 J	26.7 J	42.2 J	94.1 J	---	65.7 J	36.2 J	45.1 J	70.5 J	43.7 J	---	197	0.2 J
	27-Apr-11	0.02	100.0	64.9 J	26.1 J	52.1 J	86.4 J	---	55.5 J	33.7 J	38.6 J	56.9 J	44.4 J	---	128	0.1 J
	20-Oct-11	0.02	100.0	57.4 J	26.7 J	56 J	98.2 J	---	60 J	38.4 J	37.3 J	77.7 J	39.5 J	---	140	0.1 J
	26-Apr-12	0.02	100.0	55.1 J	24.2 J	53.4 J	92.2 J	---	78.1 J	28.2 J	43.2 J	71.2 J	50.5 J	---	94 J	0.12 J
	16-Oct-12	0.07	100.0	40.5 J	25.5 J	40.7 J	104	---	53 J	25.1 J	39.8 J	64.1 J	43.5 J	---	106	0.28 J
	11-Apr-13	0.06	100.0	42.2 J	47.0 J	43.7 J	99.1 J	---	48.5 J	23.1 J	42.3 J	82 J	47 J	---	69.6 J	0.06 J
	30-Oct-13	0.06	100.0	36.5 J	37.5 J	45.3 J	113	---	57 J	27.1 J	34.7 J	70 J	35.2 J	---	67.3 J	0.24 J
	9-Apr-14	0.06	100.0	44.8 J	40.6 J	39.2 J	132	---	64.2 J	19 J	44.7 J	96.7 J	50.8 J	---	57.6 J	ND
	22-Oct-14	0.12	100.0	35.9 J	39.0 J	36.6 J	124	---	60.6 J	28.5 J	42.3 J	85.6 J	40.4 J	---	73.0 J	ND

TABLE 8A

HISTORICAL DETECTIONS in GROUNDWATER
C.R.S.W.M.A. TUSCARORA LONG-TERM REGIONAL LF PHASES 1 and 2

	Sample			Background				Downgraident																		
Analyte	Collection Date	DL	SWSL	MW-12S		MW-12D		MW-7		MW-8		MW-9	MW-10		MW-11S		MW-11D		MW-13S		MW-13D		MW-14		MW-14R		Blanks	
Beryllium	1-Jul-99	---	2.0	---		---		5		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Aug-99	---	2.0	---		---		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Oct-99	---	2.0	---		---		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Nov-99	---	2.0	---		---		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Apr-00	---	2.0	---		---		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Oct-00	---	2.0	---		---		ND		ND		**6.0**	ND		ND		ND		---		---		---		---		ND	
	1-Apr-01	---	2.0	---		---		ND		ND		**5.0**	ND		ND		ND		---		---		---		---		ND	
	1-Oct-01	---	2.0	---		---		ND		2		**9.0**	ND		ND		ND		---		---		---		---		ND	
	2-Apr-02	---	2.0	ND		ND		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Oct-02	---	2.0	ND		ND		ND		ND		3	ND		ND		ND		---		---		---		---		ND	
	1-Apr-03	---	2.0	ND		ND		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Oct-03	---	2.0	ND		ND		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	15-Apr-04	---	2.0	ND		ND		ND		ND		ND	ND		ND		ND		ND		ND		ND		---		ND	
	14-Oct-04	---	2.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		ND		---		ND	
	5-Apr-05	---	2.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		ND		---		ND	
	27-Oct-05	---	2.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		ND		---		ND	
	21-Apr-06	---	2.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		ND		---		ND	
	12-Oct-06	---	2.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		---		ND	
	26-Apr-07	---	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		---		ND	
	11-Oct-07	0.08	1.0	0.1	J	ND		0.2	J	0.2	J	---	0.2	J	0.1	J	0.1	J	0.1	J	ND		---		0.1	J	ND	
GWPS = 4 µg/L (10/23/07)	3-Apr-08	0.06	1.0	0.3	J	ND		ND		0.3	J	---	0.2	J	1.5		0.1	J	0.3	J	ND		---		0.2	J	ND	
	28-Oct-08	0.06	1.0	0.9	J	0.1	J	0.4	J	0.8	J	---	0.3	J	1.2	J	0.1	J	0.4	J	ND		---		0.3	J	ND	
	8-Apr-09	0.06	1.0	0.6	J	0.1	J	0.1	J	0.7	J	---	0.3	J	2		0.1	J	0.4	J	0.1	J	---		0.4	J	ND	
	27-Oct-09	0.06	1.0	0.5	J	0.1	J	0.4	J	0.9	J	---	0.4	J	3		0.1	J	0.4	J	0.1	J	---		0.7	J	ND	
	8-Apr-10	0.02	1.0	0.6	J	0.1	B	0.2	B	0.6	J	---	0.3	B	2		0.1	B	0.3	B	0.1	B	---		0.7	J	0.1	J
GWPS = 4 µg/L (10/1/10)	13-Oct-10	0.02	1.0	0.5	J	0.1	J	0.1	J	0.7	J	---	0.4	J	3		0.1	J	0.3	J	0.1	J	---		1.2		ND	
	27-Apr-11	0.02	1.0	0.36	J	ND		0.11	J	0.47	J	---	0.31	J	3		ND		0.25	J	ND		---		1.0		ND	
	20-Oct-11	0.02	1.0	0.40	J	0.1	J	0.2	J	0.54	J	---	0.34	J	4		0.06	J	0.4	J	ND		---		0.32	J	ND	
	26-Apr-12	0.02	1.0	0.27	J	0.06	J	0.15	J	0.59	J	---	0.62	J	4		0.05	J	0.29	J	0.04	J	---		0.63	J	ND	
	16-Oct-12	0.07	1.0	0.22	J	ND		0.09	J	0.66	J	---	0.34	J	3		ND		0.3	J	ND		---		0.1	J	ND	
	11-Apr-13	0.03	1.0	0.25	J	ND		0.17	J	0.52	J	---	0.25	J	2		0.07	J	0.38	J	ND		---		0.21	J	ND	
	30-Oct-13	0.03	1.0	0.21	J	0.1	B	0.11	B	0.62	J	---	0.31	J	2		0.12	B	0.4	J	ND		---		0.1	B	0.04	J
	9-Apr-14	0.03	1.0	0.29	J	0.2	J	0.2	J	0.64	J	---	0.36	J	0.94	J	0.06	J	0.47	J	ND		---		0.1	J	ND	
	22-Oct-14	0.04	1.0	0.26	J	0.08	J	0.11	J	0.70	J	---	0.46	J	0.64	J	0.06	J	0.43	J	ND		---		0.04	J	ND	
Cadmium	1-Jul-99	---	1.0	---		---		1		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Aug-99	---	1.0	---		---		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Oct-99	---	1.0	---		---		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Nov-99	---	1.0	---		---		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Apr-00	---	1.0	---		---		ND		ND		ND	1.00		ND		ND		---		---		---		---		ND	
	1-Oct-00	---	1.0	---		---		ND		ND		2	ND		ND		ND		---		---		---		---		ND	
	1-Apr-01	---	1.0	---		---		ND		ND		**3**	ND		ND		ND		---		---		---		---		ND	
	1-Oct-01	---	1.0	---		---		ND		ND		2	ND		ND		ND		---		---		---		---		ND	
	2-Apr-02	---	1.0	ND		ND		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Oct-02	---	1.0	ND		ND		1		ND		2	ND		ND		ND		---		---		---		---		ND	
	1-Apr-03	---	1.0	ND		ND		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Oct-03	---	1.0	ND		ND		ND		ND		ND	1		ND		ND		---		---		---		---		ND	
	15-Apr-04	---	1.0	ND		2		ND		ND		ND	**3**		**3**		ND		ND		ND		ND		---		ND	
	14-Oct-04	---	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		1		ND		---		ND	
	5-Apr-05	---	1.0	ND		ND		1		ND		---	ND		ND		ND		ND		ND		ND		---		ND	
	27-Oct-05	---	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		ND		---		ND	
	21-Apr-06	---	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		ND		---		ND	
	12-Oct-06	---	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		---		ND	
	26-Apr-07	---	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		---		ND	
	11-Oct-07	0.06	1.0	0.2	B	0.1	B	0.6	J	0.1	B	---	0.1	B	1	B	0.1	B	0.1	B	0.1	B	---		0.9	J	0.1	J
NC 2L = 1.75 µg/L (10/23/07)	3-Apr-08	0.05	1.0	0.4	J	0.1	J	0.2	J	0.1	J	---	0.2	J	0	J	0.3	J	0.1	J	ND		---		0.1	J	ND	
	28-Oct-08	0.05	1.0	0.2	J	0.2	J	0.3	J	0.2	J	---	0.1	J	0.3	J	0.2	J	0.5	J	0.1	J	---		0.2	J	ND	
	8-Apr-09	0.04	1.0	0.2	J	0.2	J	0.3	J	0.3	J	---	0.2	J	0.7	J	0.5	J	0.3	J	0.2	J	---		0.2	J	ND	
	27-Oct-09	0.04	1.0	0.4	J	0.2	J	0.2	J	0.1	J	---	0.2	J	0.4	J	0.1	J	0.2	J	0.1	J	---		1.5		ND	
NC 2L = 2 µg/L (1/1/10)	8-Apr-10	0.02	1.0	0.9	J	0.1	B	0.3	B	2		---	0.1	B	0.7	J	0.2	B	9.0		0.1	B	---		0.7	J	0.1	J
Resample	1-Jun-10	0.02	1.0	---		---		---		---		---	---		---		---		1.6		---		---		---		---	
	13-Oct-10	0.02	1.0	1		0.2	J	0.1	J	0.6	J	---	0.8	J	1.0		0.2	J	1.6		0.1	J	---		1.0		ND	
	27-Apr-11	0.02	1.0	0.2	J	0.09	J	0.21	J	0.11	J	---	0.3	J	0.5	J	0.1	J	0.1	J	0.1	J	---		0.3	J	ND	
	20-Oct-11	0.02	1.0	0.46	J	ND		0.11	J	ND		---	0.2	J	1		0	J	0	J	0.3	J	---		0.6	J	ND	
	26-Apr-12	0.02	1.0	0.1	J	ND		0.26	J	0.12	J	---	0.24	J	ND		0.05	J	0.64	J	0.1	J	---		0.3	J	ND	
	16-Oct-12	0.03	1.0	0.12	J	0.09	J	0.12	J	0.1	J	---	0.12	J	0.31	J	0.12	J	0.45	J	0.1	J	---		0.1	J	ND	
	11-Apr-13	0.03	1.0	0.1	J	0.07	J	0.5	J	0.31	J	---	0.08	J	0.49	J	0.05	J	0.21	J	0.1	J	---		0.4	J	ND	
	30-Oct-13	0.05	1.0	0.08	J	0.52	J	0.58	J	0.16	J	---	0.05	J	0.28	J	0.17	J	0.36	J	0.08	J	---		0.7	J	ND	
	9-Apr-14	0.05	1.0	0.1	J	0.34	J	0.27	J	0.33	J	---	0.32	J	0.32	J	0.89	J	0.23	J	0.32	J	---		0.3	J	ND	
	22-Oct-14	0.04	1.0	0.41	J	0.16	J	0.28	J	0.12	J	---	0.17	J	0.14	J	0.97	J	0.56	J	0.06	J	---		0.25	J	ND	
Chromium	1-Jul-99	---	10	---		---		**112**		**35**		ND	ND		ND		ND		---		---		---		---		ND	
	1-Aug-99	---	10	---		---		**29**		**38**		10	ND		**23**		ND		---		---		---		---		ND	
	1-Oct-99	---	1	---		---		**14**		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Nov-99	---	10	---		---		**22**		**36**		ND	ND		ND		ND		---		---		---		---		ND	
	1-Apr-00	---	10	---		---		**11**		**43**		**37**	ND		**24**		ND		---		---		---		---		ND	
	1-Oct-00	---	10	---		---		**16**		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Apr-01	---	10	---		---		**11**		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Oct-01	---	10	---		---		**38**		**65**		ND	ND		**39**		ND		---		---		---		---		ND	
	2-Apr-02	---	10	ND		ND		**43**		**12**		ND	ND		ND		ND		---		---		---		---		ND	
	1-Oct-02	---	10	ND		ND		**15**		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Apr-03	---	10	ND		ND		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Oct-03	---	10.0	ND		ND		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	15-Apr-04	---	10.00	ND		ND		**18**		ND		ND	ND		ND		ND		**17**		ND		ND		---		ND	
	14-Oct-04	---	10	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		ND		---		ND	
	5-Apr-05	---	10.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		ND		---		ND	
	27-Oct-05	---	10.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		ND		---		ND	
	21-Apr-06	---	10.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		ND		---		ND	
	12-Oct-06	---	10.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		---		ND	
	26-Apr-07	---	10.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		---		ND	
	11-Oct-07	0.24	10.0	ND		ND		4.8	B	1.1	B	---	0.3	B	ND		ND		0.5	B	ND		---		ND		1.2	J
NC 2L = 50 µg/L (10/23/07)	3-Apr-08	0.11	10.0	ND		ND		0.4	J	1	J	---	0.4	J	0.5	J	ND		0.3	J	ND		---		ND		ND	
	28-Oct-08	0.11	10.0	ND		0.7	J	7.9	J	9.5	J	---	0.9	J	0.7	J	ND		0.9	J	0.4	J	---		3.1	J	ND	
	8-Apr-09	0.10	10.0	0.5	J	0.90	J	3.3	J	8.3	J	---	3.1	J	1.4	J	ND		1.2	J	0.6	J	---		1.3	J	ND	
	27-Oct-09	0.10	10.0	ND		1.1	J	8.2	J	9.8	J	---	2.5	J	1.9	J	ND		1.1	J	0.6	J	---		1.8	J	ND	
NC 2L = 10 µg/L (1/1/10)	8-Apr-10	0.03	10.0	ND		0.3	J	3.7	J	3.9	J	---	1.9	J	0.6	J	ND		1.1	J	ND		---		1.2	J	ND	
	13-Oct-10	0.03	10.0	0.2	J	0.70	J	2.3	J	3.8	J	---	2.2	J	0.9	J	0.1	J	0.5	J	ND		---		2.3	J	ND	
	27-Apr-11	0.04	10.0	0.43	B	0.78	B	3.3	J	3.2	J	---	2.2	J	2	J	ND		1.1	J	0.51	B	---		1.5	J	0.18	J
	20-Oct-11	0.04	10.0	0.6	B	1.6	J	5.1	J	1.9	J	---	2.6	J	2.50	J	ND		1.8	J	0.87	B	---		2.10	J	0.18	J
	26-Apr-12	0.04	10.0	0.4	B	1.2	J	4.9	J	12		---	6.8	J	1.80	J	ND		0.99	J	0.44	B	---		2.20	J	0.09	J
	16-Oct-12	0.18	10.0	ND		0.53	J	2.7	J	1.3	J	---	1.3	J	1.00	J	ND		0.25	J	0.38	J	---		1.30	J	ND	
	11-Apr-13	0.04	10.0	0.2	J	0.06	J	3.7	J	2.1	J	---	1.2	J	1.40	J	ND		0.8	J	0.06	J	---		0.78	J	ND	
	30-Oct-13	0.04	10.0	0.2	B	1.1	J	2.6	J	2.6	J	---	1.4	J	1.20	J	0.07	B	0.6	B	0.12	B	---		0.89	J	0.11	J
	9-Apr-14	0.04	10.0	0.37	J	1.6	J	4.2	J	1.5	J	---	2.4	J	0.77	J	ND		0.69	J	ND		---		0.42	J	ND	
	22-Oct-14	0.14	10.0	0.47	J	1.2	J	2.9	J	2.4	J	---	3.4	J	1.4	J	ND		0.72	J	ND		---		0.70	J	ND	

TABLE 8A

HISTORICAL DETECTIONS in GROUNDWATER
C.R.S.W.M.A. TUSCARORA LONG-TERM REGIONAL LF PHASES 1 and 2

	Sample			Background		Downgraidient										
Analyte	Collection Date	DL	SWSL	MW-12S	MW-12D	MW-7	MW-8	MW-9	MW-10	MW-11S	MW-11D	MW-13S	MW-13D	MW-14	MW-14R	Blanks
Cobalt	1-Jul-99	---	10.0	---	---	13	24	ND	ND	ND	ND	---	---	---	---	ND
	1-Aug-99	---	10	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-99	---	10.0	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Nov-99	---	10.0	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Apr-00	---	10.0	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-00	---	10.0	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Apr-01	---	10.0	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-01	---	10	---	---	ND	ND	12.0	ND	ND	ND	---	---	---	---	ND
	2-Apr-02	---	10	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-02	---	10	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Apr-03	---	10	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-03	---	10.0	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	15-Apr-04	---	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	ND
	14-Oct-04	---	10.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	5-Apr-05	---	10.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	27-Oct-05	---	10.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	21-Apr-06	---	10.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	12-Oct-06	---	10.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	---	---	ND
	26-Apr-07	---	10.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	---	---	ND
	11-Oct-07	0.41	10.0	1.4 J	ND	0.7 J	ND	---	ND	1 J	ND	ND	ND	---	2.7 J	ND
GWPS = 70 µg/L (10/23/07)	3-Apr-08	0.03	10.0	4.6 J	0.1 J	1.8 J	0.4 J	---	0.7 J	3.1 J	0.1 J	0.3 J	0.1 J	---	0.9 J	ND
	28-Oct-08	0.03	10.0	2.8 J	0.2 J	0.8 J	1 J	---	0.5 J	2.8 J	0.1 J	0.4 J	0.2 J	---	0.7 J	ND
	8-Apr-09	0.02	10.0	2.3 J	0.2 J	0.6 J	1.1 J	---	1.1 J	6.1 J	0.1 J	0.5 J	0.2 J	---	1.2 J	ND
	27-Oct-09	0.02	10.0	1.6 J	0.2 J	0.7 J	1 J	---	0.6 J	5.9 J	0.2 J	0.5 J	0.3 J	---	1.2 J	ND
	8-Apr-10	0.10	10.0	1.8 J	0.2 J	0.5 J	0.7 J	---	1.2 J	4.4 J	ND	0.5 J	0.2 J	---	1.5 J	ND
GWPS = 1 µg/L (10/1/10)	13-Oct-10	0.10	10.0	1.5 J	0.2 J	0.3 J	0.9 J	---	0.9 J	3.1 J	0.2 J	0.5 J	0.2 J	---	1.5 J	ND
	27-Apr-11	0.03	10.0	1.3 J	0.14 J	0.56 J	0.69 J	---	0.93 J	4.7 J	0.08 J	0.45 J	0.14 J	---	1.5 J	ND
	20-Oct-11	0.03	10.0	1.1 J	0.19 J	0.45 J	0.58 J	---	1.2 J	3.5 J	0.1 J	0.57 J	0.19 J	---	2.2 J	ND
	26-Apr-12	0.03	10.0	1 J	0.21 J	0.6 J	0.88 J	---	4 J	3.3 J	0.09 J	0.55 J	0.21 J	---	2.4 J	ND
	16-Oct-12	0.02	10.0	1.1 J	0.19 J	0.38 J	0.71 J	---	0.66 J	2.1 J	0.11 J	0.4 J	0.24 J	---	1.4 J	ND
	11-Apr-13	0.02	10.0	0.68 J	0.18 J	0.58 J	0.96 J	---	0.79 J	2.1 J	0.12 J	0.7 J	1.8 J	---	1.8 J	0.03 J
	30-Oct-13	0.02	10.0	0.87 J	0.31 J	0.35 J	1.1 J	---	0.63 J	1.4 J	0.1 B	0.66 J	0.14 B	---	0.9 J	0.05 J
	9-Apr-14	0.02	10.0	0.71 J	0.45 J	0.56 J	0.86 J	---	1.10 J	1.6 J	0.11 J	0.74 J	0.74 J	---	1.3 J	ND
	22-Oct-14	0.12	10.0	0.82 J	0.23 J	0.33 J	0.94 J	---	1.5 J	1.0 J	ND	0.65 J	ND	---	1.0 J	ND
Copper	1-Jul-99	---	200	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Aug-99	---	10.0	---	---	10	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-99	---	200.0	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Nov-99	---	200.0	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Apr-00	---	200.0	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-00	---	200.0	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Apr-01	---	200.0	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-01	---	200.0	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	2-Apr-02	---	200.0	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-02	---	200.0	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Apr-03	---	200.0	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-03	---	200.0	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	15-Apr-04	---	200.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	ND
	14-Oct-04	---	200.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	5-Apr-05	---	200.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	27-Oct-05	---	200.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	21-Apr-06	---	200.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	12-Oct-06	---	200.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	---	---	ND
	26-Apr-07	---	10.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	---	---	ND
	11-Oct-07	0.20	10.0	0.9 B	ND	1.2 B	0.5 B	---	0.3 B	0.4 B	0.2 B	0.6 B	0.2 B	---	3.3 J	0.4 J
NC 2L = 1,000 µg/L (10/23/07)	3-Apr-08	0.05	10.0	0.7 B	0.3 B	0.8 B	0.6 B	---	0.7 B	0.6 B	0.3 B	0.6 B	0.1 B	---	1.2 J	0.2 J
	28-Oct-08	0.05	10.0	1.1 B	0.8 B	2.1 B	1.7 B	---	0.90 B	0.8 B	0.3 B	1.5 B	0.9 B	---	2.8 B	1.1 J
	8-Apr-09	0.04	10.0	2 J	0.9 J	1.5 J	1.5 J	---	1.6 J	1.0 J	0.4 B	1.1 J	0.7 J	---	1.9 J	0.1 J
	27-Oct-09	0.04	10.0	1.2 J	3.4 J	3.1 J	1.5 J	---	1 J	0.9 J	0.6 J	1.4 J	0.8 J	---	3.4 J	0.1 J
	8-Apr-10	0.03	10.0	1.2 J	0.7 B	1.2 J	1.5 J	---	1.4 J	1.1 J	0.8 B	4.5 J	0.7 B	---	1.3 J	0.2 J
	13-Oct-10	0.03	10.0	1.6 J	1 B	0.9 B	1.0 B	---	1.7 J	1 B	0.4 B	2.1 J	0.7 B	---	2.4 J	0.2 J
	27-Apr-11	0.02	10.0	1.2 B	0.77 B	1.5 B	1.0 B	---	1.7 B	1.0 B	0.72 B	1.3 B	0.9 B	---	1.4 B	0.66 J
	20-Oct-11	0.02	10.0	1.2 J	1.5 J	1.3 J	0.5 B	---	1.4 J	1.2 J	0.5 B	1.7 J	1.0 B	---	1.7 J	0.2 J
	26-Apr-12	0.02	10.0	0.73 B	5.9 J	1.6 B	0.9 B	---	2.7 B	5 J	0 B	1.4 B	0.5 B	---	1.2 B	0.94 J
	16-Oct-12	0.06	10.0	0.69 B	0.62 B	1.1 B	0.67 B	---	1.0 B	1 B	0 B	0.4 B	0.4 B	---	0.6 B	0.25 J
	11-Apr-13	0.06	10.0	0.4 B	0.74 B	1.3 B	0.76 B	---	1.0 B	0.7 B	ND	0.6 B	0.7 B	---	0.6 B	0.28 J
	30-Oct-13	0.06	10.0	1.6 B	1.4 B	1.8 B	1.7 B	---	1.4 B	2.4 B	1.3 B	1.3 B	1.3 B	---	0.7 B	1.2 J
	9-Apr-14	0.06	10.0	0.5 J	0.64 J	1.0 J	1.0 J	---	1.1 J	0.4 J	ND	0.5 J	0.1 J	---	0.3 J	ND
	22-Oct-14	0.10	10.0	0.36 J	0.45 J	0.73 J	0.44 J	---	1.3 J	0.45 J	0.51 J	0.36 J	0.24 J	---	0.35 J	ND
Lead	1-Jul-99	---	10	---	---	129	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Aug-99	---	10	---	---	18	14	ND	ND	17	ND	---	---	---	---	ND
	1-Oct-99	---	10	---	---	12	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Nov-99	---	10	---	---	ND	14	ND	ND	ND	ND	---	---	---	---	ND
	1-Apr-00	---	10	---	---	ND	17	14	ND	15	ND	---	---	---	---	ND
	1-Oct-00	---	10	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Apr-01	---	10	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-01	---	10	---	---	16	19	ND	ND	18	ND	---	---	---	---	ND
	2-Apr-02	---	10	ND	ND	21	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-02	---	10	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Apr-03	---	10	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	1-Oct-03	---	10	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	ND
	15-Apr-04	---	10	ND	ND	ND	ND	ND	ND	ND	ND	10	ND	ND	---	ND
	14-Oct-04	---	10	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	5-Apr-05	---	10	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	27-Oct-05	---	10	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	21-Apr-06	---	10	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND
	12-Oct-06	---	10.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	---	---	ND
	26-Apr-07	---	10.0	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	---	---	ND
	11-Oct-07	0.07	10.0	0.2 B	ND	3 J	1.6 J	---	0.3 B	0.1 B	ND	1.1 J	0.1 B	---	0.3 B	0.1 J
NC 2L = 15 µg/L (10/23/07)	3-Apr-08	0.32	10.0	0.1 B	0.1 B	0.5 B	1.4 J	---	0.9 J	1.4 J	0.1 B	0.5 B	ND	---	0.3 B	0.10 J
	28-Oct-08	0.32	10.0	0.3 B	0.4 B	7.2 J	8 J	---	1.3 J	1.1 J	0.1 B	0.8 J	0.5 B	---	2.50 J	0.1 J
	8-Apr-09	0.04	10.0	0.6 J	0.2 B	2.3 J	6.6 J	---	2.7 J	1.9 J	0.1 B	0.9 J	0.4 B	---	1.0 J	0.10 J
	27-Oct-09	0.04	10.0	0.1 J	0.3 J	6.7 J	7.8 J	---	2.4 J	2.3 J	0.1 J	0.8 J	0.4 J	---	1.9 J	ND
	8-Apr-10	0.01	10.0	0.4 B	0.3 B	3.1 J	4.1 J	---	2.6 J	2.2 J	0.1 B	1.6 J	0.3 B	---	1.3 J	0.10 J
	13-Oct-10	0.01	10.0	0.4 B	0.3 B	1.4 J	3.8 J	---	2.30 J	2.3 J	0.2 B	0.6 J	0.2 B	---	2.6 J	0.10 J
	27-Apr-11	0.02	10.0	0.27 J	0.21 J	2.0 J	2.5 J	---	2.00 J	2.8 J	0.12 J	0.57 J	0.31 J	---	1.2 J	ND
	20-Oct-11	0.02	10.0	0.12 J	0.2 J	3.0 J	1.8 J	---	1.9 J	4.8 J	0.11 J	0.55 J	0.35 J	---	0.8 J	ND
	26-Apr-12	0.02	10.0	0.35 J	0.8 J	2.7 J	3.00 J	---	6.3 J	2.8 J	0.06 B	0.62 J	0.39 J	---	1.6 J	0.02 J
	16-Oct-12	0.08	10.0	0.11 J	0.2 J	1.9 J	1.8 J	---	1.3 J	2.6 J	ND	0.22 J	0.38 J	---	1 J	ND
	11-Apr-13	0.02	10.0	0.35 J	0.2 J	2.7 J	2.6 J	---	1.3 J	2 J	0.04 J	0.71 J	0.24 J	---	1.3 J	ND
	30-Oct-13	0.02	10.0	0.16 B	0.61 J	1.7 J	2.8 J	---	1.4 J	1.9 J	0.11 B	0.36 B	0.25 B	---	1 J	0.08 J
	9-Apr-14	0.02	10.0	0.51 J	0.9 J	3.1 J	2.3 J	---	2.5 J	1.0 J	0.05 B	0.56 J	0.22 J	---	0.69 J	0.04 J
	22-Oct-14	0.13	10.0	0.15 J	0.39 J	1.7 J	2.4 J	---	2.6 J	1.2 J	ND	0.29 J	0.16 J	---	0.36 J	ND

TABLE 8A

HISTORICAL DETECTIONS in GROUNDWATER
C.R.S.W.M.A. TUSCARORA LONG-TERM REGIONAL LF PHASES 1 and 2

	Sample			Background				Downgraident																					
Analyte	Collection Date	DL	SWSL	MW-12S		MW-12D		MW-7		MW-8		MW-9	MW-10		MW-11S		MW-11D		MW-13S		MW-13D		MW-14	MW-14R		Blanks	
Nickel	11-Oct-07	0.7	50.0	2	J	1.6	J	2.3	J	ND		---	0.7	J	1.8	J	1.8	J	0.8	J	1.2	J	---	3.6	J	ND	
NC 2L = 100 µg/L (10/23/07)	3-Apr-08	0.1	50.0	4.3	J	2	J	4	J	0.8	B	---	1.4	B	4.8	J	2.4	J	0.7	B	1.6	J	---	1.4	B	0.3	J
	28-Oct-08	0.1	50.0	3.5	J	2.7	J	4	J	2.2	J	---	1	B	4.9	J	2	J	1.1	J	2	J	---	1.6	J	0.2	J
	8-Apr-09	0.0	50.0	2.9	J	2	J	2.5	J	1.6	J	---	1.5	J	8.5	J	1.2	J	1.1	J	1.9	J	---	2.2	J	ND	
	27-Oct-09	0.0	50.0	1.9	J	1.8	J	2.5	J	1.9	J	---	1.3	J	8.7	J	1.1	J	0.5	B	1.3	J	---	2.1	J	0.2	J
	8-Apr-10	0.1	50.0	2.8	J	1.4	J	2.1	J	1.4	J	---	1.8	J	7	J	1	J	1	J	1.6	J	---	2.4	J	ND	
	13-Oct-10	0.05	50.0	2	J	2.6	J	2.9	J	1.5	J	---	2	J	6.1	J	2.5	J	1.3	J	2.1	J	---	3.2	J	0.1	J
	27-Apr-11	0.04	50.0	1.9	J	1.2	B	2.2	J	1.3	B	---	1.9	J	8.1	J	1.1	B	1.0	B	1.0	B	---	3.1	J	0.3	J
	20-Oct-11	0.04	50.0	2.2	B	1.7	B	2.6	J	1.4	B	---	2.0	B	6.7	J	0.9	B	1.5	B	1.6	B	---	6.0	J	0.56	J
	26-Apr-12	0.04	50.0	1.6	J	1.1	J	2.4	J	4.3	J	---	5.7	J	6.8	J	1.0	J	1	J	1.1	J	---	4.7	J	ND	
	16-Oct-12	0.06	50.0	1.8	J	1.7	J	2.4	J	1.9	J	---	1.6	J	5.4	J	1.3	J	1.0	B	1.5	J	---	9.7	J	0.23	J
	11-Apr-13	0.45	50.0	0.5	J	2.1	J	2.2	J	1.2	J	---	1.2	J	5.7	J	1.4	J	0.95	J	2.1	J	---	16.2	J	ND	
	30-Oct-13	0.45	50.0	1.6	J	2.1	J	2.2	J	2.1	J	---	1.5	J	5	J	1	J	2	J	1.8	J	---	9.5	J	ND	
	9-Apr-14	0.45	50.0	0.98	J	2.5	J	2.4	J	1.5	J	---	2.0	J	5	J	2	J	2	J	1.6	J	---	14.8	J	ND	
	22-Oct-14	0.12	50.0	1.1	J	1.5	J	3.5	J	1.5	J	---	2.2	J	2.8	J	1.2	J	1.6	J	1.1	J	---	10.9	J	ND	
Selenium	11-Oct-07	0.35	10	2.6	B	ND		1.4	B	ND		---	0.4	B	0.8	B	ND		ND		ND		---	ND		0.9	J
NC 2L = 50 µg/L (10/23/07)	3-Apr-08	0.51	10	3.1	B	ND		0.7	B	0.2	B	---	0.7	B	0.3	B	ND		0.3	B	ND		---	0.2	B	1.5	J
	28-Oct-08	0.51	10	3.1	B	ND		0.9	B	0.3	B	---	0.7	B	0.5	B	ND		0.6	B	ND		---	0.6	B	1.9	J
	8-Apr-09	0.12	10	2.4	J	0.7	J	ND		0.2	J	---	0.3	J	0.5	J	ND		0.5	J	ND		---	0.9	J	ND	
	27-Oct-09	0.12	10	3	J	0.7	J	0.5	J	0.2	J	---	0.3	J	0.4	J	ND		0.8	J	0.2	J	---	1.6	J	ND	
NC 2L = 20 µg/L (1/1/10)	8-Apr-10	0.32	10	1.6	J	ND		ND		ND		---	0.3	J	ND		ND		1.4	J	ND		---	1.6	J	ND	
	13-Oct-10	0.32	10	2	J	2	J	0.7	J	ND		---	1.2	J	0.5	J	ND		2.2	J	1.1	J	---	2.9	J	ND	
	27-Apr-11	0.20	10	0.83	J	ND		0.28	J	ND		---	0.43	J	0.92	J	ND		0.35	J	ND		---	1.1	J	ND	
	20-Oct-11	0.20	10	0.53	J	ND		0.44	J	ND		---	ND		0.87	J	ND		0.35	J	ND		---	1.0	J	ND	
	26-Apr-12	0.20	10	0.56	J	ND		0.54	J	ND		---	0.68	J	1.1	J	ND		0.45	J	ND		---	1.4	J	ND	
	16-Oct-12	0.17	10	0.48	J	ND		0.76	J	ND		---	0.88	J	0.86	J	ND		0.74	J	ND		---	2.1	J	ND	
	11-Apr-13	0.06	10	0.77	J	0.19	J	0.66	J	0.27	J	---	1.4	J	0.83	J	0.26	J	1.5	J	0.19	J	---	3.3	J	ND	
	30-Oct-13	0.06	10	0.52	J	0.18	J	0.62	J	0.16	J	---	0.87	J	0.70	J	ND		1.2	J	ND		---	2.4	J	ND	
	9-Apr-14	0.06	10	ND		0.18	J	0.26	J	ND		---	0.36	J	0.46	J	ND		0.2	J	ND		---	0.9	J	ND	
	22-Oct-14	0.16	10	0.20	J	0.23	J	0.33	J	ND		---	0.50	J	0.36	J	ND		0.72	J	ND		---	2.7	J	ND	
Silver	3-Apr-08	0.04	10	ND		0.1	J	ND		0.1	J	---	ND		ND		0.1	J	ND		ND		---	ND		ND	
NC 2L = 17.5 µg/L (10/23/07)	28-Oct-08	0.04	10	0.1	B	ND		0.1	B	0.1	B	---	ND		ND		ND		0.1	B	0.1	B	---	ND		0.1	J
	8-Apr-09	0.04	10	0.1	J	ND		0.1	J	ND		---	ND		ND		ND		0.1	J	ND		---	ND		ND	
	27-Oct-09	0.04	10	0.1	J	ND		ND		ND		---	ND		0.1	J	ND		0.2	J	ND		---	ND		ND	
NC 2L = 20 µg/L (1/1/10)	8-Apr-10	0.03	10	ND		ND		0.1	B	ND		---	ND		0.2	B	ND		ND		0.1	B	---	0.1	B	0.1	J
	13-Oct-10	0.03	10	0.1	J	ND		ND		ND		---	0.1	J	0.1	J	0.1	J	ND		ND		---	0.1	J	ND	
	27-Apr-11	0.02	10	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---	ND		ND	
	20-Oct-11	0.02	10	0.10	J	ND		ND		ND		---	ND		ND		0.12	J	0.09	J	ND		---	0.17	J	ND	
	26-Apr-12	0.02	10	ND		0.03	J	ND		0.02	J	---	0.02	J	0.04	J	0.02	J	0.05	J	ND		---	0.03	J	ND	
	16-Oct-12	0.10	10.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---	ND		ND	
	11-Apr-13	0.03	10.0	ND		ND		0.03	J	ND		---	ND		ND		ND		ND		ND		---	ND		ND	
	30-Oct-13	0.03	10.0	0.03	B	ND		ND		ND		---	ND		ND		ND		0.04	B	ND		---	0.03	B	0.05	J
	9-Apr-14	0.03	10.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---	ND		ND	
	22-Oct-14	0.04	10.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---	ND		ND	
Thallium	11-Oct-07	0.07	5.0	0.2	J	ND		0.1	J	ND		---	0.1	J	ND		ND		0.1	J	0.1	J	---	ND		ND	
GWPS = 0.28 µg/L (10/23/07)	3-Apr-08	0.63	5.0	ND		0.1	J	0.1	J	ND		---	ND		ND		0.1	J	ND		ND		---	ND		ND	
	28-Oct-08	0.63	5.0	0.1	J	0.1	J	0.2	J	0.1	J	---	ND		ND		ND		0.1	J	ND		---	0.1	J	ND	
	8-Apr-09	0.03	5.0	0.1	J	ND		0.1	J	0.1	J	---	0.10	J	ND		ND		0.1	J	ND		---	ND		ND	
	27-Oct-09	0.03	5.0	0.1	J	ND		0.1	J	0.1	J	---	ND		ND		ND		0.1	J	ND		---	ND		ND	
	8-Apr-10	0.05	5.0	ND		ND		0.1	J	ND		---	ND		ND		ND		ND		0.1	J	---	0.1	J	ND	
GWPS = 0.2 µg/L (10/1/10)	13-Oct-10	0.05	5.5	ND		ND		ND		ND		---	0.1	J	ND		0.1	J	ND		ND		---	0.1	J	ND	
	27-Apr-11	0.02	5.5	ND		ND		0.12	B	0.06	B	---	0.05	B	0.04	B	0.11	B	ND		ND		---	0.07	B	0.0	J
	20-Oct-11	0.02	5.5	0.0	J	ND		0.05	J	ND		---	0.03	J	0.0	J	0.1	J	0.03	J	ND		---	0.1	J	ND	
	26-Apr-12	0.02	5.5	0.02	J	ND		0.08	J	0.05	J	---	0.13	J	0.12	J	0.03	J	0.02	J	ND		---	0.1	J	ND	
	16-Oct-12	0.07	5.5	0.19	J	ND		ND		ND		---	ND		ND		ND		ND		ND		---	ND		ND	
	11-Apr-13	0.02	5.5	ND		ND		0.12	B	0.06	B	---	0.04	B	0.03	B	ND		ND		ND		---	0.22	B	0.19	J
	30-Oct-13	0.02	5.5	0.23	B	0.02	B	0.08	B	0.07	B	---	0.04	B	0.04	B	ND		0.12	B	ND		---	0.06	B	0.13	J
	9-Apr-14	0.02	5.5	ND		0.02	J	0.08	J	0.03	J	---	0.06	J	0.02	J	0.02	J	ND		ND		---	0.18	J	ND	
	22-Oct-14	0.13	5.5	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---	ND		ND	
Vanadium	1-Jul-99	---	40.0	---		---		**167**		**52**		ND	ND		ND		ND		---		---		---	---		ND	
	1-Aug-99	---	40.0	---		---		**41**		**47**		ND	ND		ND		ND		---		---		---	---		ND	
	1-Oct-99	---	40.0	---		---		ND		ND		ND	ND		ND		ND		---		---		---	---		ND	
	1-Nov-99	---	40.0	---		---		ND		**47**		ND	ND		ND		ND		---		---		---	---		ND	
	1-Apr-00	---	40.0	---		---		ND		**57**		**43**	ND		ND		ND		---		---		---	---		ND	
	1-Oct-00	---	40.0	---		---		ND		ND		ND	ND		ND		ND		---		---		---	---		ND	
	1-Apr-01	---	40.0	---		---		ND		ND		ND	ND		ND		ND		---		---		---	---		ND	
	1-Oct-01	---	40.0	---		---		**55**		**83**		ND	ND		**64.0**		ND		---		---		---	---		ND	
	2-Apr-02	---	40.0	ND		ND		**67**		ND		ND	ND		ND		ND		---		---		---	---		ND	
	1-Oct-02	---	40.0	ND		ND		ND		ND		ND	ND		ND		ND		---		---		---	---		ND	
	1-Apr-03	---	40.0	ND		ND		ND		ND		ND	ND		ND		ND		---		---		---	---		ND	
	1-Oct-03	---	40.0	ND		ND		ND		ND		ND	ND		ND		ND		---		---		---	---		ND	
	15-Apr-04	---	40.0	ND		ND		ND		ND		ND	ND		ND		ND		ND		ND		ND	---		ND	
	14-Oct-04	---	40.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		ND	---		ND	
	5-Apr-05	---	40.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		ND	---		ND	
	27-Oct-05	---	40.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		ND	---		ND	
	21-Apr-06	---	40.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		ND	---		ND	
	12-Oct-06	---	40.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---	---		ND	
	26-Apr-07	---	25.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---	---		ND	
	11-Oct-07	0.42	25.0	0.9	J	ND		8.6	J	3.8	J	---	0.6	J	ND		ND		2.7	J	ND		---	ND		ND	
GWPS = 3.5 µg/L (10/23/07)	3-Apr-08	0.07	25.0	0.3	B	0.3	B	1.7	J	3.6	J	---	2.1	J	1.9	J	0.2	B	1.1	J	0.2	B	---	0.3	B	0.1	J
	28-Oct-08	0.07	25.0	0.4	B	1	B	14.1	J	14	J	---	3.1	J	1.9	J	0.4	B	1.5	J	0.9	B	---	3.9	J	0.2	J
	8-Apr-09	0.28	25.0	1.5	J	1.7	J	6.9	J	13.5	J	---	6.5	J	2.7	J	0.8	J	2.3	J	1.8	J	---	2.1	J	ND	
	27-Oct-09	0.28	25.0	ND		1.4	B	13.3	J	15.2	J	---	7.4	J	3.2	J	0.9	B	1.5	B	1.5	B	---	2.1	J	0.4	J
	8-Apr-10	0.03	25.0	1.3	B	1.7	B	8.1	J	9.4	J	---	4.9	J	2.1	J	0.7	B	3.1	J	1.3	B	---	2.3	J	0.4	J
GWPS = 0.3 µg/L (10/1/10)	13-Oct-10	0.03	25.0	0.9	B	1.4	B	4.8	J	7.6	J	---	5.4	J	1.4	B	0.8	B	1.5	B	1	B	---	2.9	B	0.6	J
	27-Apr-11	0.14	25.0	ND		ND		4.7	J	6.8	J	---	3.5	J	2.2	J	ND		0.97	J	0.48	J	---	0.6	J	ND	
	20-Oct-11	0.14	25.0	ND		0.88	J	6.7	J	3.5	J	---	4.8	J	3.2	J	ND		1.5	J	0.93	J	---	1.9	J	ND	
	26-Apr-12	0.14	25.0	0.7	J	1.3	J	6.7	J	6.1	J	---	11.7	J	2.2	J	ND		1.4	J	0.91	J	---	3.2	J	ND	
	16-Oct-12	0.10	25.0	ND		0.62	J	4.0	J	3.8	J	---	2.8	J	1.0	J	ND		0.18	J	0.87	J	---	2.4	J	ND	
	11-Apr-13	0.07	25.0	1.2	J	1	J	6.5	J	6.4	J	---	2.5	J	2.4	J	0.5	J	1.7	J	1	J	---	2.5	J	ND	
	30-Oct-13	0.07	25.0	0.38	J	1.7	J	4.2	J	6.6	J	---	3.1	J	1.7	J	0.67	J	0.88	J	0.91	J	---	2.2	J	ND	
	9-Apr-14	0.07	25.0	1.2	J	2.3	J	7.4	J	5.2	J	---	5	J	1.22	J	0.28	J	1.5	J	0.81	J	---	1.5	J	ND	
	22-Oct-14	0.06	25.0	0.67	B	1.6	J	4.9	J	6.1	J	---	6.3	J	2.0	J	0.52	B	1.0	J	0.78	B	---	0.99	J	0.18	J

TABLE 8A

HISTORICAL DETECTIONS in GROUNDWATER
C.R.S.W.M.A. TUSCARORA LONG-TERM REGIONAL LF PHASES 1 and 2

	Sample			Background				Downgraident																					
Analyte	Collection Date	DL	SWSL	MW-12S		MW-12D		MW-7		MW-8		MW-9	MW-10		MW-11S		MW-11D		MW-13S		MW-13D		MW-14		MW-14R		Blanks	
Zinc	1-Jul-99	---	50.0	---		---		113		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Aug-99	---	50.0	---		---		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Oct-99	---	50.0	---		---		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Nov-99	---	50.0	---		---		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Apr-00	---	50.0	---		---		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Oct-00	---	50.0	---		---		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Apr-01	---	50.0	---		---		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Oct-01	---	50.0	---		---		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	2-Apr-02	---	50.0	ND		ND		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Oct-02	---	50.0	ND		ND		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Apr-03	---	50.0	ND		ND		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	1-Oct-03	---	50.0	11		ND		ND		ND		ND	ND		ND		ND		---		---		---		---		ND	
	15-Apr-04	---	50.0	ND		ND		ND		ND		ND	ND		ND		ND		ND		ND		ND		---		ND	
	14-Oct-04	---	50.0	ND		ND		72		ND		---	ND		ND		ND		ND		ND		ND		---		ND	
	5-Apr-05	---	50.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		ND		---		ND	
	27-Oct-05	---	50.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		ND		---		ND	
	21-Apr-06	---	50.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		ND		---		ND	
	12-Oct-06	---	50.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		---		ND	
	26-Apr-07	---	10.0	ND		ND		13		ND		---	ND		ND		ND		ND		ND		---		---		ND	
	11-Oct-07	0.2	10.0	22	B	2.1	B	28	B	4.9	B	---	4.7	B	5.4	B	2.5	B	6.1	B	3.4	B	---		14	B	6.6	J
NC 2L = 1,050 µg/L (10/23/07)	3-Apr-08	0.0	10.0	26		1.9	B	15		3.7	B	---	7.8	B	8.7	B	4.7	B	4.7	B	2.1	B	---		5.7	B	2.2	J
	28-Oct-08	0.04	10.0	20		15		22		11		---	5.8	J	7.6	J	3.8	J	13		8.3	J	---		17		0.4	J
	8-Apr-09	0.14	10.0	23.0		1.3	B	16		9.4	J	---	7.5	J	14.0		1.8	B	5.4	J	1.9	B	---		8.7	J	0.8	J
	27-Oct-09	0.14	10.0	16		4.2	B	25		9.6	J	---	9.3	J	13.0		10.0		4.9	B	2.3	B	---		8.9	J	1.4	J
NC 2L = 1,000 µg/L (1/1/10)	8-Apr-10	0.08	10.0	19		2.2	B	20		9.1	J	---	6.8	J	10	J	3.5	B	9.9	J	2.0	B	---		7.7	J	0.7	J
	13-Oct-10	0.08	10.0	17.0	B	7.7	B	6.1	B	8	B	---	10	B	9	B	5.2	B	9.3	B	3.3	B	---		12.0	B	4.1	J
	27-Apr-11	0.24	10.0	12		2	B	14		4.9	B	---	10		9	J	4	B	5	B	1.2	B	---		7.5	J	1.1	J
	20-Oct-11	0.24	10.0	8.1	J	2.1	J	10		4.3	J	---	7.2	J	9.9	J	1.0	B	4.7	J	1.7	J	---		9.6	J	0.28	J
	26-Apr-12	0.24	10.0	9.7	J	8	B	15		7.7	B	---	24.0		17.0		2.4	B	6.1	B	2.3	B	---		10.0		1.9	J
	16-Oct-12	0.48	10.0	9.2	J	1.5	J	6.9	J	4.9	J	---	4.8	J	5	J	1.4	J	2.8	J	2.0	J	---		5.4	J	ND	
	11-Apr-13	0.47	10.0	5.9	J	1.9	B	13		7.1	J	---	6.2	J	6.9	J	0.9	B	6.2	J	1.9	B	---		5.1	J	0.88	J
	30-Oct-13	0.47	10.0	9	B	5.1	B	10.0	B	11.0	B	---	7	B	11.0	B	5.6	B	9.8	B	6.8	B	---		6.1	B	3.2	J
	9-Apr-14	0.47	10.0	4.7	J	2.4	J	9.9	J	10.0		---	7	J	9.5	J	ND		5.2	J	ND		---		3.5	J	ND	
	22-Oct-14	0.53	10.0	7.7	J	2.7	J	6.7	J	5.7	J	---	10		6.4	J	9.4	J	7.4	J	1.5	J	---		6.4	J	ND	
Organic Compounds																													
Acetone	11-Oct-07	1.21	100.0	ND		ND		1.4	J	ND		---	1.4	J	ND		ND		ND		ND		---		ND		ND	
Resample	4-Dec-07	2.20	25.0	---		---		ND		---		---	ND		---		---		---		---		---		---		4.3	J
NC 2L = 700 µg/L (10/23/07)	3-Apr-08	1.21	100.0	5.2	B	4.5	B	4.3	B	2.3	B	---	2.3	B	2.2	B	2	B	5	B	3.8	B	---		4.4	B	2.1	J
	28-Oct-08	1.21	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		1.3	J
	8-Apr-09	1.21	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	27-Oct-09	9.06	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
NC 2L = 6,000 µg/L (1/1/10)	8-Apr-10	9.06	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	13-Oct-10	9.06	100.0	10.2	J	32.2	J	ND		ND		---	ND		ND		ND		15	J	22.1	J	---		ND		ND	
	27-Apr-11	9.06	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	20-Oct-11	9.06	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	26-Apr-12	9.06	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	16-Oct-12	9.06	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	11-Apr-13	9.06	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	30-Oct-13	9.06	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	9-Apr-14	9.06	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	22-Oct-14	9.06	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
2-Butanone	3-Apr-08	0.85	100.0	0.9	J	ND		ND		1.5	J	---	1.4	J	ND		ND		ND		ND		---		ND		ND	
Resample	15-May-08	0.96	100.0	ND		---		---		ND		---	ND		---		---		---		---		---		---		ND	
NC 2L = 4,200 µg/L (10/23/07)	28-Oct-08	0.85	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	8-Apr-09	0.85	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	27-Oct-09	2.21	100.0	2.3	J	2.5	J	3.6	J	2.8	J	---	3.3	J	3	J	2.3	J	2.9	J	2.9	J	---		4.6	J	ND	
NC 2L = 4,000 µg/L (1/1/10)	8-Apr-10	2.21	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	13-Oct-10	2.21	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	27-Apr-11	2.21	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	20-Oct-11	2.21	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	26-Apr-12	2.21	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	16-Oct-12	2.21	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	11-Apr-13	2.21	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	30-Oct-13	2.21	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	9-Apr-14	2.21	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	22-Oct-14	2.21	100.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
Chloromethane	11-Oct-07	0.2	1.0	0.9	J	0.7	J	0.8	J	0.8	J	---	0.9	J	0.8	J	0.9	J	0.9	J	0.7	J	---		0.9	J	ND	
Resample	4-Dec-07	0.1	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
NC 2L = 2.6 µg/L (10/23/07)	3-Apr-08	0.2	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	28-Oct-08	0.2	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		0.2	J	ND	
	8-Apr-09	0.2	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	27-Oct-09	0.8	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		0.9	J	ND	
NC 2L = 3 µg/L (1/1/10)	8-Apr-10	0.8	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	13-Oct-10	0.8	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	27-Apr-11	0.8	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	20-Oct-11	0.77	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	26-Apr-12	0.77	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	16-Oct-12	0.77	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	11-Apr-13	0.77	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	30-Oct-13	0.77	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	9-Apr-14	0.77	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	22-Oct-14	0.77	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
Methylene Chloride	11-Oct-07	0.14	1.0	ND		ND		ND		ND		---	ND		0.2	B	ND		ND		ND		---		ND		0.2	J
NC 2L = 4.6 µg/L (10/23/07)	3-Apr-08	0.14	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	28-Oct-08	0.14	1.0	ND		ND		0.2	J	0.2	J	---	0.2	J	0.2	J	0	J	ND		ND		---		ND		ND	
	8-Apr-09	0.14	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	27-Oct-09	0.64	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
NC 2L = 5 µg/L (1/1/10)	8-Apr-10	0.64	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	13-Oct-10	0.64	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	27-Apr-11	0.64	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	20-Oct-11	0.64	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	26-Apr-12	0.64	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	16-Oct-12	0.64	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	11-Apr-13	0.64	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	30-Oct-13	0.64	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	9-Apr-14	0.64	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	
	22-Oct-14	0.64	1.0	ND		ND		ND		ND		---	ND		ND		ND		ND		ND		---		ND		ND	

Notes:
All concentrations are in micrograms per liter (µg/L).
RL = Laboratory reporting limit (NC SWSL or lower from October 2007 to present).
--- = Data not avaliable
B = Blank-qualified data; result is expected to be biased high based on concentrations in the blanks
NC 2L = North Carolina 2L Groundwater Standards.
GWPS = Groundwater Protection Standards.
When the NC 2L has not been established, the GWPS will be used.
Bold values are above the NC 2L Groundwater Standards or Groundwater Protection Standards.
DL = Laboratory detection limit.
J = Estimated value between the DL and the RL

TABLE 8B
HISTORICAL DETECTIONS in GROUNDWATER
C.R.S.W.M.A. LONG-TERM REGIONAL LF PHASE 3

Analyte	Sample Collection Date	DL	SWSL	MW-15S		MW-15D		MW-16S		MW-16D		MW-17S		MW-17D		MW-18S		MW-18D		MW-19S		MW-19D		Blanks	
Inorganic Compounds																									
Antimony	25-Aug-11	0.44	60.0	ND		0.5	J,D	ND		ND		ND		0.50	J,D	ND		ND		ND		ND		ND	
GWPS = 1 ug/L	27-Sep-11	0.44	6.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	26-Oct-11	0.44	5.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	29-Nov-11	0.44	5.0	1	J,D	0.6	J,D	0.6	J,D	0.5	J,D	0.5	J,D	0.5	J,D	ND		ND		ND		ND		ND	
	31-Oct-13	0.02	6.0	0.07	B	0.59	J	0.05	B	0.1	B	0.0	B	0.9	J	0	B	0	J	0	B	0.2	B	0.08	J
	10-Apr-14	0.02	6.0	0.12	B	0.58	B	0.27	B	0.29	B	0.11	B	0.16	J	0.17	B	0.19	B	0.26	B	0.15	B	0.66	J
	23-Oct-14	0.12	6.0	ND		0.40	J	ND		ND		ND		ND		ND		0.19	J	ND		0.18	J	ND	
Arsenic	25-Aug-11	3.69	10.0	**34.3**		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
NC 2L = 10 ug/L	27-Sep-11	3.69	10.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	26-Oct-11	3.69	10.0	4.13	J	ND		ND		ND		ND		ND		7.4	J	ND		ND		ND		ND	
	29-Nov-11	3.69	10.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	31-Oct-13	0.05	10.0	1.8	J	0.93	B	1.3	J	0.92	B	1.5	J	1.3	J	4	J	2	J	ND		5.0	J	0.2	J
	10-Apr-14	0.05	10.0	0.95	J	0.34	J	1.1	J	0.85	J	0.49	J	0.39	J	0.96	J	1.5	J	0.32	J	1.7	J	ND	
	23-Oct-14	0.10	10.0	1.3	J	0.40	J	1.1	J	0.26	J	0.72	J	0.49	J	1.5	J	1.4	J	0.24	J	1.1	J	ND	
Barium	25-Aug-11	0.39	100.0	306		26	J	32.2	J	73.7	J	17.3	B	34.7	J	89.4	J	39.1	J	5.81	B	36.2	J	5.06	J
NC 2L = 700 ug/L	27-Sep-11	0.39	100.0	25	B	399		65.7	B	69.6	J	40.1	B	37.8	B	66.1	B	2.48	B	40.2	B	8.4	B	13.3	J
	26-Oct-11	0.39	100.0	66.4	B	41.6	B	64.2	B	65.4	B	54.6	B	41.4	B	56.9	B	36	B	20.3	B	44.9	B	15.4	J
	29-Nov-11	0.39	100.0	79.3	B	48.3	B	94.2	B	76.2	B	96.8	B	45.8	B	55.3	B	43.8	B	38.6	B	54.4	B	31.4	J
	31-Oct-13	0.06	100.0	166		48.4	J	111		79.6	J	161		45.8	J	25.1	J	28.5	J	55.3	J	44.6	J	0.24	J
	10-Apr-14	0.06	100.0	147		35.4	J	47	J	119		92.9	J	43	J	14.8	J	28.7	J	75	J	51.5	J	ND	
	23-Oct-14	0.12	100.0	98.8	J	33.0	J	36.2	J	76.4	J	138		32.5	J	17.1	J	35.3	J	36.2	J	29.9	J	ND	
Beryllium	25-Aug-11	0.12	2.0	0.12	J,D	ND		0.12	J,D	ND		ND		ND		0.24	J,D	ND		ND		0.14	J,D	ND	
GWPS = 4 ug/L	27-Sep-11	0.12	1.0	ND		ND		0.18	J,D	ND		ND		ND		0.2	J,D	ND		ND		ND		ND	
	26-Oct-11	0.12	1.0	0.12	J,D	ND		0.2	J,D	ND		ND		ND		2.04		ND		ND		ND		ND	
	29-Nov-11	0.12	1.0	0.2	J,D	ND		0.22	J,D	ND		0.22	J,D	ND		0.3	J,D	ND		ND		ND		ND	
	31-Oct-13	0.03	1.0	2		0.1	B	**6**		0.05	B	2		0.13	B	**7**		0.19	B	0.08	B	1		0.04	J
Resample	23-Dec-13	0.03	1.0	NS		NS		NS		NS		NS		NS		**7**		NS		NS		NS		ND	
Resample	5-Feb-14	0.28	1.0	NS		NS		NS		NS		NS		NS		**7**		NS		NS		NS		0.48	J
	10-Apr-14	0.03	1.0	1		0.04	J	**6**		0.08	J	4		0.04	J	**6**		0.1	J	0.1	J	0.32	J	ND	
	23-Oct-14	0.04	1.0	**5**		ND		**7**		0.05	J	4		0.05	J	**7**		0.13	J	0.08	J	0.21	J	ND	
Cadmium	25-Aug-11	0.06	2.0	2.54	J,D	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
NC 2L = 2 ug/L	27-Sep-11	0.06	1.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	26-Oct-11	0.06	1.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	29-Nov-11	0.06	1.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	31-Oct-13	0.05	1.0	0.17	J	0.16	J	1		0.05	J	0.23	J	0.1	J	1		0.13	J	0.11	J	0.57	J	ND	
	10-Apr-14	0.05	1.0	0.14	J	0.06	J	2		0.06	J	0.32	J	ND		1		ND		0.08	J	0.14	J	ND	
	23-Oct-14	0.04	1.0	0.35	J	0.06	J	**3**		0.07	J	0.39	J	0.06	J	1		0.05	J	0.09	J	0.10	J	ND	
Chromium	25-Aug-11	1.5	10.0	**160**		1.72	J	ND		ND		ND		ND		ND		3.32	J	ND		3.66	J	ND	
NC 2L = 10 ug/L	27-Sep-11	1.5	10.0	1.63	B	1.52	B	1.75	B	ND		1.52	B	ND		1.52	B	5.64	B	3.17	B	2.1	B	1.75	J
	26-Oct-11	1.5	10.0	5.69	B	2.08	B	2.19	B	2.87	B	**14.3**		2.76	B	2.98	B	2.3	B	2.64	B	2.42	B	2.08	J
	29-Nov-11	1.5	10.0	1.52	J	2.24	J	1.65	J	2.12	J	2.72	J	ND		2.01	J	3.19	J	1.53	J	2.6	J	ND	
	31-Oct-13	0.04	10.0	0.34	B	0.22	B	2.4	J	0.37	B	5.9	J	1.5	J	3.2	J	1.3	J	2.2	J	6.5	J	0.1	J
	10-Apr-14	0.04	10.0	0.74	J	0.53	J	1.6	J	0.86	J	3.1	J	0.24	J	1.1	J	0.66	J	2.1	J	1.7	J	ND	
	23-Oct-14	0.14	10.0	1.0	J	0.48	J	1.8	J	0.58	J	4.9	J	0.70	J	2.1	J	1.5	J	1.9	J	0.76	J	ND	
Cobalt	25-Aug-11	3.4	10.0	**35.4**		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
GWPS = 1 ug/L	27-Sep-11	3.39	10.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	26-Oct-11	3.4	10.0	ND		ND		ND		ND		ND		ND		**12.1**		ND		ND		ND		ND	
	29-Nov-11	3.4	10.0	4.72	J	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	31-Oct-13	0.02	10.0	**11**		0.23	B	3.9	J	0.24	B	3.2	J	0.56	J	8.1	J	0.55	J	0.42	J	4.3	J	0.05	J
	10-Apr-14	0.02	10.0	**12**		0.32	J	3.5	J	0.33	J	5.7	J	0.19	J	8.8	J	0.21	J	0.29	J	1.2	J	ND	
	23-Oct-14	0.12	10.0	**27**		0.20	J	2.2	J	0.19	J	3.9	J	0.29	J	8.2	J	0.23	J	0.28	J	0.70	J	ND	
Copper	25-Aug-11	0.7	10.0	60.7		ND		ND		ND		ND		ND		ND		11		1	J	ND		ND	
NC 2L = 1,000 ug/L	27-Sep-11	0.7	10.0	1.88	B	3.56	B	3.28	B	4.03	B	4.28	B	3.89	B	3.58	B	4.85	B	3.83	B	2.58	B	3.38	J
	26-Oct-11	0.7	10.0	3.1	B	1.88	B	2.25	B	3.06	B	4.53	B	2.48	B	3.93	B	2.71	B	2.71	B	2.41	B	2.24	J
	29-Nov-11	0.7	10.0	1.77	B	0.88	B	1.61	B	0.92	B	1.73	B	1.22	B	1.21	B	0.92	B	1.74	B	1.64	B	0.74	J
	31-Oct-13	0.06	10.0	1.3	B	0.76	B	1.7	B	0.96	B	1.5	B	1.3	B	1.8	B	0.75	B	1.6	B	2	B	1.2	J
	10-Apr-14	0.06	10.0	0.37	J	0.33	J	1.1	J	0.34	J	0.86	J	0.42	J	1.8	J	0.41	J	1.2	J	0.51	J	ND	
	23-Oct-14	0.10	10.0	0.40	J	0.30	J	1.3	J	0.24	J	0.90	J	0.25	J	1.5	J	0.48	J	2.0	J	0.38	J	ND	
Lead	25-Aug-11	5.41	10.0	**68.2**		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
NC 2L = 15 ug/L	27-Sep-11	5.41	10.0	7.22	J	7.42	J	ND		ND		6.4	J	ND		ND		ND		ND		ND		ND	
	26-Oct-11	5.41	10.0	ND		ND		ND		ND		5.9	J	ND		7.2	J	ND		ND		ND		ND	
	29-Nov-11	5.41	10.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	31-Oct-13	0.02	10.0	0.4	B	0.28	B	4.1	J	0.42	J	6.6	J	0.7	J	5.8	J	1.0	J	1.1	J	2.7	J	0.08	J
	10-Apr-14	0.02	10.0	0.37	J	0.25	J	2.6	J	0.47	J	3.5	J	0.17	B	4.0	J	0.5	J	1.2	J	0.7	J	0.04	J
	23-Oct-14	0.13	10.0	0.36	J	0.23	J	4.7	J	0.43	J	7.2	J	0.33	J	5.2	J	0.94	J	1.2	J	0.39	J	ND	
Nickel	25-Aug-11	3.06	50.0	43.6	J	ND		ND		ND		ND		ND		4	J	ND		ND		5.8	J	ND	
NC 2L = 100 ug/L	27-Sep-11	3.06	50.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	26-Oct-11	3.06	50.0	ND		ND		ND		ND		ND		ND		20	J	ND		ND		ND		ND	
	29-Nov-11	3.06	50.0	7.7	J	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	31-Oct-13	0.45	5.0	10.8	J	1.8	J	6.2	J	2.3	J	5.6	J	2.2	J	14.1	J	1.7	J	1.7	J	10.8	J	ND	
	10-Apr-14	0.45	50.0	11.7	J	1.8	J	6.3	J	2.7	J	9.5	J	1.7	J	14.6	J	1.4	J	1.1	J	4.2	J	ND	
	23-Oct-14	0.12	50.0	27.6	J	1.2	J	4.2	J	1.8	J	7.0	J	1.8	J	13.2	J	1.3	J	0.82	J	2.5	J	ND	
Selenium	25-Aug-11	0.82	100.0	3.9	B,D	ND		ND		ND		ND		ND		ND		ND		ND		ND		1	J,D
NC 2L = 20 ug/L	27-Sep-11	0.82	10.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		1.7	J,D
	26-Oct-11	0.82	5.0	ND		ND		0.9	J,D	ND		ND		ND		3.1	J,D	ND		ND		ND		ND	
	29-Nov-11	0.82	5.0	ND		ND		1.4	J,D	ND		ND		1	J,D	ND		ND		ND		ND		ND	
	31-Oct-13	0.06	10.0	0.34	J	0.49	J	5.2	J	0.22	J	0.76	J	0.5	J	4.7	J	0.16	J	ND		1.5	J	ND	
	10-Apr-14	0.06	10.0	0.13	J	ND		7.3	J	0.14	J	0.8	J	ND		3.6	J	ND		ND		0.37	J	ND	
	23-Oct-14	0.16	10.0	0.86	J	0.97	J	8.8	J	0.32	J	1.1	J	ND		3.2	J	0.40	J	0.34	J	ND		ND	
Silver	25-Aug-11	1.05	10.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
NC 2L = 20 ug/L	27-Sep-11	1.05	10.0	1.08	J	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	26-Oct-11	1.05	10.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	29-Nov-11	1.05	10.0	2.22	B	2.37	B	2.85	B	2.29	B	1.66	B	2.01	B	2.78	B	2.57	B	3.10	B	3.12	B	2.52	J
	31-Oct-13	0.03	10.0	ND		0.08	B	ND		ND		ND		ND		0.03	B	0.04	B	ND		0.03	B	0.05	J
	10-Apr-14	0.03	10.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	23-Oct-14	0.04	10.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Thallium	25-Aug-11	0.30	55	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
GWPS = 0.28 ug/L	27-Sep-11	0.30	5.5	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	26-Oct-11	0.3	5.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	29-Nov-11	0.3	5.0	0.5	B,D	0.5	B,D	0.5	B,D	0.4	B,D	0.5	B,D	0.4	B,D	0.4	B,D	0.4	B,D	0.4	B,D	0.4	B,D	0.5	J,D
	31-Oct-13	0.0	5.5	0.06	B	0.22	B	0.1	B	0.03	B	0.12	B	ND		0.16	B	0.4	B	0.1	B	0.26	B	0.13	J
	10-Apr-14	0.0	5.5	ND		ND		0.03	J	ND		0.08	J	ND		0.07	J	ND		0.03	J	ND		ND	
	23-Oct-14	0.13	5.5	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

TABLE 8B
HISTORICAL DETECTIONS in GROUNDWATER
C.R.S.W.M.A. LONG-TERM REGIONAL LF PHASE 3

Analyte	Sample Collection Date	DL	SWSL	MW-15S		MW-15D		MW-16S		MW-16D		MW-17S		MW-17D		MW-18S		MW-18D		MW-19S		MW-19D		Blanks	
Vanadium	25-Aug-11	6.6	2500.0	355	J,D	13	B,D	8.7	B,D	6.6	B,D	10.7	B,D	9.8	B,D	8.3	B,D	13.9	B,D	10.3	B,D	14.4	B,D	10.1	J,D
GWPS = 0.3 ug/L	27-Sep-11	0.7	25.0	8.7	B,D	7.1	B,D	9.8	B,D	8.7	B,D	10.8	B,D	10.5	B,D	7.12	B,D	21.6	B,D	4.8	B,D	5.7	B,D	7	J,D
	26-Oct-11	0.7	5.0	**12.6**	D	2.6	B,D	4.7	B,D	1.8	B,D	**23.6**	D	4.3	B,D	2.9	B,D	2.4	B,D	4.9	B,D	1	B,D	2	J,D
	29-Nov-11	0.7	5.0	14.4	B,D	11.2	B,D	13.1	B,D	8.5	B,D	11	B,D	11.2	B,D	14.1	B,D	10.9	B,D	9.4	B,D	9	B,D	7.9	D
	31-Oct-13	0.1	25.0	1	J	1.2	J	5.3	J	1.2	J	10.2	J	2.9	J	5.4	J	1.2	J	2.1	J	9.9	J	ND	
	10-Apr-14	0.1	25.0	0.72	J	0.9	J	3.8	J	1	J	4.9	J	0.55	J	0.55	J	0.78	J	2.4	J	2.6	J	ND	
	23-Oct-14	0.06	25.0	1.1	J	0.87	B	4.7	J	0.69	B	11.2	J	0.95	J	3.0	J	1.9	J	2.3	J	1.5	J	0.18	J
Zinc	25-Aug-11	2.26	10.0	158		8.6	B	8.1	B	5.93	B	9.44	B	6.02	B	14.2	B	13.5	B	9.05	B	33.2		4.2	J
NC 2L = 1,000 ug/L	27-Sep-11	2.26	10.0	8.71	J	ND		ND		ND		5.78	J	ND		9.21	J	ND		2.89	J	2.36	J	ND	
	26-Oct-11	2.26	10.0	8.92	J	ND		ND		ND		5.08	J	ND		26.5		ND		ND		3.41	J	ND	
	29-Nov-11	2.26	10.0	7.47	J	ND		2.78	J	ND		5.94	J	ND		3.15	J	ND		3.26	J	4.49	J	ND	
	31-Oct-13	0.47	10.0	19		5.1	B	18		6.5	B	15	B	7.1	B	26		5.6	B	4.6	B	88		3.2	J
	10-Apr-14	0.47	10.0	14		1.8	J	12		4.1	J	17		0.92	J	18		0.97	J	1.8	J	22		ND	
	23-Oct-14	0.53	10.0	41		4.6	J	17		2.6	J	14		3.1	J	30		3.5	J	2.9	J	14		ND	
Organic Compounds																									
Acetone	25-Aug-11	0.864	100.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
NC 2L = 6,000 ug/L	27-Sep-11	0.864	100.0	ND		ND		ND		ND		ND		2.62	B	ND		3.25	B	1.13	B	ND		1.22	J
	26-Oct-11	0.864	100.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	29-Nov-11	0.864	100.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	31-Oct-13	9.06	100.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	10-Apr-14	9.06	100.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	23-Oct-14	9.06	100.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Bromoform	25-Aug-11	0.10	3.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
NC 2L = 4 ug/L	27-Sep-11	0.10	3.0	ND		ND		ND		ND		ND		ND		0.8	J	ND		ND		ND		ND	
	26-Oct-11	0.10	3.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	29-Nov-11	0.10	3.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	31-Oct-13	0.67	10.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	10-Apr-14	0.20	3.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	23-Oct-14	0.20	3.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Carbon Disulfide	25-Aug-11	0.11	100.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
NC 2L = 700 ug/L	27-Sep-11	0.11	100.0	ND		ND		ND		ND		ND		ND		ND		0.450	J	ND		ND		ND	
	26-Oct-11	0.11	100.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	29-Nov-11	0.11	100.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	31-Oct-13	0.23	100.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	10-Apr-14	0.23	100.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	23-Oct-14	0.23	100.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Methyl-2-pentanone	25-Aug-11	0.56	100.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
GWPS = 560 ug/L	27-Sep-11	0.56	100.0	ND		ND		ND		ND		ND		ND		ND		1.43	J	ND		ND		ND	
	26-Oct-11	0.56	100.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	29-Nov-11	0.56	100.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	31-Oct-13	1.19	100.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	10-Apr-14	1.19	100.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	23-Oct-14	1.19	100.0	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	

Notes:
1. MW = Groundwater monitoring well
3. DL = Detection limit
4. RL = Reporting limit
5. B = Reported concentration considered to represent blank contamination.
6. J = Reported concentration considered to represent an estimate of constituent concentration.
7. NC 2L = North Carolina 2L Groundwater Standard.
8. GWPS = Groundwater Protection Standard.
9. **Bold** typeface data are quantified detections above the NC 2L/GWPS.
10. D = Sample dilution
11. NS = Not Sampled

TABLE 9A

SUMMARY OF FIELD PARAMETERS
C.R.S.W.M.A. TUSCARORA LONG-TERM REGIONAL LF PHASES 1 and 2

	Sample	Background		Downgraident									
Analyte	Collection Date	MW-12S	MW-12D	MW-7	MW-8	MW-9	MW-10	MW-11S	MW-11D	MW-13S	MW-13D	MW-14	MW-14R
Conductivity	1-Jul-99	---	---	180	110	320.00	150.00	200.0	440.0	---	---	---	---
[uMhos]	1-Aug-99	---	---	210	100	580.00	200.00	170.0	450.0	---	---	---	---
	1-Oct-99	---	---	140	89	2000.00	150.00	200.0	420.0	---	---	---	---
	1-Nov-99	---	---	140	91	1600.0	150.0	270	430	---	---	---	---
	1-Apr-00	---	---	150	88	1800.0	140.0	270	420	---	---	---	---
	1-Oct-00	---	---	140	92	1200.0	130.0	30	410	---	---	---	---
	1-Apr-01	---	---	140	88	1300.0	120.0	290	390	---	---	---	---
	1-Oct-01	---	---	140	98	1200.0	120.0	250.0	410.0	---	---	---	---
	2-Apr-02	160	460	140	82	1600.0	110.0	290.0	370.0	---	---	---	---
	1-Oct-02	153	478	356	93	1650.0	132.0	288	500	---	---	---	---
	1-Apr-03	164	448	482	169	1857.0	167.0	406	440	---	---	---	---
	1-Oct-03	146	434	373	76	1,497	144	411	426	---	---	---	---
	15-Apr-04	170	300	220	57	960	87	290	300	79	280.0	56.0	---
	14-Oct-04	189	405	272	70	---	121	344	406	127	391.0	79.0	---
	5-Apr-05	146	489	299	67	---	140	417	496	99	475	95	---
	27-Oct-05	144	419	234	63	---	125	353	430	114	396	138	---
	21-Apr-06	184	465	216	64	---	147	406	469	121	434	69	---
	12-Oct-06	182	448	245	59	---	130	358	448	109	416	---	---
	26-Apr-07	192	452	210	69	---	143	310	448	103	415	---	---
	11-Oct-07	187	454	273	80	---	128	229	439	119	409	---	78.0
Resample	4-Dec-07	159.2	501	340	83.5	---	128.9	232	497	146.4	482	---	73.1
	3-Apr-08	155	481	453	64	---	131	409	443	124	402	---	71.0
Resample	15-May-08	164.2	---	---	67.4	---	129.8	---	---	---	---	---	---
	28-Oct-08	140	437	528	63	---	124.0	542	449	152	422	---	75.0
	8-Apr-09	148	429	475	60	---	131	1,200	460	149	435	---	116.0
	27-Oct-09	114	430	439	60	---	114	613	427	124	417	---	119.0
	8-Apr-10	146	433	450	73	---	134	771	460	142	433	---	158.0
	13-Oct-10	124	450	455	75	---	121	639	474	144	440	---	275
	27-Apr-11	123	439	551	84	---	139	1115	475	164	437	---	284
	20-Oct-11	99	420	460	84	---	125	956	464	159	444	---	1082
	26-Apr-12	107	409	490	82	---	150	1054	477	195	446	---	670
	16-Oct-12	103	422	435	90	---	141	945	487	163	455	---	1910
	11-Apr-13	100	422	440	89	---	142	778	485	180	440	---	1668
	30-Oct-13	101	514	434	86	---	133	710	493	168	455	---	1283
	9-Apr-14	154	489	362	95	---	143	623	481	190	441	---	2580
	22-Oct-14	113	512	389	93	---	153	477	477	199	438	---	2690
pH	1-Jul-99	---	---	5.7	5.4	5.1	5.6	6	7	---	---	---	---
[standard units]	1-Aug-99	---	---	5.4	5	4.2	5	5.6	6.4	---	---	---	---
	1-Oct-99	---	---	5.3	4.8	5.8	5.4	5.1	6.8	---	---	---	---
	1-Nov-99	---	---	5.2	4.8	5.6	5.3	5.2	6.7	---	---	---	---
	1-Apr-00	---	---	5	5	6	5.3	5.4	7.2	---	---	---	---
	1-Oct-00	---	---	5	4.8	5.3	5.3	4.8	6.3	---	---	---	---
	1-Apr-01	---	---	4.7	4.8	4.7	4.9	4.4	6.3	---	---	---	---
	1-Oct-01	---	---	5.1	5	4.4	5.2	5	6.6	---	---	---	---
	2-Apr-02	5.4	6.3	4.7	4.7	5.2	5.2	4.9	6.4	---	---	---	---
	1-Oct-02	4.9	7.1	5.9	4.9	5	5.5	4.9	7.2	---	---	---	---
	1-Apr-03	5.1	7.1	5.9	4.6	6.2	5.5	4.5	7	---	---	---	---
	1-Oct-03	4.6	6.7	6	4.6	5.9	5.1	3.9	6.9	---	---	---	---
	15-Apr-04	6.6	7.3	7	6.7	6.7	6.4	5.2	7.2	6.8	7.2	8	---
	14-Oct-04	5.4	7	10	5	---	5.3	4.7	6.8	4.9	6.7	5.3	---
	5-Apr-05	5.1	7	5.9	5.1	---	5.3	5	7	5	7	5	---
	27-Oct-05	5.1	6.9	5.8	5.1	---	5.1	4	7	5	7.1	4.8	---
	21-Apr-06	5.3	7	5.9	5	---	5.2	4	7	5	7.2	4.9	---
	12-Oct-06	5.3	7	6	4.8	---	5.2	4.2	7.0	5.1	7.1	---	---
	26-Apr-07	5.4	7.1	6.1	5.0	---	5.3	4.6	7.1	4.9	7.2	---	---
	11-Oct-07	5.3	7	5.8	5.3	---	5.1	5.1	7.1	5.1	7.2	---	5.3
Resample	4-Dec-07	5.46	6.01	6.2	6.55	---	6.2	5	6	5	6.0	---	6.0
	3-Apr-08	4.9	6.8	6.1	4.9	---	5.3	4	7	5	7.1	---	4.8
Resample	15-May-08	5.66	---	---	5.8	---	5.7	---	---	---	---	---	---
	28-Oct-08	4.6	7	6.2	4.9	---	5.0	4	7	5	7.0	---	5.0
	8-Apr-09	4.9	6.8	6.2	4.9	---	5.0	4	7	5	6.6	---	4.6
	27-Oct-09	4.6	6.8	6.1	5	---	5.1	3.8	6.9	4.8	6.9	---	4.2
	8-Apr-10	4.4	6.9	6.4	4.8	---	5.1	4	7	5	7.1	---	4.3
	13-Oct-10	4.7	6.7	6.2	4.8	---	5.5	4.2	7	5.1	6.9	---	3.9
	27-Apr-11	4.8	6.8	6.3	4.8	---	5.1	4	6.8	5.1	6.9	---	4.0
	20-Oct-11	4.5	6.9	6.2	5.1	---	4.9	3.8	6.8	5	6.9	---	5.2
	26-Apr-12	4.6	6.9	6.2	4.9	---	5	3.9	6.8	5	7	---	4.9
	16-Oct-12	4.7	7.1	6.3	4.8	---	5	4.1	7.1	4.7	7.1	---	6.0
	11-Apr-13	4.7	6.8	6.3	4.5	---	4.9	4.2	7	4.7	6.9	---	5.7
	30-Oct-13	4.7	6.5	6.3	4.9	---	5.1	4.6	6.9	5.3	7	---	6.1
	9-Apr-14	154	489	362	95	---	143	623	481	190	441	---	2580.0
	22-Oct-14	4.7	6.4	6.2	4.9	---	5.0	5.2	6.7	4.9	6.8	---	6.1

TABLE 9A

SUMMARY OF FIELD PARAMETERS
C.R.S.W.M.A. TUSCARORA LONG-TERM REGIONAL LF PHASES 1 and 2

	Sample	Background		Downgraident									
Analyte	Collection Date	MW-12S	MW-12D	MW-7	MW-8	MW-9	MW-10	MW-11S	MW-11D	MW-13S	MW-13D	MW-14	MW-14R
Temperature	1-Jul-99	---	---	20	23	21	23	20	24	---	---	---	---
[°C]	1-Aug-99	---	---	23	23	23	24	23	20	---	---	---	---
	1-Oct-99	---	---	20	21	20	21	20	21	---	---	---	---
	1-Nov-99	---	---	17	18	18	18	17	17	---	---	---	---
	1-Apr-00	---	---	15	15	15	14	14	17	---	---	---	---
	1-Oct-00	---	---	20	20	20	19	20	20	---	---	---	---
	1-Apr-01	---	---	17.0	15	14	14	14	14	---	---	---	---
	1-Oct-01	---	---	20.0	21.0	20	21.0	21.0	19	---	---	---	---
	2-Apr-02	17	17	17.0	18	17	17	17	16	---	---	---	---
	1-Oct-02	25	22	25.0	26.0	24	24.0	24.0	23	---	---	---	---
	1-Apr-03	16	18	15.0	15	16	16	15	15	---	---	---	---
	1-Oct-03	20	19	20.0	19	20	20	21	21	---	---	---	---
	15-Apr-04	15	17	15.0	16	14	14	14	12	15.0	14	15.0	---
	14-Oct-04	21	20	21.0	21	---	21	22	21	21.0	22	21	---
	5-Apr-05	15	15	16.0	15	---	14	15	15	14.0	14	13	---
	27-Oct-05	21	21.0	21.0	21	---	21	21	22	20	21	21.0	---
	21-Apr-06	17	18.0	18.0	17	---	16	15	17	16	17	17.0	---
	12-Oct-06	22	19.0	22.0	23	---	22	23	19	21	19	---	---
	26-Apr-07	17	18.0	17.0	17	---	15	16	18	4.9	7.2	---	---
	11-Oct-07	21	19	22	22	---	21	21	18	20	18	---	22
Resample	4-Dec-07	18.2	18.9	17.4	18.5	---	16.7	13.8	17.9	16	17.1	---	16.9
	3-Apr-08	16	18.0	15	15	---	14	15	17	16	17	---	15
Resample	15-May-08	17.4	---	---	17.8	---	17.1	---	---	---	---	---	---
	28-Oct-08	21	18.0	20	20	---	19	20	20	18	19	---	20
	8-Apr-09	14	17.0	14	14	---	13	14	15	14	15	---	13
	27-Oct-09	21	19.0	22	21	---	21	22	20	20	20	---	21
	8-Apr-10	16	19.0	16	15	---	16	15	16	16	16	---	16
	13-Oct-10	22	19.0	23	23	---	22	22	21	22	21	---	22
	27-Apr-11	17	18	18	18	---	17	16	17	17	17	---	18
	20-Oct-11	20	17	21	19	---	19.0	20.0	19.0	20.0	18.0	---	20.0
	26-Apr-12	17	18	18	18	---	17.0	17.0	17.0	17.0	17.0	---	17.0
	16-Oct-12	22	19	22	22	---	21.0	21.0	21.0	21.0	20.0	---	22.0
	11-Apr-13	16	19	16	15	---	15.0	15	17	15	17.0	---	15.0
	30-Oct-13	21	19	21.0	21	---	21	21	20.0	20	19.0	---	20.0
	9-Apr-14	14	17	16.0	14	---	13	13	14.0	14	16.0	---	14.0
	22-Oct-14	21	21	21	21	---	21	21	21	21	21	---	21
Turbidity	1-Jul-99	---	---	450	650	18.0	3.0	75	70.0	---	---	---	---
[NTU]	1-Aug-99	---	---	95	500	50.0	100.0	330	120.0	---	---	---	---
	1-Oct-99	---	---	250	110	100.0	31.0	15	26.0	---	---	---	---
	1-Nov-99	---	---	110	290	150	100.0	75	130	---	---	---	---
	1-Apr-00	---	---	50	500	140	37	22	25	---	---	---	---
	1-Oct-00	---	---	70	110	17	16	33	31	---	---	---	---
	1-Apr-01	---	---	80	70	14	12	32	34	---	---	---	---
	1-Oct-01	---	---	60	290	5	10	20	70	---	---	---	---
	2-Apr-02	14	24	35	32	25	11	24	8	---	---	---	---
	1-Oct-02	3	14	22	8.3	23	10	6.2	50	---	---	---	---
	1-Apr-03	60	120	33	120	24	22	12	21	---	---	---	---
	1-Oct-03	18	22	55	27	65	25	19	26	---	---	---	---
	15-Apr-04	70	29	65	400	40	32	37	21	220	65	75	---
	14-Oct-04	39	26	38	40	---	60	140	39	45	30	37	---
	5-Apr-05	39	32	70	170	---	65	27	12	190	38	100	---
	27-Oct-05	19	39	200	110	---	37	55	25	26	50	26	---
	21-Apr-06	5.9	17	56	4.8	---	4.2	1.6	37	3.7	132	1.5	---
	12-Oct-06	19	160	50	24	---	34	3.0	60	19	70	---	---
	26-Apr-07	200	130	95	12	---	50	6.6	90	2.5	110	---	---
	11-Oct-07	80	90	90	45	---	8	7.1	60	40	80	---	4.4
Resample	4-Dec-07	53.1	50.4	90.3	811	---	31.4	34.3	9.86	46.1	17.85	---	28.8
	3-Apr-08	35.00	6.4	13	50	---	75.00	7.2	65	26	33.00	---	5.20
Resample	15-May-08	26.10	---	---	630	---	31.60	---	---	---	---	---	---
	23-Oct-08	18.00	75.00	200	320	---	70.00	60	40	28	60.0	---	80
	8-Apr-09	38.00	70.00	75	250	---	90	39	50	40	120	---	27
	27-Oct-09	13.00	100.0	170	290	---	70	33	45	29	65	---	60.0
	8-Apr-10	19.00	33.0	130	190	---	90.00	38	45	90	55.0	---	26.0
	13-Oct-10	11.00	36.0	70	170	---	90.00	31	50	280	70.0	---	45.0
	27-Apr-11	16.00	60.0	85	60	---	75.00	27	55	30	75.0	---	17.0
	20-Oct-11	9.20	100.0	120	38	---	110.00	68	59	34	70.0	---	70.0
	26-Apr-12	29.00	100.0	85	140	---	310.00	65	65	25	95.0	---	110.0
	16-Oct-12	7.50	29.0	74.0	65.0	---	40.00	31	40	25	70.0	---	290.0
	11-Apr-13	16	45.0	40.0	60	---	35	17	60	40	75	---	120
	30-Oct-13	14	45.0	80.0	80	---	70	37	50	34	60	---	230
	9-Apr-14	36	70.0	95.0	100	---	33	26	50	30	85	---	38
	22-Oct-14	14	55	90	130	---	75	20	35	16	60	---	160

Notes:
1. Measurments taken in the Field by Environment 1
2. --- = No Data Avaliable

TABLE 9B
SUMMARY of FIELD PARAMETERS
C.R.S.W.M.A. LONG-TERM REGIONAL LF PHASE 3

Analyte	Sample Collection Date	MW-15S	MW-15D	MW-16S	MW-16D	MW-17S	MW-17D	MW-18S	MW-18D	MW-19S	MW-19D
Conductivity	31-Oct-13	189	418	600	514	326	138	1075	382	107	469
[uMhos]	10-Apr-14	290	433	833	649	463	390	1203	407	103	529
	23-Oct-14	740	424	1015	498	431	402	1264	473	89	391
pH	31-Oct-13	4.6	6.9	3.9	6.7	3.9	9.1	3.9	6.5	5.8	6.6
[standard units]	10-Apr-14	5.4	6.9	4.1	6.5	3.9	6.4	3.9	6.6	6.5	6.8
	23-Oct-14	5.2	6.9	3.9	6.4	3.9	7	3.8	6.6	5.8	6.7
Temperature	31-Oct-13	21	20	21	21	21	22	21	20	22	21
[°C]	10-Apr-14	15	17	15	16	15	16	14	16	15	16
	23-Oct-14	20	20	21	20	19	19	20	21	21	21
Turbidity	31-Oct-13	18	65	50	80	270	85.5	80	26.0	65.0	600
[NTU]	10-Apr-14	21	11	11	55	17	22	12	35.0	55.0	120
	23-Oct-14	7.8	20	36	21	120	8.4	7.6	16	34	26

Notes:
1. Measurements entered with units and digits as reported by laboratory report.

TABLE 10

HISTORICAL DETECTIONS in GROUNDWATER
C.R.S.W.M.A. TUSCARORA LF - LEACHATE STORAGE AREA

	Sample			Upgradient		Downgraident																				
Anayte	Collection Date	DL	SWSL	LST-5S		LST-1S		LST-1D		LST-2S		LST-2D		LST-3S		LST-3D		LST-4S		LST-4D		LST-5D		LST-6S		LST-6D		Blanks	
Inorganic Compounds																													
Antimony	1-Jul-93	NR	5	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Aug-93	NR	5	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Sep-93	NR	5	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Sep-93	NR	5	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Apr-94	NR	2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		2		ND	
	1-Oct-94	NR	30	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Apr-95	NR	30	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Oct-95	NR	30	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Apr-96	NR	30	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Oct-96	NR	30	ND		ND		ND		ND		ND		ND		---		ND		---		ND		ND		---		ND	
	1-Apr-97	NR	30	ND		ND		ND		ND		ND		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-97	NR	30	ND		ND		ND		ND		ND		ND		---		ND		---		ND		ND		---		ND	
	1-Apr-98	NR	30	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-98	NR	30	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Mar-99	NR	30	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-99	NR	30	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Apr-00	NR	30	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-00	NR	30	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Apr-01	NR	30	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-01	NR	30	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	2-Apr-02	NR	30	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	3-Oct-02	NR	30	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	2-Apr-03	NR	30	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-03	NR	30	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	15-Apr-04	NR	30	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	14-Oct-04	NR	30	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	5-Apr-05	NR	30	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	27-Oct-05	NR	30	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	21-Apr-06	NR	30	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	12-Oct-06	NR	30	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	26-Apr-07	NR	6.0	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	10-Oct-07	0.05	6.0	0.2	B	0.1	B	0.1	B	0.1	B	---		0.1	B	---		0.5	B	---		0.1	B	0.1	B	---		0.1	J
GWPS = 1.4 µg/L (10/23/07)	3-Apr-08	0.08	6.0	0.1	B	ND		ND		ND		---		ND		---		ND		---		ND		0.5	B	---		0.1	J
	28-Oct-08	0.08	6.0	0.6	J	ND		0.2	J	ND		---		0.4	J	---		0.1	J	---		0.2	J	0.1	J	---		ND	
	8-Apr-09	0.06	6.0	0.2	J	0.2	J	0.1	J	ND		---		ND		---		ND		---		0.1	J	ND		---		ND	
	27-Oct-09	0.06	6.0	0.3	J	0.1	J	0.7	J	0.3	J	---		0.2	J	---		ND		---		0.2	J	0.1	J	---		ND	
	8-Apr-10	0.22	6.0	ND		ND		ND		ND		---		ND		---		ND		---		0.4	B	ND		---		0.7	J
GWPS = 1 µg/L (8/1/10)	13-Oct-10	0.22	6.0	0.5	J	ND		ND		ND		---		0.6	J	---		ND		---		ND		ND		---		ND	
	27-Apr-11	0.14	6.0	0.36	J	ND		ND		1.5	J	---		ND		---		0.30	J	---		ND		ND		---		ND	
	20-Oct-11	0.14	6.0	0.31	J	ND		0.18	J	ND		---		ND		---		ND		---		ND		0.34	J	---		ND	
	26-Apr-12	0.14	6.0	0.29	J	ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	16-Oct-12	0.02	6.0	0.88	J	0.17	J	0.64	J	0.11	J	---		0.08	J	---		0.09	J	---		0.785		0.04	J	---		ND	
	11-Apr-13	0.02	6.0	0.72	J	0.14	J	0.19	J	0.05	J	---		0.12	J	---		0.05	J	---		0.47	J	0.15	J	---		ND	
	30-Oct-13	0.02	6.0	0.86	J	0.11	B	0.80	J	0.19	B	---		0.14	B	---		0.14	B	---		0.43	J	0.10	B	---		0.08	J
	9-Apr-14	0.02	6.0	0.28	J	0.09	J	0.83	J	0.39	J	ND		0.18	J	---		0.04	J	---		0.55	J	0.09	J	---		ND	
	22-Oct-14	0.12	6.0	1.2	J	ND		0.22	J	ND		---		ND		---		ND		---		ND		ND		---		ND	
Arsenic	1-Jul-93	NR	5	ND		9		ND		ND		ND		ND		ND		16		ND		5		ND		27		ND	
	1-Aug-93	NR	5	ND		ND		ND		ND		ND		ND		ND		15		ND		ND		ND		6		ND	
	1-Sep-93	NR	5	ND		ND		ND		5		153		ND		ND		17		ND		ND		ND		ND		ND	
	1-Sep-93	NR	5	ND		ND		ND		ND		8		ND		ND		37		ND		ND		ND		ND		ND	
	1-Apr-94	NR	5	ND		ND		ND		ND		ND		ND		ND		9		ND		ND		ND		ND		ND	
	1-Oct-94	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Apr-95	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Oct-95	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Apr-96	NR	10	ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Oct-96	NR	10	ND		ND		ND		ND		ND		ND		---		ND		---		ND		ND		---		ND	
	1-Apr-97	NR	10	ND		ND		ND		ND		ND		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-97	NR	10	ND		ND		ND		ND		ND		ND		---		18		---		ND		ND		---		ND	
	1-Apr-98	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-98	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Mar-99	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-99	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Apr-00	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-00	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Apr-01	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-01	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	2-Apr-02	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	3-Oct-02	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	2-Apr-03	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-03	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	15-Apr-04	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	14-Oct-04	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	5-Apr-05	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	27-Oct-05	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	21-Apr-06	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	12-Oct-06	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	10-Oct-07	0.47	10.0	2.4	J	1.0	J	ND		3.0	J	---		1.7	J	---		13		---		ND		1.0	J	---		ND	
NC 2L = 50 µg/L (10/23/07) Resamp	4-Dec-07	2.7	5.0	---		---		---		---		---		---		---		9.5		---		---		---		---		ND	
	3-Apr-08	0.07	10.0	1.2	J	0.6	J	0.4	J	0.3	J	---		1.7	J	---		11		---		0.4	J	0.5	J	---		ND	
	28-Oct-08	0.07	10.0	0.9	J	0.7	J	1.0	J	1.8	J	---		1.7	J	---		3.1	J	---		0.8	J	1.5	J	---		ND	
	8-Apr-09	0.17	10.0	1.9	J	0.8	B	0.8	B	1.0	B	---		1.0	B	---		2.1	J	---		0.9	B	1.5	J	---		0.2	J
	27-Oct-09	0.17	10.0	1.7	J	0.8	J	0.7	J	0.6	J	---		0.6	J	---		4.7	J	---		1	J	2.1	J	---		ND	
NC 2L = 10 µg/L (1/1/10)	8-Apr-10	0.04	10.0	1.9	J	0.5	J	0.3	J	0.8	J	---		0.2	J	---		0.9	J	---		1.3	J	0.9	J	---		ND	
	13-Oct-10	0.04	10.0	4.6	J	0.8	J	1.3	J	0.7	J	---		0.6	J	---		1.8	J	---		1.9	J	1	J	---		ND	
	27-Apr-11	0.10	10.0	1.7	J	0.41	J	0.44	J	0.72	J	---		0.31	J	---		1.7	J	---		1.4	J	0.54	J	---		ND	
	20-Oct-11	0.10	10.0	1.6	J	0.53	J	0.70	J	0.72	J	---		0.54	J	---		1.4	J	---		0.77	J	0.39	J	---		ND	
	26-Apr-12	0.10	10.0	1.5	J	0.29	J	0.58	J	0.73	J	---		0.54	J	---		1.4	J	---		0.77	J	0.39	J	---		ND	
	16-Oct-12	0.13	10.0	1.6	B	0.67	B	1.0	B	0.86	B	---		0.52	B	---		2.0	B	---		2.6	J	0.47	B	---		0.40	J
	11-Apr-13	0.05	10.0	1.3	J	0.75	B	0.83	J	0.75	B	---		0.38	B	---		1.2	J	---		1.1	J	0.37	B	---		0.15	J
	30-Oct-13	0.05	10.0	2.1	J	0.57	B	0.90	B	0.74	B	---		0.50	B	---		3.5	J	---		1.3	J	0.57	B	---		0.20	J
	9-Apr-14	0.05	10.0	1.7	J	0.14	J	1.2	J	1.4	J	---		0.82	J	---		2.0	J	---		2.2	J	0.4	J	---		ND	
	22-Oct-14	0.10	10.0	1.6	J	0.62	J	0.42	J	0.46	J	---		0.56	J	---		1.1	J	---		0.72	J	0.22	J	---		ND	
Barium	1-Jul-93	NR	50	272		424		260		151		152		128		160		208		204		351		126		NA		ND	
	1-Aug-93	NR	50	196		216		144		133		128		240		242		126		256		292		68		112		ND	
	1-Sep-93	NR	50	92		71		212		75		460		79		104		194		94		120		61		62		ND	
	1-Sep-93	NR	50	113		194		120		94		121		121		170		155		132		184		74		77		ND	
	1-Apr-94	NR	50	ND		84		69		ND		94		ND		52		80		ND		62		90		ND		ND	
	1-Oct-94	NR	500	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Apr-95	NR	500	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Oct-95	NR	500	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Apr-96	NR	500	ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Oct-96	NR	500	ND		ND		ND		ND		ND		ND		---		ND		---		ND		ND		---		ND	
	1-Apr-97	NR	500	ND		ND		ND		ND		ND		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-97	NR	500	ND		ND		ND		ND		ND		ND		---		ND		---		ND		ND		---		ND	
	1-Apr-98	NR	500	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-98	NR	500	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Mar-99	NR	500	ND		ND		ND		ND		---		ND		---		ND		---		---		ND		---		ND	
	1-Oct-99	NR	500	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Apr-00	NR	500	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-00	NR	500	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Apr-01	NR	500	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-01	NR	500	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	2-Apr-02	NR	500	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	3-Oct-02	NR	500	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	2-Apr-03	NR	500	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-03	NR	500	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	15-Apr-04	NR	500	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	14-Oct-04	NR	500	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	5-Apr-05	NR	500	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	27-Oct-05	NR	500	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	21-Apr-06	NR	500	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	12-Oct-06	NR	500	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	26-Apr-07	NR	100	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	10-Oct-07	0.04	100.0	30.9	J	63.7	J	37.3	J	42	J	---		91.5	J	---		184		---		51.8	J	34	J	---		0.2	J
NC 2L = 2,000 µg/L (10/23/07)	3-Apr-08	0.11	100.0	27.9	J	66.0	J	38.9	J	36.8	J	---		119		---		58.3	J	---		58.4	J	43.8	J	---		ND	
	28-Oct-08	0.11	100.0	34	J	53.5	J	47.6	J	64.8	J	---		158		---		66.2	J	---		71.8	J	84.8	J	---		0.2	J
	8-Apr-09	0.04	100.0	33.1	J	61.2	J	44.5	J	55.6	J	---		77.3	J	---		52.9	J	---		85.0	J	79.7	J	---		0.2	J
	27-Oct-09	0.04	100.0	37.9	J	48.8	J	35.3	J	43.3	J	---		101		---		68.2	J	---		82.7	J	81.7	J	---		0.1	J
NC 2L = 700 µg/L (1/1/10)	8-Apr-10	0.03	100.0	31.9	J	58.1	J	40.2	J	60.4	J	---		45.7	J	---		33.1	J	---		96.7	J	78.6	J	---		0.1	J
	13-Oct-10	0.03	100.0	161		38.3	J	36.2	J	32	J	---		89.1	J	---		53.2	J	---		98.5	J	61	J	---		0.2	J
	27-Apr-11	0.02	100.0	41.5	J	46.4	J	38.5	J	37.8	J	---		59.4	J	---		41.1	J	---		95.4	J	51.6	J	---		0.10	J
	20-Oct-11	0.02	100.0	37.6	J	33.8	J	41.0	J	29.4	J	---		115		---		58.6	J	---		68.1	J	41.3	J	---		0.10	J
	26-Apr-12	0.02	100.0	43.7	J	52.5	J	45.2	J	35.8	J	---		68.9	J	---		49.9	J	---		92.7	J	55.6	J	---		0.12	J
	16-Oct-12	0.07	100.0	37.8	J	57.7	J	49.3	J	52.9	J	---		57.1	J	---		58.4	J	---		96.3	J	44.8	J	---		0.28	J
	11-Apr-13	0.06	100.0	35.0	J	57.9	J	40.9	J	31.3	J	---		35.6	J	---		41.7	J	---		78.5	J	56.8	J	---		0.06	J
	30-Oct-13	0.06	100.0	31.1	J	37.3	J	47.8	J	32.6	J	---		68.7	J	---		74.9	J	---		85.0	J	50.8	J	---		0.24	J
	9-Apr-14	0.06	100.0	32.7	J	70.9	J	44.9	J	47.3	J	---		42.5	J	---		62	J	---		94.5	J	72.6	J	---		ND	
	22-Oct-14	0.12	100.0	33.7	J	62.4	J	47.1	J	66.3	J	---		60.6	J	---		82.8	J	---		66.6	J	54.7	J	---		ND	

TABLE 10

HISTORICAL DETECTIONS in GROUNDWATER
C.R.S.W.M.A. TUSCARORA LF - LEACHATE STORAGE AREA

	Sample			**Upgradient**	**Downgraident**											
Anayte	Collection Date	DL	SWSL	LST-5S	LST-1S	LST-1D	LST-2S	LST-2D	LST-3S	LST-3D	LST-4S	LST-4D	LST-5D	LST-6S	LST-6D	Blanks
Beryllium	1-Jul-93	NR	1	3	4	ND	2	ND	2	ND	4	3	3	ND	4	ND
	1-Aug-93	NR	1	2	2	ND	2	ND	4	ND	3	ND	ND	ND	2	ND
	1-Sep-93	NR	1	1	ND	ND	2	25	2	ND	4	ND	ND	ND	ND	ND
	1-Sep-93	NR	1	2	3	ND	ND	1	2	1	4	ND	ND	ND	ND	ND
	1-Apr-94	NR	1	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND
	1-Oct-94	NR	2	ND	ND	ND	ND	ND	2	ND	2	ND	ND	ND	ND	ND
	1-Apr-95	NR	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Oct-95	NR	2	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Apr-96	NR	2	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
	1-Oct-96	NR	2	ND	ND	ND	ND	ND	ND	---	3	---	ND	ND	---	ND
	1-Apr-97	NR	2	ND	3	ND	ND	ND	ND	---	ND	---	ND	ND	---	ND
	1-Oct-97	NR	2	3	ND	ND	2	ND	ND	---	3	---	ND	ND	---	ND
	1-Apr-98	NR	2	ND	ND	ND	2.1	---	ND	---	3.2	---	ND	ND	---	ND
	1-Oct-98	NR	2	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Mar-99	NR	2	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Oct-99	NR	2	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Apr-00	NR	2	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Oct-00	NR	2	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Apr-01	NR	2	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Oct-01	NR	2	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	2-Apr-02	NR	2	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	3-Oct-02	NR	2	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	2-Apr-03	NR	2	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Oct-03	NR	2	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	15-Apr-04	NR	2	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	14-Oct-04	NR	2	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	5-Apr-05	NR	2	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	27-Oct-05	NR	2	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	21-Apr-06	NR	2	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	12-Oct-06	NR	2	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	26-Apr-07	NR	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	10-Oct-07	0.08	1.0	ND	0.5 J	0.1 J	0.3 J	---	0.5 J	---	1.6	---	0.1 J	0.1 J	---	ND
GWPS = 4 µg/L (10/23/07)	3-Apr-08	0.06	1.0	ND	0.4 J	0.1 J	0.2 J	---	1.2	---	0.4 J	---	0.2 J	0.2 J	---	ND
	28-Oct-08	0.06	1.0	0.1 J	0.5 J	0.1 J	0.6 J	---	1.0	---	0.6 J	---	0.3 J	0.4 J	---	ND
	8-Apr-09	0.06	1.0	0.2 J	0.5 J	0.1 J	0.4 J	---	0.5 J	---	0.6 J	---	0.2 J	0.4 J	---	ND
	27-Oct-09	0.06	1.0	0.2 J	0.3 J	0.2 J	0.4 J	---	0.7 J	---	0.8 J	---	0.3 J	0.5 J	---	ND
	8-Apr-10	0.02	1.0	0.1 B	0.3 B	0.1 B	0.4 B	---	0.3 B	---	0.3 B	---	0.3 B	0.3 B	---	0.1 J
GWPS = 4 µg/L (10/1/10)	13-Oct-10	0.02	1.0	0.1 J	0.3 J	0.2 J	0.3 J	---	0.6 J	---	0.6 J	---	0.2 J	0.3 J	---	ND
	27-Apr-11	0.02	1.0	0.15 J	0.29 J	0.07 J	0.28 J	---	0.30 J	---	0.33 J	---	0.23 J	0.17 J	---	ND
	20-Oct-11	0.02	1.0	0.22 J	0.24 J	0.12 J	0.67 J	---	0.67 J	---	0.42 J	---	0.20 J	0.22 J	---	ND
	26-Apr-12	0.02	1.0	0.17 J	0.33 J	0.11 J	0.34 J	---	0.40 J	---	0.34 J	---	0.17 J	0.18 J	---	ND
	16-Oct-12	0.07	1.0	ND	0.42 J	0.13 J	0.40 J	---	0.25 J	---	0.40 J	---	0.47 J	0.20 J	---	ND
	11-Apr-13	0.03	1.0	0.16 J	0.43 J	0.08 J	0.27 J	---	0.24 J	---	0.36 J	---	0.30 J	0.20 J	---	ND
	30-Oct-13	0.03	1.0	0.12 B	0.24 J	0.13 B	0.25 J	---	0.32 J	---	0.58 J	---	0.22 J	0.19 B	---	0.04 J
	9-Apr-14	0.03	1.0	0.09 J	0.43 J	0.07 J	0.35 J	---	0.23 J	---	0.49 J	---	0.31 J	0.26 J	---	ND
	22-Oct-14	0.04	1.0	0.08 J	0.42 J	ND	0.38 J	---	0.22 J	---	0.49 J	---	0.24 J	0.17 J	---	ND
Cadmium	1-Jul-93	NR	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND
	1-Aug-93	NR	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Sep-93	NR	1	ND	ND	ND	ND	5	ND	ND	ND	ND	ND	ND	ND	ND
	1-Sep-93	NR	1	ND	ND	ND	ND	5	ND	ND	ND	ND	ND	ND	ND	ND
	1-Apr-94	NR	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Oct-94	NR	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Apr-95	NR	1	ND	ND	ND	ND	ND	1	ND	1	ND	ND	ND	ND	ND
	1-Oct-95	NR	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Apr-96	NR	1	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
	1-Oct-96	NR	1	ND	ND	ND	ND	ND	ND	---	ND	---	ND	ND	---	ND
	1-Apr-97	NR	1	ND	ND	ND	ND	ND	ND	---	ND	---	ND	ND	---	ND
	1-Oct-97	NR	1	1	ND	ND	ND	ND	ND	---	ND	---	ND	ND	---	ND
	1-Apr-98	NR	1	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Oct-98	NR	1	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Mar-99	NR	1	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Oct-99	NR	1	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Apr-00	NR	1	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Oct-00	NR	1	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Apr-01	NR	1	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Oct-01	NR	1	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	2-Apr-02	NR	1	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	3-Oct-02	NR	1	2	ND	ND	ND	---	ND	---	ND	---	1	ND	---	ND
	2-Apr-03	NR	1	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Oct-03	NR	1	ND	ND	ND	ND	---	ND	---	ND	---	5	2	---	ND
	15-Apr-04	NR	1	ND	3	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	14-Oct-04	NR	1	1	ND	2	ND	---	ND	---	ND	---	1	1	---	ND
	5-Apr-05	NR	1	ND	1	1	ND	---	1	---	1	---	ND	2	---	ND
	27-Oct-05	NR	1	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	21-Apr-06	NR	1	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	12-Oct-06	NR	1	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	26-Apr-07	NR	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	10-Oct-07	0.06	1.0	0.4 B	0.5 B	0.1 B	0.5 B	---	0.5 B	---	0.5 B	---	0.2 B	1.1	---	0.1 J
NC 2L = 1.75 µg/L (10/23/07)	3-Apr-08	0.04	1.0	0.1 J	0.1 J	ND	0.1 J	---	0.3 J	---	0.2 J	---	0.1 J	0.4 J	---	ND
	28-Oct-08	0.04	1.0	0.1 J	0.3 J	0.3 J	0.1 J	---	0.4 J	---	0.2 J	---	0.1 J	0.1 J	---	ND
	8-Apr-09	0.04	1.0	0.1 J	0.3 J	0.1 J	0.2 J	---	0.5 J	---	0.2 J	---	0.2 J	0.3 J	---	ND
	27-Oct-09	0.04	1.0	0.7 J	0.1 J	ND	0.2 J	---	0.1 J	---	0.7 J	---	0.1 J	1	---	ND
NC 2L = 2 µg/L (1/1/10)	8-Apr-10	0.02	1.0	0.1 B	0.3 B	0.1 B	0.3 B	---	0.1 B	---	0.4 B	---	0.8 J	0.1 B	---	0.1 J
	13-Oct-10	0.02	1.0	0.4 J	0.2 J	0.2 J	0.3 J	---	0.1 J	---	0.2 J	---	0.1 J	0.1 J	---	ND
	27-Apr-11	0.02	1.0	0.12 J	0.18 J	0.05 J	0.18 J	---	0.07 J	---	0.21 J	---	0.17 J	0.06 J	---	ND
	20-Oct-11	0.02	1.0	0.04 J	ND	0.20 J	0.07 J	---	0.06 J	---	0.15 J	---	0.08 J	ND	---	ND
	26-Apr-12	0.02	1.0	0.12 J	0.16 J	0.16 J	0.08 J	---	0.18 J	---	0.10 J	---	0.10 J	ND	---	ND
	16-Oct-12	0.03	1.0	0.17 J	0.28 J	0.13 J	0.44 J	---	0.36 J	---	0.39 J	---	0.50 J	0.14 J	---	ND
	11-Apr-13	0.05	1.0	0.24 J	0.51 J	0.13 J	0.06 J	---	0.20 J	---	0.21 J	---	0.22 J	0.05 J	---	ND
	30-Oct-13	0.05	1.0	0.28 J	0.05 J	0.17 J	0.17 J	---	0.23 J	---	0.32 J	---	0.15 J	ND	---	ND
	9-Apr-14	0.05	1.0	0.58 J	0.14 J	0.46 J	0.42 J	---	0.05 J	---	0.22 J	---	0.55 J	0.09 J	---	ND
	22-Oct-14	0.04	1.0	0.22 J	0.12 J	0.11 J	0.17 J	---	0.10 J	---	0.26 J	---	0.20 J	ND	---	ND
Total Chromium	1-Jul-93	NR	5	36	72	14	32	8	7	ND	ND	26	8	ND	35	ND
	1-Aug-93	NR	5	18	17	ND	16	ND	23	ND	ND	ND	ND	ND	11	ND
	1-Sep-93	NR	5	19	12	ND	17	136	9	ND	ND	ND	ND	ND	6	ND
	1-Sep-93	NR	5	19	29	ND	8	9	ND	ND	ND	ND	ND	ND	ND	ND
	1-Apr-94	NR	5	ND	9	34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Oct-94	NR	10	ND	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Apr-95	NR	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Oct-95	NR	10	ND	ND	ND	22	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Apr-96	NR	10	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
	1-Oct-96	NR	10	ND	13	ND	ND	ND	ND	---	27	---	ND	10	---	ND
	1-Apr-97	NR	10	16	32	ND	ND	ND	ND	---	20	---	10	14	---	ND
	1-Oct-97	NR	10	15	ND	ND	16	ND	ND	---	32	---	21	33	---	ND
	1-Apr-98	NR	10	32	ND	ND	12	---	ND	---	26	---	ND	23	---	ND
	1-Oct-98	NR	10	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Mar-99	NR	10	17	11	ND	18	---	ND	---	34	---	ND	10	---	ND
	1-Oct-99	NR	10	ND	10	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Apr-00	NR	5	28	170	ND	18	---	ND	---	51	---	10	40	---	ND
	1-Oct-00	NR	10	ND	ND	ND	11	---	ND	---	ND	---	ND	ND	---	ND
	1-Apr-01	NR	10	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Oct-01	NR	10	ND	ND	ND	18	---	ND	---	ND	---	ND	ND	---	ND
	2-Apr-02	NR	10	20	ND	ND	19	---	ND	---	40	---	ND	ND	---	ND
	3-Oct-02	NR	10	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	2-Apr-03	NR	10	14	ND	ND	ND	---	ND	---	ND	---	ND	10	---	ND
	1-Oct-03	NR	10	14	ND	ND	17	---	ND	---	19	---	ND	ND	---	ND
	15-Apr-04	NR	10	11	20	ND	22	---	ND	---	ND	---	11	13	---	ND
	14-Oct-04	NR	10	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	5-Apr-05	NR	10	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	27-Oct-05	NR	10	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	21-Apr-06	NR	10	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	12-Oct-06	NR	10	ND	ND	ND	ND	---	17	---	ND	---	ND	ND	---	ND
	26-Apr-07	NR	10	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	10-Oct-07	0.24	10.0	3.2 B	1.1 B	1.2 B	1.4 B	---	1.6 B	---	2 B	---	1.4 B	2.2 B	---	1.2 J
NC 2L = 50 µg/L (10/23/07)	3-Apr-08	0.11	10.0	0.5 J	ND	ND	1.2 J	---	1.5 J	---	2.1 J	---	0.4 J	2.7 J	---	ND
	28-Oct-08	0.11	10.0	3.9 J	5.4 J	1.3 J	8.8 J	---	3.1 J	---	7.7 J	---	1.7 J	9.2 J	---	ND
	8-Apr-09	0.10	10.0	6.4 J	1.9 J	0.2 J	2.8 J	---	2.4 J	---	6.2 J	---	1.1 J	8.0 J	---	ND
	27-Oct-09	0.10	10.0	8.7 J	3.8 J	0.7 J	4.2 J	---	1.6 J	---	11	---	1 J	11	---	ND
NC 2L = 10 µg/L (1/1/10)	8-Apr-10	0.03	10.0	6.1 J	2.1 J	0.6 J	4.3 J	---	1.7 J	---	5.5 J	---	1.3 J	7.4 J	---	ND
	13-Oct-10	0.03	10.0	8.7 J	0.6 J	0.7 J	1.6 J	---	1.3 J	---	6.2 J	---	0.7 J	6.6 J	---	ND
	27-Apr-11	0.04	10.0	6.7 J	1.5 J	0.40 B	3.9 J	---	1.1 J	---	6.1 J	---	1.2 J	3.9 J	---	0.18 J
	20-Oct-11	0.04	10.0	10	2.6 J	1.2 J	3.7 J	---	1.7 J	---	5.9 J	---	1.5 J	4.8 J	---	0.18 J
	26-Apr-12	0.04	10.0	9.8 J	3.1 J	1.0 J	5.8 J	---	1.7 J	---	6.2 J	---	1.2 J	6.8 J	---	0.09 J
	16-Oct-12	0.18	10.0	3.1 J	3.9 J	1.0 J	2.8 J	---	2.4 J	---	**19**	---	2.7 J	3.4 J	---	ND
	11-Apr-13	0.04	10.0	6.6 J	3.3 J	0.38 J	3.3 J	---	1.8 J	---	5.0 J	---	1.3 J	3.9 J	---	ND
	30-Oct-13	0.04	10.0	6.0 J	2.9 J	0.67 J	3.3 J	---	2.5 J	---	**11**	---	0.85 J	4.3 J	---	0.11 J
	9-Apr-14	0.04	10.0	4.7 J	3.1 J	0.34 J	4.8 J	---	2.7 J	---	7.0 J	---	1.7 J	4.6 J	---	ND
	22-Oct-14	0.14	10.0	4.5 J	1.8 J	0.52 J	0.87 J	---	4.6 J	---	4.6 J	---	1.5 J	1.0 J	---	ND

TABLE 10

HISTORICAL DETECTIONS in GROUNDWATER
C.R.S.W.M.A. TUSCARORA LF - LEACHATE STORAGE AREA

	Sample			Upgradient		Downgraident																													
Anayte	Collection Date	DL	SWSL	LST-5S		LST-1S		LST-1D		LST-2S		LST-2D		LST-3S		LST-3D		LST-4S		LST-4D		LST-5D		LST-6S		LST-6D		Blanks	
Cobalt	1-Jul-93	NR	20	29		36		28		2		25		71		24		258		28		21		ND		52		ND	
	1-Aug-93	NR	20	ND		ND		ND		ND		ND		62		ND		117		ND		ND		24		42		ND	
	1-Sep-93	NR	20	ND		ND		ND		ND		186		83		ND		205		ND		ND		ND		ND		ND	
	1-Sep-93	NR	20	ND		ND		ND		ND		ND		61		ND		188		ND		ND		ND		ND		ND	
	1-Apr-94	NR	10	19	B	25		35		18	B	37	B	81	B	41	B	37	B	31	B	31	B	20	B	36	B	18	
	1-Oct-94	NR	10	ND		ND		ND		ND		ND		ND		ND		14		ND		ND		ND		ND		ND	
	1-Apr-95	NR	10	ND		ND		ND		ND		ND		53		ND		14		ND		ND		ND		ND		ND	
	1-Oct-95	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Apr-96	NR	10	ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Oct-96	NR	10	ND		ND		ND		ND		ND		ND		---		ND		---		ND		ND		---		ND	
	1-Apr-97	NR	10	ND		ND		ND		ND		ND		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-97	NR	10	ND		ND		ND		ND		ND		ND		---		ND		---		ND		ND		---		ND	
	1-Apr-98	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-98	NR	10	ND		ND		ND		ND		---		13		---		ND		---		ND		ND		---		ND	
	1-Mar-99	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-99	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Apr-00	NR	10	ND		ND		ND		ND		---		11		---		ND		---		ND		ND		---		ND	
	1-Oct-00	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Apr-01	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-01	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	2-Apr-02	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	3-Oct-02	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	2-Apr-03	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-03	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	15-Apr-04	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	14-Oct-04	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	5-Apr-05	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	27-Oct-05	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	21-Apr-06	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	12-Oct-06	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	10-Oct-07	0.41	10.0	0.5	J	0.5	J	ND		0.5	J	---		5.8	J	---		20		---		ND		ND		---		ND	
GWPS = 70 µg/L (10/23/07)	3-Apr-08	0.03	10.0	0.5	J	0.4	J	0.4	J	0.4	J	---		2.8	J	---		2.3	J	---		0.2	J	0.6	J	---		ND	
	28-Oct-08	0.03	10.0	0.3	J	0.7	J	0.7	J	0.8	J	---		6.6	J	---		1.8	J	---		0.5	J	0.8	J	---		ND	
	8-Apr-09	0.02	10.0	0.4	J	0.4	J	0.4	J	0.6	J	---		2.8	J	---		1.6	J	---		0.4	J	0.7	J	---		ND	
	27-Oct-09	0.02	10.0	0.4	J	0.4	J	0.5	J	0.5	J	---		7.2	J	---		2.2	J	---		0.5	J	0.9	J	---		ND	
	8-Apr-10	0.10	10.0	0.4	J	0.4	J	0.5	J	0.6	J	---		2.9	J	---		1.2	J	---		0.5	J	0.8	J	---		ND	
GWPS = 1 µg/L (10/1/10)	13-Oct-10	0.10	10.0	1	J	0.2	J	0.6	J	0.3	J	---		6	J	---		2.1	J	---		0.4	J	0.5	J	---		ND	
	27-Apr-11	0.03	10.0	0.45	J	0.36	J	0.26	J	0.45	J	---		3.4	J	---		1.4	J	---		0.41	J	0.50	J	---		ND	
	20-Oct-11	0.03	10.0	0.39	J	0.40	J	0.44	J	0.37	J	---		6.6	J	---		2.1	J	---		0.32	J	0.38	J	---		ND	
	26-Apr-12	0.03	10.0	0.40	J	0.43	J	0.45	J	0.48	J	---		5.1	J	---		1.5	J	---		0.38	J	0.53	J	---		ND	
	16-Oct-12	0.02	10.0	0.23	J	0.45	J	0.63	J	0.65	J	---		2.4	J	---		1.9	J	---		0.76	J	0.39	J	---		ND	
	11-Apr-13	0.02	10.0	0.43	J	0.46	J	0.43	J	0.39	J	---		2.0	J	---		1.6	J	---		0.62	J	0.54	J	---		0.03	J
	30-Oct-13	0.02	10.0	0.27	J	0.32	J	0.40	J	0.42	J	---		3.2	J	---		2.4	J	---		0.33	J	0.43	J	---		0.05	J
	9-Apr-14	0.02	10.0	0.41	J	0.50	J	0.34	J	0.56	J	---		2.4	J	---		2.2	J	---		0.68	J	0.6	J	---		ND	
	22-Oct-14	0.12	10.0	0.21	J	0.43	J	0.23	J	0.78	J	---		1.8	J	---		2.4	J	---		0.44	J	0.31	J	---		ND	
Copper	1-Jul-93	NR	10	23	B	62		25		26	B	24	B	17	B	26	B	22	B	28	B	ND		19	B	36	B	17	
	1-Aug-93	NR	10	17	B	15		21		14	B	10	B	17	B	13	B	ND		12	B	11	B	16	B	33	B	19	
	1-Sep-93	NR	10	18	B	24		12		ND		195		16	B	14	B	11	B	13	B	14	B	14	B	ND		11	
	1-Sep-93	NR	10	19	B	27		12		36	B	46	B	29	B	35	B	44	B	31	B	10	B	38	B	37	B	39	
	1-Apr-94	NR	10	33	B	45		ND		25	B	31	B	15	B	58	B	47	B	41	B	31	B	25	B	27	B	21	
	1-Oct-94	NR	200	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Apr-95	NR	200	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Oct-95	NR	200	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Apr-96	NR	200	ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Oct-96	NR	200	ND		ND		ND		ND		ND		ND		---		ND		---		ND		ND		---		ND	
	1-Apr-97	NR	200	ND		ND		ND		ND		ND		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-97	NR	200	ND		ND		ND		ND		ND		ND		---		ND		---		17		ND		---		ND	
	1-Apr-98	NR	200	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-98	NR	200	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Mar-99	NR	200	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-99	NR	200	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Apr-00	NR	200	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-00	NR	200	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Apr-01	NR	200	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-01	NR	200	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	2-Apr-02	NR	200	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	3-Oct-02	NR	200	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	2-Apr-03	NR	200	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-03	NR	200	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	15-Apr-04	NR	200	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	14-Oct-04	NR	200	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	5-Apr-05	NR	200	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	27-Oct-05	NR	200	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	21-Apr-06	NR	200	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	12-Oct-06	NR	200	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	10-Oct-07	0.20	10.0	1.1	B	0.6	B	0.9	B	0.8	B	---		0.7	B	---		0.7	B	---		0.3	B	1.0	B	---		0.4	J
NC 2L = 1,000 µg/L (10/23/07)	3-Apr-08	0.05	10.0	0.7	B	0.5	B	0.2	B	0.5	B	---		1.6	J	---		1.1	J	---		0.3	B	0.8	B	---		0.2	J
	28-Oct-08	0.05	10.0	1.6	B	2.2	J	1.1	B	2.6	J	---		1.9	B	---		1.9	B	---		1.2	B	2.3	J	---		0.4	J
	8-Apr-09	0.04	10.0	2.3	J	1.7	J	0.6	J	1.1	J	---		1.3	J	---		1.5	J	---		0.9	J	1.7	J	---		0.1	J
	27-Oct-09	0.04	10.0	2.4	J	1.9	J	1.4	J	3.1	J	---		2.3	J	---		3.7	J	---		1.3	J	5.4	J	---		0.1	J
	8-Apr-10	0.03	10.0	1.8	J	2.8	J	1.7	J	2.0	J	---		0.9	B	---		1.9	J	---		3.5	J	2.1	J	---		0.2	J
	13-Oct-10	0.03	10.0	3.7	J	1.1	J	1.1	J	1.1	J	---		0.9	B	---		1.5	J	---		0.8	B	1.3	J	---		0.2	J
	27-Apr-11	0.02	10.0	2.5	B	1.2	B	0.58	B	1.6	B	---		0.51	B	---		1.7	B	---		1.4	B	1.2	B	---		0.66	J
	20-Oct-11	0.02	10.0	1.8	J	1.0	J	0.88	B	1.2	J	---		0.86	B	---		1.7	J	---		0.84	B	1.3	J	---		0.20	J
	26-Apr-12	0.02	10.0	1.7	B	1.4	B	0.78	B	1.7	B	---		0.91	B	---		1.5	B	---		1.7	B	0.79	B	---		0.94	J
	16-Oct-12	0.06	10.0	1.5	J	1.6	J	0.73	B	1.4	J	---		1.1	B	---		1.9	J	---		1.4	J	1.1	B	---		0.25	J
	11-Apr-13	0.06	10.0	2.0	J	1.5	J	0.87	B	1.2	B	---		0.65	B	---		1.3	B	---		0.98	B	1.1	B	---		0.28	J
	30-Oct-13	0.06	10.0	1.6	B	0.97	B	0.85	B	1.3	B	---		1.1	B	---		2.9	B	---		0.86	B	1.6	B	---		1.2	J
	9-Apr-14	0.06	10.0	2.8	J	0.92	J	0.22	J	1.2	J	---		0.42	J	---		1.2	J	---		1.6	J	0.89	J	---		ND	
	22-Oct-14	0.10	10.0	1.0	J	0.47	J	ND		0.34	J	---		0.70	J	---		0.73	J	---		0.40	J	0.21	J	---		ND	
Lead	1-Jul-93	NR	5	34		67		ND		7		ND		ND		ND		ND		8		28		ND		13		ND	
	1-Aug-93	NR	5	33		21		ND		15		ND		17		ND		ND		ND		ND		12		7		ND	
	1-Sep-93	NR	5	17		ND		ND		13		102		ND		ND		ND		ND		ND		5		ND		ND	
	1-Sep-93	NR	5	ND		16		ND		10		5		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Apr-94	NR	5	ND		12		47		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Oct-94	NR	10	ND		13		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Apr-95	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Oct-95	NR	10	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Apr-96	NR	10	ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND		ND		ND	
	1-Oct-96	NR	10	ND		ND		ND		ND		ND		ND		---		14		---		ND		ND		---		ND	
	1-Apr-97	NR	10	10		ND		ND		ND		ND		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-97	NR	10	15		ND		ND		20		ND		ND		---		41		---		ND		33		---		ND	
	1-Apr-98	NR	10	17		ND		ND		ND		---		22		---		20		---		ND		ND		---		ND	
	1-Oct-98	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Mar-99	NR	10	ND		ND		ND		ND		---		ND		---		12		---		ND		ND		---		ND	
	1-Oct-99	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Apr-00	NR	10	11		23		ND		ND		---		18		---		20		---		10		15		---		ND	
	1-Oct-00	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Apr-01	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-01	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	2-Apr-02	NR	10	ND		ND		ND		ND		---		ND		---		14		---		ND		ND		---		ND	
	3-Oct-02	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	2-Apr-03	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	1-Oct-03	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	15-Apr-04	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	14-Oct-04	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	5-Apr-05	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	27-Oct-05	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	21-Apr-06	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	12-Oct-06	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		---		ND		---		ND		---		ND		ND		---		ND	
	10-Oct-07	0.07	10.0	1.6	J	1.0	J	0.1	B	0.8	J	---		1.0	J	---		0.6	J	---		0.1	B	1.8	J	---		0.1	J
NC 2L = 15 µg/L (10/23/07)	3-Apr-08	0.04	10.0	0.8	J	0.6	J	0.2	J	1.1	J	---		13		---		5.0	J	---		0.2	J	2.1	J	---		ND	
	28-Oct-08	0.04	10.0	2.5	J	4	J	0.6	J	8.5	J	---		11		---		9.5	J	---		1	J	12		---		0.1	J
	8-Apr-09	0.04	10.0	4.4	J	1.6	J	0.3	B	3.0	J	---		5.2	J	---		6.2	J	---		0.8	J	9.7	J	---		0.1	J
	27-Oct-09	0.04	10.0	6.4	J	3.2	J	0.5	J	3.9	J	---		3.3	J	---		5.0	J	---		0.9	J	9.7	J	---		ND	
	8-Apr-10	0.01	10.0	5.1	J	1.8	J	0.4	B	4.4	J	---		2.2	J	---		4.3	J	---		1.4	J	8.2	J	---		0.1	J
	13-Oct-10	0.01	10.0	1.4	J	1.7	J	0.6	J	2.2	J	---		2.1	J	---		5.7	J	---		0.6	J	7.5	J	---		0.1	J
	27-Apr-11	0.02	10.0	4.9	J	1.4	J	0.30	J	3.6	J	---		1.7	J	---		5.2	J	---		0.77	J	3.3	J	---		ND	
	20-Oct-11	0.02	10.0	6.2	J	2.9	J	0.54	J	3.4	J	---		2.3	J	---		4.9	J	---		0.70	J	3.7	J	---		ND	
	26-Apr-12	0.02	10.0	5.2	J	2.6	J	0.41	J	4.5	J	---		1.9	J	---		4.6	J	---		0.62	J	5.4	J	---		0.02	J
	16-Oct-12	0.08	10.0	3.0	J	6.7	J	0.67	J	3.7	J	---		2.6	J	---		6.4	J	---		1.7	J	3.1	J	---		ND	
	11-Apr-13	0.02	10.0	5.2	J	3.8	J	0.51	J	3.2	J	---		1.9	J	---		4.6	J	---		0.99	J	3.7	J	---		ND	
	30-Oct-13	0.02	10.0	4.4	J	2.8	J	0.51	J	2.6	J	---		2.5	J	---		11		---		0.55	J	3.8	J	---		0.08	J
	9-Apr-14	0.02	10.0	4.0	J	3.0	J	0.30	J	4.0	J	---		1.9	J	---		6.3	J	---		1.0	J	3.8	J	---		ND	
	22-Oct-14	0.13	10.0	4.4	J	2.6	J	0.26	J	1.4	J	---		4.1	J	---		3.1	J	---		0.82	J	1.4	J	---		---	

TABLE 10

HISTORICAL DETECTIONS in GROUNDWATER
C.R.S.W.M.A. TUSCARORA LF - LEACHATE STORAGE AREA

| | Sample | | | Upgradient | | Downgraident | | |

TABLE 10

HISTORICAL DETECTIONS in GROUNDWATER
C.R.S.W.M.A. TUSCARORA LF - LEACHATE STORAGE AREA

	Sample			Upgradient		Downgraident											
Anayte	Collection Date	DL	SWSL	LST-5S	LST-1S	LST-1D	LST-2S	LST-2D	LST-3S	LST-3D	LST-4S	LST-4D	LST-5D	LST-6S	LST-6D	Blanks
Vanadium	1-Jul-93	NR	2,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Aug-93	NR	2,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Sep-93	NR	2,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Sep-93	NR	2,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Apr-94	NR	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Oct-94	NR	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Apr-95	NR	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Oct-95	NR	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Apr-96	NR	40	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
	1-Oct-96	NR	40	ND	ND	ND	ND	ND	ND	---	ND	---	ND	ND	---	ND
	1-Apr-97	NR	40	ND	ND	ND	ND	ND	ND	---	ND	---	ND	ND	---	ND
	1-Oct-97	NR	40	ND	ND	ND	ND	ND	ND	---	50	---	ND	48	---	ND
	1-Apr-98	NR	40	43	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Oct-98	NR	40	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Mar-99	NR	40	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Oct-99	NR	40	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Apr-00	NR	40	40	ND	ND	ND	---	ND	---	64	---	ND	50	---	ND
	1-Oct-00	NR	40	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Apr-01	NR	40	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Oct-01	NR	40	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	2-Apr-02	NR	40	ND	ND	ND	ND	---	ND	---	55	---	ND	ND	---	ND
	3-Oct-02	NR	40	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	2-Apr-03	NR	40	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Oct-03	NR	40	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	15-Apr-04	NR	40	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	14-Oct-04	NR	40	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	5-Apr-05	NR	40	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	27-Oct-05	NR	40	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	21-Apr-06	NR	40	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	12-Oct-06	NR	40	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	26-Apr-07	NR	25	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	10-Oct-07	0.42	25.0	4.0 J	0.5 J	ND	1.3 J	---	0.9 J	---	3.2 J	---	ND	3.1 J	---	ND
GWPS = 3.5 µg/L (10/23/07)	3-Apr-08	0.07	25.0	2.0 J	0.8 J	0.6 J	2.4 J	---	2.5 J	---	9.5 J	---	0.8 J	4.6 J	---	ND
	28-Oct-08	0.07	25.0	6.5 J	6.9 J	1.6 J	11.7 J	---	4.5 J	---	10.3 J	---	2 J	14.8 J	---	0.2 J
	8-Apr-09	0.28	25.0	12.6 J	4.6 J	2.3 J	6.4 J	---	5.3 J	---	10.0 J	---	2.9 J	14.5 J	---	ND
	27-Oct-09	0.28	25.0	14.3 J	6.9 J	2.3 J	7.3 J	---	3.3 J	---	17.4 J	---	2.2 J	17.1 J	---	0.4 J
	8-Apr-10	0.03	25.0	10.4 J	3.0 J	1.0 B	6.3 J	---	2.2 J	---	6.9 J	---	1.5 B	11.5 J	---	0.4 J
GWPS = 0.3 µg/L (10/1/10)	13-Oct-10	0.03	25.0	3.6 J	2.1 B	1.9 B	3.5 J	---	2.7 B	---	9 J	---	1.6 B	10.4 J	---	0.6 J
	27-Apr-11	0.14	25.0	10.2 J	2.1 J	0.66 J	5.3 J	---	1.6 J	---	7.8 J	---	1.4 J	5.9 J	---	ND
	20-Oct-11	0.14	25.0	13.9 J	3.5 J	0.76 J	5.1 J	---	1.9 J	---	6.5 J	---	0.93 J	5.7 J	---	ND
	26-Apr-12	0.14	25.0	11.7 J	3.9 J	0.65 J	7.3 J	---	1.4 J	---	7.7 J	---	0.76 J	8.5 J	---	ND
	16-Oct-12	0.10	25.0	5.6 J	5.7 J	1.5 J	4.1 J	---	3.3 J	---	9.6 J	---	2.9 J	4.6 J	---	ND
	11-Apr-13	0.07	25.0	10.4 J	5.1 J	1.2 J	5.5 J	---	2.8 J	---	7.0 J	---	1.8 J	5.7 J	---	ND
	30-Oct-13	0.07	25.0	9.8 J	4.3 J	0.70 J	4.5 J	---	2.9 J	---	15.3 J	---	0.55 J	5.5 J	---	ND
	9-Apr-14	0.07	25.0	8.3 J	4.9 J	0.66 J	7.5 J	---	3.4 J	---	10.0 J	---	1.7 J	6.7 J	---	ND
	22-Oct-14	0.06	25.0	8.0 J	1.7 J	0.81 B	1.9 J	---	5.5 J	---	5.0 J	---	1.1 J	1.2 J	---	0.18 J
Zinc	1-Jul-93	NR	10	71	102	26	24 B	26 B	132	30 B	797	54	84	36 B	257	10
	1-Aug-93	NR	10	45	36	17	31	20	182	67	294	20	23	43	116	ND
	1-Sep-93	NR	10	13	12	30	23	660	135	22	404	10	ND	19	33	ND
	1-Sep-93	NR	10	43	37	25	42	63	130	36	555	18	14	19	29	ND
	1-Apr-94	NR	10	42 B	78	50	40 B	33 B	176	32 B	90 B	27 B	32 B	64 B	40 B	20
	1-Oct-94	NR	50	800	ND	ND	ND	ND	88	ND	69	ND	ND	ND	ND	ND
	1-Apr-95	NR	50	ND	ND	ND	ND	ND	128	ND	ND	ND	ND	ND	ND	ND
	1-Oct-95	NR	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1-Apr-96	NR	50	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
	1-Oct-96	NR	50	ND	ND	ND	ND	ND	ND	---	67	---	ND	ND	---	ND
	1-Apr-97	NR	50	ND	ND	ND	ND	ND	ND	---	51	---	ND	ND	---	ND
	1-Oct-97	NR	50	91	ND	ND	ND	ND	ND	---	129	---	ND	ND	---	ND
	1-Apr-98	NR	50	ND	ND	ND	ND	---	ND	---	62	---	ND	ND	---	ND
	1-Oct-98	NR	50	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Mar-99	NR	50	54	ND	ND	ND	---	ND	---	60	---	ND	ND	---	ND
	1-Oct-99	NR	50	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Apr-00	NR	50	161	ND	ND	ND	---	52	---	67	---	ND	ND	---	ND
	1-Oct-00	NR	50	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Apr-01	NR	50	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	1-Oct-01	NR	50	62	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	2-Apr-02	NR	50	105	ND	ND	ND	---	ND	---	77	---	ND	ND	---	ND
	3-Oct-02	NR	50	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	2-Apr-03	NR	50	82	ND	ND	ND	---	ND	---	ND	---	ND	148	---	ND
	1-Oct-03	NR	50	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	15-Apr-04	NR	50	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	14-Oct-04	NR	50	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	5-Apr-05	NR	50	55	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	27-Oct-05	NR	50	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	21-Apr-06	NR	50	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	16-Oct-06	NR	50	ND	ND	ND	ND	---	68	---	ND	---	ND	ND	---	ND
	26-Apr-07	NR	10	22	ND	ND	ND	---	17	---	ND	---	ND	11	---	ND
	10-Oct-07	0.20	10.0	17 B	3.8 B	4.9 B	7.7 B	---	30 B	---	53	---	1.8 B	7.7 B	---	6.6 J
NC 2L = 1,050 µg/L (10/23/07)	3-Apr-08	0.04	10.0	25 B	3.1 B	1.3 B	3.5 B	---	24 B	---	13 B	---	4.4 B	15 B	---	6.3 J
	28-Oct-08	0.04	10.0	18	8 J	6 J	11	---	35	---	15	---	7.5 J	144	---	0.9 J
	8-Apr-09	0.14	10.0	29	7.4 J	3.7 B	8.0 J	---	22	---	15	---	6.6 J	107	---	0.8 J
	27-Oct-09	0.14	10.0	21	17	5.4 B	9.2 J	---	28	---	22	---	7.5 J	68	---	1.4 J
NC 2L = 1,000 µg/L (1/1/10)	8-Apr-10	0.08	10.0	25	12	7.8 J	9.0 J	---	26	---	11	---	8.7 J	78	---	0.7 J
	13-Oct-10	0.08	10.0	39	5.1 B	8.1 B	5.2 B	---	44	---	14 B	---	4.7 B	62	---	4.1 J
	27-Apr-11	0.24	10.0	20	4.0 B	2.4 B	5.2 B	---	28	---	12	---	5.3 B	24	---	1.1 J
	20-Oct-11	0.24	10.0	21	4.5 J	5.6 J	3.2 J	---	31	---	15	---	6.5 J	35	---	0.28 J
	26-Apr-12	0.24	10.0	17	6.1 B	4.1 B	6.1 B	---	26	---	14	---	4.7 B	46	---	1.9 J
	16-Oct-12	0.48	10.0	15	10	7.9 J	7.5 J	---	34	---	22	---	12	25	---	ND
	11-Apr-13	0.47	10.0	41	8.9 J	7.6 J	5.9 J	---	21	---	12	---	8.6 J	24	---	0.88 J
	30-Oct-13	0.47	10.0	12 B	6.2 B	5.4 B	6.1 B	---	26	---	20	---	6.6 B	28	---	3.2 J
	9-Apr-14	0.47	10.0	33	4.0 J	2.3 J	5.6 J	---	24	---	13	---	8.0 J	19	---	ND
	22-Oct-14	0.53	10.0	12	3.8 J	3.9 J	5.1 J	---	19	---	15	---	6.2 J	8.5 J	---	---

TABLE 10

HISTORICAL DETECTIONS in GROUNDWATER
C.R.S.W.M.A. TUSCARORA LF - LEACHATE STORAGE AREA

	Sample			Upgradient	Downgraident											
Anayte	Collection Date	DL	SWSL	LST-5S	LST-1S	LST-1D	LST-2S	LST-2D	LST-3S	LST-3D	LST-4S	LST-4D	LST-5D	LST-6S	LST-6D	Blanks
Organic Compounds																
2-Butanone	10-Oct-07	0.85	100.0	3.90 J	4.60 J	4.00 J	3.70 J	---	3.80 J	---	4.50 J	---	4.10 J	2.90 J	---	ND
NC 2L = 4,200 µg/L (10/23/07) Resam	4-Dec-07	0.96	5.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	3-Apr-08	0.85	100.0	ND	ND	0.90 J	ND	---	ND	---	ND	---	ND	ND	---	ND
Resample	15-May-08	0.96	100	---	---	ND	---	---	---	---	---	---	---	---	---	ND
	28-Oct-08	0.85	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	8-Apr-09	0.85	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	27-Oct-09	2.21	100.0	2.60 J	ND	2.40 J	2.80 J	---	3.20 J	---	2.40 J	---	ND	2.50 J	---	ND
NC 2L = 4,000 µg/L (1/1/10)	8-Apr-10	2.21	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	13-Oct-10	2.21	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	27-Apr-11	2.21	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	20-Oct-11	2.21	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	26-Apr-12	2.21	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	16-Oct-12	2.21	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	11-Apr-13	2.21	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	30-Oct-13	2.21	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	9-Apr-14	2.21	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	22-Oct-14	2.21	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
Acetone	10-Oct-07	1.21	100.0	3.20 J	3.50 J	3.10 J	3.30 J	---	2.90 J	---	3.40 J	---	3.50 J	2.50 J	---	ND
NC 2L = 700 µg/L (10/23/07) Resam	4-Dec-07	2.20	25.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	4.6 J
	2-Apr-08	1.21	100.0	2.20 B	2.40 B	1.60 B	2.00 B	---	1.90 B	---	2.30 B	---	2.00 B	2.20 B	---	1.60 J
	28-Oct-08	1.21	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	8-Apr-09	1.21	100.0	ND	ND	ND	1.30 J	---	ND	---	ND	---	ND	ND	---	ND
	27-Oct-09	9.06	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
NC 2L = 6,000 µg/L (1/1/10)	8-Apr-10	9.06	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	13-Oct-10	9.06	100.0	ND	ND	41.90 J	10.70 J	---	ND	---	ND	---	42.60 J	ND	---	ND
	27-Apr-11	9.06	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	20-Oct-11	9.06	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	26-Apr-12	9.06	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	16-Oct-12	9.06	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	11-Apr-13	9.06	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	30-Oct-13	9.06	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	9-Apr-14	9.06	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	22-Oct-14	9.06	100.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
Benzene	13-Oct-10	0.24	1.0	0.30 J	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
NC 2L = 1 µg/L (1/1/10)	27-Apr-11	0.24	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	20-Oct-11	0.24	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	26-Apr-12	0.24	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	16-Oct-12	0.24	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	11-Apr-13	0.24	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	30-Oct-13	0.24	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	9-Apr-14	0.24	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	22-Oct-14	0.24	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
Toluene	30-Oct-13	0.23	1.0	ND	ND	ND	0.40 J	---	ND	---	ND	---	ND	ND	---	ND
NC 2L = 600 ug/L (1/1/10)	9-Apr-14	0.23	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	22-Oct-14	0.23	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
Bromomethane	10-Oct-07	0.26	10.0	ND	0.30 J	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
NC 2L = NE (10/23/07) Resam	4-Dec-07	0.29	5.0	---	ND	---	---	---	---	---	---	---	---	---	---	ND
	2-Apr-08	0.26	10.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	28-Oct-08	0.26	10.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	8-Apr-09	0.26	10.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	27-Oct-09	0.67	10.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	8-Apr-10	0.67	10.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
GWPS = 10 (8/1/10)	13-Oct-10	0.67	10.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	27-Apr-11	0.67	10.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	20-Oct-11	0.67	10.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	26-Apr-12	0.67	10.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	16-Oct-12	0.67	10.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	11-Apr-13	0.67	10.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	30-Oct-13	0.67	10.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	9-Apr-14	0.67	10.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	22-Oct-14	0.67	10.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
Bromodichloromethane	3-Apr-08	0.13	10.0	1.40 J	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
NC 2L = 0.56 µg/L (10/23/07) Resam	4-Jun-08	0.13	10.0	ND	---	---	---	---	---	---	---	---	---	---	---	ND
	28-Oct-08	0.13	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	8-Apr-09	0.13	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	27-Oct-09	0.21	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
NC 2L = 0.6 µg/L (1/1/10)	8-Apr-10	0.21	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	13-Oct-10	0.21	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	27-Apr-11	0.21	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	20-Oct-11	0.21	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	26-Apr-12	0.21	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	16-Oct-12	0.21	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	11-Apr-13	0.21	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	30-Oct-13	0.21	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	9-Apr-14	0.21	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	22-Oct-14	0.21	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
Chloromethane	10-Oct-07	0.18	1.0	ND	1.00	0.80 J	0.70 J	---	0.90 J	---	0.90 J	---	0.70 J	0.60 J	---	ND
NC 2L = 2.6 µg/L (10/23/07) Resam	4-Dec-07	0.11	1.0	---	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	3-Apr-08	0.18	1.0	ND	ND	ND	ND	---	ND	---	0.20 J	---	ND	ND	---	ND
Resample	15-May-08	0.11	1.0	---	---	---	---	---	---	---	ND	---	---	---	---	ND
	28-Oct-08	0.18	1.0	ND	ND	ND	ND	---	ND	---	0.20 J	---	ND	ND	---	ND
	8-Apr-09	0.18	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	27-Oct-09	0.77	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
NC 2L = 3 µg/L (1/1/10)	8-Apr-10	0.77	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	13-Oct-10	0.77	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	27-Apr-11	0.77	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	20-Oct-11	0.77	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	26-Apr-12	0.77	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	16-Oct-12	0.77	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	11-Apr-13	0.77	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	30-Oct-13	0.77	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	9-Apr-14	0.77	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	22-Oct-14	0.77	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
Methylene Chloride	10-Oct-07	0.14	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	0.20 J
NC 2L = 4.6 µg/L (10/23/07)	3-Apr-08	0.14	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	28-Oct-08	0.14	1.0	ND	0.30 J	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	8-Apr-09	0.14	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	27-Oct-09	0.64	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
NC 2L = 5 µg/L (1/1/10)	8-Apr-10	0.64	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	13-Oct-10	0.64	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	27-Apr-11	0.64	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	20-Oct-11	0.64	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	26-Apr-12	0.64	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	16-Oct-12	0.64	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	11-Apr-13	0.64	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	30-Oct-13	0.64	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	9-Apr-14	0.64	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND
	22-Oct-14	0.64	1.0	ND	ND	ND	ND	---	ND	---	ND	---	ND	ND	---	ND

Notes:
1. All concentrations are in mg/L.
2. LST = Leachate storage tank monitoring well.
3. RL = Laboratory reporting limit (NC SWSL or lower from October 2007 to present).
4. --- = Data not available
5. B = Blank-qualified data; result is expected to be biased high based on concentrations in the blanks.
6. NC 2L = North Carolina 2L Groundwater Standards.
7. GWPS = Groundwater Protection Standards.
8. When the NC 2L has not been established, the GWPS will be used.
9. **Bold** values are above the NC 2L Groundwater Stanards or Groundwater Protection Standards.
10. NE = Not established.
11. DL = Laboratory detection limit.
12. J = Estimated value between the DL and the RL.

TABLE 11

SUMMARY OF FIELD PARAMETERS
C.R.S.W.M.A. TUSCARORA LF - LEACHATE STORAGE AREA

	Sample	Upgradient	Downgraident										
Analyte	Collection Date	LST-5S	LST-1S	LST-1D	LST-2S	LST-2D	LST-3S	LST-3D	LST-4S	LST-4D	LST-5D	LST-6S	LST-6D
Conductivity (at 25c)	Jul-93	110	80	490	73	460	190	430	390	650	560	60	480
[uMhos]	Aug-93	140	110	400	81	400	210	360	280	520	500	62	270
	Sep-93	100	96	440	60	---	210	330	270	460	680	86	380
	Sep-93	110	85	400	69	380	210	320	280	460	460	81	350
	Apr-94	120	84	470	60	480	230	400	11	430	530	97	480
	Oct-94	110	83	450	72	440	150	340	120	310	700	89	660
	Apr-95	120	77	460	54	460	250	360	120	320	480	56	490
	Oct-95	120	87	470	54	470	93	320	80	290	510	75	---
	Apr-96	120	73	460	54	450	61	370	91	340	490	60	470
	Oct-96	120	63	380	52	---	56	---	98	---	410	52	---
	Apr-97	140	65	500	72	---	90	---	110	---	490	55	---
	Oct-97	120	61	440	72	---	66	---	110	---	460	73	---
	Apr-98	---	60	60	84	---	49	---	---	---	500	40	---
	Oct-98	130	64	440	77	---	78	---	78	---	420	87	---
	Mar-99	160	62	480	75	---	46	---	81	---	500	46	---
	Oct-99	210	56	450	77	---	32	---	49	---	460	46	---
	Apr-00	160	53	440	66	---	62	---	81	---	460	34	---
	Oct-00	160	53	460	68	---	53	---	83	---	470	83	---
	Apr-14	140	49	430	66	---	---	---	71	---	450	59	---
	Oct-14	130	51	450	70	---	49	---	61	---	---	62	---
	Apr-14	160	59	420	62	---	52	---	79	---	430	38	---
	Oct-14	38	71	296	65	---	64	---	11	---	35	60	---
	Apr-14	272	65	466	80	---	81	---	72	---	484	70	---
	Oct-14	196	73	449	95	---	114	---	77	---	479	52	---
	Apr-04	150	58	330	54	---	41	---	40	---	340	48	---
	14-Oct-04	126	73	436	87	---	50	---	55	---	464	49	---
	05-Apr-05	148	538	81	91	---	65	---	61	---	561	40	---
	27-Oct-05	212	81	468	88	---	72	---	49	---	485	60	---
	21-Apr-06	150	96	508	100	---	77	---	76	---	525	42	---
	12-Oct-06	134	87	489	94	---	48	---	52	---	489	50	---
	26-Apr-07	176	93	488	95	---	47	---	64	---	509	43	---
	10-Oct-07	190	95	494	100	---	90	---	199	---	531	40	---
Resample	04-Dec-07	229	89.8	54.5	103	---	333	---	163.5	---	619	46.5	---
	03-Apr-08	271	86	476	85	---	130	---	46	---	518	44	---
Resample	15-May-08	---	---	442	---	---	---	---	68.7	---	---	---	---
Resample	04-Jun-08	222	---	---	---	---	---	---	---	---	---	---	---
	28-Oct-08	185.0	69	475	84	---	117	---	44	---	553	46	---
	08-Apr-09	217	75	473	91	---	77	---	69	---	560	47	---
	27-Oct-09	148	68	472	88	---	123	---	38	---	558	39	---
	08-Apr-10	232	76	487	96	---	65	---	53	---	587	50	---
	13-Oct-10	1413	65	499	75	---	104	---	50	---	608	53	---
	27-Apr-11	390	74	494	76	---	78	---	44	---	603	46	---
	20-Oct-11	177	55	489	67	---	142	---	60	---	551	45	---
	26-Apr-12	256	79	494	76	---	122	---	58	---	625	49	---
	16-Oct-12	249	74	510	104	---	75	---	220	---	589	49	---
	11-Apr-13	248	89	484	76	---	69	---	51	---	564	49	---
	30-Oct-13	150	59	492	73	---	92	---	61	---	568	51	---
	09-Apr-14	249	108	491	93	---	69	---	62	---	575	66	---
	22-Oct-14	251	94	511	115	---	72	---	72	---	530	57	---
PH (field measurement)	1-Jun-93	5.5	5.1	6.4	4.9	6.1	5.3	6.4	4.4	6.2	6.1	5.5	6.9
[units]	Aug-93	6.1	5.8	6.5	5.9	6.4	6	7	5	6	7	6	7
	Sep-93	6	5.4	6.6	5.8	---	6	7	5	6.3	6.6	6	6.4
	Sep-93	6.4	6.1	6.5	6.1	6.3	5	6	5	6.2	6.6	6	6.5
	Apr-94	6.3	6	6.4	5.9	6.5	5.1	6.3	5.1	6.2	6.4	5.6	6.4
	Oct-94	5.4	5	6.6	5.2	6.6	4.2	6.5	4.2	6.3	6.6	4.9	6.6
	Apr-95	6	6.2	6	6.4	6.2	5.3	6.0	5.3	6.0	6.5	6.5	6.4
	Oct-95	5.2	5	7	5.2	5.2	5	7	5	6.5	6.8	5	6.9
	Apr-96	5.6	5	6.3	5.9	6.6	5	7	5	6.2	6.5	6	6.6
	Oct-96	5.7	4.7	5.6	5.1	---	5	---	4	---	5.8	5	---
	Apr-97	5.7	5.3	6.1	5.2	---	5	---	5	---	6.4	6	---
	Oct-97	5.1	5.8	6.1	6.9	---	5	---	5	---	5.8	5	---
	Apr-98	---	4.8	4.8	4.8	---	4.6	---	---	---	7.0	4.7	---
	Oct-98	6.2	4.9	6.5	---	---	4.1	---	4.9	---	6.9	4.8	---
	Mar-99	5.8	5	6.6	5	---	4.5	---	4.8	---	6.8	4.9	---
	Oct-99	5.8	5	6.8	4.8	---	4.6	---	4.6	---	6.8	5	---
	Apr-00	5.6	5.2	6.4	5	---	5.4	---	5.4	---	6.5	5	---
	Oct-00	5.2	4.8	6.6	4.8	---	4.4	---	4.1	---	6.7	4.5	---
	Apr-14	5.2	4.7	6.3	4.7	---	4.9	---	4.4	---	6.5	4.6	---
	Oct-14	5.2	5	6	5.2	---	4.7	---	4.4	---	6.8	4.8	---
	Apr-14	6.1	5	6.5	5	---	4.7	---	4.8	---	6.7	4.9	---
	Oct-14	5.9	5.1	7	5	---	4.6	---	4.7	---	7	4.8	---
	Apr-14	6.1	5	6.9	5	---	4.5	---	4.4	---	6.9	4.8	---
	Oct-14	6.4	4.6	6.7	4.4	---	3.4	---	3.9	---	6.7	4.4	---
	Apr-04	6.6	6.0	7.2	5.6	---	5.4	---	5.2	---	7.0	5.6	---
	Oct-04	6.7	4.7	6.7	4.8	---	4.7	---	4.5	---	6.8	5.1	---
	05-Apr-05	6.5	7	5	5.3	---	4.9	---	4.6	---	6.9	4.9	---
	27-Oct-05	6.5	4.8	6.8	4.9	---	4.3	---	4.6	---	6.9	4.8	---
	21-Apr-06	6.6	4.8	7	4.9	---	4.5	---	5.1	---	7.0	5.1	---
	12-Oct-06	6.5	4.8	7.0	4.8	---	4.7	---	5.0	---	6.9	5	---
	26-Apr-07	6.7	4.8	7.1	4.9	---	4.8	---	5.3	---	7.0	5	---
	10-Oct-07	6.1	4.8	7.1	5	---	4.5	---	4.6	---	7.0	4.9	---
Resample	04-Dec-07	7.13	5.8	6.88	5.3	---	3.97	---	4.1	---	7.1	4.95	---
	03-Apr-08	6.1	4.9	6.8	5.2	---	5.5	---	6.3	---	6.9	5.2	---
Resample	15-May-08	---	---	6.72	---	---	---	---	7.4	---	---	---	---
Resample	04-Jun-08	6.13	---	---	---	---	---	---	---	---	---	---	---
	28-Oct-08	6	4.9	6.5	5.2	---	4.7	---	4.7	---	6.8	5.4	---
	08-Apr-09	6.1	4.8	6.7	4.9	---	4.6	---	5	---	6.7	6.4	---
	27-Oct-09	6.3	4.7	6.7	4.7	---	4.4	---	4.5	---	6.7	5.1	---
	08-Apr-10	6.2	4.8	6.9	4.8	---	4.4	---	4.4	---	6.8	5.2	---
	13-Oct-10	6.1	4.8	6.6	5	---	4.6	---	4.8	---	6.6	5.4	---
	27-Apr-11	6.2	4.9	6.9	5.1	---	4.7	---	5.1	---	7.2	5.4	---
	20-Oct-11	6.2	4.9	6.7	5.1	---	4.4	---	4.7	---	6.8	5.2	---
	26-Apr-12	6.1	4.9	6.8	5.9	---	4.7	---	4.9	---	6.6	5.2	---
	16-Oct-12	6.1	4.9	7	5	---	4.8	---	4.8	---	6.9	5	---
	11-Apr-13	6.2	5.5	6.9	5	---	4.7	---	4.6	---	6.6	4.9	---
	30-Oct-13	6.4	4.8	6.9	5	---	4.8	---	4.7	---	6.8	5.1	---
	09-Apr-14	6.5	5.2	6.8	5.1	---	4.9	---	4.5	---	6.7	5.1	---
	22-Oct-14	6.5	4.9	6.8	4.9	---	4.9	---	4.4	---	6.7	5.1	---

TABLE 11

SUMMARY OF FIELD PARAMETERS
C.R.S.W.M.A. TUSCARORA LF - LEACHATE STORAGE AREA

	Sample	Upgradient	Downgraident										
Analyte	Collection Date	LST-5S	LST-1S	LST-1D	LST-2S	LST-2D	LST-3S	LST-3D	LST-4S	LST-4D	LST-5D	LST-6S	LST-6D
Temperature	01-Jun-93	23.0	25	21	26	22	27	19	23	20	18.0	23	24
[oC]	01-Aug-93	25.0	24	21	25	24	24	19	22	20	20.0	24	19
	Sep-93	24	25	19	25	---	24	21	24	20	20	24	21
	Sep-93	24	25	21	25.0	21	24	20	24	21	21	25	21.0
	Apr-94	18	17	17	19.0	18	18	18	18	17	17	18	18.0
	Oct-94	21	20	19	21.0	20	21	19	21	16	19	20	19.0
	Apr-95	17	16	16	17.0	16	15	16	15	20	16	16	17.0
	Oct-95	23	23.0	20	23	20	22	20	22	13	20	21	20.0
	Apr-96	13	12	14	13.0	14.0	12	13	12	---	14	12	14.0
	Oct-96	21	20	20	21.0	---	22	---	21	---	21	22	---
	Apr-97	15	14	15	14.0	---	13	---	13	---	16	13	---
	Oct-97	21	20	17	21.0	---	20	---	19	---	17	18	---
	Apr-98	---	15	15	15	---	15	---	---	---	17	15	---
	Oct-98	21	20	18	21	---	18	---	19	---	19	20	---
	Mar-99	15	13	16	13	---	13	---	15	---	18	15	---
	Oct-99	21	20	20	21	---	20	---	20	---	20	19	---
	Apr-00	15	15	17	15	---	15	---	14	---	19	14	---
	Oct-00	20	19	20	20	---	19	---	19	---	20	20	---
	Apr-14	16	15	15	16	---	15	---	14	---	16	15	---
	Oct-14	21	20	20	21	---	20	---	20	---	21	21	---
	Apr-14	18	16	16	18	---	18	---	16	---	16	18	---
	Oct-14	26	24	24	27	---	25	---	25	---	22	21	---
	Apr-14	16	15	15	15	---	15	---	15	---	16	15	---
	Oct-14	20	20	18	20	---	19	---	20	---	20	20	---
	Apr-04	13	13	13	14	---	12	---	14	---	13	13	---
	Oct-04	22	21	21	21	---	21	---	21	---	21	21	---
	Apr-05	16	15	15	16	---	15	---	15	---	16	15	---
	Oct-05	22	21	21	21	---	21	---	20	---	22	20	---
	21-Apr-06	18	17	18	17	---	17	---	17	---	18	18	---
	12-Oct-06	23	21	19	22	---	21	---	21	---	19	22	---
	26-Apr-07	17.0	16	18	16	---	16	---	16	---	18	17	---
	10-Oct-07	22.00	22	19	22	---	20	---	20	---	20	22	---
Resample	04-Dec-07	18.50	17.1	17.2	17.3	---	15.5	---	16.9	---	17.7	17.3	---
	03-Apr-08	15.00	15	17	15	---	14	---	14	---	18	15	---
Resample	15-May-08	---	---	17.9	---	---	---	---	17.9	---	---	---	---
Resample	04-Jun-08	20.3	---	---	---	---	---	---	---	---	---	---	---
	28-Oct-08	21.0	20	19	19	---	19	---	20	---	20	19	---
	08-Apr-09	14.0	14	16	14	---	14	---	14	---	16	14	---
	27-Oct-09	22.0	21	19	21	---	20	---	21	---	19	21	---
	08-Apr-10	16.0	16	18	16	---	15	---	15	---	18	15	---
	13-Oct-10	23.0	22.0	20	22	---	22	---	21	---	20	23	---
	27-Apr-11	17.0	18.0	18	18	---	17	---	17	---	18	17	---
	20-Oct-11	21.0	21.0	18	21	---	20	---	20	---	19	20	---
	26-Apr-12	18.0	18.0	18	18	---	17	---	17	---	18	17	---
	16-Oct-12	22.0	22.0	19	21	---	21	---	21	---	19	21	---
	11-Apr-13	16	16	19	15	---	15	---	14	---	19	15	---
	30-Oct-13	22	21	19	21	---	20	---	20	---	20	21	---
	09-Apr-14	15	15	17	15	---	15	---	14	---	17	15	---
	22-Oct-14	22	21	21	20	---	20	---	20	---	20	21	---
Turbidity	01-Jun-93	---	---	---	---	---	---	---	---	---	---	---	---
[NTU]	01-Aug-93	---	---	---	---	---	---	---	---	---	---	---	---
	01-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---
	01-Sep-93	---	---	---	---	---	---	---	---	---	---	---	---
	01-Apr-94	---	---	---	---	---	---	---	---	---	---	---	---
	Oct-94	---	---	---	---	---	---	---	---	---	---	---	---
	Apr-95	---	---	---	---	---	---	---	---	---	---	---	---
	Oct-95	---	---	---	---	---	---	---	---	---	---	---	---
	Apr-96	---	---	---	---	---	---	---	---	---	---	---	---
	Oct-96	---	---	---	---	---	---	---	---	---	---	---	---
	Apr-97	---	---	---	---	---	---	---	---	---	---	---	---
	Oct-97	---	---	---	---	---	---	---	---	---	---	---	---
	Apr-98	---	---	---	---	---	---	---	---	---	---	---	---
	Oct-98	150	330	170	270	---	55	---	360	---	140	270	---
	Mar-99	210	150	38	190	---	15	---	400	---	75	---	---
	Oct-99	35	89	22	45	---	39	---	65	---	18	32	---
	Apr-00	80	110	14	110	---	18	---	180	---	24	80	---
	Oct-00	32	70	55	120	---	12.0	---	70	---	22	28	---
	Apr-14	26	36	24	38	---	13	---	27	---	33	26	---
	Oct-14	206	86	60	166	---	20	---	188	---	51	85	---
	Apr-14	70	27	25	130	---	22	---	57	---	23	35	---
	Oct-14	38	7.5	27	85	---	28	---	11	---	35	21	---
	Apr-14	85	33	22	55	---	12	---	45	---	30	22	---
	Oct-14	250	70	26	240	---	16	---	340	---	100	36	---
	Apr-04	45	250	20	270	---	60	---	70	---	55	40	---
	Oct-04	100	75	25	110	---	9.3	---	140	---	80	95	---
	Apr-05	160	32	60	220	---	31	---	100	---	22	80	---
	Oct-05	180	32	25	100	---	36	---	75	---	27	90	---
	Apr-06	14	<1.43	40	5.8	---	1.7	---	7.7	---	75	45	---
	Oct-06	25	12	50	<1.54	---	310	---	10	---	60	70	---
	Apr-07	9.6	<1.42	190	<1.42	---	3.2	---	3.5	---	75	21	---
	10-Oct-07	45	7.1	50	7.5	---	9.5	---	13	---	70	40	---
Resample	04-Dec-07	72.1	29.6	3.17	62.9	---	91	---	124	---	19.56	885	---
	03-Apr-08	11.00	14	42	23	---	230	---	220	---	95	65	---
Resample	15-May-08	---	---	42.9	---	---	---	---	64	---	---	---	---
Resample	04-Jun-08	212.0	---	---	---	---	---	---	---	---	---	---	---
	28-Oct-08	110.00	90	55	230	---	90	---	230	---	70	650	---
	08-Apr-09	160.0	40	55	85	---	24	---	170	---	75	450	---
	27-Oct-09	450.00	75	65	110	---	60	---	300	---	55	230	---
	08-Apr-10	190.00	55	55	110	---	45	---	150	---	130	370	---
	13-Oct-10	50.00	30	70	65	---	50	---	180	---	130	280	---
	27-Apr-11	190.00	60	55	120	---	23	---	280	---	70	110	---
	20-Oct-11	230.00	60	75	80	---	19	---	130	---	180	180	---
	26-Apr-12	280.0	65	70	110	---	25	---	110	---	60	120	---
	16-Oct-12	70.00	85	55	90	---	55	---	220	---	60	240	---
	11-Apr-13	220.0	110	40	130	---	39	---	160	---	66	70	---
	30-Oct-13	240.0	60	80	80	---	50	---	340	---	100	100	---
	09-Apr-14	120.0	90	50	140	---	60	---	280	---	80	170	---
	22-Oct-14	120	45	55	55	---	130	---	130	---	80	180	---

Notes:
1. Measurments taken in the
2. --- = No Data Avaliable

TABLE 12

HISTORICAL DETECTIONS in SURFACE WATER
C.R.S.W.M.A. TUSCARORA LANDFILL - SURFACE WATER MONITORING

	Sample						Downgraident							
Analyte	Collection Date	DL	SWSL	SWPT-1		SWPT-2		UD-1		UD-2		Blanks	
Inorganic Compounds													
Antimony	11-Oct-07	0.05	6.0	0.1	B	0.7	J	Dry		Dry		0.1	J
NC 2B = NE (5/1/2007)	03-Apr-08	0.44	6.0	0.3	B	0.4	B	0.1	B	{0.2}	J	0.1 {ND}	J
	28-Oct-08	0.44	6.0	0.2	J	0.3	J	ND		{0.1}	J	ND {ND}	
	07-Apr-09	0.06	6.0	0.1	J	0.1	J	ND		0.1	J	ND	
	27-Oct-09	0.06	6.0	0.8	J	0.2	J	ND		ND		ND	
	07-Apr-10	0.22	6.0	0.2	B	0.3	B	0.2	B	0.2	B	0.7	J
	13-Oct-10	0.22	6.0	ND		ND		ND		ND		ND	
	27-Apr-11	0.14	6.0	ND		ND		0.16	J	ND		ND	
	20-Oct-11	0.14	6.0	Dry		0.38	J	0.14	J	0.2	J	ND	
	26-Apr-12	0.14	6.0	ND		ND		ND		ND		ND	
	16-Oct-12	0.02	6.0	0.07	J	0.09	J	0.05	J	ND		ND	
	11-Apr-13	0.02	6.0	0.14	J	0.2	J	0.15	J	0.04	J	ND	
	30-Oct-13	0.02	6.0	0.18	B	0.12	B	0.1	B	0.08	B	0.08	J
	9-Apr-14	0.02	6.0	0.04	B	0.07	B	0.05	B	0.05	B	0.66	J
	22-Oct-14	0.12	6.0	ND		ND		ND		ND		ND	
Arsenic	1-Jul-93	NR	5	ND		ND		ND		---		ND	
	1-Aug-93	NR	5	---		---		---		---		ND	
	1-Sep-93	NR	5	---		---		---		---		ND	
	1-Sep-93	NR	5	---		---		---		---		ND	
	1-Apr-94	NR	5	7		ND		ND		---		ND	
	1-Oct-94	NR	10	ND		ND		ND		---		ND	
	1-Apr-95	NR	10	ND		ND		ND		---		ND	
	1-Oct-95	NR	10	ND		ND		ND		---		ND	
	1-Apr-96	NR	10	ND		ND		ND		---		ND	
	1-Oct-96	NR	10	ND		ND		ND		---		ND	
	1-Apr-97	NR	10	Dry		Dry		ND		---		ND	
	1-Oct-97	NR	10	Dry		Dry		ND		---		ND	
	1-Apr-98	NR	10	---		Dry		ND		---		ND	
	1-Oct-98	NR	10	Dry		ND		Dry		---		ND	
	18-Mar-99	NR	10	ND		ND		ND		---		ND	
	1-Jul-99	NR	10.0	---		---		---		ND		ND	
	1-Aug-99	NR	10.0	---		---		---		ND		ND	
	1-Oct-99	NR	10.0	ND		ND		ND		ND		ND	
	1-Nov-99	NR	10.0	---		---		---		ND		ND	
	1-Apr-00	NR	10.0	ND		ND		ND		---		ND	
	1-Oct-00	NR	10.0	ND		ND		ND		ND		ND	
	1-Apr-01	NR	10.0	Dry		Dry		ND		---		ND	
	1-Oct-01	NR	10.0	ND		ND		ND		ND		ND	
	2-Apr-02	NR	10.0	---		ND		ND		ND		ND	
	2-Oct-02	NR	10.0	ND		ND		ND		ND		ND	
	3-Apr-03	NR	10.0	ND		ND		ND		ND		ND	
	3-Oct-03	NR	10.0	ND		ND		ND		15		ND	
	15-Apr-04	NR	10.0	ND		ND		ND		ND		ND	
	14-Oct-04	NR	10.0	ND		ND		ND		ND		ND	
	5-Apr-05	NR	10.0	ND		ND		ND		ND		ND	
	27-Oct-05	NR	10.0	ND		ND		ND		ND		ND	
	21-Apr-06	NR	10.0	ND		ND		ND		ND		ND	
	12-Oct-06	NR	10.0	ND		ND		ND		ND		ND	
	26-Apr-07	NR	10.0	ND		ND		ND		ND		ND	
NC 2B = 50 µg/L (05/01/07)	11-Oct-07	0.47	10.0	1.4	J	13		Dry		Dry		ND	
	3-Apr-08	0.57	10.0	0.8	J	14		4	J	{2.0}	J	ND {0.2}	J
	28-Oct-08	0.57	10.0	0.8	B	9.7	J	0.9	B	1.3	B	0.5	J
	7-Apr-09	0.17	10.0	0.7	B	1.8	J	1.7	J	0.9	B	0.2	J
	27-Oct-09	0.17	10.0	1.2	J	7.2	J	1.3	J	1.1	J	ND	
	7-Apr-10	0.04	10.0	1.2	J	3.9	J	1.0	J	1.3	J	ND	
	13-Oct-10	0.04	10.0	0.8	J	2.2	J	1.9	J	1.7	J	ND	
	27-Apr-11	0.10	10.0	0.79	J	2.6	J	0.63	J	0.6	J	ND	
	20-Oct-11	0.10	10.0	Dry		1.4	J	0.76	J	0.6	J	ND	
	26-Apr-12	0.10	10.0	0.58	J	2.2	J	1.5	J	1.5	J	ND	
	16-Oct-12	0.13	10.0	1.2	B	1.3	B	1.1	B	0.4	B	0.4	J
	11-Apr-13	0.05	10.0	0.57	B	1.7	J	0.81	J	0.4	B	0.15	J
	30-Oct-13	0.05	10.0	1.1	J	1.1	J	1.4	J	0.66	B	0.2	J
	9-Apr-14	0.05	10.0	0.34	J	0.46	J	1.0	J	0.41	J	ND	
	22-Oct-14	0.10	10.0	5.6	J	2.1	J	0.98	J	0.82	J	ND	

TABLE 12

HISTORICAL DETECTIONS in SURFACE WATER
C.R.S.W.M.A. TUSCARORA LANDFILL - SURFACE WATER MONITORING

Analyte	Sample Collection Date	DL	SWSL	SWPT-1		SWPT-2		UD-1		UD-2		Blanks	
						Downgraident							
Barium	1-Jul-93	NR	50	ND		140		71		---		ND	
	1-Aug-93	NR	50	---		---		---		---		ND	
	1-Sep-93	NR	50	---		---		---		---		ND	
	1-Sep-93	NR	50	---		---		---		---		ND	
	1-Apr-94	NR	50	ND		ND		ND		---		ND	
	1-Oct-94	NR	500	ND		ND		ND		---		ND	
	1-Apr-95	NR	500	ND		ND		ND		---		ND	
	1-Oct-95	NR	500	ND		ND		ND		---		ND	
	1-Apr-96	NR	500	ND		ND		ND		---		ND	
	1-Oct-96	NR	500	ND		ND		ND		---		ND	
	1-Apr-97	NR	500	Dry		Dry		ND		---		ND	
	1-Oct-97	NR	500	Dry		Dry		ND		---		ND	
	1-Apr-98	NR	500	---		Dry		ND		---		ND	
	1-Oct-98	NR	500	Dry		ND		Dry		---		ND	
	18-Mar-99	NR	500	ND		ND		ND		---		ND	
	1-Jul-99	NR	500.0	---		---		---		ND		ND	
	1-Aug-99	NR	500.0	---		---		---		ND		ND	
	1-Oct-99	NR	500.0	ND		ND		ND		ND		ND	
	1-Nov-99	NR	500.0	---		---		---		ND		ND	
	1-Apr-00	NR	500.0	ND		ND		ND		---		ND	
	1-Oct-00	NR	500.0	ND		ND		ND		ND		ND	
	1-Apr-01	NR	500.0	Dry		Dry		ND		---		ND	
	1-Oct-01	NR	500.0	ND		ND		ND		ND		ND	
	2-Apr-02	NR	500.0	---		ND		ND		ND		ND	
	2-Oct-02	NR	500.0	ND		ND		ND		ND		ND	
	3-Apr-03	NR	500.0	ND		ND		ND		ND		ND	
	3-Oct-03	NR	500.0	ND		ND		ND		ND		ND	
	15-Apr-04	NR	500.0	ND		ND		ND		ND		ND	
	14-Oct-04	NR	500.0	ND		ND		ND		ND		ND	
	5-Apr-05	NR	500.0	ND		ND		ND		ND		ND	
	27-Oct-05	NR	500.0	ND		ND		ND		ND		ND	
	21-Apr-06	NR	500.0	ND		ND		ND		ND		ND	
	12-Oct-06	NR	500.0	ND		ND		ND		ND		ND	
	26-Apr-07	NR	100.0	ND		ND		ND		ND		ND	
NC 2B = NE (05/01/07)	11-Oct-07	0.0	100.0	47.4	J	187		Dry		Dry		0.2	J
	3-Apr-08	0.1	100.0	30.7	J	72.4	J	94.6	J	{71.1}	J	ND {0.4}	J
	28-Oct-08	0.11	100.0	30.8	J	122		36.9	J	93.6	J	0.7	J
	7-Apr-09	0.04	100.0	31.3	J	48.3	J	73.1	J	64.2	J	0.2	J
	27-Oct-09	0.04	100.0	25.5	J	106		42.9	J	102.0		0.1	J
	7-Apr-10	0.03	100.0	58.7	J	85.9	J	26.1	J	56.1	J	0.1	J
	13-Oct-10	0.03	100.0	14.7	J	61.4	J	62.9	J	85.3	J	0.2	J
	27-Apr-11	0.02	100.0	86.4	J	45.5	J	19.1	J	46.7	J	0.1	J
	20-Oct-11	0.02	100.0	Dry		61.7	J	18.2	J	63.8	J	0.1	J
	26-Apr-12	0.02	100.0	75.4	J	28.5	J	7.4	J	21.8	J	0.12	J
	16-Oct-12	0.07	100.0	29.9	J	38.4	J	39.5	J	60.5	J	0.28	J
	11-Apr-13	0.06	100.0	24.3	J	14.2	J	31.2	J	47.7	J	0.06	J
	30-Oct-13	0.06	100.0	46.8	J	55.4	J	53.2	J	58	J	0.24	J
	9-Apr-14	0.06	100.0	24.8	J	26.1	J	52.2	J	64	J	ND	
	22-Oct-14	0.12	100.0	81.1	J	61.4	J	75.8	J	68.9	J	ND	

TABLE 12

HISTORICAL DETECTIONS in SURFACE WATER
C.R.S.W.M.A. TUSCARORA LANDFILL - SURFACE WATER MONITORING

Analyte	Sample Collection Date	DL	SWSL	SWPT-1		SWPT-2		Downgraident UD-1		UD-2		Blanks	
Beryllium	1-Jul-93	NR	1	ND		ND		ND		---		ND	
	1-Aug-93	NR	1	---		---		---		---		ND	
	1-Sep-93	NR	1	---		---		---		---		ND	
	1-Sep-93	NR	1	---		---		---		---		ND	
	1-Apr-94	NR	1	ND		ND		64		---		ND	
	1-Oct-94	NR	2	ND		ND		ND		---		ND	
	1-Apr-95	NR	2	ND		ND		ND		---		ND	
	1-Oct-95	NR	2	ND		ND		ND		---		ND	
	1-Apr-96	NR	2	ND		ND		ND		---		ND	
	1-Oct-96	NR	2	ND		ND		ND		---		ND	
	1-Apr-97	NR	2	Dry		Dry		ND		---		ND	
	1-Oct-97	NR	2	Dry		Dry		ND		---		ND	
	1-Apr-98	NR	2	---		Dry		ND		---		ND	
	1-Oct-98	NR	2	Dry		ND		Dry		---		ND	
	18-Mar-99	NR	2	ND		ND		ND		---		ND	
	1-Jul-99	NR	2	---		---		---		ND		ND	
	1-Aug-99	NR	2	---		---		---		ND		ND	
	1-Oct-99	NR	2	ND		ND		ND		ND		ND	
	1-Nov-99	NR	2	---		---		---		ND		ND	
	1-Apr-00	NR	2	ND		ND		ND		---		ND	
	1-Oct-00	NR	2	ND		ND		ND		ND		ND	
	1-Apr-01	NR	2	Dry		Dry		ND		---		ND	
	1-Oct-01	NR	2	ND		ND		ND		ND		ND	
	2-Apr-02	NR	2	---		ND		ND		ND		ND	
	2-Oct-02	NR	2	ND		ND		ND		ND		ND	
	3-Apr-03	NR	2	ND		ND		ND		ND		ND	
	3-Oct-03	NR	2	ND		ND		ND		ND		ND	
	15-Apr-04	NR	2	ND		ND		ND		ND		ND	
	14-Oct-04	NR	2	ND		ND		ND		ND		ND	
	5-Apr-05	NR	2	ND		ND		ND		ND		ND	
	27-Oct-05	NR	2	ND		ND		ND		ND		ND	
	21-Apr-06	NR	2	ND		ND		ND		ND		ND	
	12-Oct-06	NR	2	ND		ND		ND		ND		ND	
	26-Apr-07	NR	1.0	ND		ND		ND		ND		ND	
NC 2B = 6.5 µg/L (05/01/07)	11-Oct-07	0.08	1.0	ND		0.4	J	Dry		Dry		ND	
	3-Apr-08	0.06	1.0	ND		ND		ND		ND		ND	
	28-Oct-08	0.06	1.0	ND		0.1	J	ND		ND		ND	
	7-Apr-09	0.06	1.0	ND		ND		ND		ND		ND	
	27-Oct-09	0.06	1.0	ND		0.1	J	ND		ND		ND	
	7-Apr-10	0.02	1.0	0.1	B	ND		0.1	B	0.1	B	0.1	J
	13-Oct-10	0.02	1.0	0.1	J	0.1	J	0.1	J	0.1	J	ND	
	27-Apr-11	0.02	1.0	ND		ND		ND		ND		ND	
	20-Oct-11	0.02	1.0	Dry		ND		0.06	J	ND		ND	
	26-Apr-12	0.02	1.0	ND		0.02	J	ND		ND		ND	
	16-Oct-12	0.07	1.0	ND		ND		ND		ND		ND	
	11-Apr-13	0.03	1.0	ND		ND		ND		ND		ND	
	30-Oct-13	0.03	1.0	0.04	B	ND		ND		ND		0.04	J
	9-Apr-14	0.03	1.0	0.03	J	ND		0.04	J	0.1	J	ND	
	22-Oct-14	0.04	1.0	ND		ND		ND		0.05	J	ND	

TABLE 12

HISTORICAL DETECTIONS in SURFACE WATER
C.R.S.W.M.A. TUSCARORA LANDFILL - SURFACE WATER MONITORING

Analyte	Sample Collection Date	DL	SWSL	SWPT-1		SWPT-2		UD-1		UD-2		Blanks	
						Downgraident							
Cadmium	1-Jul-93	NR	1	ND		ND		ND		---		ND	
	1-Aug-93	NR	1	---		---		---		---		ND	
	1-Sep-93	NR	1	---		---		---		---		ND	
	1-Sep-93	NR	1	---		---		---		---		ND	
	1-Apr-94	NR	1	ND		ND		ND		---		ND	
	1-Oct-94	NR	1	ND		ND		ND		---		ND	
	1-Apr-95	NR	1	ND		ND		ND		---		ND	
	1-Oct-95	NR	1	ND		ND		ND		---		ND	
	1-Apr-96	NR	1	ND		ND		ND		---		ND	
	1-Oct-96	NR	1	ND		ND		ND		---		ND	
	1-Apr-97	NR	1	Dry		Dry		ND		---		ND	
	1-Oct-97	NR	1	Dry		Dry		ND		---		ND	
	1-Apr-98	NR	1	---		Dry		ND		---		ND	
	1-Oct-98	NR	1	Dry		ND		Dry		---		ND	
	18-Mar-99	NR	1	ND		ND		ND		---		ND	
	1-Jul-99	NR	1	---		---		---		ND		ND	
	1-Aug-99	NR	1	---		---		---		ND		ND	
	1-Oct-99	NR	1	ND		ND		ND		ND		ND	
	1-Nov-99	NR	1	---		---		---		ND		ND	
	1-Apr-00	NR	1.0	ND		ND		ND		---		ND	
	1-Oct-00	NR	1.00	ND		ND		ND		ND		ND	
	1-Apr-01	NR	1	Dry		Dry		ND		---		ND	
	1-Oct-01	NR	1.0	ND		ND		ND		ND		ND	
	2-Apr-02	NR	1.0	---		ND		ND		ND		ND	
	2-Oct-02	NR	1.0	ND		ND		ND		ND		ND	
	3-Apr-03	NR	1.0	2.00		ND		ND		ND		ND	
	3-Oct-03	NR	1.0	ND		ND		ND		ND		ND	
	15-Apr-04	NR	1.0	ND		ND		ND		ND		ND	
	14-Oct-04	NR	1.0	ND		2.0		ND		ND		ND	
	5-Apr-05	NR	1.0	ND		ND		ND		ND		ND	
	27-Oct-05	NR	1.0	ND		ND		ND		ND		ND	
	21-Apr-06	NR	1.0	ND		ND		2 (ND)		4 (ND)		ND	
	12-Oct-06	NR	1.0	ND		ND		ND		ND		ND	
	26-Apr-07	NR	1.0	ND		ND		ND		ND		ND	
NC 2B = 2 µg/L (05/01/07)	11-Oct-07	0.06	1.0	0.1	B	0.2	B	Dry		Dry		0.1	J
	3-Apr-08	0.05	1.0	0.1	J	0.1	J	0.1	J	0.1	J	ND	
	28-Oct-08	0.1	1.0	0.1	J	0.3	J	ND		ND		ND	
	7-Apr-09	0.0	1.0	0.2	J	0.1	J	ND		0.1	J	ND	
	27-Oct-09	0.0	1.0	0.1	J	0.1	J	0.1	J	0.1	J	ND	
	7-Apr-10	0.0	1.0	0.1	B	0.3	B	0.1	B	0.1	B	0.1	J
	13-Oct-10	0.0	1.0	0.1	J	0.1	J	ND		0.1	J	ND	
	27-Apr-11	0.0	1.0	0.08	J	ND		0.04	J	0.04	J	ND	
	20-Oct-11	0.02	1	Dry		ND		ND		ND		ND	
	26-Apr-12	0.02	1.0	0.03	J	0.06	J	0.02	J	ND		ND	
	16-Oct-12	0.03	1.0	0.04	J	0.05	J	0.05	J	0.1	J	ND	
	11-Apr-13	0.05	1.0	ND		0.07	J	ND		ND		ND	
	30-Oct-13	0.05	1.0	0.05	J	ND		ND		0.1	J	ND	
	9-Apr-14	0.05	1.0	ND		ND		ND		ND		ND	
	22-Oct-14	0.04	1.0	ND		ND		ND		ND		ND	

TABLE 12

HISTORICAL DETECTIONS in SURFACE WATER
C.R.S.W.M.A. TUSCARORA LANDFILL - SURFACE WATER MONITORING

Analyte	Sample Collection Date	DL	SWSL	SWPT-1		Downgraident SWPT-2		UD-1		UD-2		Blanks	
Total Chromium	1-Jul-93	NR	5	ND		ND		ND		---		ND	
	1-Aug-93	NR	5	---		---		---		---		ND	
	1-Sep-93	NR	5	---		---		---		---		ND	
	1-Sep-93	NR	5	---		---		---		---		ND	
	1-Apr-94	NR	5	ND		ND		ND		---		ND	
	1-Oct-94	NR	10	ND		ND		ND		---		ND	
	1-Apr-95	NR	10	ND		ND		ND		---		ND	
	1-Oct-95	NR	10	ND		ND		ND		---		ND	
	1-Apr-96	NR	10	ND		ND		ND		---		ND	
	1-Oct-96	NR	10	ND		ND		ND		---		ND	
	1-Apr-97	NR	10	Dry		Dry		ND		---		ND	
	1-Oct-97	NR	10	Dry		Dry		ND		---		ND	
	1-Apr-98	NR	10	---		Dry		18		---		ND	
	1-Oct-98	NR	10	Dry		ND		Dry		---		ND	
	18-Mar-99	NR	10	ND		ND		ND		---		ND	
	1-Jul-99	NR	10	---		---		---		12		ND	
	1-Aug-99	NR	10	---		---		---		13		ND	
	1-Oct-99	NR	10	ND		ND		ND		ND		ND	
	1-Nov-99	NR	10	---		---		---		ND		ND	
	1-Apr-00	NR	5	ND		28		ND		---		ND	
	1-Oct-00	NR	10	ND		16		ND		ND		ND	
	1-Apr-01	NR	10	Dry		Dry		ND		---		ND	
	1-Oct-01	NR	10	ND		ND		ND		ND		ND	
	2-Apr-02	NR	10	---		ND		ND		ND		ND	
	2-Oct-02	NR	10	ND		ND		ND		ND		ND	
	3-Apr-03	NR	10	ND		ND		ND		ND		ND	
	3-Oct-03	NR	10	ND		ND		ND		20		ND	
	15-Apr-04	NR	10	ND		ND		ND		22		ND	
	14-Oct-04	NR	10	ND		ND		ND		ND		ND	
	5-Apr-05	NR	10	ND		ND		ND		ND		ND	
	27-Oct-05	NR	10	ND		ND		ND		ND		ND	
	21-Apr-06	NR	10	ND		ND		ND		ND		ND	
	12-Oct-06	NR	10	ND		ND		ND		ND		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		ND	
NC 2B = 50 µg/L (05/01/07)	11-Oct-07	0.24	10.0	1.7	B	12		Dry		Dry		1.2	J
	3-Apr-08	0.11	10.0	1.3	J	12		0.8	J	0.5	J	ND	
	28-Oct-08	0.11	10.0	0.3	J	13		0.2	J	0.4	J	ND	
	7-Apr-09	0.10	10.0	0.3	J	1.2	J	0.5	J	ND		ND	
	27-Oct-09	0.10	10.0	0.6	J	11		0.5	J	0.5	J	ND	
	7-Apr-10	0.03	10.0	1.0	J	0.6	J	0.8	J	0.5	J	ND	
	13-Oct-10	0.03	10.0	2.5	J	1.1	J	1.3	J	0.3	J	ND	
	27-Apr-11	0.04	10.0	0.52	B	0.70	B	0.59	B	0.38	B	0.18	J
	20-Oct-11	0.04	10.0	Dry		1.0	J	2.5	J	0.71	B	0.18	J
	26-Apr-12	0.04	10.0	0.28	B	0.7	J	0.42	B	0.38	B	0.09	J
	16-Oct-12	0.18	10.0	1.1	J	0.93	J	0.74	J	ND		ND	
	11-Apr-13	0.04	10.0	ND		0.24	J	ND		ND		ND	
	30-Oct-13	0.04	10.0	0.25	B	0.33	B	0.25	B	ND		0.11	J
	9-Apr-14	0.04	10.0	0.73	J	0.16	J	1.2	J	ND		ND	
	22-Oct-14	0.14	10.0	4.0	J	0.74	J	0.74	J	0.39	J	ND	

TABLE 12

HISTORICAL DETECTIONS in SURFACE WATER
C.R.S.W.M.A. TUSCARORA LANDFILL - SURFACE WATER MONITORING

Analyte	Sample Collection Date	DL	SWSL	SWPT-1		SWPT-2		Downgraident UD-1		UD-2		Blanks	
Cobalt	1-Jul-93	NR	20	ND		ND		28		---		ND	
	1-Aug-93	NR	20	---		---		---		---		ND	
	1-Sep-93	NR	20	---		---		---		---		ND	
	1-Sep-93	NR	20	---		---		---		---		ND	
	1-Apr-94	NR	10	34	B	45	B	46	B	---		18	
	1-Oct-94	NR	10	ND		ND		ND		---		ND	
	1-Apr-95	NR	10	ND		ND		ND		---		ND	
	1-Oct-95	NR	10	ND		ND		ND		---		ND	
	1-Apr-96	NR	10	ND		ND		ND		---		ND	
	1-Oct-96	NR	10	ND		ND		ND		---		ND	
	1-Apr-97	NR	10	Dry		Dry		ND		---		ND	
	1-Oct-97	NR	10	Dry		Dry		ND		---		ND	
	1-Apr-98	NR	10	---		Dry		ND		---		ND	
	1-Oct-98	NR	10	Dry		ND		Dry		---		ND	
	18-Mar-99	NR	10	ND		ND		ND		---		ND	
	1-Jul-99	NR	10	---		---		---		ND		ND	
	1-Aug-99	NR	10	---		---		---		ND		ND	
	1-Oct-99	NR	10	ND		ND		ND		ND		ND	
	1-Nov-99	NR	10	---		---		---		ND		ND	
	1-Apr-00	NR	10	ND		12		ND		---		ND	
	1-Oct-00	NR	10	ND		ND		ND		ND		ND	
	1-Apr-01	NR	10	Dry		Dry		ND		---		ND	
	1-Oct-01	NR	10	10		ND		ND		ND		ND	
	2-Apr-02	NR	10	---		ND		ND		ND		ND	
	2-Oct-02	NR	10	ND		ND		ND		ND		ND	
	3-Apr-03	NR	10	ND		ND		ND		ND		ND	
	3-Oct-03	NR	10	ND		ND		ND		14		ND	
	15-Apr-04	NR	10	ND		ND		ND		ND		ND	
	14-Oct-04	NR	10	ND		ND		ND		ND		ND	
	5-Apr-05	NR	10	ND		ND		ND		ND		ND	
	27-Oct-05	NR	10	ND		ND		ND		ND		ND	
	21-Apr-06	NR	10	ND		ND		ND		ND		ND	
	12-Oct-06	NR	10	ND		ND		ND		ND		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		ND	
NC 2B = NE µg/L (05/01/07)	11-Oct-07	0.41	10.0	1.5	J	3.4	J	Dry		Dry		ND	
	3-Apr-08	0.03	10.0	0.6	J	3.2	J	3.0	J	1.0	J	ND	
	28-Oct-08	0.03	10.0	0.3	J	4.6	J	0.3	J	0.9	J	ND	
	7-Apr-09	0.02	10.0	0.7	J	2.7	J	1.7	J	0.7	J	ND	
	27-Oct-09	0.02	10.0	0.3	J	2.4	J	0.5	J	1.1	J	ND	
	7-Apr-10	0.10	10.0	1.1	J	2.3	J	0.5	J	1.0	J	ND	
	13-Oct-10	0.10	10.0	0.4	J	1.3	J	0.9	J	0.7	J	ND	
	27-Apr-11	0.03	10.0	1.7	J	1.8	J	0.20	J	0.52	J	ND	
	20-Oct-11	0.03	10.0	Dry		0.73	J	0.33	J	0.44	J	ND	
	26-Apr-12	0.03	10.0	0.49	J	1.8	J	0.17	J	0.55	J	ND	
	16-Oct-12	0.02	10.0	0.52	J	0.96	J	0.38	J	0.37	J	ND	
	11-Apr-13	0.02	10.0	0.57	J	1.3	J	0.36	J	0.33	J	0.03	J
	30-Oct-13	0.02	10.0	0.48	J	0.56	J	0.36	J	0.35	J	0.05	J
	9-Apr-14	0.02	10.0	0.39	J	0.54	J	0.96	J	0.49	J	ND	
	22-Oct-14	0.12	10.0	5.6	J	0.98	J	0.70	J	0.59	J	ND	

TABLE 12

HISTORICAL DETECTIONS in SURFACE WATER
C.R.S.W.M.A. TUSCARORA LANDFILL - SURFACE WATER MONITORING

Analyte	Sample Collection Date	DL	SWSL	SWPT-1		Downgraident SWPT-2		UD-1		UD-2		Blanks	
Copper	1-Jul-93	NR	10	15	B	13	B	10	B	---		17	
	1-Aug-93	NR	10	---		---		---		---		19	
	1-Sep-93	NR	10	---		---		---		---		11	
	1-Sep-93	NR	10	---		---		---		---		39	
	1-Apr-94	NR	10	28	B	40	B	43	B	---		21	
	1-Oct-94	NR	200	ND		ND		ND		---		ND	
	1-Apr-95	NR	200	ND		ND		ND		---		ND	
	1-Oct-95	NR	200	ND		ND		ND		---		ND	
	1-Apr-96	NR	200	ND		ND		ND		---		ND	
	1-Oct-96	NR	200	ND		ND		ND		---		ND	
	1-Apr-97	NR	200	Dry		Dry		ND		---		ND	
	1-Oct-97	NR	200	Dry		Dry		ND		---		ND	
	1-Apr-98	NR	200	---		Dry		ND		---		ND	
	1-Oct-98	NR	200	Dry		ND		Dry		---		ND	
	18-Mar-99	NR	200	ND		ND		15		---		ND	
	1-Jul-99	NR	200	---		---		---		ND		ND	
	1-Aug-99	NR	200	---		---		---		11		ND	
	1-Oct-99	NR	200	ND		ND		ND		ND		ND	
	1-Nov-99	NR	200	---		---		---		ND		ND	
	1-Apr-00	NR	200	ND		ND		ND		---		ND	
	1-Oct-00	NR	200	ND		ND		ND		ND		ND	
	1-Apr-01	NR	200	Dry		Dry		ND		---		ND	
	1-Oct-01	NR	200	ND		ND		ND		ND		ND	
	2-Apr-02	NR	200	---		ND		ND		ND		ND	
	2-Oct-02	NR	200	ND		ND		ND		ND		ND	
	3-Apr-03	NR	200	ND		ND		ND		ND		ND	
	3-Oct-03	NR	200	ND		ND		ND		ND		ND	
	15-Apr-04	NR	200	ND		ND		ND		ND		ND	
	14-Oct-04	NR	200	ND		ND		ND		ND		ND	
	5-Apr-05	NR	200	ND		ND		ND		ND		ND	
	27-Oct-05	NR	200	ND		ND		ND		ND		ND	
	21-Apr-06	NR	200	ND		ND		ND		ND		ND	
	12-Oct-06	NR	200	ND		ND		ND		ND		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		ND	
NC 2B =7 µg/L (05/01/07)	11-Oct-07	0.20	10.0	0.7	B	3.9	J	Dry		Dry		0.4	J
	3-Apr-08	0.05	10.0	1.0	B	2.8	J	1.7	J	0.7	B	0.2	J
	28-Oct-08	0.05	10.0	0.8	B	3	B	0.7	B	1.4	B	1.1	J
	7-Apr-09	0.04	10.0	0.9	J	1.2	J	1.3	J	1.0	J	0.1	J
	27-Oct-09	0.04	10.0	3.0	J	1.7	J	0.5	B	0.8	J	0.1	J
	7-Apr-10	0.03	10.0	1.8	J	1.3	J	1.2	J	0.7	B	0.2	J
	13-Oct-10	0.03	10.0	1.3	J	0.9	B	1	B	0.5	B	0.2	J
	27-Apr-11	0.02	10.0	0.81	B	0.85	B	1.2	B	1.0	B	0.66	J
	20-Oct-11	0.02	10.0	Dry		0.96	B	0.66	B	0.48	B	0.20	J
	26-Apr-12	0.02	10.0	0.67	B	1.5	B	1.2	B	0.80	B	0.94	J
	16-Oct-12	0.06	10.0	2.4	J	1.4	J	0.54	B	0.26	B	0.25	J
	11-Apr-13	0.06	10.0	0.66	B	1.1	B	1.1	B	0.48	B	0.28	J
	30-Oct-13	0.06	10.0	0.53	B	0.71	B	0.63	B	0.38	B	1.2	J
	9-Apr-14	0.06	10.0	0.28	J	0.31	J	0.41	J	0.18	J	ND	
	22-Oct-14	0.10	10.0	1.2	J	0.12	J	0.25	J	ND		ND	

TABLE 12

HISTORICAL DETECTIONS in SURFACE WATER
C.R.S.W.M.A. TUSCARORA LANDFILL - SURFACE WATER MONITORING

Analyte	Sample Collection Date	DL	SWSL	SWPT-1		SWPT-2		UD-1		UD-2		Blanks	
						Downgraident							
Lead	1-Jul-93	NR	5	ND		ND		ND		---		ND	
	1-Aug-93	NR	5	---		---		---		---		ND	
	1-Sep-93	NR	5	---		---		---		---		ND	
	1-Sep-93	NR	5	---		---		---		---		ND	
	1-Apr-94	NR	5	ND		5		ND		---		ND	
	1-Oct-94	NR	10	ND		ND		ND		---		ND	
	1-Apr-95	NR	10	ND		ND		ND		---		ND	
	1-Oct-95	NR	10	ND		ND		ND		---		ND	
	1-Apr-96	NR	10	ND		ND		ND		---		ND	
	1-Oct-96	NR	10	ND		ND		ND		---		ND	
	1-Apr-97	NR	10	Dry		Dry		ND		---		ND	
	1-Oct-97	NR	10	Dry		Dry		ND		---		ND	
	1-Apr-98	NR	10	---		Dry		11		---		ND	
	1-Oct-98	NR	10	Dry		ND		Dry		---		ND	
	18-Mar-99	NR	10	ND		ND		ND		---		ND	
	1-Jul-99	NR	10	---		---		---		ND		ND	
	1-Aug-99	NR	10	---		---		---		ND		ND	
	1-Oct-99	NR	10	ND		ND		ND		ND		ND	
	1-Nov-99	NR	10	---		---		---		ND		ND	
	1-Apr-00	NR	10	ND		ND		ND		---		ND	
	1-Oct-00	NR	10	ND		ND		ND		ND		ND	
	1-Apr-01	NR	10	Dry		Dry		ND		---		ND	
	1-Oct-01	NR	10	ND		ND		ND		ND		ND	
	2-Apr-02	NR	10	---		ND		ND		ND		ND	
	2-Oct-02	NR	10	ND		ND		ND		ND		ND	
	3-Apr-03	NR	10	ND		ND		ND		ND		ND	
	3-Oct-03	NR	10	ND		ND		ND		15		ND	
	15-Apr-04	NR	10	ND		ND		ND		12		ND	
	14-Oct-04	NR	10	ND		ND		ND		ND		ND	
	5-Apr-05	NR	10	ND		ND		ND		ND		ND	
	27-Oct-05	NR	10	ND		ND		ND		ND		ND	
	21-Apr-06	NR	10	ND		ND		ND		ND		ND	
	12-Oct-06	NR	10	ND		ND		ND		ND		ND	
	26-Apr-07	NR	10	ND		ND		ND		ND		ND	
NC 2B = 25 µg/L (05/01/07)	11-Oct-07	0.07	10.0	1.1	J	8.6	J	Dry		Dry		0.1	J
	3-Apr-08	0.32	10.0	1.0	J	0.8	J	0.3	B	0.1	B	0.1	J
	28-Oct-08	0.32	10.0	0.4	B	3.8	J	0.2	B	0.1	B	0.1	J
	7-Apr-09	0.04	10.0	0.9	J	0.1	B	0.2	B	0.1	B	0.1	J
	27-Oct-09	0.04	10.0	0.9	J	1.8	J	0.2	J	0.5	J	ND	
	7-Apr-10	0.01	10.0	0.8	J	0.3	B	0.5	B	0.3	B	0.1	J
	13-Oct-10	0.01	10.0	1.9	J	0.5	B	0.6	J	0.2	B	0.1	J
	27-Apr-11	0.02	10.0	0.32	J	0.19	J	0.43	J	0.09	J	ND	
	20-Oct-11	0.02	10.0	Dry		0.29	J	0.92	J	0.28	J	ND	
	26-Apr-12	0.02	10.0	0.12	J	0.38	J	0.26	J	0.23	J	0.02	J
	16-Oct-12	0.08	10.0	0.79	J	0.35	J	0.54	J	0.09	J	ND	
	11-Apr-13	0.02	10.0	0.15	J	0.16	J	0.21	J	ND		ND	
	30-Oct-13	0.02	10.0	0.20	B	0.09	B	0.16	B	0.03	B	0.08	J
	9-Apr-14	0.02	10.0	0.56	J	0.15	B	0.61	J	0.04	B	0.04	J
	22-Oct-14	0.13	10.0	0.25	J	ND		0.31	J	ND		ND	

TABLE 12

HISTORICAL DETECTIONS in SURFACE WATER
C.R.S.W.M.A. TUSCARORA LANDFILL - SURFACE WATER MONITORING

Analyte	Sample Collection Date	DL	SWSL	SWPT-1		Downgraident SWPT-2		UD-1		UD-2		Blanks	
Nickel	1-Jul-93	NR	10	20		20		24		---		ND	
	1-Aug-93	NR	10	---		---		---		---		11	
	1-Sep-93	NR	10	---		---		---		---		17	
	1-Sep-93	NR	10	---		---		---		---		ND	
	1-Apr-94	NR	10	37	B	51	B	57	B	---		20	
	1-Oct-94	NR	50	ND		ND		ND		---		ND	
	1-Apr-95	NR	50	ND		ND		ND		---		ND	
	1-Oct-95	NR	50	ND		ND		ND		---		ND	
	1-Apr-96	NR	50	ND		ND		ND		---		ND	
	1-Oct-96	NR	50	ND		ND		ND		---		ND	
	1-Apr-97	NR	50	Dry		Dry		ND		---		ND	
	1-Oct-97	NR	50	Dry		Dry		ND		---		ND	
	1-Apr-98	NR	50	---		Dry		ND		---		ND	
	1-Oct-98	NR	50	Dry		ND		Dry		---		ND	
	18-Mar-99	NR	50	ND		ND		ND		---		ND	
	1-Jul-99	NR	50	---		---		---		ND		ND	
	1-Aug-99	NR	50	---		---		---		ND		ND	
	1-Oct-99	NR	50	ND		ND		ND		ND		ND	
	1-Nov-99	NR	50	---		---		---		ND		ND	
	1-Apr-00	NR	50	ND		ND		ND		---		ND	
	1-Oct-00	NR	50	ND		ND		ND		ND		ND	
	1-Apr-01	NR	50	Dry		Dry		ND		---		ND	
	1-Oct-01	NR	50	ND		ND		ND		ND		ND	
	2-Apr-02	NR	50	---		ND		ND		ND		ND	
	2-Oct-02	NR	50	ND		ND		ND		ND		ND	
	3-Apr-03	NR	50	ND		ND		ND		ND		ND	
	3-Oct-03	NR	50	ND		ND		ND		ND		ND	
	15-Apr-04	NR	50	ND		ND		ND		ND		ND	
	14-Oct-04	NR	50	ND		ND		ND		ND		ND	
	5-Apr-05	NR	50	ND		ND		ND		ND		ND	
	27-Oct-05	NR	50	ND		ND		ND		ND		ND	
	21-Apr-06	NR	50	ND		ND		ND		ND		ND	
	12-Oct-06	NR	50	ND		ND		ND		ND		ND	
	26-Apr-07	NR	50	ND		ND		ND		ND		ND	
NC 2B = 88 µg/L (05/01/07)	11-Oct-07	0.66	50.0	3.4	J	15.2	J	Dry		Dry		ND	
	3-Apr-08	0.06	50.0	5.2	J	16	J	9.6	J	8.4	J	0.3	J
	28-Oct-08	0.06	50.0	3.8	J	14.6	J	2.2	J	7	J	0.2	J
	7-Apr-09	0.04	50.0	6.9	J	11.8	J	5.7	J	6.5	J	ND	
	27-Oct-09	0.04	50.0	2.3	J	13.5	J	2.7	J	3.7	J	0.2	J
	7-Apr-10	0.05	50.0	4.3	J	4.2	J	1.8	J	3.7	J	ND	
	13-Oct-10	0.05	50.0	1.7	J	6.7	J	3.1	J	6.2	J	0.1	J
	27-Apr-11	0.04	50.0	5.1	J	6.1	J	1.5	B	4.1	J	0.30	J
	20-Oct-11	0.04	50.0	Dry		4.2	J	1.5	B	2.9	J	0.56	J
	26-Apr-12	0.04	50.0	1.7	J	2.7	J	ND		1.9	J	ND	
	16-Oct-12	0.06	50.0	3.1	J	4.7	J	2.3	J	3.6	J	0.23	J
	11-Apr-13	0.45	50.0	4.2	J	6.4	J	2.2	J	5.0	J	ND	
	30-Oct-13	0.45	50.0	3.6	J	4.6	J	3.3	J	4.4	J	ND	
	9-Apr-14	0.45	50.0	2.4	J	5.2	J	3.0	J	4.6	J	ND	
	22-Oct-14	0.12	50.0	17.9	J	5.3	J	4.3	J	3.6	J	ND	
Selenium	11-Oct-07	0.35	10.0	0.5	B	19		Dry		Dry		0.9	J
Resample	4-Dec-07	3.8	10.0	---		ND		---		---		ND	
NC 2B = 5 µg/L (05/01/07)	3-Apr-08	0.51	10.0	0.5	J	7.2	J	ND		{4.5}	B	ND {1.5}	J
	28-Oct-08	0.51	10.0	0.7	B	ND		0.6	B	3.3	B	1.9	J
	7-Apr-09	0.12	10.0	0.2	J	2.3	J	2.9	J	0.9	J	ND	
	27-Oct-09	0.12	10.0	0.4	J	3.1	J	1.5	J	2.0	J	ND	
	7-Apr-10	0.32	10.0	ND		0.3	J	ND		0.6	J	ND	
	13-Oct-10	0.32	10.0	ND		3.1	J	2.9	J	2.5	J	ND	
	27-Apr-11	0.20	10.0	0.72	J	2.4	J	ND		1.1	J	ND	
	20-Oct-11	0.20	10.0	Dry		1.6	J	ND		0.87	J	ND	
	26-Apr-12	0.20	10.0	0.53	J	1.3	J	ND		1.20	J	ND	
	16-Oct-12	0.17	10.0	0.51	J	2.0	J	0.85	J	0.75	J	ND	
	11-Apr-13	0.06	10.0	0.52	J	2.1	J	0.78	J	1.4	J	ND	
	30-Oct-13	0.06	10.0	0.93	J	1.2	J	1.8	J	1.1	J	ND	
	9-Apr-14	0.06	10.0	ND		0.24	J	0.91	J	0.4	J	ND	
	22-Oct-14	0.16	10.0	7.3	J	1.5	J	2.1	J	2.4	J	ND	

TABLE 12

HISTORICAL DETECTIONS in SURFACE WATER
C.R.S.W.M.A. TUSCARORA LANDFILL - SURFACE WATER MONITORING

Analyte	Sample Collection Date	DL	SWSL	SWPT-1		Downgraident SWPT-2		UD-1		UD-2		Blanks	
Silver	28-Oct-08	0.04	10.0	0.1	B	0.1	B	0.1	B	0.1	B	0.1	J
NC 2B = 0.06 µg/L (05/01/07)	7-Apr-09	0.04	10.0	ND		0.1	J	ND		0.1	J	ND	
	27-Oct-09	0.04	10.0	0.1	J	ND		ND		ND		ND	
	7-Apr-10	0.03	10.0	0.1	B	ND		0.1	B	ND		0.1	J
	13-Oct-10	0.03	10.0	ND		ND		0.1	J	ND		ND	
	27-Apr-11	0.02	10.0	ND		ND		ND		ND		ND	
	20-Oct-11	0.02	10.0	Dry		ND		ND		ND		ND	
	26-Apr-12	0.02	10.0	ND		ND		ND		ND		ND	
	16-Oct-12	0.10	10.0	ND		ND		ND		ND		ND	
	11-Apr-13	0.03	10.0	ND		ND		ND		ND		ND	
	30-Oct-13	0.03	10.0	0.04	B	ND		ND		ND		0.05	J
	9-Apr-14	0.03	10.0	ND		ND		ND		ND		ND	
	22-Oct-14	0.04	10.0	ND		ND		ND		ND		ND	
Thallium	11-Oct-07	0.07	5.0	ND		0.1	J	Dry		Dry		ND	
NC 2B = 0.47 µg/L (05/01/07)	3-Apr-08	0.63	5.0	ND		ND		ND		ND		ND	
	28-Oct-08	0.63	5.0	ND		ND		ND		ND		ND	
	27-Oct-09	0.03	5.0	0.1	J	ND		ND		ND		ND	
	7-Apr-10	0.05	5.0	ND		ND		ND		ND		ND	
	13-Oct-10	0.05	5.5	ND		ND		ND		ND		ND	
	27-Apr-11	0.02	5.5	ND		ND		0.15	B	0.05	B	0.03	J
	20-Oct-11	0.02	5.5	Dry		ND		ND		ND		ND	
	26-Apr-12	0.02	5.5	0.02	J	ND		ND		ND		ND	
	16-Oct-12	0.07	5.5	ND		ND		ND		ND		ND	
	11-Apr-13	0.02	5.5	ND		ND		ND		ND		0.19	J
	30-Oct-13	0.02	5.5	0.28	B	0.1	B	ND		ND		0.13	J
	9-Apr-14	0.02	5.5	ND		ND		ND		ND		ND	
	22-Oct-14	0.13	5.5	ND		ND		ND		ND		ND	
Vanadium	10-Oct-07	0.42	25.0	2.5	J	16.5	J	Dry		Dry		ND	
NC 2B = NE (05/01/07)	3-Apr-08	0.07	25.0	2.1	J	2.6	J	1.7	J	{0.8}	J	ND {0.1}	J
	28-Oct-08	0.07	25.0	0.5	B	8.7	J	1.2	J	0.5	B	0.2	J
	7-Apr-09	0.28	25.0	1.9	J	1.4	J	2.1	J	2.4	J	ND	
	27-Oct-09	0.28	25.0	1.8	B	3.4	J	1.2	B	1.5	B	0.4	J
	7-Apr-10	0.03	25.0	1.1	B	1.0	B	1.1	B	0.7	B	0.4	J
	13-Oct-10	0.03	25.0	3.8	J	1.9	B	2.8	B	1.1	B	0.6	J
	27-Apr-11	0.14	25.0	0.74	J	0.9	J	0.38	J	ND		ND	
	20-Oct-11	0.14	25.0	Dry		0.55	J	2.8	J	0.41	J	ND	
	26-Apr-12	0.14	25.0	0.16	J	1.0	J	0.39	J	0.37	J	ND	
	16-Oct-12	0.10	25.0	1.5	J	0.88	J	1.3	J	0.35	J	ND	
	11-Apr-13	0.07	25.0	0.59	J	1.1	J	0.47	J	0.52	J	ND	
	30-Oct-13	0.07	25.0	0.52	J	0.70	J	0.80	J	0.10	J	ND	
	9-Apr-14	0.07	25.0	1.9	J	0.60	J	2.3	J	0.33	J	ND	
	22-Oct-14	0.06	25.0	1.3	J	1.1	J	1.2	J	0.64	J	ND	

TABLE 12

HISTORICAL DETECTIONS in SURFACE WATER
C.R.S.W.M.A. TUSCARORA LANDFILL - SURFACE WATER MONITORING

Analyte	Sample Collection Date	DL	SWSL	SWPT-1		SWPT-2		UD-1		UD-2		Blanks	
						Downgraident							
Zinc	1-Jul-93	NR	10	11	B	23	B	11	B	---		10	
	1-Aug-93	NR	10	---		---		---		---		ND	
	1-Sep-93	NR	10	---		---		---		---		ND	
	1-Sep-93	NR	10	---		---		---		---		ND	
	1-Apr-94	NR	10	36	B	98	B	65	B	---		20	
	1-Oct-94	NR	50	ND		ND		ND		---		ND	
	1-Apr-95	NR	50	ND		ND		ND		---		ND	
	1-Oct-95	NR	50	ND		ND		ND		---		ND	
	1-Apr-96	NR	50	ND		ND		ND		---		ND	
	1-Oct-96	NR	50	ND		ND		ND		---		ND	
	1-Apr-97	NR	50	Dry		Dry		ND		---		ND	
	1-Oct-97	NR	50	Dry		Dry		ND		---		ND	
	1-Apr-98	NR	50	---		Dry		ND		---		ND	
	1-Oct-98	NR	50	Dry		ND		Dry		---		ND	
	18-Mar-99	NR	50	ND		ND		ND		---		ND	
	1-Jul-99	NR	50	---		---		---		ND		ND	
	1-Aug-99	NR	50	---		---		---		ND		ND	
	1-Oct-99	NR	50	ND		ND		ND		ND		ND	
	1-Nov-99	NR	50	---		---		---		ND		ND	
	1-Apr-00	NR	50	ND		ND		ND		---		ND	
	1-Oct-00	NR	50	ND		ND		ND		ND		ND	
	1-Apr-01	NR	50	Dry		Dry		ND		---		ND	
	1-Oct-01	NR	50	ND		ND		ND		ND		ND	
	2-Apr-02	NR	50	---		ND		ND		ND		ND	
	2-Oct-02	NR	50	ND		ND		ND		ND		ND	
	3-Apr-03	NR	50	ND		ND		ND		ND		ND	
	3-Oct-03	NR	50	ND		ND		ND		81		ND	
	15-Apr-04	NR	50	ND		ND		ND		ND		ND	
	14-Oct-04	NR	50	ND		ND		ND		ND		ND	
	5-Apr-05	NR	50	ND		ND		ND		ND		ND	
	27-Oct-05	NR	50	ND		ND		ND		ND		ND	
	21-Apr-06	NR	50	100 (ND)		ND		ND		ND		ND	
	12-Oct-06	NR	50	ND		ND		ND		ND		ND	
	26-Apr-07	NR	10	45		ND		17		19		ND	
NC 2B = 50 µg/L (05/01/07)	11-Oct-07	0.20	10.0	44		22	B	Dry		Dry		6.6	J
	3-Apr-08	0.04	10.0	35		9.0	B	9.8	B	{2.1}	B	6.3 {2.2}	J,J
	28-Oct-08	0.04	10.0	27		25		4.1	J	1.5	B	0.4	J
	7-Apr-09	0.14	10.0	44		6.8	J	7.1	J	2.8	B	0.8	J
	27-Oct-09	0.14	10.0	23		16		11		3.8	B	1.4	J
	7-Apr-10	0.08	10.0	24		8	J	8.2	J	3.7	J	0.7	J
	13-Oct-10	0.08	10.0	6.8	B	4.7	B	12		2.8	B	4.1	J
	27-Apr-11	0.24	10.0	**77**		3.4	B	4.6	B	2.3	B	1.1	J
	20-Oct-11	0.24	10.0	Dry		3.6	J	4.5	J	1.8	J	0.28	J
	26-Apr-12	0.24	10.0	36		7.6	B	6.2	B	1.9	B	1.9	J
	16-Oct-12	0.48	10.0	36		4.3	J	14		1.2	J	ND	
	11-Apr-13	0.47	10.0	**183**		6.3	J	37		2.0	B	0.88	J
Resample	24-May-13	0.47	10.0	26		---		---		---		NR	
	30-Oct-13	0.47	10.0	**73**		3.2	B	38		2.8	B	3.2	J
	9-Apr-14	0.47	10.0	6.8	J	1.6	J	6.7	J	ND		ND	
	22-Oct-14	0.53	10.0	**56**		1.9	J	5.1	J	0.98	J	ND	

TABLE 12

HISTORICAL DETECTIONS in SURFACE WATER
C.R.S.W.M.A. TUSCARORA LANDFILL - SURFACE WATER MONITORING

Analyte	Sample Collection Date	DL	SWSL	SWPT-1		SWPT-2		Downgraident UD-1		UD-2		Blanks	
Organic Compounds													
Acetone	1-Jul-93	NR	---	ND		ND		ND		---		---	
	1-Aug-93	NR	---	---		---		---		---		---	
	1-Sep-93	NR	---	---		---		---		---		---	
	1-Sep-93	NR	---	---		---		---		---		---	
	1-Apr-94	NR	---	ND		ND		ND		---		---	
	1-Oct-94	NR	---	ND		ND		ND		---		---	
	1-Apr-95	NR	---	ND		ND		ND		---		---	
	1-Oct-95	NR	---	ND		ND		ND		---		---	
	1-Apr-96	NR	---	ND		ND		ND		---		---	
	1-Oct-96	NR	---	ND		ND		ND		---		---	
	1-Apr-97	NR	---	Dry		Dry		ND		---		---	
	1-Oct-97	NR	---	Dry		Dry		ND		---		---	
	1-Apr-98	NR	---	---		Dry		ND		---		---	
	1-Oct-98	NR	---	Dry		ND		Dry		---		---	
	18-Mar-99	NR	---	---		---		---		---		---	
	1-Jul-99	NR	---	---		---		---		ND		---	
	1-Aug-99	NR	---	---		---		---		ND		---	
	1-Oct-99	NR	---	ND		172		ND		ND		---	
	1-Nov-99	NR	---	---		---		---		ND		---	
	1-Apr-00	NR	---	ND		ND		ND		---		---	
	1-Oct-00	NR	---	ND		ND		ND		ND		---	
	1-Apr-01	NR	---	Dry		Dry		ND		---		---	
	1-Oct-01	NR	100	ND		ND		ND		ND		ND	
	2-Apr-02	NR	100	---		ND		ND		ND		ND	
	2-Oct-02	NR	100	ND		ND		ND		ND		ND	
	3-Apr-03	NR	100	ND		ND		ND		ND		ND	
	3-Oct-03	NR	100	ND		ND		ND		ND		ND	
	15-Apr-04	NR	100	ND		ND		ND		ND		ND	
	14-Oct-04	NR	100	ND		ND		ND		ND		ND	
	5-Apr-05	NR	100	ND		ND		ND		ND		ND	
	27-Oct-05	NR	100	ND		ND		ND		ND		ND	
	21-Apr-06	NR	100	ND		ND		ND		ND		ND	
	12-Oct-06	NR	100	ND		ND		ND		ND		ND	
	26-Apr-07	NR	100	ND		ND		ND		ND		ND	
NC 2B = 2,000 µg/L (05/01/07)	11-Oct-07	1.21	100.0	1.40	J	6.40	J	Dry		Dry		ND	
Resample	4-Dec-07	2.2	25.0	ND		ND		---		---		4.3	J
	3-Apr-08	1.21	100.0	2.90	B	9.20	J	5.40	B	{5.60}	B	1.50 {2.10}	J,J
Resample	14-May-08	20.0	100	---		ND		---		---		ND	
	28-Oct-08	1.21	100.0	1.80	B	3.70	B	1.60	B	2.10	B	1.30	J
	7-Apr-09	1.21	100.0	ND		1.70	J	2.00	J	2.00	J	ND	
	27-Oct-09	9.06	100.0	ND		ND		ND		ND		ND	
	7-Apr-10	9.06	100.0	ND		ND		ND		ND		ND	
	13-Oct-10	9.06	100.0	ND		ND		ND		9.90	J	ND	
	27-Apr-11	9.06	100.0	ND		ND		ND		ND		ND	
	20-Oct-11	9.06	100.0	Dry		ND		ND		ND		ND	
	26-Apr-12	9.06	100.0	ND		ND		ND		ND		ND	
	16-Oct-12	9.06	100.0	ND		ND		ND		ND		ND	
	11-Apr-13	9.06	100.0	ND		ND		ND		ND		ND	
	30-Oct-13	9.06	100.0	ND		ND		ND		ND		ND	
	9-Apr-14	9.06	100.0	ND		ND		ND		ND		ND	
	22-Oct-14	9.06	100.0	ND		ND		ND		ND		ND	

TABLE 12

HISTORICAL DETECTIONS in SURFACE WATER
C.R.S.W.M.A. TUSCARORA LANDFILL - SURFACE WATER MONITORING

Analyte	Sample Collection Date	DL	SWSL	SWPT-1	SWPT-2		Downgraident UD-1		UD-2		Blanks
2-Butanone	1-Jul-93	NR	---	ND	ND		ND		---		---
	1-Aug-93	NR	---	---	---		---		---		---
	1-Sep-93	NR	---	---	---		---		---		---
	1-Sep-93	NR	---	---	---		---		---		---
	1-Apr-94	NR	---	ND	ND		ND		---		---
	1-Oct-94	NR	---	ND	ND		ND		---		---
	1-Apr-95	NR	---	ND	ND		ND		---		---
	1-Oct-95	NR	---	ND	ND		ND		---		---
	1-Apr-96	NR	---	ND	ND		ND		---		---
	1-Oct-96	NR	---	ND	ND		ND		---		---
	1-Apr-97	NR	---	Dry	Dry		ND		---		---
	1-Oct-97	NR	---	Dry	Dry		ND		---		---
	1-Apr-98	NR	---	---	Dry		ND		---		---
	1-Oct-98	NR	---	Dry	ND		Dry		---		---
	18-Mar-99	NR	---	---	---		---		---		---
	1-Jul-99	NR	---	---	---		---		ND		---
	1-Aug-99	NR	---	---	---		---		ND		---
	1-Oct-99	NR	---	ND	137		ND		ND		---
	1-Nov-99	NR	---	---	---		---		ND		---
	1-Apr-00	NR	---	ND	ND		ND		---		---
	1-Oct-00	NR	---	ND	ND		ND		ND		---
	1-Apr-01	NR	---	Dry	Dry		ND		---		---
	1-Oct-01	NR	100	ND	ND		ND		ND		ND
	2-Apr-02	NR	100	---	ND		ND		ND		ND
	2-Oct-02	NR	100	ND	ND		ND		ND		ND
	3-Apr-03	NR	100	ND	ND		ND		ND		ND
	3-Oct-03	NR	100	ND	ND		ND		ND		ND
	15-Apr-04	NR	100	ND	ND		ND		ND		ND
	14-Oct-04	NR	100	ND	ND		ND		ND		ND
	5-Apr-05	NR	100	ND	ND		ND		ND		ND
	27-Oct-05	NR	100	ND	ND		ND		ND		ND
	21-Apr-06	NR	100	ND	ND		ND		ND		ND
	12-Oct-06	NR	100	ND	ND		ND		ND		ND
	26-Apr-07	NR	100	ND	ND		ND		ND		ND
NC 2B = 160,000 µg/L (05/01/07)	11-Oct-07	0.85	100.0	ND	1.50	J	Dry		Dry		ND
Resample	4-Dec-07	0.96	5.0	---	ND		---		---		ND
	3-Apr-08	0.85	100.0	1.50	J	2.20	J	1.40	J	2.50	J	ND
	14-May-08	0.96	100.0	ND	ND		ND		ND		ND
	28-Oct-08	0.85	100.0	1.20	J	ND		ND		ND		ND
	7-Apr-09	0.85	100.0	ND	ND		ND		ND		ND
	27-Oct-09	2.21	100.0	4.50	J	ND		2.40	J	6.60	J	ND
	7-Apr-10	2.21	100.0	4.70	J	5.20	J	ND		ND		ND
	13-Oct-10	2.21	100.0	ND	ND		ND		4.10	J	ND
	27-Apr-11	2.21	100.0	ND	ND		ND		ND		ND
	20-Oct-11	2.21	100.0	Dry	ND		ND		ND		ND
	26-Apr-12	2.21	100.0	ND	ND		ND		ND		ND
	16-Oct-12	2.21	100.0	ND	ND		ND		ND		ND
	11-Apr-13	2.21	100.0	ND	ND		ND		ND		ND
	30-Oct-13	2.21	100.0	ND	ND		ND		ND		ND
	9-Apr-14	2.21	100.0	ND	ND		ND		ND		ND
	22-Oct-14	2.21	100.0	ND	ND		ND		ND		ND

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HISTORICAL DETECTIONS in SURFACE WATER
C.R.S.W.M.A. TUSCARORA LANDFILL - SURFACE WATER MONITORING

Analyte	Sample Collection Date	DL	SWSL	SWPT-1	SWPT-2		Downgraident UD-1		UD-2		Blanks
Carbon Disulfide	11-Oct-07	0.14	100.0	ND	0.30	J	Dry		Dry		ND
Resample	4-Dec-07	1.2	2.0	---	ND		---		---		ND
NC 2B = NE (05/01/07)	3-Apr-08	0.14	100.0	ND	ND		ND		ND		ND
	28-Oct-08	0.14	100.0	ND	ND		ND		ND		ND
	7-Apr-09	0.14	100.0	ND	ND		ND		ND		ND
	27-Oct-09	0.23	100.0	ND	ND		ND		ND		ND
	7-Apr-10	0.23	100.0	ND	ND		ND		ND		ND
	13-Oct-10	0.23	100.0	ND	ND		ND		ND		ND
	27-Apr-11	0.23	100.0	ND	ND		ND		ND		ND
	20-Oct-11	0.23	100.0	Dry	ND		ND		ND		ND
	26-Apr-12	0.23	100.0	ND	ND		ND		ND		ND
	16-Oct-12	0.23	100.0	ND	ND		ND		ND		ND
	11-Apr-13	0.23	100.0	ND	ND		ND		ND		ND
	30-Oct-13	0.23	100.0	ND	ND		ND		ND		ND
	9-Apr-14	0.23	100.0	ND	ND		ND		ND		ND
	22-Oct-14	0.23	100.0	ND	ND		ND		ND		ND
Chloromethane	11-Oct-07	0.18	1.0	0.80	J	1.10	Dry		Dry		ND
Resample	4-Dec-07	0.11	1.0	ND		ND	---		---		ND
NC 2B = 96 µg/L (05/01/07)	3-Apr-08	0.18	1.0	ND		0.30	J	0.20	J	0.30	J	ND
Resample	14-May-08	0.11	1.0	---		ND		ND		ND		ND
	28-Oct-08	0.18	1.0	0.20	J	0.20	J	ND		ND		ND
	7-Apr-09	0.18	1.0	ND		ND		ND		ND		ND
	27-Oct-09	0.77	1.0	ND		ND		ND		0.90	J	ND
	7-Apr-10	0.77	1.0	ND		ND		ND		ND		ND
	13-Oct-10	0.77	1.0	ND		ND		ND		ND		ND
	27-Apr-11	0.77	1.0	ND		ND		ND		ND		ND
	20-Oct-11	0.77	1.0	Dry		ND		ND		ND		ND
	26-Apr-12	0.77	1.0	ND		ND		ND		ND		ND
	16-Oct-12	0.77	1.0	ND		ND		ND		ND		ND
	11-Apr-13	0.77	1.0	ND		ND		ND		ND		ND
	30-Oct-13	0.77	1.0	ND		ND		ND		ND		ND
	9-Apr-14	0.77	1.0	ND		ND		ND		ND		ND
	22-Oct-14	0.77	1.0	ND		ND		ND		ND		ND
1,1-Dichloroethane	27-Oct-09	0.02	5.0	ND	0.20	J	ND		ND		ND
NC 2B = 20,000 µg/L (05/01/07)	7-Apr-10	0.02	5.0	ND	ND		ND		ND		ND
	13-Oct-10	0.02	5.0	ND	ND		ND		ND		ND
	27-Apr-11	0.20	5.0	ND	ND		ND		ND		ND
	20-Oct-11	0.20	5.0	Dry	ND		ND		ND		ND
	26-Apr-12	0.20	5.0	ND	ND		ND		ND		ND
	16-Oct-12	0.20	5.0	ND	ND		ND		ND		ND
	11-Apr-13	0.20	5.0	ND	ND		ND		ND		ND
	30-Oct-13	0.20	5.0	ND	ND		ND		ND		ND
	9-Apr-14	0.20	5.0	ND	ND		ND		ND		ND
	22-Oct-14	0.20	5.0	ND	ND		ND		ND		ND
1,4-Dichlorobenzene	3-Apr-08	0.21	1.0	ND	0.40	J	ND		ND		ND
Resample	14-May-08	0.33	1.0	---	ND		---		---		ND
NC 2B = 100 µg/L (05/01/07)	28-Oct-08	0.21	1.0	ND	ND		ND		ND		ND
	7-Apr-09	0.21	1.0	ND	ND		ND		ND		ND
	27-Oct-09	0.39	1.0	ND	0.50	J	ND		ND		ND
	7-Apr-10	0.39	1.0	ND	ND		ND		ND		ND
	13-Oct-10	0.39	1.0	ND	ND		ND		ND		ND
	27-Apr-11	0.39	1.0	ND	ND		ND		ND		ND
	20-Oct-11	0.39	1.0	Dry	ND		ND		ND		ND
	26-Apr-12	0.39	1.0	ND	ND		ND		ND		ND
	16-Oct-12	0.39	1.0	ND	ND		ND		ND		ND
	11-Apr-13	0.39	1.0	ND	ND		ND		ND		ND
	30-Oct-13	0.39	1.0	ND	ND		ND		ND		ND
	9-Apr-14	0.39	1.0	ND	ND		ND		ND		ND
	22-Oct-14	0.39	1.0	ND	ND		ND		ND		ND

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HISTORICAL DETECTIONS in SURFACE WATER
C.R.S.W.M.A. TUSCARORA LANDFILL - SURFACE WATER MONITORING

Analyte	Sample Collection Date	DL	SWSL	SWPT-1		SWPT-2		UD-1		UD-2		Blanks	
						Downgraident							
Methylene Chloride	11-Oct-07	0.14	1.0	ND		ND		Dry		Dry		0.20	J
NC 2B = 590 µg/L (05/01/07)	3-Apr-08	0.14	1.0	ND		ND		ND		ND		ND	
	28-Oct-08	0.14	1.0	0.20	J	0.20	J	0.20	J	0.20	J	ND	
	7-Apr-09	0.14	1.0	ND		ND		ND		ND		ND	
	27-Oct-09	0.64	1.0	ND		ND		ND		ND		ND	
	7-Apr-10	0.64	1.0	ND		ND		ND		ND		ND	
	13-Oct-10	0.64	1.0	ND		ND		ND		ND		ND	
	27-Apr-11	0.64	1.0	ND		ND		ND		ND		ND	
	20-Oct-11	0.64	1.0	Dry		ND		ND		ND		ND	
	26-Apr-12	0.64	1.0	ND		ND		ND		ND		ND	
	16-Oct-12	0.64	1.0	ND		ND		ND		ND		ND	
	11-Apr-13	0.64	1.0	ND		ND		ND		ND		ND	
	30-Oct-13	0.64	1.0	ND		ND		ND		ND		ND	
	9-Apr-14	0.64	1.0	ND		ND		ND		ND		ND	
	22-Oct-14	0.64	1.0	ND		ND		ND		ND		ND	
Styrene	27-Oct-09	0.19	1.0	ND		0.50	J	ND		ND		ND	
NC 2B = NE (05/01/07)	7-Apr-10	0.19	1.0	ND		ND		ND		ND		ND	
	13-Oct-10	0.19	1.0	ND		ND		ND		ND		ND	
	27-Apr-11	0.19	1.0	ND		ND		ND		ND		ND	
	20-Oct-11	0.19	1.0	Dry		ND		ND		ND		ND	
	26-Apr-12	0.19	1.0	ND		ND		ND		ND		ND	
	16-Oct-12	0.19	1.0	ND		ND		ND		ND		ND	
	11-Apr-13	0.19	1.0	ND		ND		ND		ND		ND	
	30-Oct-13	0.19	1.0	ND		ND		ND		ND		ND	
	9-Apr-14	0.19	1.0	ND		ND		ND		ND		ND	
	22-Oct-14	0.19	1.0	ND		ND		ND		ND		ND	

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HISTORICAL DETECTIONS in SURFACE WATER
C.R.S.W.M.A. TUSCARORA LANDFILL - SURFACE WATER MONITORING

Analyte	Sample Collection Date	DL	SWSL	SWPT-1	SWPT-2		UD-1		UD-2	Blanks
					Downgraident					
Toluene	1-Jul-93	NR	---	ND	ND		ND		---	---
	1-Apr-94	NR	---	ND	ND		ND		---	---
	1-Oct-94	NR	---	12	ND		33		---	---
	Apr-95	NR	---	ND	ND		ND		---	---
	Oct-95	NR	---	ND	ND		ND		---	---
	Apr-96	NR	---	ND	ND		ND		---	---
	Oct-96	NR	---	ND	11		ND		---	---
	Apr-97	NR	---	Dry	Dry		ND		---	---
	Oct-97	NR	---	Dry	Dry		ND		---	---
	Apr-98	NR	---	---	Dry		ND		---	---
	Oct-98	NR	---	Dry	ND		Dry		---	---
	Mar-99	NR	---	---	---		---		---	---
	Jul-99	NR	---	---	---		---		ND	---
	Aug-99	NR	---	---	---		---		ND	---
	Oct-99	NR	---	ND	ND		ND		ND	---
	Nov-99	NR	---	---	---		---		ND	---
	Apr-00	NR	---	ND	ND		ND		---	---
	Oct-00	NR	---	ND	ND		ND		ND	---
	Apr-01	NR	---	Dry	Dry		ND		---	---
	Oct-01	NR	5	ND	ND		ND		ND	ND
	Apr-02	NR	5	---	ND		ND		ND	ND
	Oct-02	NR	5	ND	ND		ND		ND	ND
	Apr-03	NR	5	ND	ND		ND		ND	ND
	Oct-03	NR	5	ND	ND		ND		ND	ND
	15-Apr-04	NR	5	ND	ND		ND		ND	ND
	14-Oct-04	NR	5	ND	ND		ND		ND	ND
	05-Apr-05	NR	5	ND	ND		ND		ND	ND
	27-Oct-05	NR	5	ND	ND		ND		ND	ND
	21-Apr-06	NR	5	ND	ND		ND		ND	ND
NC 2B = 11 µg/L (05/01/07)	12-Oct-06	NR	5	ND	ND		ND		ND	ND
	26-Apr-07	NR	5	ND	ND		ND		ND	ND
	11-Oct-07	0.13	1.0	ND	ND		Dry		Dry	ND
	03-Apr-08	0.13	1.0	ND	ND		ND		ND	ND
	28-Oct-08	0.13	1.0	ND	ND		ND		ND	ND
	07-Apr-09	0.13	1.0	ND	ND		ND		ND	ND
	27-Oct-09	0.23	1.0	ND	ND		ND		ND	ND
	07-Apr-10	0.23	1.0	ND	ND		ND		ND	ND
	13-Oct-10	0.23	1.0	ND	ND		ND		ND	ND
	27-Apr-11	0.23	1.0	ND	ND		ND		ND	ND
	20-Oct-11	0.23	1.0	Dry	ND		ND		ND	ND
	26-Apr-12	0.23	1.0	ND	0.60	J	0.5	J	2.1	ND
	16-Oct-12	0.23	1.0	ND	ND		ND		ND	ND
	11-Apr-13	0.23	1.0	ND	ND		ND		ND	ND
	30-Oct-13	0.23	1.0	ND	ND		ND		ND	ND
	9-Apr-14	0.23	1.0	ND	ND		0.90	J	ND	ND
	22-Oct-14	0.23	1.0	ND	0.90	J	ND		ND	ND

Notes:
1. All concentrations are in micrograms per Liter (µg/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. --- = Data not available
6. B = Blank-qualified data; result is expected to be biased high based on concentratio--- in the blanks
7. Shaded values are above the NC 2B Surface Water Standards (NC2B)
11. Dry = Surface water monitoring point was considered to be dry.
12. ( ) = Resample event results
13. DL = Laboratory detection limit.
14. J = Concentrations detected between the DL and RL and are considered estimated.
15. Surface waters are classified as Freshwater Aquatic life, nutrient sensitive, and swamp waters (Jumping Run).
16. { } = Samples assigned a different Eequipment Blank set containing Equipment Blank concentrations higher than the Trip and/or Method Blanks.
17. NE = Not established.

TABLE 13

SUMMARY OF FIELD PARAMETERS
C.R.S.W.M.A. TUSCARORA LF - SURFACE WATER MONITORING

	Sample	**Upgraident**	**Downgraident**		
Analyte	Collection Date	SWPT-1	SWPT-2	UD-1	UD-2
Conductivity (at 25c)	1-Jul-93	80	340	50	NA
[uMhos]	1-Apr-94	310	450	610	NA
	1-Oct-94	490	500	1,100	NA
	1-Apr-95	500	380	480	NA
	1-Oct-95	480	910	500	NA
	1-Apr-96	400	560	390	NA
	1-Oct-96	460	920	260	NA
	1-Apr-97	Dry	Dry	840	NA
	1-Oct-97	Dry	Dry	1,900	NA
	1-Apr-98	NA	Dry	420	NA
	1-Oct-98	Dry	680	Dry	NA
	1-Jul-99	NA	NA	NA	160
	1-Aug-99	NA	NA	NA	1,300
	1-Oct-99	450	880	320	980
	1-Nov-99	NA	NA	NA	780
	1-Apr-00	420	3,000	470	NA
	1-Oct-00	110	1,100	480	790
	1-Apr-14	Dry	Dry	380	NA
	1-Oct-14	320	320	870	630
	2-Apr-14	NA	1,800	510	640
	2-Oct-14	1,000	1,700	620	778
	3-Apr-14	601	1,048	1,181	894
	3-Oct-14	741	974	481	1,331
	15-Apr-04	340	380	120	690
	14-Oct-04	255	363	375	329
	5-Apr-05	677	795	1,281	1,021
	27-Oct-05	722	522	199	607
	21-Apr-06	616	1,010	1,122	1,034
	12-Oct-06	456	523	530	538
	26-Apr-07	517	758	837	1,022
	11-Oct-07	562	2,820	Dry	Dry
Resample	4-Dec-07	2,140	3,630	NS	NS
	3-Apr-08	643	1,836	1,647	1,220
Resample	14-May-08	2,890	1,198	1,191	1,458
	28-Oct-08	571	2,320	410	1,245
	7-Apr-09	1,038	1,432	583	1,128
	27-Oct-09	521.0	1,820	319	1,004
	7-Apr-10	991	995	420	978
	13-Oct-10	78	911	625	896
	27-Apr-11	1,196	1,283	268	1,116
	20-Oct-11	Dry	819	295	838
	26-Apr-12	1,124	1,050	250	1,046
	16-Oct-12	625	967	562	1038
[uMhos/ cm]	11-Apr-13	846	992	436	1003
	30-Oct-13	821	935	758	924
	9-Apr-14	753	893	683	1099
	22-Oct-14	2510	1055	951	1022

TABLE 13

SUMMARY OF FIELD PARAMETERS
C.R.S.W.M.A. TUSCARORA LF - SURFACE WATER MONITORING

	Sample	**Upgraident**	**Downgraident**		
Analyte	Collection Date	SWPT-1	SWPT-2	UD-1	UD-2
PH (field measurement)	1-Jun-93	5.9	6.3	6.3	-
[standard units]	1-Apr-94	6.7	7	7.2	NA
	1-Oct-94	7.2	7.3	7.6	NA
	1-Apr-95	7.2	7.1	7.3	NA
	1-Oct-95	7.1	7.5	7.4	NA
	1-Apr-96	7.1	6	7.1	NA
	1-Oct-96	6.1	6.8	6.8	NA
	1-Apr-97	Dry	Dry	6.3	NA
	1-Oct-97	Dry	Dry	7.1	NA
	1-Apr-98	NA	Dry	7	NA
	1-Oct-98	Dry	6.1	Dry	NA
	1-Jul-99	NA	NA	NA	7.0
	1-Aug-99	NA	NA	NA	6.2
	1-Oct-99	7.4	7.2	7.1	7.1
	1-Nov-99	NA	NA	NA	6.6
	1-Apr-00	6.9	8.1	6.6	NA
	1-Oct-00	7	7.6	6.6	6.4
	1-Apr-14	Dry	Dry	6.5	NA
	1-Oct-14	7	7.3	7.4	5.2
	2-Apr-14	NA	7.4	7.4	6.2
	2-Oct-14	7.5	7.9	7	6.2
	3-Apr-14	7.2	7.3	7.5	6.2
	3-Oct-14	7.3	7.2	6.9	6.4
	15-Apr-04	7.2	7.1	7.6	6.8
	14-Oct-04	7.4	4	7	7.2
	5-Apr-05	7.4	7.5	8.0	7.3
	27-Oct-05	7.3	7.0	6.9	7.1
	21-Apr-06	7	7.1	8.0	6.8
	12-Oct-06	7.1	7.8	7.2	7.1
	26-Apr-07	7.3	8.8	7.5	6.9
	11-Oct-07	7.1	7.1	Dry	Dry
Resample	4-Dec-07	8.09	7.5	NS	NS
	3-Apr-08	7.7	6.6	7.4	6.6
Resample	14-May-08	7.74	7.8	8.1	7.41
	28-Oct-08	7.3	7.4	7.2	6.8
	7-Apr-09	6.8	6.9	6.8	6.4
	27-Oct-09	6.6	7.0	7.3	6.8
	7-Apr-10	6.8	7.0	7.1	6.5
	13-Oct-10	6.8	7.1	7	6.2
	27-Apr-11	6.8	7.0	7	6.6
	20-Oct-11	Dry	7.3	7.7	6.8
	26-Apr-12	7.0	7.4	8.8	7.2
	16-Oct-12	7.2	7.2	7.5	6.7
	11-Apr-13	7.4	6.8	7.7	6.7
	30-Oct-13	7.6	7.3	7.6	6.8
	9-Apr-14	7.0	7.2	7.3	6.7
	22-Oct-14	7.5	7.1	7.5	6.6

TABLE 13

SUMMARY OF FIELD PARAMETERS
C.R.S.W.M.A. TUSCARORA LF - SURFACE WATER MONITORING

Analyte	Sample Collection Date	Upgraident SWPT-1	Downgraident SWPT-2	UD-1	UD-2
Temperature	1-Jun-93	17.0	15	15	NA
[oC]	1-Apr-94	23.0	20	23	NA
	1-Oct-94	17.0	16	18	NA
	1-Apr-95	20.0	22	18	NA
	1-Oct-95	19.0	19	22	NA
	1-Apr-96	11.0	10	11	NA
	1-Oct-96	21	21	23	NA
	1-Apr-97	Dry	Dry	15	NA
	1-Oct-97	Dry	Dry	15	NA
	1-Apr-98	NA	Dry	19	NA
	1-Oct-98	Dry	20	Dry	NA
	1-Jul-99	NA	NA	NA	24
	1-Aug-99	NA	NA	NA	23.0
	1-Oct-99	21	18	18	19.0
	1-Nov-99	NA	NA	NA	14.0
	1-Apr-00	11	15	19	NA
	1-Oct-00	13	13	15	15
	1-Apr-14	Dry	Dry	20	NA
	1-Oct-14	16	16	18	18
	2-Apr-14	NA	16	20	18
	2-Oct-14	25	22	22	22
	3-Apr-14	20	19	17	24
	3-Oct-14	17	15	15	15
	15-Apr-04	13	12	13	13
	14-Oct-04	20	20	19	19
	5-Apr-05	17	15	16	14
	27-Oct-05	15	13	14	14
	21-Apr-06	18	16	24	17
	12-Oct-06	21	26	21	23
	26-Apr-07	19	29	20	17
	11-Oct-07	21	23	Dry	Dry
Resample	4-Dec-07	8.5	8.1	NS	NS
	3-Apr-08	14	13	14	15
Resample	14-May-08	23.5	28.9	22.6	22.6
	28-Oct-08	14.0	9	12	13
	7-Apr-09	15.00	11	15	15
	27-Oct-09	18.00	17	18	18
	7-Apr-10	16.00	18	19	19
	13-Oct-10	21.0	21	19	21
	27-Apr-11	19.0	23	23	23
	20-Oct-11	Dry	16	18	18
	26-Apr-12	12.0	14	15	15
	16-Oct-12	18.0	17	18	18
	11-Apr-13	16.0	19	18	19
	30-Oct-13	17.0	16.0	16.0	16
	9-Apr-14	15.0	16.0	16.0	16
	22-Oct-14	18	17	16	18

TABLE 13

SUMMARY OF FIELD PARAMETERS
C.R.S.W.M.A. TUSCARORA LF - SURFACE WATER MONITORING

Analyte	Sample Collection Date	Upgraident SWPT-1	Downgraident SWPT-2	UD-1	UD-2
Turbidity	1-Jun-93	NA	NA	NA	NA
[NTU]	1-Apr-94	NA	NA	NA	NA
	1-Oct-94	NA	NA	NA	NA
	1-Apr-95	NA	NA	NA	NA
	1-Oct-95	NA	NA	NA	NA
	1-Apr-96	NA	NA	NA	NA
	1-Oct-96	NA	NA	NA	NA
	1-Apr-97	Dry	Dry	NA	NA
	1-Oct-97	Dry	Dry	NA	NA
	1-Apr-98	NA	Dry	NA	NA
	1-Oct-98	Dry	38	Dry	NA
	1-Jul-99	NA	NA	NA	NA
	1-Aug-99	NA	NA	NA	300
	1-Oct-99	160	120	65	70
	1-Nov-99	NA	NA	NA	21
	1-Apr-00	14	310	25	NA
	1-Oct-00	100	120	46	11
	1-Apr-14	Dry	Dry	26	NA
	1-Oct-14	70	60	4.2	60
	2-Apr-14	NA	21	8.6	140
	2-Oct-14	28	32	25	130
	3-Apr-14	33	60	35	170
	3-Oct-14	26	14	27	39
	15-Apr-04	28	55	50	330
	14-Oct-04	180	90	80	110
	5-Apr-05	23	80	27	8.1
	27-Oct-05	25	45	27	40
	21-Apr-06	34	21	13	11
	12-Oct-06	50	70	28	80
	26-Apr-07	50	80	31	12
	11-Oct-07	37	350	Dry	Dry
Resample	4-Dec-07	10.49	21.2	NS	NS
	3-Apr-08	40	65	28	40
Resample	14-May-08	43.2	45.5	11.64	79
	28-Oct-08	17	120	26	60
	7-Apr-09	17	15	12	80
	27-Oct-09	34	150	12	37
	7-Apr-10	33	26	15	35
	13-Oct-10	60	22	20	110
	27-Apr-11	32	16	15	28
	20-Oct-11	Dry	13	38	36
	26-Apr-12	36	38	7.9	45
	16-Oct-12	32	22	16	45
	11-Apr-13	18	9.7	60	40
	30-Oct-13	9.7	11	8.3	40
	9-Apr-14	39	8.2	38	65
	22-Oct-14	34	16	20	65

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

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks	
Inorganic Compounds							
Antimony	1-Oct-99	---	30	47		ND	
	1-Apr-00	---	30	ND		ND	
	1-Oct-00	---	30	ND		ND	
	1-Apr-01	---	30	ND		ND	
	1-Oct-01	---	30	ND		ND	
	2-Apr-02	---	30	ND		ND	
	3-Apr-03	---	30	ND		ND	
	5-Apr-05	---	30	ND		ND	
	15-Dec-05	---	30	ND		ND	
	21-Apr-06	---	---	---		ND	
	12-Oct-06	---	---	---		ND	
	26-Apr-07	---	6.0	7		ND	
	11-Oct-07	0.05	6.0	4.0	J	0.1	J
	3-Apr-08	0.08	6.0	6.2		ND	
	28-Oct-08	0.08	6.0	8.8		ND	
	7-Apr-09	0.06	6.0	5.7	J	ND	
	27-Oct-09	0.06	6.0	39		ND	
	8-Apr-10	0.22	6.0	1.8	B	0.7	J
	13-Oct-10	0.22	6.0	4.6	J	ND	
	27-Apr-11	0.14	6.0	7		ND	
	20-Oct-11	0.14	6.0	46		ND	
	26-Apr-12	0.14	6.0	12		ND	
	16-Oct-12	0.02	6.0	44		ND	
	11-Apr-13	0.02	6.0	8		ND	
	30-Oct-13	0.02	6.0	12		0.08	J
	9-Apr-14	0.02	6.0	12		ND	
	22-Oct-14	0.12	6.0	2.0	J	ND	

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate	Blanks	
Arsenic	1-Oct-99	---	10	ND	ND	
	1-Apr-00	---	10	ND	ND	
	1-Oct-00	---	10	ND	ND	
	1-Apr-01	---	10	ND	ND	
	1-Oct-01	---	10	12	ND	
	2-Apr-02	---	10	27	ND	
	3-Apr-03	---	10	55	ND	
	5-Apr-05	---	10	74	ND	
	15-Dec-05	---	10	52	ND	
	21-Apr-06	---	---	---	ND	
	12-Oct-06	---	---	---	ND	
	26-Apr-07	---	10	14	ND	
	11-Oct-07	0.47	10.0	59	ND	
	3-Apr-08	0.07	10.0	45	0.2	J
	28-Oct-08	0.07	10.0	66	0.5	J
	7-Apr-09	0.17	10.0	58	0.2	J
	27-Oct-09	0.17	10.0	124	ND	
	8-Apr-10	0.04	10.0	86	ND	
	13-Oct-10	0.35	10.0	75	ND	
	27-Apr-11	0.43	10.0	114	ND	
	20-Oct-11	0.10	10.0	120	ND	
	26-Apr-12	0.10	10.0	149	ND	
	16-Oct-12	0.25	10.0	147	0.4	J
	11-Apr-13	0.05	10.0	150	0.15	J
	30-Oct-13	0.05	10.0	140	0.20	J
	9-Apr-14	0.05	10.0	130	ND	
	22-Oct-14	0.10	10.0	63	ND	

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate	Blanks	
Barium	1-Oct-99	---	500	ND	ND	
	1-Apr-00	---	500	ND	ND	
	1-Oct-00	---	500	ND	ND	
	1-Apr-01	---	500	ND	ND	
	1-Oct-01	---	500	537	ND	
	2-Apr-02	---	500	1,358	ND	
	3-Apr-03	---	500	794	ND	
	5-Apr-05	---	500	542	ND	
	15-Dec-05	---	500	ND	ND	
	21-Apr-06	---	---	---	ND	
	12-Oct-06	---	---	---	ND	
	26-Apr-07	---	100	112	ND	
	11-Oct-07	0.04	100.0	754	0.2	J
	3-Apr-08	0.11	100.0	838	0.4	J
	28-Oct-08	0.11	100.0	868	0.7	J
	7-Apr-09	0.04	100.0	788	0.2	J
	27-Oct-09	0.04	100.0	1,055	0.1	J
	8-Apr-10	0.03	100.0	1,001	0.1	J
	13-Oct-10	0.03	100.0	1,022	0.2	J
	27-Apr-11	0.02	100.0	934	0.10	J
	20-Oct-11	0.02	100.0	727	0.10	J
	26-Apr-12	0.02	100.0	983	0.12	J
	16-Oct-12	0.07	100.0	826	0.28	J
	11-Apr-13	0.06	100.0	1050	0.06	J
	30-Oct-13	0.06	100.0	801	0.24	J
	9-Apr-14	0.06	100.0	923	ND	
	22-Oct-14	0.12	100.0	1189	ND	

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks	
Beryllium	1-Oct-99	---	2	ND		ND	
	1-Apr-00	---	2	ND		ND	
	1-Oct-00	---	2	ND		ND	
	1-Apr-01	---	2	ND		ND	
	1-Oct-01	---	2	ND		ND	
	2-Apr-02	---	2	ND		ND	
	3-Apr-03	---	2	ND		ND	
	5-Apr-05	---	2	ND		ND	
	15-Dec-05	---	2	ND		ND	
	21-Apr-06	---	---	---		ND	
	12-Oct-06	---	---	---		ND	
	26-Apr-07	---	1.0	ND		ND	
	11-Oct-07	0.08	1.0	0.1	J	ND	
	3-Apr-08	0.06	1.0	0.1	J	ND	
	28-Oct-08	0.06	1.0	0.2	J	ND	
	7-Apr-09	0.06	1.0	0.1	J	ND	
	27-Oct-09	0.06	1.0	0.5	J	ND	
	8-Apr-10	0.02	1.0	0.1	B	0.1	J
	13-Oct-10	0.02	1.0	0.1	J	ND	
	27-Apr-11	0.02	1.0	0.10	J	ND	
	20-Oct-11	0.02	1.0	0.09	J	ND	
	26-Apr-12	0.02	1.0	0.09	J	ND	
	16-Oct-12	0.07	1.0	0.12	J	ND	
	11-Apr-13	0.03	1.0	0.14	J	ND	
	30-Oct-13	0.03	1.0	0.13	B	0.04	J
	9-Apr-14	0.03	1.0	0.15	J	ND	
	22-Oct-14	0.04	1.0	0.18	J	ND	

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate	Blanks	
Cadmium	1-Oct-99	---	1	ND	ND	
	1-Apr-00	---	1	ND	ND	
	1-Oct-00	---	1	ND	ND	
	1-Apr-01	---	1	ND	ND	
	1-Oct-01	---	1	ND	ND	
	2-Apr-02	---	1	2	ND	
	3-Apr-03	---	1	ND	ND	
	5-Apr-05	---	1	ND	ND	
	15-Dec-05	---	1	ND	ND	
	21-Apr-06	---	---	---	ND	
	12-Oct-06	---	---	---	ND	
	26-Apr-07	---	1	ND	ND	
	11-Oct-07	0.06	1	2	0.1	J
	3-Apr-08	0.04	1	4	ND	
	28-Oct-08	0.04	1	3.6	ND	
	7-Apr-09	0.04	1	3	ND	
	27-Oct-09	0.04	1	2.5	ND	
	8-Apr-10	0.02	1	5	0.1	J
	13-Oct-10	0.02	1	7	ND	
	27-Apr-11	0.02	1	4	ND	
	20-Oct-11	0.02	1	3	ND	
	26-Apr-12	0.02	1	3	ND	
	16-Oct-12	0.03	1	5.0	ND	
	11-Apr-13	0.05	1.0	6.0	ND	
	30-Oct-13	0.1	1.0	6.0	ND	
	9-Apr-14	0.1	1.0	5.0	ND	
	22-Oct-14	0.0	1.0	7	ND	

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate	Blanks	
Total Chromium	1-Oct-99	---	10	ND	ND	
	1-Apr-00	---	10	ND	ND	
	1-Oct-00	---	10	ND	ND	
	1-Apr-01	---	10	20	ND	
	1-Oct-01	---	10	37	ND	
	2-Apr-02	---	10	158	ND	
	3-Apr-03	---	10	50	ND	
	5-Apr-05	---	10	48	ND	
	15-Dec-05	---	10	36	ND	
	21-Apr-06	---	---	---	ND	
	12-Oct-06	---	---	---	ND	
	26-Apr-07	---	10	ND	ND	
	11-Oct-07	0.24	10.0	81	1.2	J
	3-Apr-08	0.11	10.0	61	ND	
	28-Oct-08	0.11	10.0	72	ND	
	7-Apr-09	0.10	10.0	47	ND	
	27-Oct-09	0.10	10.0	108	ND	
	8-Apr-10	0.03	10.0	56	ND	
	13-Oct-10	0.03	10.0	49	ND	
	27-Apr-11	0.04	10.0	42	0.18	J
	20-Oct-11	0.04	10.0	43	0.18	J
	26-Apr-12	0.04	10.0	41	0.09	J
	16-Oct-12	0.18	10.0	51	ND	
	11-Apr-13	0.04	10.0	63	ND	
	30-Oct-13	0.04	10.0	33	0.11	J
	9-Apr-14	0.04	10.0	58	ND	
	22-Oct-14	0.14	10.0	35	ND	

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate	Blanks	
Cobalt	1-Oct-99	---	10	ND	ND	
	1-Apr-00	---	10	ND	ND	
	1-Oct-00	---	10	ND	ND	
	1-Apr-01	---	10	ND	ND	
	1-Oct-01	---	10	ND	ND	
	2-Apr-02	---	10	ND	ND	
	3-Apr-03	---	10	23	ND	
	5-Apr-05	---	10	15	ND	
	15-Dec-05	---	10	22	ND	
	21-Apr-06	---	---	---	ND	
	12-Oct-06	---	---	---	ND	
	26-Apr-07	---	10	ND	ND	
	11-Oct-07	0.41	10.0	14	ND	
	3-Apr-08	0.03	10.0	13	ND	
	28-Oct-08	0.03	10.0	15	ND	
	7-Apr-09	0.02	10.0	12	ND	
	27-Oct-09	0.02	10.0	18	ND	
	8-Apr-10	0.10	10.0	15	ND	
	13-Oct-10	0.10	10.0	15	ND	
	27-Apr-11	0.03	10.0	14	ND	
	20-Oct-11	0.03	10.0	13	ND	
	26-Apr-12	0.03	10.0	13	ND	
	16-Oct-12	0.02	10.0	17	ND	
	11-Apr-13	0.02	10.0	18	0.03	J
	30-Oct-13	0.02	10.0	12	0.05	J
	9-Apr-14	0.02	10.0	13	ND	
	22-Oct-14	0.12	10.0	13	ND	

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks	
Copper	1-Oct-99	---	200	ND		ND	
	1-Apr-00	---	200	ND		ND	
	1-Oct-00	---	200	ND		ND	
	1-Apr-01	---	200	---		ND	
	1-Oct-01	---	200	ND		ND	
	2-Apr-02	---	200	ND		ND	
	3-Apr-03	---	200	ND		ND	
	5-Apr-05	---	200	ND		ND	
	15-Dec-05	---	200	ND		ND	
	21-Apr-06	---	---	---		ND	
	12-Oct-06	---	---	---		ND	
	26-Apr-07	---	10	ND		ND	
	11-Oct-07	0.20	10.0	9.4	J	0.4	J
	3-Apr-08	0.05	10.0	12		0.2	J
	28-Oct-08	0.05	10.0	6.5	J	1.1	J
	7-Apr-09	0.04	10.0	10		0.1	J
	27-Oct-09	0.04	10.0	31		0.1	J
	8-Apr-10	0.03	10.0	10		0.2	J
	13-Oct-10	0.03	10.0	9.6	J	0.2	J
	27-Apr-11	0.02	10.0	6.7	J	0.66	J
	20-Oct-11	0.02	10.0	7.3	J	0.2	J
	26-Apr-12	0.02	10.0	9.6	J	0.94	J
	16-Oct-12	0.06	10.0	25		0.25	J
	11-Apr-13	0.06	10.0	13		0.28	J
	30-Oct-13	0.06	10.0	6.7	J	1.2	J
	9-Apr-14	0.06	10.0	5.8	J	ND	
	22-Oct-14	0.10	10.0	5.3	J	ND	

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks	
Lead	1-Oct-99	---	10	ND		ND	
	1-Apr-00	---	10	ND		ND	
	1-Oct-00	---	10	ND		ND	
	1-Apr-01	---	10	ND		ND	
	1-Oct-01	---	10	ND		ND	
	2-Apr-02	---	10	30		ND	
	3-Apr-03	---	10	ND		ND	
	5-Apr-05	---	10	11		ND	
	15-Dec-05	---	10	ND		ND	
	21-Apr-06	---	---	---		ND	
	12-Oct-06	---	---	---		ND	
	26-Apr-07	---	10	ND		ND	
	11-Oct-07	0.07	10.0	1.4	J	0.1	J
	3-Apr-08	0.04	10.0	0.7	J	0.1	J
	28-Oct-08	0.04	10.0	1.1	J	0.1	J
	7-Apr-09	0.04	10.0	0.3	B	0.1	J
	27-Oct-09	0.04	10.0	16		ND	
	8-Apr-10	0.01	10.0	0.2	B	0.1	J
	13-Oct-10	0.01	10.0	0.2	B	0.1	J
	27-Apr-11	0.02	10.0	0.13	J	ND	
	20-Oct-11	0.02	10.0	0.22	J	ND	
	26-Apr-12	0.02	10.0	0.12	J	0.02	J
	16-Oct-12	0.08	10.0	0.34	J	ND	
	11-Apr-13	0.02	10.0	0.42	J	ND	
	30-Oct-13	0.02	10.0	0.30	B	0.08	J
	9-Apr-14	0.02	10	0.26	J	ND	
	22-Oct-14	0.13	10	0.28	J	ND	

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate	Blanks	
Nickel	1-Oct-99	---	50	ND	ND	
	1-Apr-00	---	50	ND	ND	
	1-Oct-00	---	50	ND	ND	
	1-Apr-01	---	50	ND	ND	
	1-Oct-01	---	50	77	ND	
	2-Apr-02	---	50	394	ND	
	3-Apr-03	---	50	141	ND	
	5-Apr-05	---	50	112	ND	
	15-Dec-05	---	50	84	ND	
	21-Apr-06	---	---	---	ND	
	12-Oct-06	---	---	---	ND	
	26-Apr-07	---	50	ND	ND	
	11-Oct-07	0.66	50.0	77	ND	
	3-Apr-08	0.06	50.0	77	0.3	J
	28-Oct-08	0.06	50.0	81	0.2	J
	7-Apr-09	0.04	50.0	70	ND	
	27-Oct-09	0.04	50.0	130	0.2	J
	8-Apr-10	0.05	50.0	85	ND	
	13-Oct-10	0.05	50.0	82	0.1	J
	27-Apr-11	0.04	50.0	74	0.3	J
	20-Oct-11	0.04	50.0	72	0.56	J
	26-Apr-12	0.04	50.0	68	ND	
	16-Oct-12	0.06	50.0	81	0.23	J
	11-Apr-13	0.45	50.0	91	ND	
	30-Oct-13	0.45	50.0	62	ND	
	9-Apr-14	0.45	50.0	108	ND	
	22-Oct-14	0.12	50.0	71	ND	

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks	
Selenium	1-Oct-99	---	20	ND		ND	
	1-Apr-00	---	20	ND		ND	
	1-Oct-00	---	10	ND		ND	
	1-Apr-01	---	20	ND		ND	
	1-Oct-01	---	20	ND		ND	
	2-Apr-02	---	20	ND		ND	
	3-Apr-03	---	20	ND		ND	
	5-Apr-05	---	20	20		ND	
	15-Dec-05	---	20	33		ND	
	21-Apr-06	---	---	---		ND	
	12-Oct-06	---	---	---		ND	
	26-Apr-07	---	10	20		ND	
	11-Oct-07	0.35	10.0	51		0.9	J
	3-Apr-08	0.14	10.0	0.6	B	1.5	J
	28-Oct-08	0.14	10.0	ND		1.9	J
	7-Apr-09	0.12	10.0	42		ND	
	27-Oct-09	0.12	10.0	60		ND	
	8-Apr-10	0.32	10.0	65		ND	
	13-Oct-10	0.30	10.0	ND		ND	
	27-Apr-11	0.32	10.0	ND		ND	
	20-Oct-11	0.32	10.0	ND		ND	
	26-Apr-12	0.32	10.0	28		ND	
	16-Oct-12	0.54	10.0	ND		ND	
	11-Apr-13	0.06	10.0	82		ND	
	30-Oct-13	0.06	10.0	47		ND	
	9-Apr-14	0.06	10.0	59		ND	
	22-Oct-14	0.16	10.0	66		ND	

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks	
Silver	1-Oct-99	---	10	ND		ND	
	1-Apr-00	---	10	ND		ND	
	1-Oct-00	---	10	ND		ND	
	1-Apr-01	---	10	ND		ND	
	1-Oct-01	---	10	ND		ND	
	2-Apr-02	---	10	ND		ND	
	3-Apr-03	---	10	ND		ND	
	5-Apr-05	---	10	ND		ND	
	15-Dec-05	---	10	ND		ND	
	21-Apr-06	---	---	---		ND	
	12-Oct-06	---	---	---		ND	
	26-Apr-07	---	10	ND		ND	
	11-Oct-07	---	10	ND		ND	
	3-Apr-08	0.04	10.0	0.7	J	ND	
	28-Oct-08	0.04	10.0	0.7	J	0.1	J
	7-Apr-09	0.04	10.0	0.8	J	ND	
	27-Oct-09	0.04	10.0	0.8	J	ND	
	8-Apr-10	0.03	10.0	1.0	J	0.1	J
	13-Oct-10	0.03	10.0	1.5	J	ND	
	27-Apr-11	0.02	10.0	0.82	J	ND	
	20-Oct-11	0.02	10.0	0.73	J	ND	
	26-Apr-12	0.02	10.0	0.94	J	ND	
	16-Oct-12	0.10	10.0	1.20	J	ND	
	11-Apr-13	0.03	10.0	1.2	J	ND	
	30-Oct-13	0.03	10.0	1.1	J	0.05	J
	9-Apr-14	0.03	10.0	0.92	J	ND	
	22-Oct-14	0.04	10.0	1.4	J	ND	

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks	
Thallium	27-Apr-11	0.02	5.5	0.04	B	0.03	J
	20-Oct-11	0.02	5.5	ND		ND	
	26-Apr-12	0.02	5.5	ND		ND	
	16-Oct-12	0.07	5.5	0.29	J	ND	
	11-Apr-13	0.02	5.5	0.04	B	0.19	J
	30-Oct-13	0.02	5.5	0.08	B	0.13	J
	9-Apr-14	0.02	5.5	ND		ND	
	22-Oct-14	0.13	5.5	ND		ND	
Vanadium	1-Oct-99	---	40	ND		ND	
	1-Apr-00	---	40	ND		ND	
	1-Oct-00	---	40	ND		ND	
	1-Apr-01	---	40	ND		ND	
	1-Oct-01	---	40	ND		ND	
	2-Apr-02	---	40	ND		ND	
	3-Apr-03	---	40	ND		ND	
	5-Apr-05	---	40	ND		ND	
	15-Dec-05	---	40	51		ND	
	21-Apr-06	---	---	---		ND	
	12-Oct-06	---	---	---		ND	
	26-Apr-07	---	25	ND		ND	
	11-Oct-07	0.42	25.0	17.6	J	ND	
	3-Apr-08	0.07	25.0	14.9	J	0.1	J
	28-Oct-08	0.07	25.0	18.5	J	0.2	J
	7-Apr-09	0.28	25.0	13.3	J	ND	
	27-Oct-09	0.28	25.0	28		0.4	J
	8-Apr-10	0.03	25.0	17.2		0.4	J
	13-Oct-10	0.03	25.0	15.6	J	0.6	J
	27-Apr-11	0.14	25.0	13.3	J	ND	
	20-Oct-11	0.14	25.0	12.9	J	ND	
	26-Apr-12	0.14	25.0	12.5	J	ND	
	16-Oct-12	0.10	25.0	15.3	J	ND	
	11-Apr-13	0.07	25.0	20.6	J	ND	
	30-Oct-13	0.07	25.0	12.3	J	ND	
	9-Apr-14	0.07	25.0	15.3	J	ND	
	22-Oct-14	0.06	25.0	10.5	J	0.18	J

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks	
Zinc	1-Oct-99	---	50	ND		ND	
	1-Apr-00	---	50	ND		ND	
	1-Oct-00	---	50	ND		ND	
	1-Apr-01	---	50	60		ND	
	1-Oct-01	---	50	101		ND	
	2-Apr-02	---	50	298		ND	
	3-Apr-03	---	50	691		ND	
	5-Apr-05	---	50	721		ND	
	15-Dec-05	---	50	ND		ND	
	21-Apr-06	---	---	---		ND	
	12-Oct-06	---	---	---		ND	
	26-Apr-07	---	10	22		ND	
	11-Oct-07	0.20	10.0	42		6.6	J
	3-Apr-08	0.04	10.0	23		2.2	J
	28-Oct-08	0.04	10.0	20		0.4	J
	7-Apr-09	0.14	10.0	11		0.8	J
	27-Oct-09	0.14	10.0	822		1.4	J
	8-Apr-10	0.08	10.0	12		0.7	J
	13-Oct-10	0.08	10.0	8.4	B	4.1	J
	27-Apr-11	0.24	10.0	8.2	J	1.1	J
	20-Oct-11	0.24	10.0	5.3	J	0.28	J
	26-Apr-12	0.24	10.0	7.7	J	1.9	J
	16-Oct-12	0.48	10.0	28		ND	
	11-Apr-13	0.47	10.0	12		0.88	J
	30-Oct-13	0.47	10.0	12	B	3.2	J
	9-Apr-14	0.47	10.0	4.4	J	ND	
	22-Oct-14	0.53	10.0	4.5	J	ND	

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks	
Organic Compounds							
Acetone	1-Oct-99	---	---	ND		ND	
	1-Apr-00	---	---	3,829		ND	
	1-Oct-00	---	---	ND		ND	
	1-Apr-01	---	---	ND		ND	
	1-Oct-01	---	100	---		ND	
	2-Apr-02	---	100	9,690		ND	
	3-Apr-03	---	500	1,090		ND	
	5-Apr-05	---	500	4,570		ND	
	15-Dec-05	---	500	ND		ND	
	21-Apr-06	---	---	---		ND	
	12-Oct-06	---	---	---		ND	
	26-Apr-07	---	100	ND		ND	
	11-Oct-07	1.21	100.0	81.70	J	ND	
	3-Apr-08	1.21	100.0	148.00		2.10	J
	28-Oct-08	1.21	100.0	237.00		1.30	J
	7-Apr-09	1.21	100.0	40.60	J	ND	
	27-Oct-09	9.06	100.0	50.20	J	ND	
	8-Apr-10	9.06	100.0	13.60	J	ND	
	13-Oct-10	9.06	100.0	26.50	J	ND	
	27-Apr-11	9.06	100.0	ND		ND	
	20-Oct-11	9.06	100.0	211.00		ND	
	26-Apr-12	9.06	100.0	20.20	J	ND	
	16-Oct-12	9.06	100.0	708.00		ND	
	11-Apr-13	9.06	100.0	26.60	J	ND	
	30-Oct-13	9.06	100.0	57.60	J	ND	
	9-Apr-14	9.06	100.0	38.8	J	ND	
	22-Oct-14	9.06	100.0	24.10	J	ND	

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks
Benzene	1-Oct-99	---	---	ND		ND
	1-Apr-00	---	---	ND		ND
	1-Oct-00	---	---	ND		ND
	1-Apr-01	---	---	12		ND
	1-Oct-01	---	5	---		ND
	2-Apr-02	---	5	---		ND
	3-Apr-03	---	25	ND		ND
	5-Apr-05	---	25	7.3		ND
	15-Dec-05	---	25	ND		ND
	21-Apr-06	---	---	---		ND
	12-Oct-06	---	---	---		ND
	26-Apr-07	---	3.00	ND		ND
	11-Oct-07	0.16	1.0	3.90		ND
	3-Apr-08	0.16	1.0	2.60		ND
	28-Oct-08	0.16	1.0	1.80		ND
	7-Apr-09	0.16	1.0	1.50		ND
	27-Oct-09	0.24	1.0	1.60		ND
	8-Apr-10	0.24	1.0	2.10		ND
	13-Oct-10	0.24	1.0	2.20		ND
	27-Apr-11	0.24	1.0	3.50		ND
	20-Oct-11	0.24	1.0	3.70		ND
	26-Apr-12	0.24	1.0	3.50		ND
	16-Oct-12	0.24	1.0	3.80		ND
	11-Apr-13	0.24	1.0	4.10		ND
	30-Oct-13	0.24	1.0	4.30		ND
	9-Apr-14	0.24	1.0	4.20		ND
	22-Oct-14	0.24	1.0	2.60		ND
Chlorobenzene	11-Oct-07	0.13	3.0	1.80	J	ND
	3-Apr-08	0.13	3.0	1.30	J	ND
	28-Oct-08	0.13	3.0	0.90	J	ND
	7-Apr-09	0.13	3.0	0.60	J	ND
	27-Oct-09	0.30	3.0	0.50	J	ND
	8-Apr-10	0.30	3.0	0.70	J	ND
	13-Oct-10	0.30	3.0	0.70	J	ND
	27-Apr-11	0.30	3.0	1.10	J	ND
	20-Oct-11	0.30	3.0	1.10	J	ND
	26-Apr-12	0.30	3.0	1.10	J	ND
	16-Oct-12	0.30	3.0	1.20	J	ND
	11-Apr-13	0.30	3.0	1.10	J	ND
	30-Oct-13	0.30	3.0	1.40	J	ND
	9-Apr-14	0.30	3.0	1.40	J	ND
	22-Oct-14	0.30	3.0	0.70	J	ND

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks
Chloroethane	1-Oct-99	---	---	ND		ND
	1-Apr-00	---	---	ND		ND
	1-Oct-00	---	---	ND		ND
	1-Apr-01	---	---	19		ND
	1-Oct-01	---	10	---		ND
	2-Apr-02	---	10	---		ND
	3-Apr-03	---	50	ND		ND
	5-Apr-05	---	50	ND		ND
	15-Dec-05	---	50	ND		ND
	21-Apr-06	---	---	---		ND
	12-Oct-06	---	---	---		ND
	26-Apr-07	---	5.00	ND		ND
	11-Oct-07	0.29	10.0	0.50	J	ND
	3-Apr-08	0.29	10.0	0.40	J	ND
	28-Oct-08	0.29	10.0	ND		ND
	7-Apr-09	0.29	10.0	ND		ND
	27-Oct-09	0.48	10.0	ND		ND
	8-Apr-10	0.48	10.0	ND		ND
	13-Oct-10	0.48	10.0	ND		ND
	27-Apr-11	0.48	10.0	ND		ND
	20-Oct-11	0.48	10.0	0.50	J	ND
	26-Apr-12	0.48	10.0	ND		ND
	16-Oct-12	0.48	10.0	ND		ND
	11-Apr-13	0.48	10.0	ND		ND
	30-Oct-13	0.48	10.0	ND		ND
	9-Apr-14	0.48	10.0	ND		ND
	22-Oct-14	0.48	10.0	ND		ND
Chloromethane	11-Oct-07	0.18	1.0	2.40		ND
	3-Apr-08	0.18	1.0	ND		ND
	28-Oct-08	0.18	1.0	ND		ND
	7-Apr-09	0.18	1.0	ND		ND
	27-Oct-09	0.77	1.0	ND		ND
	8-Apr-10	0.77	1.0	ND		ND
	13-Oct-10	0.77	1.0	ND		ND
	27-Apr-11	0.77	1.0	ND		ND
	20-Oct-11	0.77	1.0	ND		ND
	26-Apr-12	0.77	1.0	ND		ND
	16-Oct-12	0.77	1.0	ND		ND
	11-Apr-13	0.77	1.0	ND		ND
	30-Oct-13	0.77	1.0	ND		ND
	9-Apr-14	0.77	1.0	ND		ND
	22-Oct-14	0.77	1.0	ND		ND

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks
Cis-1,2-Dichloroethene	11-Oct-07	0.14	5.0	2.00	J	ND
	3-Apr-08	0.14	5.0	2.00	J	ND
	28-Oct-08	0.14	5.0	1.40	J	ND
	7-Apr-09	0.14	5.0	0.70	J	ND
	27-Oct-09	0.25	5.0	0.80	J	ND
	8-Apr-10	0.25	5.0	2.10	J	ND
	13-Oct-10	0.25	5.0	1.70	J	ND
	27-Apr-11	0.25	5.0	3.00	J	ND
	20-Oct-11	0.25	5.0	2.50	J	ND
	26-Apr-12	0.25	5.0	1.90	J	ND
	16-Oct-12	0.25	5.0	1.10	J	ND
	11-Apr-13	0.25	5.0	1.60	J	ND
	30-Oct-13	0.25	5.0	2.80	J	ND
	9-Apr-14	0.25	5.0	1.7	J	ND
	22-Oct-14	0.25	5.0	1.00	J	ND
1,1-Dichloroethane	1-Oct-99	---	---	ND		ND
	1-Apr-00	---	---	15		ND
	1-Oct-00	---	---	ND		ND
	1-Apr-01	---	---	ND		ND
	1-Oct-01	---	5	---		ND
	2-Apr-02	---	5	---		ND
	3-Apr-03	---	25	ND		ND
	5-Apr-05	---	25	ND		ND
	15-Dec-05	---	25	ND		ND
	21-Apr-06	---	---	---		ND
	12-Oct-06	---	---	---		ND
	26-Apr-07	---	5.00	ND		ND
	11-Oct-07	0.16	5.0	0.30	J	ND
	3-Apr-08	0.14	5.0	ND		ND
	28-Oct-08	0.16	5.0	ND		ND
	7-Apr-09	0.16	5.0	ND		ND
	27-Oct-09	0.20	5.0	ND		ND
	8-Apr-10	0.20	5.0	ND		ND
	13-Oct-10	0.20	5.0	ND		ND
	27-Apr-11	0.20	5.0	0.30	J	ND
	20-Oct-11	0.17	5.0	ND		ND
	26-Apr-12	0.17	5.0	ND		ND
	16-Oct-12	0.20	5.0	ND		ND
	11-Apr-13	0.20	5.0	ND		ND
	30-Oct-13	0.20	5.0	0.30	J	ND
	9-Apr-14	0.20	5.0	0.20	J	ND
	22-Oct-14	0.20	5.0	ND		ND

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks
1,2-Dichloroethane	11-Oct-07	0.12	1.0	0.40	J	ND
	3-Apr-08	0.12	1.0	0.30	J	ND
	28-Oct-08	0.12	1.0	0.20	J	ND
	7-Apr-09	0.12	1.0	ND		ND
	27-Oct-09	0.27	1.0	ND		ND
	8-Apr-10	0.27	1.0	ND		ND
	13-Oct-10	0.27	1.0	ND		ND
	27-Apr-11	0.27	1.0	ND		ND
	20-Oct-11	0.27	1.0	ND		ND
	26-Apr-12	0.27	1.0	ND		ND
	16-Oct-12	0.27	1.0	ND		ND
	11-Apr-13	0.27	1.0	ND		ND
	30-Oct-13	0.27	1.0	ND		ND
	9-Apr-14	0.27	1.0	1.1		ND
	22-Oct-14	0.27	1.0	ND		ND
1,2-Dichloropropane	11-Oct-07	0.17	1.0	0.30	J	ND
	3-Apr-08	0.17	1.0	ND		ND
	28-Oct-08	0.17	1.0	0.20	J	ND
	7-Apr-09	0.17	1.0	ND		ND
	27-Oct-09	0.21	1.0	ND		ND
	8-Apr-10	0.21	1.0	ND		ND
	13-Oct-10	0.21	1.0	ND		ND
	27-Apr-11	0.21	1.0	0.30	J	ND
	20-Oct-11	0.21	1.0	0.30	J	ND
	26-Apr-12	0.21	1.0	0.40	J	ND
	16-Oct-12	0.21	1.0	ND		ND
	11-Apr-13	0.21	1.0	ND		ND
	30-Oct-13	0.21	1.0	ND		ND
	9-Apr-14	0.21	1.0	0.30	J	ND
	22-Oct-14	0.21	1.0	ND		ND

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks
2-Butanone	1-Oct-99	---	---	ND		ND
	1-Apr-00	---	---	5,343		ND
	1-Oct-00	---	---	ND		ND
	1-Apr-01	---	---	ND		ND
	1-Oct-01	---	100	ND		ND
	2-Apr-02	---	100	5,640		ND
	3-Apr-03	---	500	861		ND
	5-Apr-05	---	500	1,580		ND
	15-Dec-05	---	500	ND		ND
	21-Apr-06	---	---	---		ND
	12-Oct-06	---	---	---		ND
	26-Apr-07	---	100.00	ND		ND
	11-Oct-07	0.85	100.0	45.1	J	ND
	3-Apr-08	0.85	100.0	81.9	J	ND
	28-Oct-08	0.85	100.0	166.0		ND
	7-Apr-09	0.85	100.0	33.3	J	ND
	27-Oct-09	2.21	100.0	6.70	J	ND
	8-Apr-10	2.21	100.0	ND		ND
	13-Oct-10	2.21	100.0	5.30	J	ND
	27-Apr-11	2.21	100.0	4.60	J	ND
	20-Oct-11	2.21	100.0	81.7	J	ND
	26-Apr-12	2.21	100.0	3.00	J	ND
	16-Oct-12	2.21	100.0	276.0		ND
	11-Apr-13	2.21	100.0	4.11	J	ND
	30-Oct-13	2.21	100.0	11.7	J	ND
	9-Apr-14	2.21	100.0	14.4	J	ND
	22-Oct-14	2.21	100.0	ND		ND

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate	Blanks
2-Hexanone	5-Apr-05	---	50	67.1	ND
	15-Dec-05	---	250	ND	ND
	21-Apr-06	---	---	---	ND
	12-Oct-06	---	---	---	ND
	26-Apr-07	---	50.00	ND	ND
	11-Oct-07	1.00	50.0	ND	ND
	3-Apr-08	1.00	50.0	ND	ND
	28-Oct-08	1.00	50.0	ND	ND
	7-Apr-09	1.00	50.0	ND	ND
	27-Oct-09	1.57	50.0	ND	ND
	8-Apr-10	1.57	50.0	ND	ND
	13-Oct-10	1.57	50.0	ND	ND
	27-Apr-11	1.57	50.0	ND	ND
	20-Oct-11	1.57	50.0	ND	ND
	26-Apr-12	1.57	50.0	ND	ND
	16-Oct-12	1.57	50.0	4.00	ND
	11-Apr-13	1.57	50.0	ND	ND
	30-Oct-13	1.57	50.0	ND	ND
	9-Apr-14	1.57	50.0	ND	ND
	22-Oct-14	1.57	50.0	ND	ND
Styrene	5-Apr-05	---	10	33.2	ND
	15-Dec-05	---	50	ND	ND
	21-Apr-06	---	---	---	ND
	12-Oct-06	---	---	---	ND
	26-Apr-07	---	10.00	ND	ND
	11-Oct-07	0.16	1.0	2.10	ND
	3-Apr-08	0.16	1.0	1.70	ND
	28-Oct-08	0.16	1.0	ND	ND
	7-Apr-09	0.16	1.0	2.00	ND
	27-Oct-09	0.19	1.0	1.90	ND
	8-Apr-10	0.19	1.0	7.30	ND
	13-Oct-10	0.19	1.0	5.90	ND
	27-Apr-11	0.19	1.0	11.70	ND
	20-Oct-11	0.19	1.0	10.20	ND
	26-Apr-12	0.19	1.0	6.50	ND
	16-Oct-12	0.19	1.0	2.00	ND
	11-Apr-13	0.19	1.0	11.30	ND
	30-Oct-13	0.19	1.0	8.80	ND
	9-Apr-14	0.19	1.0	5.5	ND
	22-Oct-14	0.19	1.0	5.50	ND

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks
1,2-Dichlorobenzene	11-Oct-07	0.13	5.0	1.10	J	ND
	3-Apr-08	0.13	5.0	1.10	J	ND
	28-Oct-08	0.13	5.0	0.90	J	ND
	7-Apr-09	0.13	5.0	ND		ND
	27-Oct-09	0.32	5.0	0.80	J	ND
	8-Apr-10	0.32	5.0	ND		ND
	13-Oct-10	0.32	5.0	ND		ND
	27-Apr-11	0.32	5.0	ND		ND
	20-Oct-11	0.32	5.0	ND		ND
	26-Apr-12	0.32	5.0	0.60	J	ND
	16-Oct-12	0.32	5.0	0.40	J	ND
	11-Apr-13	0.32	5.0	ND		ND
	30-Oct-13	0.32	5.0	ND		ND
	9-Apr-14	0.32	5.0	ND		ND
	22-Oct-14	0.32	5.0	ND		ND
1,4-Dichlorobenzene	5-Apr-05	---	5	12.5		ND
	15-Dec-05	---	25	ND		ND
	21-Apr-06	---	---	---		ND
	12-Oct-06	---	---	---		ND
	26-Apr-07	---	3.00	13.40		ND
	11-Oct-07	0.21	1.0	15.70		ND
	3-Apr-08	0.21	1.0	14.90		ND
	28-Oct-08	0.21	1.0	13.40		ND
	7-Apr-09	0.21	1.0	9.60		ND
	27-Oct-09	0.39	1.0	11.90		ND
	8-Apr-10	0.39	1.0	13.10		ND
	13-Oct-10	0.39	1.0	11.30		ND
	27-Apr-11	0.39	1.0	13.90		ND
	20-Oct-11	0.39	1.0	11.80		ND
	26-Apr-12	0.39	1.0	15.30		ND
	16-Oct-12	0.39	1.0	13.20		ND
	11-Apr-13	0.39	1.0	13.80		ND
	30-Oct-13	0.39	1.0	15.10		ND
	9-Apr-14	0.39	1.0	16.6		ND
	22-Oct-14	0.39	1.0	7.50		ND

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks
Trichloroethylene	1-Oct-99	---	---	ND		ND
	1-Apr-00	---	---	5.6		ND
	1-Oct-00	---	---	ND		ND
	1-Apr-01	---	---	ND		ND
	1-Oct-01	---	5	---		ND
	2-Apr-02	---	5	---		ND
	3-Apr-03	---	25	ND		ND
	5-Apr-05	---	25	ND		ND
	15-Dec-05	---	25	ND		ND
	21-Apr-06	---	---	---		ND
	12-Oct-06	---	---	---		ND
	26-Apr-07	---	3.00	ND		ND
	11-Oct-07	0.13	1.0	0.30	J	ND
	3-Apr-08	0.13	1.0	0.20	J	ND
	28-Oct-08	0.13	1.0	0.50	J	ND
	7-Apr-09	0.13	1.0	ND		ND
	27-Oct-09	0.23	1.0	ND		ND
	8-Apr-10	0.23	1.0	0.50	J	ND
	13-Oct-10	0.23	1.0	ND		ND
	27-Apr-11	0.23	1.0	1.40		ND
	20-Oct-11	0.23	1.0	2.60		ND
	26-Apr-12	0.23	1.0	0.60	J	ND
	16-Oct-12	---	---	---		ND
	11-Apr-13	0.23	1.0	ND		ND
	30-Oct-13	0.23	1.0	ND		ND
	9-Apr-14	0.23	1.0	ND		ND
	22-Oct-14	0.23	1.0	ND		ND

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate	Blanks
Tetrachloroethylene	1-Oct-99	---	---	ND	ND
	1-Apr-00	---	---	22	ND
	1-Oct-00	---	---	ND	ND
	1-Apr-01	---	---	ND	ND
	1-Oct-01	---	5	---	ND
	2-Apr-02	---	5	ND	ND
	3-Apr-03	---	25	ND	ND
	5-Apr-05	---	25	ND	ND
	15-Dec-05	---	25	ND	ND
	21-Apr-06	---	---	---	ND
	12-Oct-06	---	---	---	ND
	26-Apr-07	---	3.00	ND	ND
	11-Oct-07	0.16	1.0	ND	ND
	3-Apr-08	0.16	1.0	ND	ND
	28-Oct-08	0.16	1.0	ND	ND
	7-Apr-09	0.16	1.0	ND	ND
	27-Oct-09	0.17	1.0	ND	ND
	8-Apr-10	0.17	1.0	ND	ND
	13-Oct-10	0.17	1.0	ND	ND
	27-Apr-11	0.17	1.0	ND	ND
	20-Oct-11	0.17	1.0	ND	ND
	26-Apr-12	0.17	1.0	ND	ND
	16-Oct-12	---	---	---	ND
	11-Apr-13	0.17	1.0	ND	ND
	30-Oct-13	0.17	1.0	ND	ND
	9-Apr-14	0.17	1.0	ND	ND
	22-Oct-14	0.17	1.0	ND	ND

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate	Blanks
Ethylbenzene	1-Oct-99	---	---	ND	ND
	1-Apr-00	---	---	ND	ND
	1-Oct-00	---	---	ND	ND
	1-Apr-01	---	---	66	ND
	1-Oct-01	---	5	---	ND
	2-Apr-02	---	5	93.8	ND
	3-Apr-03	---	25	128	ND
	5-Apr-05	---	25	176	ND
	15-Dec-05	---	25	126	ND
	21-Apr-06	---	---	---	ND
	12-Oct-06	---	---	---	ND
	26-Apr-07	---	5.00	9.50	ND
	11-Oct-07	0.16	1.0	179.00	ND
	3-Apr-08	0.16	1.0	160.00	ND
	28-Oct-08	0.16	1.0	105.00	ND
	7-Apr-09	0.16	1.0	34.60	ND
	27-Oct-09	0.21	1.0	37.80	ND
	8-Apr-10	0.21	1.0	113.00	ND
	13-Oct-10	0.21	1.0	93.70	ND
	27-Apr-11	0.21	1.0	97.60	ND
	20-Oct-11	0.21	1.0	70.20	ND
	26-Apr-12	0.21	1.0	80.50	ND
	16-Oct-12	0.21	1.0	25.00	ND
	11-Apr-13	0.21	1.0	69.10	ND
	30-Oct-13	0.21	1.0	91.30	ND
	9-Apr-14	0.21	1.0	63.5	ND
	22-Oct-14	0.21	1.0	41.20	ND

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks	
Methylene Chloride	1-Oct-99	---	---	32		ND	
	1-Apr-00	---	---	234		ND	
	1-Oct-00	---	---	ND		ND	
	1-Apr-01	---	---	69		ND	
	1-Oct-01	---	10	---		ND	
	2-Apr-02	---	10	---		ND	
	3-Apr-03	---	50	ND		ND	
	5-Apr-05	---	50	ND		ND	
	15-Dec-05	---	50	ND		ND	
	21-Apr-06	---	---	---		ND	
	12-Oct-06	---	---	---		ND	
	26-Apr-07	---	5.00	ND		ND	
	11-Oct-07	0.14	1.0	0.30	B	0.20	J
	3-Apr-08	0.14	1.0	ND		ND	
	28-Oct-08	0.14	1.0	0.20	J	ND	
	7-Apr-09	0.14	1.0	ND		ND	
	27-Oct-09	0.64	1.0	ND		ND	
	8-Apr-10	0.64	1.0	ND		ND	
	13-Oct-10	0.64	1.0	ND		ND	
	27-Apr-11	0.64	1.0	ND		ND	
	20-Oct-11	0.64	1.0	ND		ND	
	26-Apr-12	0.64	1.0	ND		ND	
	16-Oct-12	0.61	1.0	ND		ND	
	11-Apr-13	0.64	1.0	ND		ND	
	30-Oct-13	0.64	1.0	ND		ND	
	9-Apr-14	0.64	1.0	ND		ND	
	22-Oct-14	0.64	1.0	ND		ND	

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate	Blanks
Toluene	1-Oct-99	---	---	9	ND
	1-Apr-00	---	---	16	ND
	1-Oct-00	---	---	ND	ND
	1-Apr-01	---	---	251	ND
	1-Oct-01	---	5	---	ND
	2-Apr-02	---	5	148	ND
	3-Apr-03	---	25	125	ND
	5-Apr-05	---	25	108	ND
	15-Dec-05	---	25	ND	ND
	21-Apr-06	---	---	---	ND
	12-Oct-06	---	---	---	ND
	26-Apr-07	---	5.00	5.6	ND
	11-Oct-07	0.13	1.0	22.8	ND
	3-Apr-08	0.13	1.0	20.1	ND
	28-Oct-08	0.13	1.0	24.0	ND
	7-Apr-09	0.13	1.0	12.0	ND
	27-Oct-09	0.23	1.0	14.0	ND
	8-Apr-10	0.23	1.0	23.9	ND
	13-Oct-10	0.23	1.0	20.4	ND
	27-Apr-11	0.23	1.0	36.4	ND
	20-Oct-11	0.23	1.0	31.8	ND
	26-Apr-12	0.23	1.0	13.0	ND
	16-Oct-12	0.23	1.0	8.2	ND
	11-Apr-13	0.23	1.0	31.5	ND
	30-Oct-13	0.23	1.0	32.7	ND
	9-Apr-14	0.23	1.0	22.6	ND
	22-Oct-14	0.23	1.0	14.80	ND

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks
1,1,1-Trichloroethane	1-Oct-99	---	---	75		ND
	1-Apr-00	---	---	29		ND
	1-Oct-00	---	---	ND		ND
	1-Apr-01	---	---	ND		ND
	1-Oct-01	---	5	---		ND
	2-Apr-02	---	5	---		ND
	3-Apr-03	---	25	ND		ND
	5-Apr-05	---	25	ND		ND
	15-Dec-05	---	25	ND		ND
	21-Apr-06	---	---	---		ND
	12-Oct-06	---	---	---		ND
	26-Apr-07	---	5.00	ND		ND
	11-Oct-07	0.11	1.0	ND		ND
	3-Apr-08	0.11	1.0	ND		ND
	28-Oct-08	0.11	1.0	ND		ND
	7-Apr-09	0.11	1.0	ND		ND
	27-Oct-09	0.19	1.0	ND		ND
	8-Apr-10	0.19	1.0	ND		ND
	13-Oct-10	0.19	1.0	ND		ND
	27-Apr-11	0.19	1.0	ND		ND
	20-Oct-11	0.19	1.0	ND		ND
	26-Apr-12	0.19	1.0	ND		ND
	16-Oct-12	0.19	1.0	ND		ND
	11-Apr-13	0.19	1.0	ND		ND
	30-Oct-13	0.19	1.0	ND		ND
	9-Apr-14	0.19	1.0	ND		ND
	22-Oct-14	0.19	1.0	ND		ND
1,2,3-Trichloropropane	11-Oct-07	0.06	1.0	0.10	J	ND
	3-Apr-08	0.06	1.0	ND		ND
	28-Oct-08	0.06	1.0	ND		ND
	7-Apr-09	0.06	1.0	ND		ND
	27-Oct-09	0.43	1.0	ND		ND
	8-Apr-10	0.43	1.0	ND		ND
	13-Oct-10	0.43	1.0	ND		ND
	27-Apr-11	0.43	1.0	ND		ND
	20-Oct-11	0.43	1.0	ND		ND
	26-Apr-12	0.43	1.0	ND		ND
	16-Oct-12	0.43	1.0	ND		ND
	11-Apr-13	0.43	1.0	ND		ND
	30-Oct-13	0.43	1.0	ND		ND
	9-Apr-14	0.43	1.0	ND		ND
	22-Oct-14	0.43	1.0	ND		ND

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks
1,1,2,2-Tetrachloroethane	11-Oct-07	0.16	3.0	0.30	J	ND
	3-Apr-08	0.16	3.0	ND		ND
	28-Oct-08	0.16	3.0	ND		ND
	7-Apr-09	0.16	3.0	ND		ND
	27-Oct-09	0.26	3.0	ND		ND
	8-Apr-10	0.26	3.0	ND		ND
	13-Oct-10	0.26	3.0	ND		ND
	27-Apr-11	0.26	3.0	ND		ND
	20-Oct-11	0.26	3.0	ND		ND
	26-Apr-12	0.26	3.0	0.30	J	ND
	16-Oct-12	0.26	3.0	ND		ND
	11-Apr-13	0.26	3.0	ND		ND
	30-Oct-13	0.26	3.0	ND		ND
	9-Apr-14	0.26	3.0	ND		ND
	22-Oct-14	0.26	3.0	ND		ND
Trichlorofluoromethane	1-Oct-99	---	---	220		ND
	1-Apr-00	---	---	37		ND
	1-Oct-00	---	---	ND		ND
	1-Apr-01	---	---	10		ND
	1-Oct-01	---	5	---		ND
	2-Apr-02	---	5	---		ND
	3-Apr-03	---	25	ND		ND
	5-Apr-05	---	25	ND		ND
	15-Dec-05	---	25	ND		ND
	21-Apr-06	---	---	---		ND
	12-Oct-06	---	---	---		ND
	26-Apr-07	---	5.00	ND		ND
	11-Oct-07	0.13	1.0	ND		ND
	3-Apr-08	0.13	1.0	ND		ND
	28-Oct-08	0.13	1.0	ND		ND
	7-Apr-09	0.13	1.0	ND		ND
	27-Oct-09	0.24	1.0	ND		ND
	8-Apr-10	0.24	1.0	ND		ND
	13-Oct-10	0.24	1.0	ND		ND
	27-Apr-11	0.24	1.0	ND		ND
	20-Oct-11	0.24	1.0	ND		ND
	26-Apr-12	0.24	1.0	ND		ND
	16-Oct-12	0.24	1.0	ND		ND
	11-Apr-13	0.24	1.0	ND		ND
	30-Oct-13	0.24	1.0	ND		ND
	9-Apr-14	0.24	1.0	ND		ND
	22-Oct-14	0.24	1.0	ND		ND

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks
Vinyl Chloride	1-Oct-99	---	---	ND		ND
	1-Apr-00	---	---	ND		ND
	1-Oct-00	---	---	ND		ND
	1-Apr-01	---	---	36		ND
	1-Oct-01	---	10	---		ND
	2-Apr-02	---	10	---		ND
	3-Apr-03	---	50	ND		ND
	5-Apr-05	---	50	ND		ND
	15-Dec-05	---	50	ND		ND
	21-Apr-06	---	---	---		ND
	12-Oct-06	---	---	---		ND
	26-Apr-07	---	5.00	ND		ND
	11-Oct-07	0.34	1.0	1.10		ND
	3-Apr-08	0.34	1.0	ND		ND
	28-Oct-08	0.34	1.0	ND		ND
	7-Apr-09	0.34	1.0	ND		ND
	27-Oct-09	0.63	1.0	ND		ND
	8-Apr-10	0.63	1.0	ND		ND
	13-Oct-10	0.63	1.0	ND		ND
	27-Apr-11	0.63	1.0	ND		ND
	20-Oct-11	0.63	1.0	ND		ND
	26-Apr-12	0.63	1.0	ND		ND
	16-Oct-12	0.63	1.0	ND		ND
	11-Apr-13	0.63	1.0	ND		ND
	30-Oct-13	0.63	1.0	0.80	J	ND
	9-Apr-14	0.63	1.0	ND		ND
	22-Oct-14	0.63	1.0	ND		ND

TABLE 14

HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate		Blanks
4-Methyl-2-Pentanone	1-Oct-99	---	---	ND		ND
	1-Apr-00	---	---	116		ND
	1-Oct-00	---	---	ND		ND
	1-Apr-01	---	---	471		ND
	1-Oct-01	---	50	---		ND
	2-Apr-02	---	50	---		ND
	3-Apr-03	---	500	923		ND
	5-Apr-05	---	500	2530		ND
	15-Dec-05	---	500	ND		ND
	21-Apr-06	---	---	---		ND
	12-Oct-06	---	---	---		ND
	26-Apr-07	---	100.00	ND		ND
	11-Oct-07	0.68	100.0	51.50	J	ND
	3-Apr-08	0.68	100.0	130.00		ND
	28-Oct-08	0.68	100.0	230.00		ND
	7-Apr-09	0.68	100.0	25.80	J	ND
	27-Oct-09	1.19	100.0	1.40	J	ND
	8-Apr-10	1.19	100.0	3.60	J	ND
	13-Oct-10	1.19	100.0	7.10	J	ND
	27-Apr-11	1.19	100.0	2.20	J	ND
	20-Oct-11	1.19	100.0	46.50	J	ND
	26-Apr-12	1.19	100.0	3.70	J	ND
	16-Oct-12	1.19	100.0	52.30	J	ND
	11-Apr-13	1.19	100.0	4.00	J	ND
	30-Oct-13	1.19	100.0	11.80	J	ND
	9-Apr-14	1.19	100.0	5.2	J	ND
	22-Oct-14	1.19	100.0	ND		ND

TABLE 14

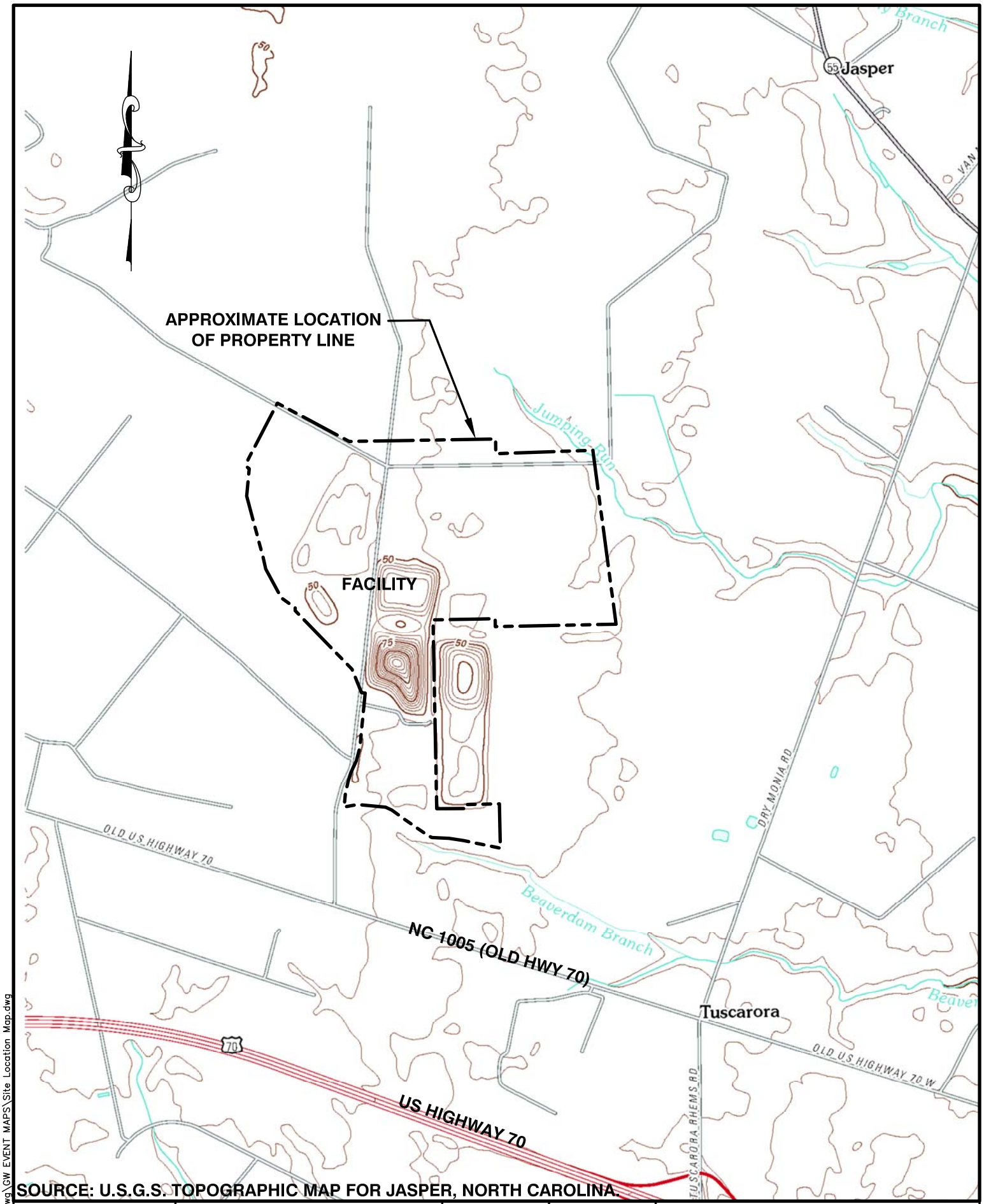
HISTORICAL DETECTIONS IN LEACHATE
TUSCARORA REGIONAL LANDFILL

Analyte	Sample Collection Date	DL	SWSL	Leachate	Blanks
Xylenes	1-Oct-99	---	---	ND	ND
	1-Apr-00	---	---	ND	ND
	1-Oct-00	---	---	ND	ND
	1-Apr-01	---	---	52	ND
	1-Oct-01	---	5	---	ND
	2-Apr-02	---	5	60.6	ND
	3-Apr-03	---	25	102	ND
	5-Apr-05	---	25	147	ND
	15-Dec-05	---	25	189	ND
	21-Apr-06	---	---	---	ND
	12-Oct-06	---	---	---	ND
	26-Apr-07	---	4.00	37.20	ND
	11-Oct-07	0.48	5.0	158.00	ND
	3-Apr-08	0.48	5.0	97.20	ND
	23-Oct-08	0.48	5.0	61.70	ND
	7-Apr-09	0.48	5.0	33.20	ND
	27-Oct-09	0.68	5.0	36.00	ND
	8-Apr-10	0.68	5.0	55.40	ND
	13-Oct-10	0.68	5.0	51.20	ND
	27-Apr-11	0.68	5.0	90.90	ND
	20-Oct-11	0.68	5.0	64.50	ND
	26-Apr-12	0.68	5.0	29.60	ND
	16-Oct-12	0.68	5.0	36.50	ND
	11-Apr-13	0.68	5.0	55.90	ND
	30-Oct-13	0.68	5.0	52.00	ND
	9-Apr-14	0.68	5.0	40.6	ND
	22-Oct-14	0.68	5.0	22.40	ND

Notes:
1. All concentrations are in µg/L.
2. RL = Laboratory reporting limit (NC SWSL or lower from October 2007 to present)
3. --- = No data avaliable
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

Figure

Figure No. 1 Site Location Map



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

FIGURE NO. 1	JOYCE ENGINEERING	2211 WEST MEADOWVIEW ROAD GREENSBORO, N.C. 27407 PHONE: (336) 323-0092 © 2015 Joyce Engineering, Inc. All rights reserved.	SCALE 1"=2000'	PROJECT NO. 618.1501.12	CRSWMA: TUSCARORA LANDFILLS SITE LOCATION MAP

L:\CRSWMA\dwg\GW EVENT MAPS\Site Location Map.dwg

Drawings

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

LEGEND

POINT IN TIME GROUNDWATER CONTOUR (APPROXIMATE) 1 FT. CONTOUR INTERVAL	46
GROUNDWATER FLOW PATHWAY USED TO CALCULATE HYDRAULIC GRADIENT	
SEGMENT USED FOR GRADIENT CALCULATION	i_1
GROUNDWATER MONITORING WELL LOCATION, IDENTIFICATION, AND GROUNDWATER ELEVATION	MW-10 42.06
SURFACE WATER MONITORING LOCATIONS AND IDENTIFICATIONS	SWPT-1
LEACHATE MONITORING LOCATION AND IDENTIFICATION	LEACHATE MANHOLE
NOT MONITORED	NM
EXISTING 10 FT CONTOUR	45
EXISTING 2 FT CONTOUR	
GRAVEL ROAD	
PAVED ROAD	
EDGE OF LINER	

SEGMENT LENGTH

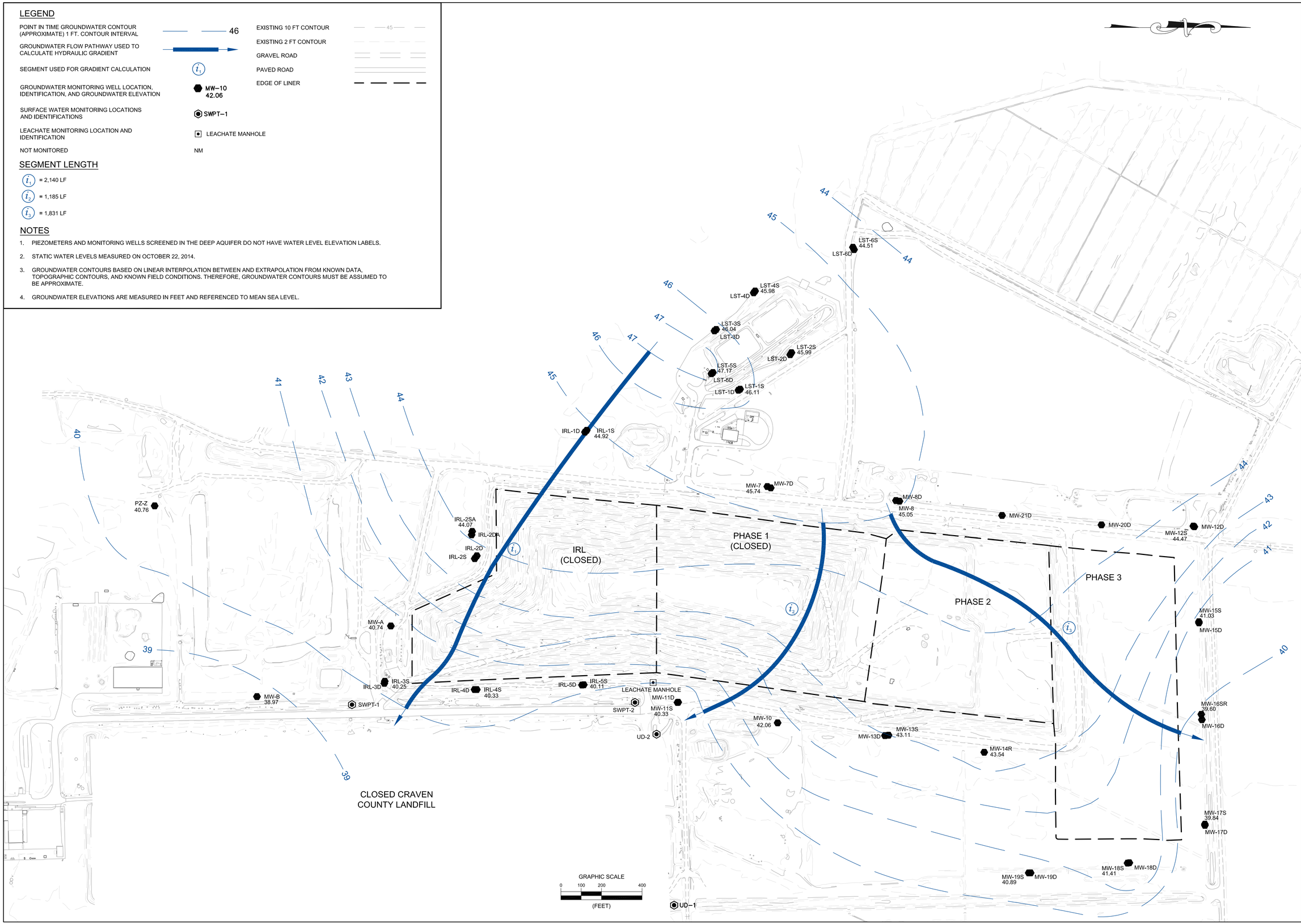
i_1 = 2,140 LF

i_2 = 1,185 LF

i_3 = 1,831 LF

NOTES

1. PIEZOMETERS AND MONITORING WELLS SCREENED IN THE DEEP AQUIFER DO NOT HAVE WATER LEVEL ELEVATION LABELS.
2. STATIC WATER LEVELS MEASURED ON OCTOBER 22, 2014.
3. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE, GROUNDWATER CONTOURS MUST BE ASSUMED TO BE APPROXIMATE.
4. GROUNDWATER ELEVATIONS ARE MEASURED IN FEET AND REFERENCED TO MEAN SEA LEVEL.



DATE	REVISIONS AND RECORD OF ISSUE	NO	BY	CK	APP

DESIGNED ALF
DRAWN RWH
CHECKED DSG
APPROVED VB
DATE 01/19/15

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JOYCE ENGINEERING
2211 W. MEADOWVIEW ROAD
GREENSBORO, NC 27407
PHONE: (336) 323-0092
NC CORP LIC: C-0782

CRSWMA: TUSCARORA LANDFILL
TUSCARORA, NORTH CAROLINA

SHALLOW AQUIFER POTENTIOMETRIC SURFACE CONTOUR MAP
OCTOBER 22, 2014

PROJECT NO. 618

SCALE AS NOTED

DRAWING NO. 1

L:\CRSWMA\dwg\GW EVENT MAPS\CRSWMA GW Event shallow Aquifer OCTOBER\ 2014.dwg Layout=Layout1

LEGEND

POINT IN TIME GROUNDWATER CONTOUR (APPROXIMATE) 1 FT. CONTOUR INTERVAL	30
GROUNDWATER FLOW PATHWAY USED TO CALCULATE HYDRAULIC GRADIENT	
SEGMENT USED FOR GRADIENT CALCULATION	i_1
GROUNDWATER MONITORING WELL LOCATION, IDENTIFICATION, AND GROUNDWATER ELEVATION	MW-20D 36.33
SURFACE WATER MONITORING LOCATIONS AND IDENTIFICATIONS	SWPT-1
LEACHATE MONITORING LOCATION AND IDENTIFICATION	LEACHATE MANHOLE
NOT MONITORED	NM
EXISTING 10 FT CONTOUR	45
EXISTING 2 FT CONTOUR	
GRAVEL ROAD	
PAVED ROAD	
EDGE OF LINER	

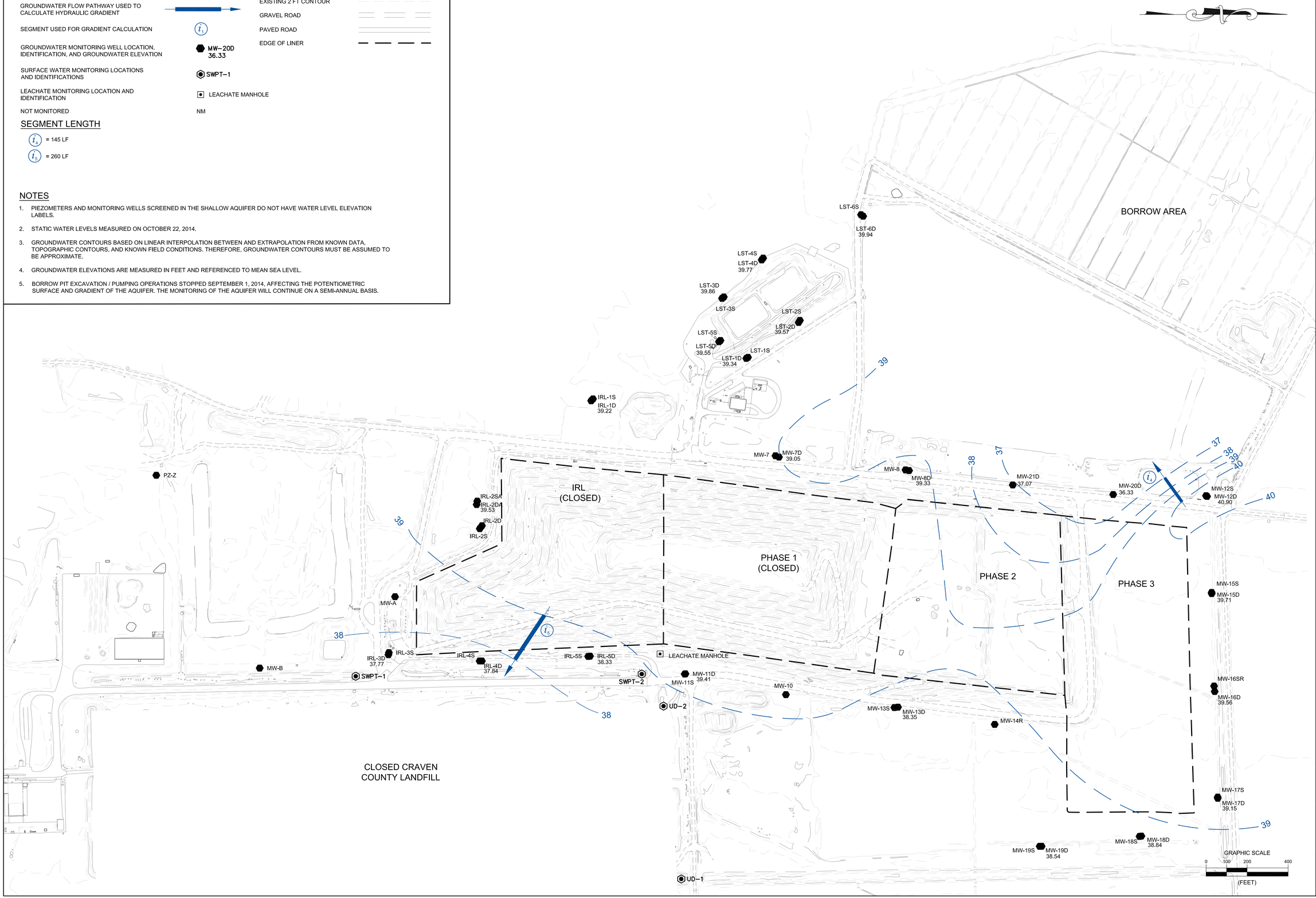
SEGMENT LENGTH

i_4 = 145 LF

i_5 = 260 LF

NOTES

1. PIEZOMETERS AND MONITORING WELLS SCREENED IN THE SHALLOW AQUIFER DO NOT HAVE WATER LEVEL ELEVATION LABELS.
2. STATIC WATER LEVELS MEASURED ON OCTOBER 22, 2014.
3. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE, GROUNDWATER CONTOURS MUST BE ASSUMED TO BE APPROXIMATE.
4. GROUNDWATER ELEVATIONS ARE MEASURED IN FEET AND REFERENCED TO MEAN SEA LEVEL.
5. BORROW PIT EXCAVATION / PUMPING OPERATIONS STOPPED SEPTEMBER 1, 2014, AFFECTING THE POTENTIOMETRIC SURFACE AND GRADIENT OF THE AQUIFER. THE MONITORING OF THE AQUIFER WILL CONTINUE ON A SEMI-ANNUAL BASIS.



DATE	REVISIONS AND RECORD OF ISSUE	NO	BY	CK	APP

DESIGNED ALF
DRAWN RWH
CHECKED VB
APPROVED VB
DATE 01/19/14

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NC CORP. LIC. C-0782

CRSWMA: TUSCARORA LANDFILL
TUSCARORA, NORTH CAROLINA

DEEP AQUIFER POTENTIOMETRIC SURFACE CONTOUR MAP
OCTOBER 22, 2014

PROJECT NO. 618

SCALE AS NOTED

DRAWING NO. 2

L:\CRSWMA\dwg\GW EVENT MAPS\CRSWMA GW Event DEEP Aquifer OCTOBER 2014.dwg Layout=Layout1

Appendices

Appendix A	Laboratory Analytical Reports and Field Data Logs
Appendix B	Statistical Analysis Worksheets and Summary

Appendix A

Laboratory Analytical Reports and Field Data Logs

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#: 6036

CRSWMA TUSCARORA REGIONAL LF (2504)
INTERIM REGIONAL LANDFILL
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 10/22/14
DATE REPORTED : 12/16/14

REVIEWED BY:

PARAMETERS	MDL	SWSL	IRL1S	IRL1D	IRL2SA	IRL2DA	IRL3S	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.3	6.0			6.0	10/22/14	BF	4500HB-00
Antimony, ug/l	0.12	6.0	--- U	0.72 J			--- U	10/29/14	MEL	EPA200.8
Arsenic, ug/l	0.10	10.0	0.31 J	1.3 J			0.94 J	10/29/14	MEL	EPA200.8
Barium, ug/l	0.12	100.0	187	38.2 J			51.8 J	10/29/14	MEL	EPA200.8
Beryllium, ug/l	0.04	1.0	0.70 J	0.10 J			0.09 J	10/29/14	MEL	EPA200.8
Cadmium, ug/l	0.04	1.0	0.06 J	0.15 J			0.53 J	10/29/14	MEL	EPA200.8
Cobalt, ug/l	0.12	10.0	1.3 J	1.4 J			0.40 J	10/29/14	MEL	EPA200.8
Copper, ug/l	0.10	10.0	0.34 J	0.65 J			0.55 J	10/29/14	MEL	EPA200.8
Total Chromium, ug/l	0.14	10.0	1.2 J	1.8 J			2.2 J	10/29/14	MEL	EPA200.8
Lead, ug/l	0.13	10.0	1.3 J	1.3 J			1.5 J	10/29/14	MEL	EPA200.8
Nickel, ug/l	0.12	50.0	2.6 J	1.1 J			2.0 J	10/29/14	MEL	EPA200.8
Selenium, ug/l	0.16	10.0	0.92 J	0.82 J			1.9 J	10/29/14	MEL	EPA200.8
Silver, ug/l	0.04	10.0	--- U	--- U			--- U	10/29/14	MEL	EPA200.8
Thallium, ug/l	0.13	5.5	--- U	--- U			--- U	10/29/14	MEL	EPA200.8
Vanadium, ug/l	0.06	25.0	1.2 J	1.8 J			3.8 J	10/29/14	MEL	EPA200.8
Zinc, ug/l	0.53	10.0	3.8 J	6.4 J			6.2 J	10/29/14	MEL	EPA200.8
Turbidity, NTU	1.0	1.0	34	65			39	10/22/14	CMC	2130B-01
Conductivity (at 25c), uMhos/cm	1.0	1.0	164	208			795	10/22/14	BF	2510B-97
Temperature, °C			21	20			21	10/22/14	BF	2550B-00
Static Water Level, feet			5.64	10.97	7.30	12.05	8.77	10/22/14	BF	
Well Depth, feet			17.72	43.96	17.78	30.99	16.84	10/22/14	BF	

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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FAX (252) 756-0633

ID#: 6036

CRSWMA TUSCARORA REGIONAL LF (2504)
INTERIM REGIONAL LANDFILL
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 10/22/14
DATE REPORTED : 12/16/14

REVIEWED BY:

PARAMETERS	MDL	SWSL	IRL3D	IRL4S	IRL4D	IRL5S	IRL5D	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.7	4.8	6.8	6.2		10/22/14	BF	4500HB-00
Antimony, ug/l	0.12	6.0	--- U	--- U	0.36 J	--- U		10/29/14	MEL	EPA200.8
Arsenic, ug/l	0.10	10.0	--- U	2.0 J	--- U	1.5 J		10/29/14	MEL	EPA200.8
Barium, ug/l	0.12	100.0	46.5 J	82.8 J	42.2 J	117		10/29/14	MEL	EPA200.8
Beryllium, ug/l	0.04	1.0	0.11 J	0.58 J	0.12 J	--- U		10/29/14	MEL	EPA200.8
Cadmium, ug/l	0.04	1.0	0.07 J	0.33 J	0.18 J	--- U		10/29/14	MEL	EPA200.8
Cobalt, ug/l	0.12	10.0	0.24 J	2.9 J	0.26 J	0.76 J		10/29/14	MEL	EPA200.8
Copper, ug/l	0.10	10.0	--- U	1.2 J	0.42 J	0.45 J		10/29/14	MEL	EPA200.8
Total Chromium, ug/l	0.14	10.0	1.7 J	1.6 J	1.6 J	0.84 J		10/29/14	MEL	EPA200.8
Lead, ug/l	0.13	10.0	0.61 J	3.6 J	0.49 J	0.27 J		10/29/14	MEL	EPA200.8
Nickel, ug/l	0.12	50.0	1.1 J	3.6 J	1.3 J	5.5 J		10/29/14	MEL	EPA200.8
Selenium, ug/l	0.16	10.0	0.47 J	1.7 J	0.74 J	2.7 J		10/29/14	MEL	EPA200.8
Silver, ug/l	0.04	10.0	--- U	--- U	--- U	--- U		10/29/14	MEL	EPA200.8
Thallium, ug/l	0.13	5.5	--- U	--- U	--- U	--- U		10/29/14	MEL	EPA200.8
Vanadium, ug/l	0.06	25.0	1.4 J	5.1 J	1.3 J	1.4 J		10/29/14	MEL	EPA200.8
Zinc, ug/l	0.53	10.0	2.0 J	7.8 J	3.6 J	93		10/29/14	MEL	EPA200.8
Turbidity, NTU	1.0	1.0	100	320	55	150		10/22/14	CMC	2130B-01
Conductivity (at 25c), uMhos/cm	1.0	1.0	607	501	572	1507		10/22/14	BF	2510B-97
Temperature, °C			21	21	21	21		10/22/14	BF	2550B-00
Static Water Level, feet			11.16	8.01	10.51	8.67	10.33	10/22/14	BF	
Well Depth, feet			35.50	14.98	34.19	14.61	35.51	10/22/14	BF	

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

PHONE (252) 756-6208
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ID#: 6036

CRSWMA TUSCARORA REGIONAL LF (2504)
INTERIM REGIONAL LANDFILL
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 10/22/14
DATE REPORTED : 12/16/14

REVIEWED BY:

PARAMETERS	MDL	SWSL	MWA	MWB	Piezometer #1	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.0				10/22/14	BF	4500HB-00
Antimony, ug/l	0.12	6.0	--- U				10/29/14	MEL	EPA200.8
Arsenic, ug/l	0.10	10.0	5.6 J				10/29/14	MEL	EPA200.8
Barium, ug/l	0.12	100.0	44.2 J				10/29/14	MEL	EPA200.8
Beryllium, ug/l	0.04	1.0	0.20 J				10/29/14	MEL	EPA200.8
Cadmium, ug/l	0.04	1.0	--- U				10/29/14	MEL	EPA200.8
Cobalt, ug/l	0.12	10.0	0.36 J				10/29/14	MEL	EPA200.8
Copper, ug/l	0.10	10.0	0.31 J				10/29/14	MEL	EPA200.8
Total Chromium, ug/l	0.14	10.0	1.4 J				10/29/14	MEL	EPA200.8
Lead, ug/l	0.13	10.0	1.0 J				10/29/14	MEL	EPA200.8
Nickel, ug/l	0.12	50.0	0.70 J				10/29/14	MEL	EPA200.8
Selenium, ug/l	0.16	10.0	1.4 J				10/29/14	MEL	EPA200.8
Silver, ug/l	0.04	10.0	--- U				10/29/14	MEL	EPA200.8
Thallium, ug/l	0.13	5.5	--- U				10/29/14	MEL	EPA200.8
Vanadium, ug/l	0.06	25.0	2.1 J				10/29/14	MEL	EPA200.8
Zinc, ug/l	0.53	10.0	2.8 J				10/29/14	MEL	EPA200.8
Turbidity, NTU	1.0	1.0	95				10/22/14	CMC	2130B-01
Conductivity (at 25c), uMhos/cm	1.0	1.0	112				10/22/14	BF	2510B-97
Temperature, °C			21				10/22/14	BF	2550B-00
Static Water Level, feet			5.30	9.93	8.76		10/22/14	BF	
Well Depth, feet			20.46				10/22/14	BF	

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

PHONE (252) 756-6208
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CLIENT: CRSWMA TUSCARORA REGIONAL LF (2504)
INTERIM REGIONAL LANDFILL
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6036

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 11/03/14
DATE REPORTED: 12/16/14

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	IRL1S	IRL1D	IRL3S	IRL3D	IRL4S
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

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

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

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

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COVE CITY, NC 28523

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REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	IRL4D	IRL5S	MWA	Trip Blank
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U

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

Environment 1, Incorporated

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

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

CLIENT: CRSWMA TUSCARORA REGIONAL LF (2509)
INTERIM REGIONAL LANDFILL
Mr. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6036

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 11/03/14
DATE REPORTED: 12/15/14

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1 (96)
METHOD BLANK RESULTS

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

Environment 1, Incorporated

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

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

CLIENT: CRSWMA TUSCARORA REGIONAL LF (2509)
INTERIM REGIONAL LANDFILL
Mr. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6036

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 11/03/14
DATE REPORTED: 12/15/14

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1 (96)
SURROGATE RECOVERY RESULTS

Sample Name	Limits (% recovery)	1,2-DCA-d4 (% recovery)	Toluene-d8 (% recovery)	4-BFB (% recovery)
Continuing Calibration std.	70-130	94.1	102	99.0
Laboratory Control std.	70-130	96.2	101	98.9
Method Blank	70-130	97.5	102	95.8
IRL1S	70-130	97.9	102	97.6
IRL1D	70-130	98.9	103	97.6
IRL3S	70-130	98.8	102	98.0
IRL3D	70-130	99.2	102	97.2
IRL4S	70-130	99.6	103	96.8
IRL4D	70-130	99.5	102	97.5
IRL5S	70-130	99.3	102	98.1
MWA	70-130	98.8	101	98.4
Trip Blank	70-130	100	101	96.2
IRL1S M.S.	70-130	101	103	99.4
IRL1S M.S.D.	70-130	101	102	99.7

Environment 1, Incorporated

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

PHONE (252) 756-6208
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CLIENT: CRSWMA TUSCARORA REGIONAL LF (2509)
INTERIM REGIONAL LANDFILL
Mr. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6036

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 11/03/14
DATE REPORTED: 12/15/14

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1 (96)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Sample Spiked: IRL1S (6036)	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	25.21	126	26.91	135	6.5
Benzene	20.0	--- U	20.44	102	21.92	110	7.0
Trichloroethene	20.0	--- U	20.07	100	21.49	107	6.8
Toluene	20.0	--- U	18.83	94.2	20.38	102	7.9
Chlorobenzene	20.0	--- U	19.43	97.2	21.04	105	8.0

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	20.00	17.84	89.2
Benzene	20.00	14.67	73.4
Trichloroethene	20.00	14.75	73.8
Toluene	20.00	13.95	69.8
Chlorobenzene	20.00	14.40	72.0

NOTE: EPA METHOD 8260B R1 (96): High Spike Duplicate Recovery for 1,1-Dichloroethene. Spike Recovery and Relative % Difference are within limits for this compound. LCS Recovery for Toluene was low due to spiking error.

Environmental, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858
environmentlinc.com
Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6036 **Week:** 44

CRSWMA TUSCARORA REGIONAL LF (2504)
INTERIM REGIONAL LANDFILL
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY NC 28523

(252) 633-1564

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐

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

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

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
IRL1S	10-22-14	1150		21	6	G	G	G	G	G	G	G	G	G
IRL1D	10-22-14	1155		20	5	G	G	G	G	G	G	G	G	
IRL2SA	10-22-14	1157			1						G			
IRL2DA	10-22-14	1158			1						G			
IRL3S	10-22-14	0825		21	5	G	G	G	G	G	G	G	G	
IRL3D	10-22-14	0820		21	5	G	G	G	G	G	G	G	G	
IRL4S	10-22-14	0840		21	5	G	G	G	G	G	G	G	G	
IRL4D	10-22-14	0835		21	5	G	G	G	G	G	G	G	G	
IRL5S	10-22-14	0845		21	6	G	G	G	G	G	G	G	G	G
IRL5D	10-22-14	0846			1						G			
MWA	10-22-14	1200			5	G	G	G	G	G	G	G	G	

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

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

SAMPLES COLLECTED BY: (Please Print) Bobby / Tom

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bobby Tom	10-22-14 1340	[illegible]	10/22/14 1526
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

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

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

№ 286526

FORM #5

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858
environment1inc.com
Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6036 **Week:** 44

CRSWMA TUSCARORA REGIONAL LF (2504)
INTERIM REGIONAL LANDFILL
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY NC 28523

(252) 633-1564

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
CHLORINE NEUTRALIZED AT COLLECTION														
pH CHECK (LAB)												<2	<2	<2
CONTAINER TYPE, P/G						P	P	P	P	P		G	G	G
CHEMICAL PRESERVATION						A	A	A	A	A		E	E	E
MWB	10-22-14	1205			1						G			
Piezometer #1	10-22-14	1210			1						G			
Trip Blank	10-22-14				2							G	G	

PARAMETERS/TESTS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE/NAOH
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) Bobby / Tom

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
			10/22/14 1526
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

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

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

№ 286525

FORM #5

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#: 6044

CRSWMA TUSCARORA REGIONAL LF (2509)
PHASE 1 AND 2
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 10/22/14
DATE REPORTED : 12/16/14

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW7	MW8	MW10	MW11S	MW11D	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.2	4.9	5.0	5.2	6.7	10/22/14	BF	4500HB-00
Antimony, ug/l	0.12	6.0	--- U	--- U	0.33 J	--- U	0.81 J	10/31/14	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0	0.55 J	1.5 J	3.8 J	0.35 J	0.11 J	10/31/14	LFJ	EPA200.8
Barium, ug/l	0.12	100.0	36.6 J	124	60.6 J	28.5 J	42.3 J	10/31/14	LFJ	EPA200.8
Beryllium, ug/l	0.04	1.0	0.11 J	0.70 J	0.46 J	0.64 J	0.06 J	10/31/14	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	0.28 J	0.12 J	0.17 J	0.14 J	0.97 J	10/31/14	LFJ	EPA200.8
Cobalt, ug/l	0.12	10.0	0.33 J	0.94 J	1.5 J	1.0 J	--- U	10/31/14	LFJ	EPA200.8
Copper, ug/l	0.10	10.0	0.73 J	0.44 J	1.3 J	0.45 J	0.51 J	10/31/14	LFJ	EPA200.8
Total Chromium, ug/l	0.14	10.0	2.9 J	2.4 J	3.4 J	1.4 J	--- U	10/31/14	LFJ	EPA200.8
Lead, ug/l	0.13	10.0	1.7 J	2.4 J	2.6 J	1.2 J	--- U	10/31/14	LFJ	EPA200.8
Nickel, ug/l	0.12	50.0	3.5 J	1.5 J	2.2 J	2.8 J	1.2 J	10/31/14	LFJ	EPA200.8
Selenium, ug/l	0.16	10.0	0.33 J	--- U	0.50 J	0.36 J	--- U	10/31/14	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	--- U	--- U	--- U	--- U	--- U	10/31/14	LFJ	EPA200.8
Thallium, ug/l	0.13	5.5	--- U	--- U	--- U	--- U	--- U	10/31/14	LFJ	EPA200.8
Vanadium, ug/l	0.06	25.0	4.9 J	6.1 J	6.3 J	2.0 J	0.52 J	10/31/14	LFJ	EPA200.8
Zinc, ug/l	0.53	10.0	6.7 J	5.7 J	10	6.4 J	9.4 J	10/31/14	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	90	130	75	20	35	10/22/14	CMC	2130B-01
Conductivity (at 25c), uMhos/cm	1.0	1.0	389	93	153	477	477	10/22/14	BF	2510B-97
Temperature, °C			21	21	21	21	21	10/22/14	BF	2550B-00
Static Water Level, feet			4.95	5.89	5.26	7.34	8.14	10/22/14	BF	
Well Depth, feet			16.59	15.62	15.95	14.04	34.42	10/22/14	BF	

J = Between MDL and SWSL, U = Below ALL Quantitation 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#: 6044

CRSWMA TUSCARORA REGIONAL LF (2509)
PHASE 1 AND 2
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 10/22/14
DATE REPORTED : 12/16/14

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW12S	MW12D	MW13S	MW13D	MW14R	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.7	6.4	4.9	6.8	6.1	10/22/14	BF	4500HB-00
Antimony, ug/l	0.12	6.0	--- U	0.25 J	0.41 J	--- U	0.44 J	10/31/14	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0	--- U	1.4 J	0.49 J	0.28 J	3.4 J	10/31/14	LFJ	EPA200.8
Barium, ug/l	0.12	100.0	35.9 J	39.0 J	85.6 J	40.4 J	73.0 J	10/31/14	LFJ	EPA200.8
Beryllium, ug/l	0.04	1.0	0.26 J	0.08 J	0.43 J	--- U	0.04 J	10/31/14	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	0.41 J	0.16 J	0.56 J	0.06 J	0.25 J	10/31/14	LFJ	EPA200.8
Cobalt, ug/l	0.12	10.0	0.82 J	0.23 J	0.65 J	--- U	1.0 J	10/31/14	LFJ	EPA200.8
Copper, ug/l	0.10	10.0	0.36 J	0.45 J	0.36 J	0.24 J	0.35 J	10/31/14	LFJ	EPA200.8
Total Chromium, ug/l	0.14	10.0	0.47 J	1.2 J	0.72 J	--- U	0.70 J	10/31/14	LFJ	EPA200.8
Lead, ug/l	0.13	10.0	0.15 J	0.39 J	0.29 J	0.16 J	0.36 J	10/31/14	LFJ	EPA200.8
Nickel, ug/l	0.12	50.0	1.1 J	1.5 J	1.6 J	1.1 J	10.9 J	10/31/14	LFJ	EPA200.8
Selenium, ug/l	0.16	10.0	0.20 J	0.23 J	0.72 J	--- U	2.7 J	10/31/14	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	--- U	--- U	--- U	--- U	--- U	10/31/14	LFJ	EPA200.8
Thallium, ug/l	0.13	5.5	--- U	--- U	--- U	--- U	--- U	10/31/14	LFJ	EPA200.8
Vanadium, ug/l	0.06	25.0	0.67 J	1.6 J	1.0 J	0.78 J	0.99 J	10/31/14	LFJ	EPA200.8
Zinc, ug/l	0.53	10.0	7.7 J	2.7 J	7.4 J	1.5 J	6.4 J	10/31/14	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	14	55	16	60	160	10/22/14	CMC	2130B-01
Conductivity (at 25c), uMhos/cm	1.0	1.0	113	512	199	438	2690	10/22/14	BF	2510B-97
Temperature, °C			21	21	21	21	21	10/22/14	BF	2550B-00
Static Water Level, feet			7.65	11.00	3.10	7.58	3.44	10/22/14	BF	
Well Depth, feet			17.99	36.03	17.74	34.31	17.37	10/22/14	BF	

J = Between MDL and SWSL, U = Below ALL Quantitation 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 TUSCARORA REGIONAL LF (2509)
PHASE 1 AND 2
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6044

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/28/14
DATE REPORTED: 12/16/14

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW7	MW8	MW10	MW11S	MW11D
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation 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 TUSCARORA REGIONAL LF (2509)
PHASE 1 AND 2
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6044

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/28/14
DATE REPORTED: 12/16/14

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW12S	MW12D	MW13S	MW13D	MW14R
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation 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 TUSCARORA REGIONAL LF (2509)
PHASE 1 AND 2
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6044

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/28/14
DATE REPORTED: 12/16/14

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

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

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

Environment 1, Incorporated

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

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

CLIENT: CRSWMA TUSCARORA REGIONAL LF (2509)
PHASE 1 AND 2
Mr. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6044

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/28/14
DATE REPORTED: 12/15/14

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1 (96)
METHOD BLANK RESULTS

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

Environment 1, Incorporated

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

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

CLIENT: CRSWMA TUSCARORA REGIONAL LANDFILL (2509)
PHASE 1 AND 2
Mr. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6044

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/28/14
DATE REPORTED: 12/15/14

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1 (96)
SURROGATE RECOVERY RESULTS

Sample Name	Limits (% recovery)	1,2-DCA-d4 (% recovery)	Toluene-d8 (% recovery)	4-BFB (% recovery)
Continuing Calibration std.	70-130	99.5	101	100
Laboratory Control std.	70-130	101	101	99.3
Method Blank	70-130	100	99.8	97.1
MW7	70-130	96.4	99.1	97.0
MW8	70-130	99.1	99.8	96.9
MW10	70-130	101	102	97.8
MW11S	70-130	101	101	97.5
MW11D	70-130	101	100	98.1
MW12S	70-130	102	101	98.0
MW12D	70-130	102	100	96.8
MW13S	70-130	102	99.9	96.3
MW13D	70-130	101	100	96.6
MW14R	70-130	101	101	97.2
Trip Blank	70-130	101	101	96.6
MW7 M.S.	70-130	99.8	99.7	99.3
MW7 M.S.D.	70-130	99.7	100	101

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 TUSCARORA REGIONAL LF (2509)
PHASE 1 AND 2
Mr. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6044

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/28/14
DATE REPORTED: 12/15/14

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1 (96)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Sample Spiked: MW7 (6044)	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	13.13	65.7	12.70	63.5	3.3
Benzene	20.0	--- U	17.12	85.6	17.03	85.2	0.5
Trichloroethene	20.0	--- U	16.78	83.9	16.77	83.9	0.1
Toluene	20.0	--- U	17.60	88.0	17.82	89.1	1.2
Chlorobenzene	20.0	--- U	19.04	95.2	19.00	95.0	0.2

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	20.00	13.91	69.6
Benzene	20.00	18.13	90.7
Trichloroethene	20.00	19.00	95.0
Toluene	20.00	18.98	94.9
Chlorobenzene	20.00	20.53	103

NOTE: EPA METHOD 8260B R1 (96): Low Spike Recovery for 1,1-Dichloroethene due to standard degradation. Continuing Calibration Recovery for 1,1-Dichloroethene was within limits.

Environmental, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858
environmentalinc.com
Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6044 **Week:** 44

CRSWMA TUSCARORA REGIONAL LF (2509)
PHASE 1 AND 2
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY NC 28523

(252) 633-1564

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
CHLORINE NEUTRALIZED AT COLLECTION														
pH CHECK (LAB)							<2					<2	<2	<2
CONTAINER TYPE, P/G						P	P	P	P	P		G	G	G
CHEMICAL PRESERVATION						A	A	A	A	A		E	E	E
MW7	10-22-14	1040		21	6	G	G	G	G	G	G	G	G	G
MW8	10-22-14	1030		21	5	G	G	G	G	G	G	G	G	
MW10	10-22-14	0945		21	5	G	G	G	G	G	G	G	G	
MW11S	10-22-14	0905		21	5	G	G	G	G	G	G	G	G	
MW11D	10-22-14	0915		21	5	G	G	G	G	G	G	G	G	
MW12S	10-22-14	1015		21	5	G	G	G	G	G	G	G	G	
MW12D	10-22-14	1020		21	5	G	G	G	G	G	G	G	G	
MW13S	10-22-14	~~10~~ 0955		21	5	G	G	G	G	G	G	G	G	
MW13D	10-22-14	0950		21	5	G	G	G	G	G	G	G	G	
MW14R	10-22-14	1010			5	G	G	G	G	G	G	G	G	
Trip Blank					2							G	G	

PARAMETERS/TESTS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE/NAOH
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) Bobby / Tom

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bobby Tom	10-22-14 1340	[signature]	10/22/14 1560
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

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

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

FORM #5

№ 286522

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#: 6046

CRSWMA TUSCARORA REGIONAL LF (2509)
PHASE 3
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 10/23/14
DATE REPORTED : 12/16/14

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW7D	MW8D	MW15S	MW15D	MW16S	Analysis Date	Analyst	Method Code
PH (field measurement), Units					5.2	6.9	3.9	10/23/14	BF	4500HB-00
Antimony, ug/l	0.12	6.0			--- U	0.40 J	--- U	10/31/14	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0			1.3 J	0.40 J	1.1 J	10/31/14	LFJ	EPA200.8
Barium, ug/l	0.12	100.0			98.8 J	33.0 J	36.2 J	10/31/14	LFJ	EPA200.8
Beryllium, ug/l	0.04	1.0			5	--- U	7	10/31/14	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0			0.35 J	0.06 J	3	10/31/14	LFJ	EPA200.8
Cobalt, ug/l	0.12	10.0			27	0.20 J	2.2 J	10/31/14	LFJ	EPA200.8
Copper, ug/l	0.10	10.0			0.40 J	0.30 J	1.3 J	10/31/14	LFJ	EPA200.8
Total Chromium, ug/l	0.14	10.0			1.0 J	0.48 J	1.8 J	10/31/14	LFJ	EPA200.8
Lead, ug/l	0.13	10.0			0.36 J	0.23 J	4.7 J	10/31/14	LFJ	EPA200.8
Nickel, ug/l	0.12	50.0			27.6 J	1.2 J	4.2 J	10/31/14	LFJ	EPA200.8
Selenium, ug/l	0.16	10.0			0.86 J	0.97 J	8.8 J	10/31/14	LFJ	EPA200.8
Silver, ug/l	0.04	10.0			--- U	--- U	--- U	10/31/14	LFJ	EPA200.8
Thallium, ug/l	0.13	5.5			--- U	--- U	--- U	10/31/14	LFJ	EPA200.8
Vanadium, ug/l	0.06	25.0			1.1 J	0.87 J	4.7 J	10/31/14	LFJ	EPA200.8
Zinc, ug/l	0.53	10.0			41	4.6 J	17	10/31/14	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0			7.8	20.0	36.0	10/23/14	KKF	2130B-01
Conductivity (at 25c), uMhos/cm	1.0	1.0			740	424	1015	10/23/14	BF	2510B-97
Temperature, °C					20	20	21	10/23/14	BF	2550B-00
Static Water Level, feet			11.77	10.94	6.17	7.51	7.65	10/23/14	BF	
Well Depth, feet					17.95	37.65	15.02	10/23/14	BF	

J = Between MDL and SWSL, U = Below ALL Quantitation 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#: 6046

CRSWMA TUSCARORA REGIONAL LF (2509)
PHASE 3
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 10/23/14
DATE REPORTED : 12/16/14

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW16D	MW17S	MW17D	MW18S	MW18D	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.4	3.9	7.0	3.8	6.6	10/23/14	BF	4500HB-00
Antimony, ug/l	0.12	6.0	--- U	--- U	--- U	--- U	0.19 J	10/31/14	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0	0.26 J	0.72 J	0.49 J	1.5 J	1.4 J	10/31/14	LFJ	EPA200.8
Barium, ug/l	0.12	100.0	76.4 J	138	32.5 J	17.1 J	35.3 J	10/31/14	LFJ	EPA200.8
Beryllium, ug/l	0.04	1.0	0.05 J	4	0.05 J	7	0.13 J	10/31/14	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	0.07 J	0.39 J	0.06 J	1	0.05 J	10/31/14	LFJ	EPA200.8
Cobalt, ug/l	0.12	10.0	0.19 J	3.9 J	0.29 J	8.2 J	0.23 J	10/31/14	LFJ	EPA200.8
Copper, ug/l	0.10	10.0	0.24 J	0.90 J	0.25 J	1.5 J	0.48 J	10/31/14	LFJ	EPA200.8
Total Chromium, ug/l	0.14	10.0	0.58 J	4.9 J	0.70 J	2.1 J	1.5 J	10/31/14	LFJ	EPA200.8
Lead, ug/l	0.13	10.0	0.43 J	7.2 J	0.33 J	5.2 J	0.94 J	10/31/14	LFJ	EPA200.8
Nickel, ug/l	0.12	50.0	1.8 J	7.0 J	1.8 J	13.2 J	1.3 J	10/31/14	LFJ	EPA200.8
Selenium, ug/l	0.16	10.0	0.32 J	1.1 J	--- U	3.2 J	0.40 J	10/31/14	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	--- U	--- U	--- U	--- U	--- U	10/31/14	LFJ	EPA200.8
Thallium, ug/l	0.13	5.5	--- U	--- U	--- U	--- U	--- U	10/31/14	LFJ	EPA200.8
Vanadium, ug/l	0.06	25.0	0.69 J	11.2 J	0.95 J	3.0 J	1.9 J	10/31/14	LFJ	EPA200.8
Zinc, ug/l	0.53	10.0	2.6 J	14	3.1 J	30	3.5 J	10/31/14	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	21.0	120	8.4	7.6	16.0	10/23/14	KKF	2130B-01
Conductivity (at 25c), uMhos/cm	1.0	1.0	498	431	402	1264	473	10/23/14	BF	2510B-97
Temperature, °C			20	19	19	20	21	10/23/14	BF	2550B-00
Static Water Level, feet			7.61	5.82	6.78	4.93	7.30	10/23/14	BF	
Well Depth, feet			35.00	15.01	38.00	13.70	36.70	10/23/14	BF	

J = Between MDL and SWSL, U = Below ALL Quantitation 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#: 6046

CRSWMA TUSCARORA REGIONAL LF (2509)
PHASE 3
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 10/23/14
DATE REPORTED : 12/16/14

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW19S	MW19D	MW20D	MW21D	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.8	6.7			10/23/14	BF	4500HB-00
Antimony, ug/l	0.12	6.0	--- U				10/31/14	LFJ	EPA200.8
Antimony, ug/l	0.12	6.0		0.18 J			11/07/14	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0	0.24 J				10/31/14	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0		1.1 J			11/07/14	LFJ	EPA200.8
Barium, ug/l	0.12	100.0	36.2 J				10/31/14	LFJ	EPA200.8
Barium, ug/l	0.12	100.0		29.9 J			11/07/14	LFJ	EPA200.8
Beryllium, ug/l	0.04	1.0	0.08 J				10/31/14	LFJ	EPA200.8
Beryllium, ug/l	0.04	1.0		0.21 J			11/07/14	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	0.09 J				10/31/14	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0		0.10 J			11/07/14	LFJ	EPA200.8
Cobalt, ug/l	0.12	10.0	0.28 J				10/31/14	LFJ	EPA200.8
Cobalt, ug/l	0.12	10.0		0.70 J			11/07/14	LFJ	EPA200.8
Copper, ug/l	0.10	10.0	2.0 J				10/31/14	LFJ	EPA200.8
Copper, ug/l	0.10	10.0		0.38 J			11/07/14	LFJ	EPA200.8
Total Chromium, ug/l	0.14	10.0	1.9 J				10/31/14	LFJ	EPA200.8
Total Chromium, ug/l	0.14	10.0		0.76 J			11/07/14	LFJ	EPA200.8
Lead, ug/l	0.13	10.0	1.2 J				10/31/14	LFJ	EPA200.8
Lead, ug/l	0.13	10.0		0.39 J			11/07/14	LFJ	EPA200.8
Nickel, ug/l	0.12	50.0	0.82 J				10/31/14	LFJ	EPA200.8
Nickel, ug/l	0.12	50.0		2.5 J			11/07/14	LFJ	EPA200.8
Selenium, ug/l	0.16	10.0	0.34 J				10/31/14	LFJ	EPA200.8
Selenium, ug/l	0.16	10.0		--- U			11/07/14	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	--- U				10/31/14	LFJ	EPA200.8
Silver, ug/l	0.04	10.0		--- U			11/07/14	LFJ	EPA200.8
Thallium, ug/l	0.13	5.5	--- U				10/31/14	LFJ	EPA200.8
Thallium, ug/l	0.13	5.5		--- U			11/07/14	LFJ	EPA200.8
Vanadium, ug/l	0.06	25.0	2.3 J				10/31/14	LFJ	EPA200.8
Vanadium, ug/l	0.06	25.0		1.5 J			11/07/14	LFJ	EPA200.8
Zinc, ug/l	0.53	10.0	2.9 J				10/31/14	LFJ	EPA200.8
Zinc, ug/l	0.53	10.0		14			11/07/14	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	34.0	26.0			10/23/14	KKF	2130B-01
Conductivity (at 25c), uMhos/cm	1.0	1.0	89	391			10/23/14	BF	2510B-97
Temperature, °C			21	21			10/23/14	BF	2550B-00
Static Water Level, feet			5.91	8.21	10.0	10.14	10/23/14	BF	
Well Depth, feet			36.70	26.26			10/23/14	BF	

J = Between MDL and SWSL, U = Below ALL Quantitation 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 TUSCARORA REGIONAL LF (2509)
PHASE 3
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6046

ANALYST: MO
DATE COLLECTED: 10/23/14
DATE ANALYZED: 11/04/14
DATE REPORTED: 12/16/14

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW15S	MW15D	MW16S	MW16D	MW17S
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation 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 TUSCARORA REGIONAL LF (2509)
PHASE 3
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6046

ANALYST: MO
DATE COLLECTED: 10/23/14
DATE ANALYZED: 11/04/14
DATE REPORTED: 12/16/14

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW17D	MW18S	MW18D	MW19S	MW19D
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

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

Environment 1, Incorporated

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

PHONE (252) 756-6208
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CLIENT: CRSWMA TUSCARORA REGIONAL LF (2509)
PHASE 3
Mr. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6046

ANALYST: MO
DATE COLLECTED: 10/23/14
DATE ANALYZED: 11/04/14
DATE REPORTED: 12/15/14

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1 (96)
METHOD BLANK RESULTS

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

Environment 1, Incorporated

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

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

CLIENT: CRSWMA TUSCARORA REGIONAL LANDFILL (2509)
PHASE 3
Mr. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6046

ANALYST: MO
DATE COLLECTED: 10/23/14
DATE ANALYZED: 11/03/14
DATE REPORTED: 12/15/14

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1 (96)
SURROGATE RECOVERY RESULTS

Sample Name	Limits (% recovery)	1,2-DCA-d4 (% recovery)	Toluene-d8 (% recovery)	4-BFB (% recovery)
Continuing Calibration std.	70-130	97.7	103	100
Laboratory Control std.	70-130	98.0	103	100
Method Blank	70-130	100	103	98.5
MW15S	70-130	99.9	102	97.6
MW15D	70-130	101	103	97.5
MW16S	70-130	101	103	96.9
MW16D	70-130	99.3	102	97.3
MW17S	70-130	100	102	98.3
MW17D	70-130	101	102	97.4
MW18S	70-130	100	102	98.1
MW18D	70-130	100	103	98.0
MW19S	70-130	102	103	97.9
MW19D	70-130	101	103	96.7
MW15S M.S.	70-130	101	103	100
MW15S M.S.D.	70-130	101	103	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 TUSCARORA REGIONAL LF (2509)
PHASE 3
Mr. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6046

ANALYST: MO
DATE COLLECTED: 10/23/14
DATE ANALYZED: 11/04/14
DATE REPORTED: 12/15/14

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1 (96)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Sample Spiked: MW15S (6046)	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	25.51	128	24.44	122	4.3
Benzene	20.0	--- U	20.91	105	20.23	101	3.3
Trichloroethene	20.0	--- U	19.61	98.1	18.98	94.9	3.3
Toluene	20.0	--- U	18.65	93.3	18.23	91.2	2.3
Chlorobenzene	20.0	--- U	19.34	96.7	18.85	94.3	2.6

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	20.00	20.93	105
Benzene	20.00	16.93	84.7
Trichloroethene	20.00	16.53	82.7
Toluene	20.00	15.83	79.2
Chlorobenzene	20.00	16.41	82.1

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858
environment1inc.com
Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6046 **Week:** 44

CRSWMA TUSCARORA REGIONAL LF (2509)
PHASE 3
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY NC 28523

(252) 633-1564

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
CHLORINE NEUTRALIZED AT COLLECTION														
pH CHECK (LAB)							<2					<2	<2	<2
CONTAINER TYPE, P/G						P	P	P	P	P		G	G	G
CHEMICAL PRESERVATION						A	A	A	A	A		E	E	E
MW7D	10-23-14	1005			1						G			
MW8D	10-23-14	1010			1						G			
MW15S	10-23-14	0955		20	6	G	G	G	G	G	G	G	G	G
MW15D	10-23-14	0945		20	5	G	G	G	G	G	G	G	G	
MW16S	10-23-14	0935		21	5	G	G	G	G	G	G	G	G	
MW16D	10-23-14	0940		20	5	G	G	G	G	G	G	G	G	
MW17S	10-23-14	0930		19	5	G	G	G	G	G	G	G	G	
MW17D	10-23-14	0920		19	5	G	G	G	G	G	G	G	G	
MW18S	10-23-14	0855		20	5	G	G	G	G	G	G	G	G	
MW18D	10-23-14	0900		21	5	G	G	G	G	G	G	G	G	
MW19S	10-23-14	0915		21	5	G	G	G	G	G	G	G	G	

PARAMETERS/TESTS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE/NAOH
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)
Bobby / TOM

SAMPLES RECEIVED IN LAB AT 0.4 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Tom Beasley	10-23-14 1505	[signature]	10/23/14 1309
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

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

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

FORM #5

№ 286520

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858
environment1inc.com
Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6046 **Week:** 44

CRSWMA TUSCARORA REGIONAL LF (2509)
PHASE 3
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY NC 28523

(252) 633-1564

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
CHLORINE NEUTRALIZED AT COLLECTION														
pH CHECK (LAB)							<2					<2	<2	<2
CONTAINER TYPE, P/G						P	P	P	P	P		G	G	G
CHEMICAL PRESERVATION						A	A	A	A	A		E	E	E
MW19D	10-23-14	~~1015~~ 0910		21	5	G	G	G	G	G	G	G	G	
MW20D	10-23-14	1020			1						G			
MW21D	10-23-14	1015			1						G			

PARAMETERS/TESTS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE/NAOH
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)
Bobby / Tom

SAMPLES RECEIVED IN LAB AT 0.4 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Tom Beasley	10-23-14 1505	[illegible]	10/23/14 309
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

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

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

FORM #5

Nº 286519

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#: 6043

CRSWMA TUSCARORA REGIONAL LF (2509)
BLANKS
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 10/22/14
DATE REPORTED : 12/16/14

REVIEWED BY:

PARAMETERS	MDL	SWSL	Equipment Blank	Analysis Date	Analyst	Method Code
Antimony, ug/l	0.12	6.0	--- U	10/31/14	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0	--- U	10/31/14	LFJ	EPA200.8
Barium, ug/l	0.12	100.0	--- U	10/31/14	LFJ	EPA200.8
Beryllium, ug/l	0.04	1.0	--- U	10/31/14	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	--- U	10/31/14	LFJ	EPA200.8
Cobalt, ug/l	0.12	10.0	--- U	10/31/14	LFJ	EPA200.8
Copper, ug/l	0.10	10.0	--- U	10/31/14	LFJ	EPA200.8
Total Chromium, ug/l	0.14	10.0	--- U	10/31/14	LFJ	EPA200.8
Lead, ug/l	0.13	10.0	--- U	10/31/14	LFJ	EPA200.8
Nickel, ug/l	0.12	50.0	--- U	10/31/14	LFJ	EPA200.8
Selenium, ug/l	0.16	10.0	--- U	10/31/14	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	--- U	10/31/14	LFJ	EPA200.8
Thallium, ug/l	0.13	5.5	--- U	10/31/14	LFJ	EPA200.8
Vanadium, ug/l	0.06	25.0	0.18 J	10/31/14	LFJ	EPA200.8
Zinc, ug/l	0.53	10.0	--- U	10/31/14	LFJ	EPA200.8

J = Between MDL and SWSL, U = Below ALL Quantitation 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 TUSCARORA REGIONAL LF (2509)
BLANKS
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6043

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/29/14
DATE REPORTED: 12/16/14

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

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

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

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858
environment1inc.com
Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6043 **Week:** 44

CRSWMA TUSCARORA REGIONAL LF (2509)
BLANKS
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY NC 28523

(252) 633-1564

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

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB): <2 <2 <2

CONTAINER TYPE, P/G: P G G

CHEMICAL PRESERVATION: A E E

PARAMETERS/TESTS

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

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Metals	EPA 8260B	8260 Dup. 1
Equipment Blank	10-22-14	0815			3	G	G	G

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) Bobby / Tom

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bobby Tom	10-22-14 1340	[signature]	10/22/14 1520
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

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

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

FORM #5

№ 286523

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 TUSCARORA REGIONAL LF (2509)
LEACHATE STORAGE LAGOON
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 10/22/14
DATE REPORTED : 12/16/14

REVIEWED BY:

PARAMETERS	MDL	SWSL	LST1S	LST1D	LST2S	LST2D	LST3S	Analysis Date	Analyst	Method Code
PH (field measurement), Units			4.9	6.8	4.9		4.9	10/22/14	BF	4500HB-00
Antimony, ug/l	0.12	6.0	--- U	0.22 J	--- U		--- U	10/29/14	MEL	EPA200.8
Arsenic, ug/l	0.10	10.0	0.62 J	0.42 J	0.46 J		0.56 J	10/29/14	MEL	EPA200.8
Barium, ug/l	0.12	100.0	62.4 J	47.1 J	66.3 J		60.6 J	10/29/14	MEL	EPA200.8
Beryllium, ug/l	0.04	1.0	0.42 J	--- U	0.38 J		0.22 J	10/29/14	MEL	EPA200.8
Cadmium, ug/l	0.04	1.0	0.12 J	0.11 J	0.17 J		0.10 J	10/29/14	MEL	EPA200.8
Cobalt, ug/l	0.12	10.0	0.43 J	0.23 J	0.78 J		1.8 J	10/29/14	MEL	EPA200.8
Copper, ug/l	0.10	10.0	0.47 J	--- U	0.34 J		0.70 J	10/29/14	MEL	EPA200.8
Total Chromium, ug/l	0.14	10.0	1.8 J	0.52 J	0.87 J		4.6 J	10/29/14	MEL	EPA200.8
Lead, ug/l	0.13	10.0	2.6 J	0.26 J	1.4 J		4.1 J	10/29/14	MEL	EPA200.8
Nickel, ug/l	0.12	50.0	0.76 J	1.2 J	1.1 J		3.0 J	10/29/14	MEL	EPA200.8
Selenium, ug/l	0.16	10.0	1.5 J	1.4 J	1.1 J		0.63 J	10/29/14	MEL	EPA200.8
Silver, ug/l	0.04	10.0	--- U	--- U	--- U		--- U	10/29/14	MEL	EPA200.8
Thallium, ug/l	0.13	5.5	--- U	--- U	--- U		--- U	10/29/14	MEL	EPA200.8
Vanadium, ug/l	0.06	25.0	1.7 J	0.81 J	1.9 J		5.5 J	10/29/14	MEL	EPA200.8
Zinc, ug/l	0.53	10.0	3.8 J	3.9 J	5.1 J		19	10/29/14	MEL	EPA200.8
Turbidity, NTU	1.0	1.0	45	55	55		130	10/22/14	CMC	2130B-01
Conductivity (at 25c), uMhos/cm	1.0	1.0	94	511	115		72	10/22/14	BF	2510B-97
Temperature, °C			21	21	20		20	10/22/14	BF	2550B-00
Static Water Level, feet			4.81	11.49	5.01	11.37	6.13	10/22/14	BF	
Well Depth, feet			15.04	34.86	14.45	33.29	17.65	10/22/14	BF	

J = Between MDL and SWSL, U = Below ALL Quantitation 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 TUSCARORA REGIONAL LF (2509)
LEACHATE STORAGE LAGOON
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 10/22/14
DATE REPORTED : 12/16/14

REVIEWED BY:

PARAMETERS	MDL	SWSL	LST3D	LST4S	LST4D	LST5S	LST5D	Analysis Date	Analyst	Method Code
PH (field measurement), Units				4.4		6.5	6.7	10/22/14	BF	4500HB-00
Antimony, ug/l	0.12	6.0		--- U		1.2 J	--- U	10/29/14	MEL	EPA200.8
Arsenic, ug/l	0.10	10.0		1.1 J		1.6 J	0.72 J	10/29/14	MEL	EPA200.8
Barium, ug/l	0.12	100.0		82.8 J		33.7 J	66.6 J	10/29/14	MEL	EPA200.8
Beryllium, ug/l	0.04	1.0		0.49 J		0.08 J	0.24 J	10/29/14	MEL	EPA200.8
Cadmium, ug/l	0.04	1.0		0.26 J		0.22 J	0.20 J	10/29/14	MEL	EPA200.8
Cobalt, ug/l	0.12	10.0		2.4 J		0.21 J	0.44 J	10/29/14	MEL	EPA200.8
Copper, ug/l	0.10	10.0		0.73 J		1.0 J	0.40 J	10/29/14	MEL	EPA200.8
Total Chromium, ug/l	0.14	10.0		4.6 J		4.5 J	1.5 J	10/29/14	MEL	EPA200.8
Lead, ug/l	0.13	10.0		3.1 J		4.4 J	0.82 J	10/29/14	MEL	EPA200.8
Nickel, ug/l	0.12	50.0		3.5 J		1.7 J	1.7 J	10/29/14	MEL	EPA200.8
Selenium, ug/l	0.16	10.0		0.34 J		0.74 J	0.87 J	10/29/14	MEL	EPA200.8
Silver, ug/l	0.04	10.0		--- U		--- U	--- U	10/29/14	MEL	EPA200.8
Thallium, ug/l	0.13	5.5		--- U		--- U	--- U	10/29/14	MEL	EPA200.8
Vanadium, ug/l	0.06	25.0		5.0 J		8.0 J	1.1 J	10/29/14	MEL	EPA200.8
Zinc, ug/l	0.53	10.0		15		12	6.2 J	10/29/14	MEL	EPA200.8
Turbidity, NTU	1.0	1.0		130		120	80	10/22/14	CMC	2130B-01
Conductivity (at 25c), uMhos/cm	1.0	1.0		72		251	530	10/22/14	BF	2510B-97
Temperature, °C				20		22	20	10/22/14	BF	2550B-00
Static Water Level, feet			12.01	5.40	11.79	5.20	12.72	10/22/14	BF	
Well Depth, feet			34.85	12.62	36.12	15.41	38.66	10/22/14	BF	

J = Between MDL and SWSL, U = Below ALL Quantitation 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 TUSCARORA REGIONAL LF (2509)
LEACHATE STORAGE LAGOON
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 10/22/14
DATE REPORTED : 12/16/14

REVIEWED BY:

PARAMETERS	MDL	SWSL	LST6S	LST6D	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			5.1			10/22/14	BF	4500HB-00
Antimony, ug/l	0.12	6.0	--- U			10/29/14	MEL	EPA200.8
Arsenic, ug/l	0.10	10.0	0.22 J			10/29/14	MEL	EPA200.8
Barium, ug/l	0.12	100.0	54.7 J			10/29/14	MEL	EPA200.8
Beryllium, ug/l	0.04	1.0	0.17 J			10/29/14	MEL	EPA200.8
Cadmium, ug/l	0.04	1.0	--- U			10/29/14	MEL	EPA200.8
Cobalt, ug/l	0.12	10.0	0.31 J			10/29/14	MEL	EPA200.8
Copper, ug/l	0.10	10.0	0.21 J			10/29/14	MEL	EPA200.8
Total Chromium, ug/l	0.14	10.0	1.0 J			10/29/14	MEL	EPA200.8
Lead, ug/l	0.13	10.0	1.4 J			10/29/14	MEL	EPA200.8
Nickel, ug/l	0.12	50.0	0.47 J			10/29/14	MEL	EPA200.8
Selenium, ug/l	0.16	10.0	0.91 J			10/29/14	MEL	EPA200.8
Silver, ug/l	0.04	10.0	--- U			10/29/14	MEL	EPA200.8
Thallium, ug/l	0.13	5.5	--- U			10/29/14	MEL	EPA200.8
Vanadium, ug/l	0.06	25.0	1.2 J			10/29/14	MEL	EPA200.8
Zinc, ug/l	0.53	10.0	8.5 J			10/29/14	MEL	EPA200.8
Turbidity, NTU	1.0	1.0	180			10/22/14	CMC	2130B-01
Conductivity (at 25c), uMhos/cm	1.0	1.0	57			10/22/14	BF	2510B-97
Temperature, °C			21			10/22/14	BF	2550B-00
Static Water Level, feet			6.72	11.23		10/22/14	BF	
Well Depth, feet			16.44	34.37		10/22/14	BF	

J = Between MDL and SWSL, U = Below ALL Quantitation 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 TUSCARORA REGIONAL LF (2509)
LEACHATE STORAGE LAGOON
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/31/14
DATE REPORTED: 12/16/14

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	LST1S	LST1D	LST2S	LST3S	LST4S
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation 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 TUSCARORA REGIONAL LF (2509)
LEACHATE STORAGE LAGOON
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/31/14
DATE REPORTED: 12/16/14

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	LST5S	LST5D	LST6S	Trip Blank
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U

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

Environment 1, Incorporated

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

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

CLIENT: CRSWMA TUSCARORA REGIONAL LF (2509)
LEACHATE STORAGE LAGOON
Mr. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/31/14
DATE REPORTED: 12/15/14

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1 (96)
METHOD BLANK RESULTS

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

Environment 1, Incorporated

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

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LEACHATE STORAGE LAGOON
Mr. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6035

ANALYST: MO
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VOLATILE ORGANICS
EPA METHOD 8260B R1 (96)
SURROGATE RECOVERY RESULTS

Sample Name	Limits (% recovery)	1,2-DCA-d4 (% recovery)	Toluene-d8 (% recovery)	4-BFB (% recovery)
Continuing Calibration std.	70-130	94.0	101	98.5
Laboratory Control std.	70-130	96.0	102	100
Method Blank	70-130	97.7	102	97.3
LST1S	70-130	98.7	100	97.7
LST1D	70-130	98.5	102	98.0
LST2S	70-130	98.8	100	97.8
LST3S	70-130	100	102	97.8
LST4S	70-130	100	102	97.2
LST5S	70-130	101	101	97.7
LST5D	70-130	100	102	97.2
LST6S	70-130	99.4	102	98.4
Trip Blank	70-130	100	102	98.5
LST1S M.S.	70-130	98.1	101	100
LST1S M.S.D.	70-130	99.7	102	99.7

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LEACHATE STORAGE LAGOON
Mr. BOBBY DARDEN
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COVE CITY, NC 28523

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VOLATILE ORGANICS
EPA METHOD 8260B R1 (96)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Sample Spiked: LST1S (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	23.58	118	23.97	120	1.6
Benzene	20.0	--- U	19.83	99.2	20.34	102	2.5
Trichloroethene	20.0	--- U	18.94	94.7	19.08	95.4	0.7
Toluene	20.0	--- U	18.73	93.7	18.92	94.6	1.0
Chlorobenzene	20.0	--- U	19.32	96.6	19.47	97.4	0.8

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	20.00	20.58	103
Benzene	20.00	17.29	86.5
Trichloroethene	20.00	17.26	86.3
Toluene	20.00	16.43	82.2
Chlorobenzene	20.00	16.97	84.9

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858
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Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6035 **Week:** 44

CRSWMA TUSCARORA REGIONAL LF (2509)
LEACHATE STORAGE LAGOON
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY NC 28523

(252) 633-1564

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐

CHLORINE NEUTRALIZED AT COLLECTION																						
pH CHECK (LAB)			<2					<2	<2	<2	<2											
CONTAINER TYPE, P/G			P	P	P	P	P		G	G	G	G										
CHEMICAL PRESERVATION			A	A	A	A	A		E	E	E	E										
PARAMETERS/TESTS			Field pH	Metals	Turbidity	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2	8260 Dup. 3										
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS																	
LST1S	10-22-14	1140		21	7	G	G	G	G	G	G	G	G	G								
LST1D	10-22-14	1130		21	5	G	G	G	G	G	G	G	G									
LST2S	10-22-14	1125		20	5	G	G	G	G	G	G	G	G									
LST2D	10-22-14	1123			1						G											
LST3S	10-22-14	1105		20	5	G	G	G	G	G	G	G	G									
LST3D	10-22-14	1103			1						G											
LST4S	10-22-14	1055		20	5	G	G	G	G	G	G	G	G									
LST4D	10-22-14	1052			1						G											
LST5S	10-22-14	1015		22	5	G	G	G	G	G	G	G	G									
LST5D	10-22-14	1110		20	5	G	G	G	G	G	G	G	G									
LST6S	10-22-14	1050		21	6	G	G	G	G	G	G	G	G	G								

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

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

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: Y N

SAMPLES COLLECTED BY: (Please Print) Bobby / Tom

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bobby Fox	10-22-14 1340	[illegible]	10/22/14 156
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

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

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

№ 286528

FORM #5

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858
environment1inc.com
Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6035 **Week: 44**

CRSWMA TUSCARORA REGIONAL LF (2509)
LEACHATE STORAGE LAGOON
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY NC 28523

(252) 633-1564

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR µg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2	8260 Dup. 3
CHLORINE NEUTRALIZED AT COLLECTION															
pH CHECK (LAB)												<2	<2	<2	<2
CONTAINER TYPE, P/G						P	P	P	P	P		G	G	G	G
CHEMICAL PRESERVATION						A	A	A	A	A		E	E	E	E
LST6D	10-22-14	1052			1						G				
Trip Blank	10-22-14				3							G	G	G	

PARAMETERS/TESTS: A - NONE; B - HNO_3; C - H_2SO_4; D - NAOH; E - HCL; F - ZINC ACETATE/NAOH; 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) Bobby / Tomo

SAMPLES RECEIVED IN LAB AT 0-2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bobby Tomo	10-22-14 1340	[illegible]	10/22/14 1356
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

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

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

FORM #5

№ 286527

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#: 6039

CRSWMA TUSCARORA REGIONAL LF (2509)
SURFACE WATER
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 10/22/14
DATE REPORTED : 12/16/14

REVIEWED BY:

PARAMETERS	MDL	SWSL	SWPT1	SWPT2	UD1	UD2	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units			7.5	7.1	7.5	6.6		10/22/14	BF	4500HB-00
Antimony, ug/l	0.12	6.0	--- U	--- U	--- U	--- U		10/29/14	MEL	EPA200.8
Arsenic, ug/l	0.10	10.0	5.6 J	2.1 J	0.98 J	0.82 J		10/29/14	MEL	EPA200.8
Barium, ug/l	0.12	100.0	81.1 J	61.4 J	75.8 J	68.9 J		10/29/14	MEL	EPA200.8
Beryllium, ug/l	0.04	1.0	--- U	--- U	--- U	0.05 J		10/29/14	MEL	EPA200.8
Cadmium, ug/l	0.04	1.0	--- U	--- U	--- U	--- U		10/29/14	MEL	EPA200.8
Cobalt, ug/l	0.12	10.0	5.6 J	0.98 J	0.70 J	0.59 J		10/29/14	MEL	EPA200.8
Copper, ug/l	0.10	10.0	1.2 J	0.12 J	0.25 J	--- U		10/29/14	MEL	EPA200.8
Total Chromium, ug/l	0.14	10.0	4.0 J	0.74 J	0.74 J	0.39 J		10/29/14	MEL	EPA200.8
Lead, ug/l	0.13	10.0	0.25 J	--- U	0.31 J	--- U		10/29/14	MEL	EPA200.8
Nickel, ug/l	0.12	50.0	17.9 J	5.3 J	4.3 J	3.6 J		10/29/14	MEL	EPA200.8
Selenium, ug/l	0.16	10.0	7.3 J	1.5 J	2.1 J	2.4 J		10/29/14	MEL	EPA200.8
Silver, ug/l	0.04	10.0	--- U	--- U	--- U	--- U		10/29/14	MEL	EPA200.8
Thallium, ug/l	0.13	5.5	--- U	--- U	--- U	--- U		10/29/14	MEL	EPA200.8
Vanadium, ug/l	0.06	25.0	1.3 J	1.1 J	1.2 J	0.64 J		10/29/14	MEL	EPA200.8
Zinc, ug/l	0.53	10.0	56	1.9 J	5.1 J	0.98 J		10/29/14	MEL	EPA200.8
Turbidity, NTU	1.0	1.0	34	16	20	65		10/22/14	CMC	2130B-01
Conductivity (at 25c), uMhos/cm	1.0	1.0	2510	1055	951	1022		10/22/14	BF	2510B-97
Temperature, °C			18	17	16	18		10/22/14	BF	2550B-00

J = Between MDL and SWSL, U = Below ALL Quantitation 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 TUSCARORA REGIONAL LF (2509)
SURFACE WATER
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC, 28523

CLIENT ID: 6039

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/31/14
DATE REPORTED: 12/16/14

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	SWPT1	SWPT2	UD1	UD2	Trip Blank
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	0.90 J	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

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

Environment 1, Incorporated

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

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

CLIENT: CRSWMA TUSCARORA REGIONAL LF (2509)
SURFACE WATER
Mr. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6039

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/31/14
DATE REPORTED: 12/15/14

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1 (96)
METHOD BLANK RESULTS

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

Environment 1, Incorporated

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

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

CLIENT: CRSWMA TUSCARORA REGIONAL LF (2509)
SURFACE WATER
Mr. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6039

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/31/14
DATE REPORTED: 12/15/14

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1 (96)
SURROGATE RECOVERY RESULTS

Sample Name	Limits (% recovery)	1,2-DCA-d4 (% recovery)	Toluene-d8 (% recovery)	4-BFB (% recovery)
Continuing Calibration std.	70-130	94.0	101	98.5
Laboratory Control std.	70-130	96.0	102	100
Method Blank	70-130	97.7	102	97.3
SWPT1	70-130	101	101	98.7
SWPT2	70-130	101	101	98.5
UD1	70-130	101	102	96.2
UD2	70-130	101	101	97.4
Trip Blank	70-130	100	101	97.4
MW15S M.S.	70-130	98.1	101	100
MW15S M.S.D.	70-130	99.7	102	99.7

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 TUSCARORA REGIONAL LF (2509)
SURFACE WATER
Mr. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6039

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/31/14
DATE REPORTED: 12/15/14

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1 (96)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Sample Spiked: LST1S (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	23.58	118	23.97	120	1.6
Benzene	20.0	--- U	19.83	99.2	20.34	102	2.5
Trichloroethene	20.0	--- U	18.94	94.7	19.08	95.4	0.7
Toluene	20.0	--- U	18.73	93.7	18.92	94.6	1.0
Chlorobenzene	20.0	--- U	19.32	96.6	19.47	97.4	0.8

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	20.00	20.58	103
Benzene	20.00	17.29	86.5
Trichloroethene	20.00	17.26	86.3
Toluene	20.00	16.43	82.2
Chlorobenzene	20.00	16.97	84.9

Environment
P.O. Box 7085, 114 Oaknoll Dr.
Greenville, NC 27858
environmentl.inc.com
Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6039 **Week:** 44

CRSWMA TUSCARORA REGIONAL LF (2509)
SURFACE WATER
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY NC 28523

(252) 633-1564

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	EPA 8260B	8260 Dup. 1
CHLORINE NEUTRALIZED AT COLLECTION												
pH CHECK (LAB)							<2				<2	<2
CONTAINER TYPE, P/G						P	P	P	P	P	G	G
CHEMICAL PRESERVATION (PARAMETERS/TESTS)						A	A	A	A	A	E	E
SWPT1	10-22-14	1210		15	5	G	G	G	G	G	G	G
SWPT2	10-22-14	0910		17	5	G	G	G	G	G	G	G
UD1	10-22-14	0935		16	5	G	G	G	G	G	G	G
UD2	10-22-14	0920		15	5	G	G	G	G	G	G	G
Trip Blank					2						G	G

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE/NAOH
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) Bobby/Tom

SAMPLES RECEIVED IN LAB AT 0-2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bobby F	102214 1340	B	10/22/14 1560
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

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

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

FORM #5

№ 286524

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#: 6045

CRSWMA TUSCARORA REGIONAL LF (2509)
LEACHATE MANHOLE
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 10/22/14
DATE REPORTED : 12/16/14

REVIEWED BY:

PARAMETERS	MDL	SWSL	Leachate Manhole	Analysis Date	Analyst	Method Code
PH (field measurement), Units			7.2	10/22/14	BF	4500HB-00
Antimony, ug/l	0.12	6.0	2.0 J	10/31/14	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0	63	10/31/14	LFJ	EPA200.8
Barium, ug/l	0.12	100.0	1189	10/31/14	LFJ	EPA200.8
Beryllium, ug/l	0.04	1.0	0.18 J	10/31/14	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	7	10/31/14	LFJ	EPA200.8
Cobalt, ug/l	0.12	10.0	13	10/31/14	LFJ	EPA200.8
Copper, ug/l	0.10	10.0	5.3 J	10/31/14	LFJ	EPA200.8
Total Chromium, ug/l	0.14	10.0	35	10/31/14	LFJ	EPA200.8
Lead, ug/l	0.13	10.0	0.28 J	10/31/14	LFJ	EPA200.8
Nickel, ug/l	0.12	50.0	71	10/31/14	LFJ	EPA200.8
Selenium, ug/l	0.16	10.0	66	10/31/14	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	1.4 J	10/31/14	LFJ	EPA200.8
Thallium, ug/l	0.13	5.5	--- U	10/31/14	LFJ	EPA200.8
Vanadium, ug/l	0.06	25.0	10.5 J	10/31/14	LFJ	EPA200.8
Zinc, ug/l	0.53	10.0	4.5 J	10/31/14	LFJ	EPA200.8
Turbidity, NTU	1.0	1.0	10	10/22/14	CMC	2130B-01
Conductivity (at 25c), uMhos/cm	1.0	1.0	11230	10/22/14	BF	2510B-97
Temperature, °C			28	10/22/14	BF	2550B-00

J = Between MDL and SWSL, U = Below ALL Quantitation 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 TUSCARORA REGIONAL LF (2509)
LEACHATE MANHOLE
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6045

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/29/14
DATE REPORTED: 12/16/14

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	Leachate Manhole
1. Chloromethane	0.77	1.0	--- U
2. Vinyl Chloride	0.63	1.0	--- U
3. Bromomethane	0.67	10.0	--- U
4. Chloroethane	0.48	10.0	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U
7. Acetone	9.06	100.0	24.10 J
8. Iodomethane	0.26	10.0	--- U
9. Carbon Disulfide	0.23	100.0	--- U
10. Methylene Chloride	0.64	1.0	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U
13. Vinyl Acetate	0.20	50.0	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	1.00 J
15. 2-Butanone	2.21	100.0	--- U
16. Bromochloromethane	0.27	3.0	--- U
17. Chloroform	0.25	5.0	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U
20. Benzene	0.24	1.0	2.60
21. 1,2-Dichloroethane	0.27	1.0	--- U
22. Trichloroethene	0.23	1.0	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U
24. Bromodichloromethane	0.21	1.0	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U
27. Toluene	0.23	1.0	14.80
28. trans-1,3-Dichloropropene	0.28	1.0	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U
30. Tetrachloroethene	0.17	1.0	--- U
31. 2-Hexanone	1.57	50.0	--- U
32. Dibromochloromethane	0.24	3.0	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U
34. Chlorobenzene	0.30	3.0	0.70 J
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U
36. Ethylbenzene	0.21	1.0	41.20
37. Xylenes	0.68	5.0	22.40
38. Dibromomethane	0.28	10.0	--- U
39. Styrene	0.19	1.0	5.50
40. Bromoform	0.20	3.0	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	7.50
44. 1,2-Dichlorobenzene	0.32	5.0	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U
46. Acrylonitrile	2.72	200.0	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U

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

Environment 1, Incorporated

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

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

CLIENT: CRSWMA TUSCARORA REGIONAL LANDFILL (2509)
LEACHATE MANHOLE
Mr. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6045
ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/28/14-10/29/14
DATE REPORTED: 12/15/14

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1 (96)
SURROGATE RECOVERY RESULTS

Sample Name	Limits (% recovery)	1,2-DCA-d4 (% recovery)	Toluene-d8 (% recovery)	4-BFB (% recovery)
Continuing Calibration std.	70-130	99.5	101	100
Laboratory Control std.	70-130	101	101	99.3
Method Blank	70-130	100	99.8	97.1
Leachate Manhole	70-130	101	102	103
MW7 M.S.	70-130	99.8	99.7	99.3
MW7 M.S.D.	70-130	99.7	100	101

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 TUSCARORA REGIONAL LF (2509)
LEACHATE MANHOLE
Mr. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6045
ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/28/14-10/29/14
DATE REPORTED: 12/15/14

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1 (96)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Sample Spiked: MW7 (6044)	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	13.13	65.7	12.70	63.5	3.3
Benzene	20.0	--- U	17.12	85.6	17.03	85.2	0.5
Trichloroethene	20.0	--- U	16.78	83.9	16.77	83.9	0.1
Toluene	20.0	--- U	17.60	88.0	17.82	89.1	1.2
Chlorobenzene	20.0	--- U	19.04	95.2	19.00	95.0	0.2

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	20.00	13.91	69.6
Benzene	20.00	18.13	90.7
Trichloroethene	20.00	19.00	95.0
Toluene	20.00	18.98	94.9
Chlorobenzene	20.00	20.53	103

NOTE: EPA METHOD 8260B R1 (96): Low Spike Recovery for 1,1-Dichloroethene due to standard degradation. Continuing Calibration Recovery for 1,1-Dichloroethene was within limits.

Enviro___1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858
environmentline.com
Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6045 **Week:** 44

CRSWMA TUSCARORA REGIONAL LF (2509)
LEACHATE MANHOLE
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY NC 28523

(252) 633-1564

DISINFECTION: ☐ CHLORINE ☐ CV ☐ NONE ☐

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Turbidity	Conductivity	Temperature	EPA 8260B	8260 Dup. 1	8260 Dup. 2
CHLORINE NEUTRALIZED AT COLLECTION													
pH CHECK (LAB)							<2				<2	<2	<2
CONTAINER TYPE, P/G						P	P	P	P	P	G	G	G
CHEMICAL PRESERVATION						A	A	A	A	A	E	E	E
Leachate Manhole	10-22-14	0900		28	6	G	G	G	G	G	G	G	G

PARAMETERS/TESTS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE/NAOH
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) Bobby/Tom

SAMPLES RECEIVED IN LAB AT 02 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bobby Tom	10-22-14 1340	[signature]	10/22/14 1526
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

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

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

FORM #5

№ 286521

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#: 6043

CRSWMA TUSCARORA REGIONAL LF (2509)
BLANKS
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY ,NC 28523

DATE COLLECTED: 10/22/14
DATE REPORTED : 12/16/14

REVIEWED BY:

PARAMETERS	MDL	SWSL	Equipment Blank	Analysis Date	Analyst	Method Code
Antimony, ug/l	0.12	6.0	--- U	10/31/14	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0	--- U	10/31/14	LFJ	EPA200.8
Barium, ug/l	0.12	100.0	--- U	10/31/14	LFJ	EPA200.8
Beryllium, ug/l	0.04	1.0	--- U	10/31/14	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	--- U	10/31/14	LFJ	EPA200.8
Cobalt, ug/l	0.12	10.0	--- U	10/31/14	LFJ	EPA200.8
Copper, ug/l	0.10	10.0	--- U	10/31/14	LFJ	EPA200.8
Total Chromium, ug/l	0.14	10.0	--- U	10/31/14	LFJ	EPA200.8
Lead, ug/l	0.13	10.0	--- U	10/31/14	LFJ	EPA200.8
Nickel, ug/l	0.12	50.0	--- U	10/31/14	LFJ	EPA200.8
Selenium, ug/l	0.16	10.0	--- U	10/31/14	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	--- U	10/31/14	LFJ	EPA200.8
Thallium, ug/l	0.13	5.5	--- U	10/31/14	LFJ	EPA200.8
Vanadium, ug/l	0.06	25.0	0.18 J	10/31/14	LFJ	EPA200.8
Zinc, ug/l	0.53	10.0	--- U	10/31/14	LFJ	EPA200.8

J = Between MDL and SWSL, U = Below ALL Quantitation 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 TUSCARORA REGIONAL LF (2509)
BLANKS
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6043

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/29/14
DATE REPORTED: 12/16/14

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

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

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

Environment 1, Incorporated

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

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

CLIENT: CRSWMA TUSCARORA REGIONAL LF (2509)
BLANKS
Mr. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6043

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/28/14-10/29/14
DATE REPORTED: 12/15/14

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1 (96)
METHOD BLANK RESULTS

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

Environment 1, Incorporated

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

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

CLIENT: CRSWMA TUSCARORA REGIONAL LANDFILL (2509)
BLANKS
Mr. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6043

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/28/14-10/29/14
DATE REPORTED: 12/15/14

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1 (96)
SURROGATE RECOVERY RESULTS

Sample Name	Limits (% recovery)	1,2-DCA-d4 (% recovery)	Toluene-d8 (% recovery)	4-BFB (% recovery)
Continuing Calibration std.	70-130	99.5	101	100
Laboratory Control std.	70-130	101	101	99.3
Method Blank	70-130	100	99.8	97.1
Equipment Blank	70-130	101	101	96.8
MW7 M.S.	70-130	99.8	99.7	99.3
MW7 M.S.D.	70-130	99.7	100	101

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 TUSCARORA REGIONAL LF (2509)
BLANKS
Mr. BOBBY DARDEN
P.O. BOX 128
COVE CITY, NC 28523

CLIENT ID: 6043

ANALYST: MO
DATE COLLECTED: 10/22/14
DATE ANALYZED: 10/28/14-10/29/14
DATE REPORTED: 12/15/14

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1 (96)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Sample Spiked: MW7 (6044)	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	13.13	65.7	12.70	63.5	3.3
Benzene	20.0	--- U	17.12	85.6	17.03	85.2	0.5
Trichloroethene	20.0	--- U	16.78	83.9	16.77	83.9	0.1
Toluene	20.0	--- U	17.60	88.0	17.82	89.1	1.2
Chlorobenzene	20.0	--- U	19.04	95.2	19.00	95.0	0.2

LABORATORY CONTROL SAMPLE RESULTS

Sample Compound:	Spike Amount Ug/l	Spike Result Ug/l	Spike Recovery (70-130%)
1,1-Dichloroethene	20.00	13.91	69.6
Benzene	20.00	18.13	90.7
Trichloroethene	20.00	19.00	95.0
Toluene	20.00	18.98	94.9
Chlorobenzene	20.00	20.53	103

NOTE: EPA METHOD 8260B R1 (96): Low Spike Recovery for 1,1-Dichloroethene due to standard degradation. Continuing Calibration Recovery for 1,1-Dichloroethene was within limits.

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858
environment1inc.com
Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6043 **Week:** 44

CRSWMA TUSCARORA REGIONAL LF (2509)
BLANKS
MR. BOBBY DARDEN
P.O. BOX 128
COVE CITY NC 28523

(252) 633-1564

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

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB): <2 <2 <2

CONTAINER TYPE, P/G: P G G

CHEMICAL PRESERVATION: A E E

PARAMETERS/TESTS

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

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Metals	EPA 8260B	8260 Dup. 1
Equipment Blank	10-22-14	0815			3	G	G	G

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) Bobby / Tom

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bobby Tom	10-22-14 1340	[signature]	10/22/14 1520
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

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

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

FORM #5

№ 286523

Appendix B

Statistical Analysis Worksheets and Results Summary

APPENDIX B

SUMMARY OF STATISTICAL ANALYSES

Second Semiannual 2014 Groundwater Monitoring Results - CRSWMA Tuscarora Landfill

Constituent	NC 2L	GWPS	Data Distribution	Statistical Method used to Establish Background	Calculated Background Concentration	Sample Location	Sample Result in (µg/L)	SSI
Beryllium	-	4	N/A	Non-parametric Prediction Interval	25	MW-15S	5	NO
						MW-16S	7	NO
						MW-18S	7	NO
Cadmium	2	-	N/A	Non-parametric Prediction Interval	5	MW-16S	3	NO
Cobalt	-	1	N/A	Non-parametric Prediction Interval	258	MW-15S	27	NO

Notes:

1. Concentrations are in micrograms per liter (µg/L).
2. NC 2L = North Carolina 2L Groundwater Standard.
3. GWPS = Groundwater Protection Standard.
4. SSI = Statistically significant increase over background.
5. N/E = Not established.
5. N/A = Not applicable.

JOYCE Project: CRSWMA Tuscarora Regional Landfill
Project No: 618.1501.12
Task No: 01
Date: **23-Oct-14**

Analyte: **Beryllium**

Sample No.	Sample Date	Location	Concentration	Notes	Quantitation Limit	Sorted Concentration	
1	1-Jul-93	IRL-1S	3		1	0.06	25
2	1-Aug-93	IRL-1S	1		1	0.06	8
3	1-Sep-93	IRL-1S	1		1	0.08	6
4	1-Sep-93	IRL-1S	2		1	0.08	5
5	1-Apr-94	IRL-1S	ND		1	0.08	5
6	1-Oct-94	IRL-1S	ND		2	0.08	4
7	1-Apr-95	IRL-1S	ND		2	0.09	4
8	1-Oct-95	IRL-1S	ND		2	0.09	4
9	1-Apr-96	IRL-1S	ND		2	0.09	4
10	1-Oct-96	IRL-1S	ND		2	0.1	4
11	1-Apr-97	IRL-1S	3		2	0.1	4
12	1-Oct-97	IRL-1S	3		2	0.1	4
13	1-Apr-98	IRL-1S	ND		2	0.1	3
14	1-Oct-98	IRL-1S	2		2	0.1	3
15	1-Mar-99	IRL-1S	ND		2	0.1	3
16	1-Oct-99	IRL-1S	ND		2	0.1	3
17	1-Apr-00	IRL-1S	ND		2	0.1	3
18	1-Oct-00	IRL-1S	ND		2	0.1	3
19	1-Apr-14	IRL-1S	ND		2	0.1	3
20	1-Oct-14	IRL-1S	ND		2	0.1	3
21	2-Apr-14	IRL-1S	ND		2	0.1	3
22	2-Oct-14	IRL-1S	ND		2	0.1	3
23	3-Apr-14	IRL-1S	ND		2	0.12	3
24	3-Oct-14	IRL-1S	ND		2	0.12	2.04
25	15-Apr-04	IRL-1S	ND		2	0.12	2
26	14-Oct-04	IRL-1S	ND		2	0.14	2
27	5-Apr-05	IRL-1S	ND		2	0.15	2
28	5-Oct-05	IRL-1S	ND		2	0.15	2
29	21-Apr-06	IRL-1S	ND		2	0.16	2
30	12-Oct-06	IRL-1S	ND		2	0.17	2
31	26-Apr-07	IRL-1S	ND		1	0.18	2
32	10-Oct-07	IRL-1S	0.1	J	1	0.2	2
33	2-Apr-08	IRL-1S	0.4	J	1	0.2	2
34	28-Oct-08	IRL-1S	0.5	J	1	0.2	2
35	8-Apr-09	IRL-1S	0.6	J	1	0.2	2
36	27-Oct-09	IRL-1S	0.7	J	1	0.2	2
37	8-Apr-10	IRL-1S	0.6	J	1	0.2	2
38	13-Oct-10	IRL-1S	0.6	J	1	0.2	2
39	27-Apr-11	IRL-1S	0.59	J	1	0.21	2
40	20-Oct-11	IRL-1S	0.49	J	1	0.22	1
41	26-Apr-12	IRL-1S	0.58	J	1	0.22	1
42	16-Oct-12	IRL-1S	0.54	J	1	0.22	1
43	11-Apr-13	IRL-1S	0.7	J	1	0.22	1
44	30-Oct-13	IRL-1S	0.68	J	1	0.24	1
45	9-Apr-14	IRL-1S	0.63	J	1	0.25	1
46	22-Oct-14	IRL-1S	0.7	J	1	0.26	1
47	1-Jul-93	IRL-1D	1		1	0.27	1
48	1-Aug-93	IRL-1D	1		1	0.29	1
49	1-Sep-93	IRL-1D	ND		1	0.3	1
50	1-Sep-93	IRL-1D	3		1	0.3	1
51	1-Apr-94	IRL-1D	ND		1	0.3	1

52	1-Oct-94	IRL-1D	ND		2	0.36	1
53	1-Apr-95	IRL-1D	ND		2	0.4	0.9
54	1-Oct-95	IRL-1D	ND		2	0.4	0.7
55	1-Apr-96	IRL-1D	ND		2	0.4	0.7
56	5-Oct-05	IRL-1D	6		2	0.49	0.7
57	21-Apr-06	IRL-1D	ND		2	0.5	0.68
58	12-Oct-06	IRL-1D	ND		2	0.5	0.63
59	26-Apr-07	IRL-1D	ND		1	0.5	0.6
60	10-Oct-07	IRL-1D	ND		1	0.54	0.6
61	2-Apr-08	IRL-1D	0.1	J	1	0.58	0.6
62	28-Oct-08	IRL-1D	0.1	J	1	0.59	0.6
63	8-Apr-09	IRL-1D	0.1	J	1	0.6	0.6
64	27-Oct-09	IRL-1D	0.2	J	1	0.6	0.59
65	13-Oct-10	IRL-1D	0.3	J	1	0.6	0.58
66	27-Apr-11	IRL-1D	0.06	J	1	0.6	0.54
67	20-Oct-11	IRL-1D	0.15	J	1	0.6	0.5
68	26-Apr-12	IRL-1D	0.09	J	1	0.63	0.5
69	16-Oct-12	IRL-1D	0.08	J	1	0.68	0.5
70	11-Apr-13	IRL-1D	0.09	J	1	0.7	0.49
71	9-Apr-14	IRL-1D	0.08	J	1	0.7	0.4
72	22-Oct-14	IRL-1D	0.1	J	1	0.7	0.4
73	1-Jul-93	IRL-2S	ND		1	0.9	0.4
74	1-Aug-93	IRL-2S	ND		1	1	0.36
75	1-Sep-93	IRL-2S	ND		1	1	0.3
76	1-Sep-93	IRL-2S	ND		1	1	0.3
77	1-Jul-93	IRL-2D	ND		1	1	0.3
78	1-Aug-93	IRL-2D	1		1	1	0.29
79	1-Sep-93	IRL-2D	ND		1	1	0.27
80	1-Sep-93	IRL-2D	ND		1	1	0.26
81	1-Jul-93	IRL-3S	ND		1	1	0.25
82	1-Aug-93	IRL-3S	ND		1	1	0.24
83	1-Sep-93	IRL-3S	ND		1	1	0.22
84	1-Sep-93	IRL-3S	ND		1	1	0.22
85	1-Jul-93	IRL-3D	ND		1	1	0.22
86	1-Aug-93	IRL-3D	1		1	1	0.22
87	1-Sep-93	IRL-3D	ND		1	2	0.21
88	1-Sep-93	IRL-3D	2		1	2	0.2
89	1-Jul-93	IRL-4S	2		1	2	0.2
90	1-Aug-93	IRL-4S	ND		1	2	0.2
91	1-Sep-93	IRL-4S	ND		1	2	0.2
92	1-Sep-93	IRL-4S	ND		1	2	0.2
93	1-Jul-93	IRL-4D	ND		1	2	0.2
94	1-Aug-93	IRL-4D	1		1	2	0.2
95	1-Sep-93	IRL-4D	3		1	2	0.18
96	1-Sep-93	IRL-4D	ND		1	2	0.17
97	1-Jul-93	IRL-5S	ND		1	2	0.16
98	1-Aug-93	IRL-5S	ND		1	2	0.15
99	1-Sep-93	IRL-5S	ND		1	2	0.15
100	1-Sep-93	IRL-5S	ND		1	2	0.14
101	1-Jul-93	IRL-5D	8		1	2	0.12
102	1-Aug-93	IRL-5D	1		1	2.04	0.12
103	1-Sep-93	IRL-5D	ND		1	3	0.12
104	1-Sep-93	IRL-5D	1		1	3	0.1
105	1-Jul-93	IRL-6S	4		1	3	0.1
106	1-Aug-93	IRL-6S	ND		1	3	0.1
107	1-Sep-93	IRL-6S	ND		1	3	0.1
108	1-Sep-93	IRL-6S	ND		1	3	0.1
109	1-Jul-93	IRL-6D	ND		1	3	0.1
110	1-Aug-93	IRL-6D	ND		1	3	0.1

111	1-Sep-93	IRL-6D	ND		1	3	0.1
112	1-Sep-93	IRL-6D	ND		1	3	0.1
113	2-Apr-02	MW-12S	ND		2	3	0.1
114	1-Oct-02	MW-12S	ND		2	4	0.1
115	1-Apr-03	MW-12S	ND		2	4	0.1
116	1-Oct-03	MW-12S	ND		2	4	0.1
117	15-Apr-04	MW-12S	ND		2	4	0.09
118	14-Oct-04	MW-12S	ND		2	4	0.09
119	5-Apr-05	MW-12S	ND		2	4	0.09
120	27-Oct-05	MW-12S	ND		2	4	0.08
121	21-Apr-06	MW-12S	ND		2	5	0.08
122	12-Oct-06	MW-12S	ND		2	5	0.08
123	26-Apr-07	MW-12S	ND		1	6	0.08
124	11-Oct-07	MW-12S	0.1	J	1	8	0.06
125	3-Apr-08	MW-12S	0.3	J	1	25	0.06
126	28-Oct-08	MW-12S	0.9	J	1		
127	8-Apr-09	MW-12S	0.6	J	1		
128	27-Oct-09	MW-12S	0.5	J	1		
129	8-Apr-10	MW-12S	0.6	J	1		
130	13-Oct-10	MW-12S	0.5	J	1		
131	27-Apr-11	MW-12S	0.36	J	1		
132	20-Oct-11	MW-12S	0.4	J	1		
133	26-Apr-12	MW-12S	0.27	J	1		
134	16-Oct-12	MW-12S	0.22	J	1		
135	11-Apr-13	MW-12S	0.25	J	1		
136	30-Oct-13	MW-12S	0.21	J	1		
137	9-Apr-14	MW-12S	0.29	J	1		
138	22-Oct-14	MW-12S	0.26	J	1		
139	2-Apr-02	MW-12D	ND		2		
140	1-Oct-02	MW-12D	ND		2		
141	1-Apr-03	MW-12D	ND		2		
142	1-Oct-03	MW-12D	ND		2		
143	15-Apr-04	MW-12D	ND		2		
144	14-Oct-04	MW-12D	ND		2		
145	5-Apr-05	MW-12D	ND		2		
146	27-Oct-05	MW-12D	ND		2		
147	21-Apr-06	MW-12D	ND		2		
148	12-Oct-06	MW-12D	ND		2		
149	26-Apr-07	MW-12D	ND		1		
150	11-Oct-07	MW-12D	ND		1		
151	3-Apr-08	MW-12D	ND		1		
152	28-Oct-08	MW-12D	0.1	J	1		
153	8-Apr-09	MW-12D	0.1	J	1		
154	27-Oct-09	MW-12D	0.1	J	1		
155	13-Oct-10	MW-12D	0.1	J	1		
156	27-Apr-11	MW-12D	ND		1		
157	20-Oct-11	MW-12D	0.1	J	1		
158	26-Apr-12	MW-12D	0.06	J	1		
159	16-Oct-12	MW-12D	ND		1		
160	11-Apr-13	MW-12D	ND		1		
161	9-Apr-14	MW-12D	0.2	J	1		
162	22-Oct-14	MW-12D	0.08	J	1		
163	1-Jul-93	LST-5S	3		1		
164	1-Aug-93	LST-5S	2		1		
165	1-Sep-93	LST-5S	1		1		
166	1-Sep-93	LST-5S	2		1		
167	1-Apr-94	LST-5S	ND		1		
168	1-Oct-94	LST-5S	ND		2		
169	1-Apr-95	LST-5S	ND		2		

170	1-Oct-95	LST-5S	ND		2
171	1-Apr-96	LST-5S	ND		2
172	1-Oct-96	LST-5S	ND		2
173	1-Apr-97	LST-5S	ND		2
174	1-Oct-97	LST-5S	3		2
175	1-Apr-98	LST-5S	ND		2
176	1-Oct-98	LST-5S	ND		2
177	1-Mar-99	LST-5S	ND		2
178	1-Oct-99	LST-5S	ND		2
179	1-Apr-00	LST-5S	ND		2
180	1-Oct-00	LST-5S	ND		2
181	1-Apr-01	LST-5S	ND		2
182	1-Oct-01	LST-5S	ND		2
183	2-Apr-02	LST-5S	ND		2
184	3-Oct-02	LST-5S	ND		2
185	2-Apr-03	LST-5S	ND		2
186	1-Oct-03	LST-5S	ND		2
187	15-Apr-04	LST-5S	ND		2
188	14-Oct-04	LST-5S	ND		2
189	5-Apr-05	LST-5S	ND		2
190	27-Oct-05	LST-5S	ND		2
191	21-Apr-06	LST-5S	ND		2
192	12-Oct-06	LST-5S	ND		2
193	26-Apr-07	LST-5S	ND		1
194	10-Oct-07	LST-5S	ND		1
195	3-Apr-08	LST-5S	ND		1
196	28-Oct-08	LST-5S	0.1	J	1
197	8-Apr-09	LST-5S	0.2	J	1
198	27-Oct-09	LST-5S	0.2	J	1
199	13-Oct-10	LST-5S	0.1	J	1
200	27-Apr-11	LST-5S	0.15	J	1
201	20-Oct-11	LST-5S	0.22	J	1
202	26-Apr-12	LST-5S	0.17	J	1
203	16-Oct-12	LST-5S	ND		1
204	11-Apr-13	LST-5S	0.16	J	1
205	9-Apr-14	LST-5S	0.09	J	1
206	22-Oct-14	LST-5S	0.08	J	1
207	1-Jul-93	LST-1S	4		1
208	1-Aug-93	LST-1S	2		1
209	1-Sep-93	LST-1S	ND		1
210	1-Sep-93	LST-1S	3		1
211	1-Jul-93	LST-1D	ND		1
212	1-Aug-93	LST-1D	ND		1
213	1-Sep-93	LST-1D	ND		1
214	1-Sep-93	LST-1D	ND		1
215	1-Jul-93	LST-2S	2		1
216	1-Aug-93	LST-2S	2		1
217	1-Sep-93	LST-2S	2		1
218	1-Sep-93	LST-2S	ND		1
219	1-Jul-93	LST-2D	ND		1
220	1-Aug-93	LST-2D	ND		1
221	1-Sep-93	LST-2D	25		1
222	1-Sep-93	LST-2D	1		1
223	1-Jul-93	LST-3S	2		1
224	1-Aug-93	LST-3S	4		1
225	1-Sep-93	LST-3S	2		1
226	1-Sep-93	LST-3S	2		1
227	1-Jul-93	LST-3D	ND		1
228	1-Aug-93	LST-3D	ND		1

229	1-Sep-93	LST-3D	ND	1
230	1-Sep-93	LST-3D	1	1
231	1-Jul-93	LST-4S	4	1
232	1-Aug-93	LST-4S	3	1
233	1-Sep-93	LST-4S	4	1
234	1-Sep-93	LST-4S	4	1
235	1-Jul-93	LST-4D	3	1
236	1-Aug-93	LST-4D	ND	1
237	1-Sep-93	LST-4D	ND	1
238	1-Sep-93	LST-4D	ND	1
239	1-Jul-93	LST-5D	3	1
240	1-Aug-93	LST-5D	ND	1
241	1-Sep-93	LST-5D	ND	1
242	1-Sep-93	LST-5D	ND	1
243	1-Jul-93	LST-6S	ND	1
244	1-Aug-93	LST-6S	ND	1
245	1-Sep-93	LST-6S	ND	1
246	1-Sep-93	LST-6S	ND	1
247	1-Jul-93	LST-6D	4	1
248	1-Aug-93	LST-6D	2	1
249	1-Sep-93	LST-6D	ND	1
250	1-Sep-93	LST-6D	ND	1
251	1-Jul-99	MW-7	5	2
252	1-Aug-99	MW-7	ND	2
253	1-Oct-99	MW-7	ND	2
254	1-Nov-99	MW-7	ND	2
255	1-Jul-99	MW-8	ND	2
256	1-Aug-99	MW-8	ND	2
257	1-Oct-99	MW-8	ND	2
258	1-Nov-99	MW-8	ND	2
259	1-Jul-99	MW-9	ND	2
260	1-Aug-99	MW-9	ND	2
261	1-Oct-99	MW-9	ND	2
262	1-Nov-99	MW-9	ND	2
263	1-Jul-99	MW-10	ND	2
264	1-Aug-99	MW-10	ND	2
265	1-Oct-99	MW-10	ND	2
266	1-Nov-99	MW-10	ND	2
267	1-Jul-99	MW-11S	ND	2
268	1-Aug-99	MW-11S	ND	2
269	1-Oct-99	MW-11S	ND	2
270	1-Nov-99	MW-11S	ND	2
271	1-Jul-99	MW-11D	ND	2
272	1-Aug-99	MW-11D	ND	2
273	1-Oct-99	MW-11D	ND	2
274	1-Nov-99	MW-11D	ND	2
275	25-Aug-11	MW-16S	0.12	2
276	27-Sep-11	MW-16S	0.18	1
277	26-Oct-11	MW-16S	0.2	1
278	29-Nov-11	MW-16S	0.22	1
279	25-Aug-11	MW-16D	ND	2
280	27-Sep-11	MW-16D	ND	1
281	26-Oct-11	MW-16D	ND	1
282	29-Nov-11	MW-16D	ND	1
283	25-Aug-11	MW-17S	ND	2
284	27-Sep-11	MW-17S	ND	1
285	26-Oct-11	MW-17S	ND	1
286	29-Nov-11	MW-17S	0.22	1
287	25-Aug-11	MW-17D	ND	2

288	27-Sep-11	MW-17D	ND	1
289	26-Oct-11	MW-17D	ND	1
290	29-Nov-11	MW-17D	ND	1
291	25-Aug-11	MW-18S	0.24	2
292	27-Sep-11	MW-18S	0.2	1
293	26-Oct-11	MW-18S	2.04	1
294	29-Nov-11	MW-18S	0.3	1
295	25-Aug-11	MW-18D	ND	2
296	27-Sep-11	MW-18D	ND	1
297	26-Oct-11	MW-18D	ND	1
298	29-Nov-11	MW-18D	ND	1
299	25-Aug-11	MW-19S	ND	2
300	27-Sep-11	MW-19S	ND	1
301	26-Oct-11	MW-19S	ND	1
302	29-Nov-11	MW-19S	ND	1
303	25-Aug-11	MW-19D	0.14	2
304	27-Sep-11	MW-19D	ND	1
305	26-Oct-11	MW-19D	ND	1
306	29-Nov-11	MW-19D	ND	1
307	25-Aug-11	MW-15S	0.12	2
308	27-Sep-11	MW-15S	ND	1
309	26-Oct-11	MW-15S	0.12	1
310	29-Nov-11	MW-15S	0.2	1
311	25-Aug-11	MW-15D	ND	2
312	27-Sep-11	MW-15D	ND	1
313	26-Oct-11	MW-15D	ND	1
314	29-Nov-11	MW-15D	ND	1

Number of Data:	314
Number of Truncated Data:	193
Percentage of Truncated Data:	61%

Non Parametric Prediction Limit (NPPL): 25

- All concentrations in micrograms per liter (µg/L).
- B = Blank qualified data not used in statistical calculations.
- Background data included from MW-8, MW-10S, and P-19S.
- Background well MW-6.

JOYCE Project: CRSWMA Tuscarora Regional Landfill
Project No: 618.1501.12
Task No: 01
Date: **23-Oct-14**

Analyte: **Cadmium**

Sample No.	Sample Date	Location	Concentration	Notes	Quantitation Limit	Sorted Concentration	
1	1-Jul-93	IRL-1S	ND		1	0.04	5
2	1-Aug-93	IRL-1S	ND		1	0.06	5
3	1-Sep-93	IRL-1S	ND		1	0.06	4
4	1-Sep-93	IRL-1S	ND		1	0.06	2.54
5	1-Apr-94	IRL-1S	ND		1	0.07	2
6	1-Oct-94	IRL-1S	ND		1	0.07	2
7	1-Apr-95	IRL-1S	ND		1	0.08	1
8	1-Oct-95	IRL-1S	ND		1	0.08	1
9	1-Apr-96	IRL-1S	ND		1	0.09	1
10	1-Oct-96	IRL-1S	ND		1	0.09	1
11	1-Apr-97	IRL-1S	ND		1	0.1	1
12	1-Oct-97	IRL-1S	ND		1	0.1	1
13	1-Apr-98	IRL-1S	ND		1	0.1	0.97
14	1-Oct-98	IRL-1S	ND		1	0.1	0.9
15	1-Mar-99	IRL-1S	ND		1	0.1	0.8
16	1-Oct-99	IRL-1S	ND		1	0.1	0.7
17	1-Apr-00	IRL-1S	ND		1	0.1	0.7
18	1-Oct-00	IRL-1S	ND		1	0.1	0.58
19	1-Apr-14	IRL-1S	ND		1	0.1	0.52
20	1-Oct-14	IRL-1S	ND		1	0.11	0.46
21	2-Apr-14	IRL-1S	ND		1	0.12	0.46
22	2-Oct-14	IRL-1S	1		1	0.12	0.41
23	3-Apr-14	IRL-1S	ND		1	0.12	0.4
24	3-Oct-14	IRL-1S	ND		1	0.12	0.4
25	15-Apr-04	IRL-1S	ND		1	0.14	0.4
26	14-Oct-04	IRL-1S	ND		1	0.15	0.4
27	5-Apr-05	IRL-1S	ND		1	0.15	0.4
28	5-Oct-05	IRL-1S	ND		1	0.16	0.4
29	21-Apr-06	IRL-1S	ND		1	0.16	0.39
30	12-Oct-06	IRL-1S	ND		1	0.16	0.35
31	26-Apr-07	IRL-1S	ND		1	0.16	0.34
32	10-Oct-07	IRL-1S	0.3	B	1	0.17	0.3
33	2-Apr-08	IRL-1S	0.2	J	1	0.17	0.3
34	28-Oct-08	IRL-1S	0.3	J	1	0.18	0.3
35	8-Apr-09	IRL-1S	0.2	J	1	0.2	0.3
36	27-Oct-09	IRL-1S	0.4	J	1	0.2	0.28
37	8-Apr-10	IRL-1S	0.4	B	1	0.2	0.25
38	13-Oct-10	IRL-1S	0.7	J	1	0.2	0.24
39	27-Apr-11	IRL-1S	0.11	J	1	0.2	0.22
40	20-Oct-11	IRL-1S	0.07	J	1	0.2	0.2
41	26-Apr-12	IRL-1S	0.18	J	1	0.2	0.2
42	16-Oct-12	IRL-1S	0.2	J	1	0.2	0.2
43	11-Apr-13	IRL-1S	0.16	J	1	0.2	0.2
44	30-Oct-13	IRL-1S	0.97	J	1	0.2	0.2
45	9-Apr-14	IRL-1S	0.46	J	1	0.22	0.2
46	22-Oct-14	IRL-1S	0.06	J	1	0.24	0.2
47	1-Jul-93	IRL-1D	ND		1	0.25	0.2
48	1-Aug-93	IRL-1D	ND		1	0.28	0.2
49	1-Sep-93	IRL-1D	ND		1	0.3	0.2
50	1-Sep-93	IRL-1D	ND		1	0.3	0.18
51	1-Apr-94	IRL-1D	ND		1	0.3	0.17

52	1-Oct-94	IRL-1D	ND		1	0.3	0.17
53	1-Apr-95	IRL-1D	ND		1	0.34	0.16
54	1-Oct-95	IRL-1D	ND		1	0.35	0.16
55	1-Apr-96	IRL-1D	ND		1	0.39	0.16
56	5-Oct-05	IRL-1D	4		1	0.4	0.16
57	21-Apr-06	IRL-1D	ND		1	0.4	0.15
58	12-Oct-06	IRL-1D	ND		1	0.4	0.15
59	26-Apr-07	IRL-1D	ND		1	0.4	0.14
60	2-Apr-08	IRL-1D	0.4	J	1	0.4	0.12
61	28-Oct-08	IRL-1D	0.8	J	1	0.4	0.12
62	8-Apr-09	IRL-1D	0.1	J	1	0.41	0.12
63	27-Oct-09	IRL-1D	0.3	J	1	0.46	0.12
64	13-Oct-10	IRL-1D	0.3	J	1	0.46	0.11
65	27-Apr-11	IRL-1D	0.1	J	1	0.52	0.1
66	20-Oct-11	IRL-1D	0.15	J	1	0.58	0.1
67	26-Apr-12	IRL-1D	0.08	J	1	0.7	0.1
68	16-Oct-12	IRL-1D	0.25	J	1	0.7	0.1
69	11-Apr-13	IRL-1D	0.16	J	1	0.8	0.1
70	30-Oct-13	IRL-1D	0.12	J	1	0.9	0.1
71	9-Apr-14	IRL-1D	0.39	J	1	0.97	0.1
72	22-Oct-14	IRL-1D	0.15	J	1	1	0.1
73	1-Jul-93	IRL-2S	ND		1	1	0.1
74	1-Aug-93	IRL-2S	ND		1	1	0.09
75	1-Sep-93	IRL-2S	ND		1	1	0.09
76	1-Sep-93	IRL-2S	ND		1	1	0.08
77	1-Jul-93	IRL-2D	ND		1	1	0.08
78	1-Aug-93	IRL-2D	ND		1	2	0.07
79	1-Sep-93	IRL-2D	ND		1	2	0.07
80	1-Sep-93	IRL-2D	ND		1	2.54	0.06
81	1-Jul-93	IRL-3S	ND		1	4	0.06
82	1-Aug-93	IRL-3S	ND		1	5	0.06
83	1-Sep-93	IRL-3S	ND		1	5	0.04
84	1-Sep-93	IRL-3S	ND		1		
85	1-Jul-93	IRL-3D	ND		1		
86	1-Aug-93	IRL-3D	ND		1		
87	1-Sep-93	IRL-3D	ND		1		
88	1-Sep-93	IRL-3D	ND		1		
89	1-Jul-93	IRL-4S	ND		1		
90	1-Aug-93	IRL-4S	ND		1		
91	1-Sep-93	IRL-4S	ND		1		
92	1-Sep-93	IRL-4S	ND		1		
93	1-Jul-93	IRL-4D	ND		1		
94	1-Aug-93	IRL-4D	ND		1		
95	1-Sep-93	IRL-4D	ND		1		
96	1-Sep-93	IRL-4D	ND		1		
97	1-Jul-93	IRL-5S	ND		1		
98	1-Aug-93	IRL-5S	ND		1		
99	1-Sep-93	IRL-5S	ND		1		
100	1-Sep-93	IRL-5S	ND		1		
101	1-Jul-93	IRL-5D	ND		1		
102	1-Aug-93	IRL-5D	ND		1		
103	1-Sep-93	IRL-5D	ND		1		
104	1-Sep-93	IRL-5D	ND		1		
105	1-Jul-93	IRL-6S	ND		1		
106	1-Aug-93	IRL-6S	ND		1		
107	1-Sep-93	IRL-6S	ND		1		
108	1-Sep-93	IRL-6S	ND		1		
109	1-Jul-93	IRL-6D	ND		1		
110	1-Aug-93	IRL-6D	ND		1		

111	1-Sep-93	IRL-6D	ND		1
112	1-Sep-93	IRL-6D	ND		1
113	2-Apr-02	MW-12S	ND		1
114	1-Oct-02	MW-12S	ND		1
115	1-Apr-03	MW-12S	ND		1
116	1-Oct-03	MW-12S	ND		1
117	15-Apr-04	MW-12S	ND		1
118	14-Oct-04	MW-12S	ND		1
119	5-Apr-05	MW-12S	ND		1
120	27-Oct-05	MW-12S	ND		1
121	21-Apr-06	MW-12S	ND		1
122	12-Oct-06	MW-12S	ND		1
123	26-Apr-07	MW-12S	ND		1
124	3-Apr-08	MW-12S	0.4	J	1
125	28-Oct-08	MW-12S	0.2	J	1
126	8-Apr-09	MW-12S	0.2	J	1
127	27-Oct-09	MW-12S	0.4	J	1
128	8-Apr-10	MW-12S	0.9	J	1
129	13-Oct-10	MW-12S	1		1
130	27-Apr-11	MW-12S	0.2	J	1
131	20-Oct-11	MW-12S	0.46	J	1
132	26-Apr-12	MW-12S	0.1	J	1
133	16-Oct-12	MW-12S	0.12	J	1
134	11-Apr-13	MW-12S	0.1	J	1
135	30-Oct-13	MW-12S	0.08	J	1
136	9-Apr-14	MW-12S	0.1	J	1
137	22-Oct-14	MW-12S	0.41	J	1
138	2-Apr-02	MW-12D	ND		1
139	1-Oct-02	MW-12D	ND		1
140	1-Apr-03	MW-12D	ND		1
141	1-Oct-03	MW-12D	ND		1
142	15-Apr-04	MW-12D	2		1
143	14-Oct-04	MW-12D	ND		1
144	5-Apr-05	MW-12D	ND		1
145	27-Oct-05	MW-12D	ND		1
146	21-Apr-06	MW-12D	ND		1
147	12-Oct-06	MW-12D	ND		1
148	26-Apr-07	MW-12D	ND		1
149	3-Apr-08	MW-12D	0.1	J	1
150	28-Oct-08	MW-12D	0.2	J	1
151	8-Apr-09	MW-12D	0.2	J	1
152	27-Oct-09	MW-12D	0.2	J	1
153	27-Apr-11	MW-12D	0.2	J	1
154	27-Apr-11	MW-12D	0.09	J	1
155	20-Oct-11	MW-12D	ND		1
156	26-Apr-12	MW-12D	ND		1
157	16-Oct-12	MW-12D	0.09	J	1
158	11-Apr-13	MW-12D	0.07	J	1
159	30-Oct-13	MW-12D	0.52	J	1
160	9-Apr-14	MW-12D	0.34	J	1
161	22-Oct-14	MW-12D	0.16	J	1
162	1-Jul-93	LST-5S	ND		1
163	1-Aug-93	LST-5S	ND		1
164	1-Sep-93	LST-5S	ND		1
165	1-Sep-93	LST-5S	ND		1
166	1-Apr-94	LST-5S	ND		1
167	1-Oct-94	LST-5S	ND		1
168	1-Apr-95	LST-5S	ND		1
169	1-Oct-95	LST-5S	ND		1

170	1-Apr-96	LST-5S	ND		1
171	1-Oct-96	LST-5S	ND		1
172	1-Apr-97	LST-5S	ND		1
173	1-Oct-97	LST-5S	1		1
174	1-Apr-98	LST-5S	ND		1
175	1-Oct-98	LST-5S	ND		1
176	1-Mar-99	LST-5S	ND		1
177	1-Oct-99	LST-5S	ND		1
178	1-Apr-00	LST-5S	ND		1
179	1-Oct-00	LST-5S	ND		1
180	1-Apr-01	LST-5S	ND		1
181	1-Oct-01	LST-5S	ND		1
182	2-Apr-02	LST-5S	ND		1
183	3-Oct-02	LST-5S	2		1
184	2-Apr-03	LST-5S	ND		1
185	1-Oct-03	LST-5S	ND		1
186	15-Apr-04	LST-5S	ND		1
187	14-Oct-04	LST-5S	1		1
188	5-Apr-05	LST-5S	ND		1
189	27-Oct-05	LST-5S	ND		1
190	21-Apr-06	LST-5S	ND		1
191	12-Oct-06	LST-5S	ND		1
192	26-Apr-07	LST-5S	ND		1
193	3-Apr-08	LST-5S	0.1	J	1
194	28-Oct-08	LST-5S	0.1	J	1
195	8-Apr-09	LST-5S	0.1	J	1
196	27-Oct-09	LST-5S	0.7	J	1
197	13-Oct-10	LST-5S	0.4	J	1
198	27-Apr-11	LST-5S	0.12	J	1
199	20-Oct-11	LST-5S	0.04	J	1
200	26-Apr-12	LST-5S	0.12	J	1
201	16-Oct-12	LST-5S	0.17	J	1
202	11-Apr-13	LST-5S	0.24	J	1
203	30-Oct-13	LST-5S	0.28	J	1
204	9-Apr-14	LST-5S	0.58	J	1
205	22-Oct-14	LST-5S	0.22	J	1
206	1-Jul-93	LST-1S	ND		1
207	1-Aug-93	LST-1S	ND		1
208	1-Sep-93	LST-1S	ND		1
209	1-Sep-93	LST-1S	ND		1
210	1-Jul-93	LST-1D	ND		1
211	1-Aug-93	LST-1D	ND		1
212	1-Sep-93	LST-1D	ND		1
213	1-Sep-93	LST-1D	ND		1
214	1-Jul-93	LST-2S	ND		1
215	1-Aug-93	LST-2S	ND		1
216	1-Sep-93	LST-2S	ND		1
217	1-Sep-93	LST-2S	ND		1
218	1-Jul-93	LST-2D	ND		1
219	1-Aug-93	LST-2D	ND		1
220	1-Sep-93	LST-2D	5		1
221	1-Sep-93	LST-2D	5		1
222	1-Jul-93	LST-3S	ND		1
223	1-Aug-93	LST-3S	ND		1
224	1-Sep-93	LST-3S	ND		1
225	1-Sep-93	LST-3S	ND		1
226	1-Jul-93	LST-3D	ND		1
227	1-Aug-93	LST-3D	ND		1
228	1-Sep-93	LST-3D	ND		1

229	1-Sep-93	LST-3D	ND	1
230	1-Jul-93	LST-4S	ND	1
231	1-Aug-93	LST-4S	ND	1
232	1-Sep-93	LST-4S	ND	1
233	1-Sep-93	LST-4S	ND	1
234	1-Jul-93	LST-4D	ND	1
235	1-Aug-93	LST-4D	ND	1
236	1-Sep-93	LST-4D	ND	1
237	1-Sep-93	LST-4D	ND	1
238	1-Jul-93	LST-5D	ND	1
239	1-Aug-93	LST-5D	ND	1
240	1-Sep-93	LST-5D	ND	1
241	1-Sep-93	LST-5D	ND	1
242	1-Jul-93	LST-6S	1	1
243	1-Aug-93	LST-6S	ND	1
244	1-Sep-93	LST-6S	ND	1
245	1-Sep-93	LST-6S	ND	1
246	1-Jul-93	LST-6D	ND	1
247	1-Aug-93	LST-6D	ND	1
248	1-Sep-93	LST-6D	ND	1
249	1-Sep-93	LST-6D	ND	1
250	1-Jul-99	MW-7	1	1
251	1-Aug-99	MW-7	ND	1
252	1-Oct-99	MW-7	ND	1
253	1-Nov-99	MW-7	ND	1
254	1-Jul-99	MW-8	ND	1
255	1-Aug-99	MW-8	ND	1
256	1-Oct-99	MW-8	ND	1
257	1-Nov-99	MW-8	ND	1
258	1-Jul-99	MW-9	ND	1
259	1-Aug-99	MW-9	ND	1
260	1-Oct-99	MW-9	ND	1
261	1-Nov-99	MW-9	ND	1
262	1-Jul-99	MW-10	ND	1
263	1-Aug-99	MW-10	ND	1
264	1-Oct-99	MW-10	ND	1
265	1-Nov-99	MW-10	ND	1
266	1-Jul-99	MW-11S	ND	1
267	1-Aug-99	MW-11S	ND	1
268	1-Oct-99	MW-11S	ND	1
269	1-Nov-99	MW-11S	ND	1
270	1-Jul-99	MW-11D	ND	1
271	1-Aug-99	MW-11D	ND	1
272	1-Oct-99	MW-11D	ND	1
273	1-Nov-99	MW-11D	ND	1
274	25-Aug-11	MW-16S	ND	1
275	27-Sep-11	MW-16S	ND	1
276	26-Oct-11	MW-16S	ND	1
277	29-Nov-11	MW-16S	ND	1
278	25-Aug-11	MW-16D	ND	1
279	27-Sep-11	MW-16D	ND	1
280	26-Oct-11	MW-16D	ND	1
281	29-Nov-11	MW-16D	ND	1
282	25-Aug-11	MW-17S	ND	1
283	27-Sep-11	MW-17S	ND	1
284	26-Oct-11	MW-17S	ND	1
285	29-Nov-11	MW-17S	ND	1
286	25-Aug-11	MW-17D	ND	1
287	27-Sep-11	MW-17D	ND	1

288	26-Oct-11	MW-17D	ND		1
289	29-Nov-11	MW-17D	ND		1
290	25-Aug-11	MW-18S	ND		1
291	27-Sep-11	MW-18S	ND		1
292	26-Oct-11	MW-18S	ND		1
293	29-Nov-11	MW-18S	ND		1
294	25-Aug-11	MW-18D	ND		1
295	27-Sep-11	MW-18D	ND		1
296	26-Oct-11	MW-18D	ND		1
297	29-Nov-11	MW-18D	ND		1
298	25-Aug-11	MW-19S	ND		1
299	27-Sep-11	MW-19S	ND		1
300	26-Oct-11	MW-19S	ND		1
301	29-Nov-11	MW-19S	ND		1
302	25-Aug-11	MW-19D	ND		1
303	27-Sep-11	MW-19D	ND		1
304	26-Oct-11	MW-19D	ND		1
305	29-Nov-11	MW-19D	ND		1
306	25-Aug-11	MW-15S	2.54	J	1
307	27-Sep-11	MW-15S	ND		1
308	26-Oct-11	MW-15S	ND		1
309	29-Nov-11	MW-15S	ND		1
310	25-Aug-11	MW-15D	ND		1
311	27-Sep-11	MW-15D	ND		1
312	26-Oct-11	MW-15D	ND		1
313	29-Nov-11	MW-15D	ND		1

Number of Data:	313
Number of Truncated Data:	236
Percentage of Truncated Data:	75%

Non Parametric Prediction Limit (NPPL): 5

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

JOYCE Project: CRSWMA Tuscarora Regional Landfill
Project No: 618.1501.12.
Task No: 01
Date: **23-Oct-14**

Analyte: **Cobalt**

Sample No.	Sample Date	Location	Concentration	Notes	Quantitation Limit	Sorted Concentration	
1	1-Jul-93	IRL-1S	32		1	0.1	258
2	1-Aug-93	IRL-1S	26		1	0.1	205
3	1-Sep-93	IRL-1S	22		1	0.14	188
4	1-Sep-93	IRL-1S	ND		1	0.18	186
5	1-Apr-94	IRL-1S	27	**B**	1	0.19	118
6	1-Oct-94	IRL-1S	ND		1	0.19	117
7	1-Apr-95	IRL-1S	ND		1	0.2	93
8	1-Oct-95	IRL-1S	ND		1	0.2	83
9	1-Apr-96	IRL-1S	ND		1	0.2	71
10	1-Oct-96	IRL-1S	ND		1	0.2	62
11	1-Apr-97	IRL-1S	ND		1	0.2	61
12	1-Oct-97	IRL-1S	20		1	0.21	53
13	1-Apr-98	IRL-1S	ND		1	0.21	52
14	1-Oct-98	IRL-1S	ND		1	0.23	50
15	1-Mar-99	IRL-1S	ND		1	0.23	45
16	1-Oct-99	IRL-1S	ND		1	0.24	42
17	1-Apr-00	IRL-1S	16		1	0.27	41
18	1-Oct-00	IRL-1S	ND		1	0.3	40
19	1-Apr-14	IRL-1S	ND		1	0.31	38
20	1-Oct-14	IRL-1S	ND		1	0.33	37
21	2-Apr-14	IRL-1S	ND		1	0.37	36.0
22	2-Oct-14	IRL-1S	ND		1	0.39	36
23	3-Apr-14	IRL-1S	ND		1	0.4	35.4
24	3-Oct-14	IRL-1S	ND		1	0.4	33
25	15-Apr-04	IRL-1S	ND		1	0.4	32
26	14-Oct-04	IRL-1S	ND		1	0.4	32
27	5-Apr-05	IRL-1S	ND		1	0.40	32
28	5-Oct-05	IRL-1S	ND		1	0.41	31
29	21-Apr-06	IRL-1S	ND		1	0.41	31
30	12-Oct-06	IRL-1S	ND		1	0.43	30
31	26-Apr-07	IRL-1S	ND		1	0.45	29
32	10-Oct-07	IRL-1S	0.6	J	1	0.45	29
33	2-Apr-08	IRL-1S	0.9	J	1	0.46	28
34	28-Oct-08	IRL-1S	1.1	J	1	0.46	28
35	8-Apr-09	IRL-1S	1.3	J	1	0.5	27
36	27-Oct-09	IRL-1S	1.2	J	1	0.5	27
37	8-Apr-10	IRL-1S	1.3	J	1	0.5	27
38	13-Oct-10	IRL-1S	1	J	1	0.5	26
39	27-Apr-11	IRL-1S	1.3	J	1	0.6	26.0
40	20-Oct-11	IRL-1S	0.86	J	1	0.68	25
41	26-Apr-12	IRL-1S	1	J	1	0.7	25
42	16-Oct-12	IRL-1S	0.93	J	1	0.71	25
43	11-Apr-13	IRL-1S	1.3	J	1	0.8	24
44	30-Oct-13	IRL-1S	1.1	J	1	0.82	24
45	9-Apr-14	IRL-1S	1.3	J	1	0.86	24
46	22-Oct-14	IRL-1S	1.3	J	1	0.87	23
47	1-Jul-93	IRL-1D	41		1	0.9	23
48	1-Aug-93	IRL-1D	27		1	0.9	23
49	1-Sep-93	IRL-1D	21.0		1	0.93	22
50	1-Sep-93	IRL-1D	ND		1	1	22
51	1-Apr-94	IRL-1D	22.0	**B**	1	1	22

52	1-Oct-94	IRL-1D	ND		1	1	21.0
53	1-Apr-95	IRL-1D	ND		1	1	21
54	1-Oct-95	IRL-1D	ND		1	1.1	21
55	1-Apr-96	IRL-1D	ND		1	1.1	21
56	5-Oct-05	IRL-1D	ND		1	1.1	21
57	21-Apr-06	IRL-1D	ND		1	1.1	20
58	12-Oct-06	IRL-1D	ND		1	1.2	20
59	26-Apr-07	IRL-1D	ND		1	1.3	16
60	10-Oct-07	IRL-1D	ND		1	1.3	13
61	2-Apr-08	IRL-1D	0.1	J	1	1.3	12.1
62	28-Oct-08	IRL-1D	0.5	J	1	1.3	4.72
63	8-Apr-09	IRL-1D	0.8	J	1	1.3	4.6
64	27-Oct-09	IRL-1D	0.5	J	1	1.3	2.8
65	8-Apr-10	IRL-1D	0.9	J	1	1.3	2.3
66	13-Oct-10	IRL-1D	0.7	J	1	1.4	2
67	27-Apr-11	IRL-1D	0.24	J	1	1.4	1.8
68	20-Oct-11	IRL-1D	0.46	J	1	1.5	1.6
69	26-Apr-12	IRL-1D	0.41	J	1	1.6	1.5
70	16-Oct-12	IRL-1D	0.46	J	1	1.8	1.4
71	11-Apr-13	IRL-1D	0.33	J	1	2	1.4
72	30-Oct-13	IRL-1D	0.37	J	1	2.3	1.3
73	9-Apr-14	IRL-1D	0.4	J	1	2.8	1.3
74	22-Oct-14	IRL-1D	1.4	J	1	4.6	1.3
75	1-Jul-93	IRL-2S	27		1	4.72	1.3
76	1-Aug-93	IRL-2S	23		1	12.1	1.3
77	1-Sep-93	IRL-2S	ND		1	13	1.3
78	1-Sep-93	IRL-2S	ND		1	16	1.3
79	1-Jul-93	IRL-2D	20		1	20	1.2
80	1-Aug-93	IRL-2D	40		1	20	1.1
81	1-Sep-93	IRL-2D	21		1	21.0	1.1
82	1-Sep-93	IRL-2D	22		1	21	1.1
83	1-Jul-93	IRL-3S	21		1	21	1.1
84	1-Aug-93	IRL-3S	37		1	21	1
85	1-Sep-93	IRL-3S	23		1	21	1
86	1-Sep-93	IRL-3S	ND		1	22	1
87	1-Jul-93	IRL-3D	31		1	22	1
88	1-Aug-93	IRL-3D	32		1	22	0.93
89	1-Sep-93	IRL-3D	25		1	23	0.9
90	1-Sep-93	IRL-3D	ND		1	23	0.9
91	1-Jul-93	IRL-4S	ND		1	23	0.87
92	1-Aug-93	IRL-4S	27		1	24	0.86
93	1-Sep-93	IRL-4S	ND		1	24	0.82
94	1-Sep-93	IRL-4S	31		1	24	0.8
95	1-Jul-93	IRL-4D	93		1	25	0.71
96	1-Aug-93	IRL-4D	33		1	25	0.7
97	1-Sep-93	IRL-4D	38		1	25	0.68
98	1-Sep-93	IRL-4D	53		1	26	0.6
99	1-Jul-93	IRL-5S	29		1	26.0	0.5
100	1-Aug-93	IRL-5S	50		1	27	0.5
101	1-Sep-93	IRL-5S	36.0		1	27	0.5
102	1-Sep-93	IRL-5S	26.0		1	27	0.5
103	1-Jul-93	IRL-5D	118		1	28	0.46
104	1-Aug-93	IRL-5D	30		1	28	0.46
105	1-Sep-93	IRL-5D	32		1	29	0.45
106	1-Sep-93	IRL-5D	21		1	29	0.45
107	1-Jul-93	IRL-6S	45		1	30	0.43
108	1-Aug-93	IRL-6S	22		1	31	0.41
109	1-Sep-93	IRL-6S	ND		1	31	0.41
110	1-Sep-93	IRL-6S	ND		1	32	0.4

111	1-Jul-93	IRL-6D	23		1	32	0.4
112	1-Aug-93	IRL-6D	25		1	32	0.4
113	1-Sep-93	IRL-6D	ND		1	33	0.4
114	1-Sep-93	IRL-6D	ND		1	35.4	0.40
115	2-Apr-02	MW-12S	ND		1	36.0	0.39
116	1-Oct-02	MW-12S	ND		1	36	0.37
117	1-Apr-03	MW-12S	ND		1	37	0.33
118	1-Oct-03	MW-12S	ND		1	38	0.31
119	15-Apr-04	MW-12S	ND		1	40	0.3
120	14-Oct-04	MW-12S	ND		1	41	0.27
121	5-Apr-05	MW-12S	ND		1	42	0.24
122	27-Oct-05	MW-12S	ND		1	45	0.23
123	21-Apr-06	MW-12S	ND		1	50	0.23
124	12-Oct-06	MW-12S	ND		1	52	0.21
125	26-Apr-07	MW-12S	ND		1	53	0.21
126	11-Oct-07	MW-12S	1.4	J	1	61	0.2
127	3-Apr-08	MW-12S	4.6	J	1	62	0.2
128	28-Oct-08	MW-12S	2.8	J	1	71	0.2
129	8-Apr-09	MW-12S	2.3	J	1	83	0.2
130	27-Oct-09	MW-12S	1.6	J	1	93	0.2
131	8-Apr-10	MW-12S	1.8	J	1	117	0.19
132	13-Oct-10	MW-12S	1.5	J	1	118	0.19
133	27-Apr-11	MW-12S	1.3	J	1	186	0.18
134	20-Oct-11	MW-12S	1.1	J	1	188	0.14
135	26-Apr-12	MW-12S	1	J	1	205	0.1
136	16-Oct-12	MW-12S	1.1	J	1	258	0.1
137	11-Apr-13	MW-12S	0.68	J	1		
138	30-Oct-13	MW-12S	0.87	J	1		
139	9-Apr-14	MW-12S	0.71	J	1		
140	22-Oct-14	MW-12S	0.82	J	1		
141	2-Apr-02	MW-12D	ND		1		
142	1-Oct-02	MW-12D	ND		1		
143	1-Apr-03	MW-12D	ND		1		
144	1-Oct-03	MW-12D	ND		1		
145	15-Apr-04	MW-12D	ND		1		
146	14-Oct-04	MW-12D	ND		1		
147	5-Apr-05	MW-12D	ND		1		
148	27-Oct-05	MW-12D	ND		1		
149	21-Apr-06	MW-12D	ND		1		
150	12-Oct-06	MW-12D	ND		1		
151	26-Apr-07	MW-12D	ND		1		
152	11-Oct-07	MW-12D	ND		1		
153	3-Apr-08	MW-12D	0.1	J	1		
154	28-Oct-08	MW-12D	0.2	J	1		
155	8-Apr-09	MW-12D	0.2	J	1		
156	27-Oct-09	MW-12D	0.2	J	1		
157	8-Apr-10	MW-12D	0.2	J	1		
158	13-Oct-10	MW-12D	0.2	J	1		
159	27-Apr-11	MW-12D	0.14	J	1		
160	20-Oct-11	MW-12D	0.19	J	1		
161	26-Apr-12	MW-12D	0.21	J	1		
162	16-Oct-12	MW-12D	0.19	J	1		
163	11-Apr-13	MW-12D	0.18	J	1		
164	30-Oct-13	MW-12D	0.31	J	1		
165	9-Apr-14	MW-12D	0.45	J	1		
166	22-Oct-14	MW-12D	0.23	J	1		
167	1-Jul-93	LST-5S	29		1		
168	1-Aug-93	LST-5S	ND		1		
169	1-Sep-93	LST-5S	ND		1		

170	1-Sep-93	LST-5S	ND		1
171	1-Apr-94	LST-5S	19	**B**	1
172	1-Oct-94	LST-5S	ND		1
173	1-Apr-95	LST-5S	ND		1
174	1-Oct-95	LST-5S	ND		1
175	1-Apr-96	LST-5S	ND		1
176	1-Oct-96	LST-5S	ND		1
177	1-Apr-97	LST-5S	ND		1
178	1-Oct-97	LST-5S	ND		1
179	1-Apr-98	LST-5S	ND		1
180	1-Oct-98	LST-5S	ND		1
181	1-Mar-99	LST-5S	ND		1
182	1-Oct-99	LST-5S	ND		1
183	1-Apr-00	LST-5S	ND		1
184	1-Oct-00	LST-5S	ND		1
185	1-Apr-01	LST-5S	ND		1
186	1-Oct-01	LST-5S	ND		1
187	2-Apr-02	LST-5S	ND		1
188	3-Oct-02	LST-5S	ND		1
189	2-Apr-03	LST-5S	ND		1
190	1-Oct-03	LST-5S	ND		1
191	15-Apr-04	LST-5S	ND		1
192	14-Oct-04	LST-5S	ND		1
193	5-Apr-05	LST-5S	ND		1
194	27-Oct-05	LST-5S	ND		1
195	21-Apr-06	LST-5S	ND		1
196	12-Oct-06	LST-5S	ND		1
197	26-Apr-07	LST-5S	ND		1
198	11-Oct-07	LST-5S	0.5	J	1
199	3-Apr-08	LST-5S	0.5	J	1
200	28-Oct-08	LST-5S	0.3	J	1
201	8-Apr-09	LST-5S	0.4	J	1
202	27-Oct-09	LST-5S	0.4	J	1
203	8-Apr-10	LST-5S	0.4	J	1
204	13-Oct-10	LST-5S	1	J	1
205	27-Apr-11	LST-5S	0.45	J	1
206	20-Oct-11	LST-5S	0.39	J	1
207	26-Apr-12	LST-5S	0.40	J	1
208	16-Oct-12	LST-5S	0.23	J	1
209	11-Apr-13	LST-5S	0.43	J	1
210	30-Oct-13	LST-5S	0.27	J	1
211	9-Apr-14	LST-5S	0.41	J	1
212	22-Oct-14	LST-5S	0.21	J	1
213	1-Jul-93	LST-1S	36		1
214	1-Aug-93	LST-1S	ND		1
215	1-Sep-93	LST-1S	ND		1
216	1-Sep-93	LST-1S	ND		1
217	1-Jul-93	LST-1D	28		1
218	1-Aug-93	LST-1D	ND		1
219	1-Sep-93	LST-1D	ND		1
220	1-Sep-93	LST-1D	ND		1
221	1-Jul-93	LST-2S	2		1
222	1-Aug-93	LST-2S	ND		1
223	1-Sep-93	LST-2S	ND		1
224	1-Sep-93	LST-2S	ND		1
225	1-Jul-93	LST-2D	25		1
226	1-Aug-93	LST-2D	ND		1
227	1-Sep-93	LST-2D	186		1
228	1-Sep-93	LST-2D	ND		1

229	1-Jul-93	LST-3S	71	1
230	1-Aug-93	LST-3S	62	1
231	1-Sep-93	LST-3S	83	1
232	1-Sep-93	LST-3S	61	1
233	1-Jul-93	LST-3D	24	1
234	1-Aug-93	LST-3D	ND	1
235	1-Sep-93	LST-3D	ND	1
236	1-Sep-93	LST-3D	ND	1
237	1-Jul-93	LST-4S	258	1
238	1-Aug-93	LST-4S	117	1
239	1-Sep-93	LST-4S	205	1
240	1-Sep-93	LST-4S	188	1
241	1-Jul-93	LST-4D	28	1
242	1-Aug-93	LST-4D	ND	1
243	1-Sep-93	LST-4D	ND	1
244	1-Sep-93	LST-4D	ND	1
245	1-Jul-93	LST-5D	21	1
246	1-Aug-93	LST-5D	ND	1
247	1-Sep-93	LST-5D	ND	1
248	1-Sep-93	LST-5D	ND	1
249	1-Jul-93	LST-6S	ND	1
250	1-Aug-93	LST-6S	24	1
251	1-Sep-93	LST-6S	ND	1
252	1-Sep-93	LST-6S	ND	1
253	1-Jul-93	LST-6D	52	1
254	1-Aug-93	LST-6D	42	1
255	1-Sep-93	LST-6D	ND	1
256	1-Sep-93	LST-6D	ND	1
257	1-Jul-99	MW-7	13	1
258	1-Aug-99	MW-7	ND	1
259	1-Oct-99	MW-7	ND	1
260	1-Nov-99	MW-7	ND	1
261	1-Jul-99	MW-8	24	1
262	1-Aug-99	MW-8	ND	1
263	1-Oct-99	MW-8	ND	1
264	1-Nov-99	MW-8	ND	1
265	1-Jul-99	MW-9	ND	1
266	1-Aug-99	MW-9	ND	1
267	1-Oct-99	MW-9	ND	1
268	1-Nov-99	MW-9	ND	1
269	1-Jul-99	MW-10	ND	1
270	1-Aug-99	MW-10	ND	1
271	1-Oct-99	MW-10	ND	1
272	1-Nov-99	MW-10	ND	1
273	1-Jul-99	MW-11S	ND	1
274	1-Aug-99	MW-11S	ND	1
275	1-Oct-99	MW-11S	ND	1
276	1-Nov-99	MW-11S	ND	1
277	1-Jul-99	MW-11D	ND	1
278	1-Aug-99	MW-11D	ND	1
279	1-Oct-99	MW-11D	ND	1
280	1-Nov-99	MW-11D	ND	1
281	25-Aug-11	MW-16S	ND	1
282	27-Sep-11	MW-16S	ND	1
283	26-Oct-11	MW-16S	ND	1
284	29-Nov-11	MW-16S	ND	1
285	25-Aug-11	MW-16D	ND	1
286	27-Sep-11	MW-16D	ND	1
287	26-Oct-11	MW-16D	ND	1

288	29-Nov-11	MW-16D	ND		1
289	25-Aug-11	MW-17S	ND		1
290	27-Sep-11	MW-17S	ND		1
291	26-Oct-11	MW-17S	ND		1
292	29-Nov-11	MW-17S	ND		1
293	25-Aug-11	MW-17D	ND		1
294	27-Sep-11	MW-17D	ND		1
295	26-Oct-11	MW-17D	ND		1
296	29-Nov-11	MW-17D	ND		1
297	25-Aug-11	MW-18S	ND		1
298	27-Sep-11	MW-18S	ND		1
299	26-Oct-11	MW-18S	12.1		1
300	29-Nov-11	MW-18S	ND		1
301	25-Aug-11	MW-18D	ND		1
302	27-Sep-11	MW-18D	ND		1
303	26-Oct-11	MW-18D	ND		1
304	29-Nov-11	MW-18D	ND		1
305	25-Aug-11	MW-19S	ND		1
306	27-Sep-11	MW-19S	ND		1
307	26-Oct-11	MW-19S	ND		1
308	29-Nov-11	MW-19S	ND		1
309	25-Aug-11	MW-19D	ND		1
310	27-Sep-11	MW-19D	ND		1
311	26-Oct-11	MW-19D	ND		1
312	29-Nov-11	MW-19D	ND		1
313	25-Aug-11	MW-15S	35.4		1
314	27-Sep-11	MW-15S	ND		1
315	26-Oct-11	MW-15S	ND		1
316	29-Nov-11	MW-15S	4.72	J	1
317	25-Aug-11	MW-15D	ND		1
318	27-Sep-11	MW-15D	ND		1
319	26-Oct-11	MW-15D	ND		1
320	29-Nov-11	MW-15D	ND		1

Number of Data:	317
Number of Truncated Data:	179
Percentage of Truncated Data:	56%

Non Parametric Prediction Limit (NPPL): 258

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