

HUNTINGTON LF  
SITE # 1-52-040  
TOWN OF HUNTINGTON, SUFFOLK COUNTY

**Groundwater and Surface Water  
Sampling & Analysis  
East Northport Landfill  
East Northport, New York  
September, 2002**

*Prepared for:*

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**Section HA-1A**

Tabulated comparison of historical analytical results in order as follows: CW1-S, CW1-M, CW2-M, CW4-S, CW4-M, EN1-M, EN6-S, EN6-M, EN7-M, EN9-M, EN10-M, SW-1, SW-2, SW-3, SW-4, SW-5, SW-6, SW-7

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Appendix 1. Laboratory Analytical Data

**Groundwater and Surface Water Sampling & Analysis  
East Northport Landfill  
East Northport, New York  
September, 2002**

**Introduction**

This report presents the results of September, 2002, groundwater and surface water sampling and analyses performed as stipulated by the Record of Decision for the East Northport Landfill Remedial Investigation/Feasibility Study. The aforementioned Record of Decision requires "semi-annual sampling and analysis of eleven groundwater monitoring wells and seven surface water locations for leachate parameters." Figure 1 depicts the location of groundwater and surface water sampling points. The scope-of-work completed (per our agreement with the Town of Huntington Department of Environmental Waste Management dated February 5, 2001) is presented below. A description of sampling methodology, quality assurance/quality control procedures, and a summary of analytical results follows.

**Scope of Work**

The scope-of-work includes performance of the following items:

- 1) sampling of groundwater monitoring wells CW1-S, CW1-M, CW2-M, CW4-S, CW4-M, EN1-M, EN6-S, EN6-M, EN7-M, EN9-M, EN10-M and surface water locations SW-1 through SW-7;
- 2) analyzing collected groundwater samples for *Volatile Organic Compounds* by EPA method 624 with TCL parameter list and ASP category B reporting of data; *Metals* (Aluminum, Arsenic, Chromium, Cadmium, Calcium, Iron, Lead, Magnesium, Mercury, Potassium, Sodium); and *Leachate Indicators* (Alkalinity/Bicarbonate, Ammonia, Nitrate, Chloride, TDS, Hardness, Sulfate);
- 3) analyzing collected surface water samples for *Volatile Organic Compounds* and *Leachate Indicators* (as above); and
- 4) measuring and recording appropriate field data including Temperature, pH, Specific Conductivity, Dissolved Oxygen, Salinity and Turbidity.

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## Sampling Methodology

Groundwater sampling methodology includes purging a minimum of 3-5 casing volumes of water from each monitoring well - via a submersible centrifugal pump (Grundfos Redi-Flo2) with per-well dedicated tubing - prior to sample collection. During well purging activities, dissolved oxygen, specific conductivity, temperature, pH, salinity and turbidity are measured and recorded on a per-casing-volume basis. Groundwater samples are collected following the stabilization of these values to within 10 %. The Grundfos Redi-Flo2 is cleaned internally and externally with an Alconox and water solution, followed by two fresh water rinses, between each sampling location.

Surface water samples are collected by immersing laboratory supplied containers at each sample location and allowing water to flow smoothly into them. Furthermore, surface water samples are collected during a dry period (minimum of 3 days without precipitation) to minimize the influence of surface water runoff from adjacent land surfaces and roadways. Consequently, collected surface water samples reflect stream base-flow and, for the most part, the quality of groundwater.

Groundwater samples from monitoring wells EN9-M and EN10-M, as well as surface water samples SW-1 through SW-7, were collected September 10, 2002. Groundwater samples from monitoring wells EN6-S, EN6-M, EN7-M and CW2-M and monitoring wells CW1-S, CW1-M, CW4-S, CW4-M and EN1-M were collected September 11, 2002 and September 12, 2002, respectively. Following the completion of sampling activities, collected samples were submitted under chain-of-custody control to New York State Department of Health certified Chemtech for chemical analysis. A copy of the original laboratory "Sample Data Summary Package" is presented in Appendix 1.

Table 1 presents a summary of field data measured and recorded at all sampling locations. Data associated with groundwater monitoring well sampling points reflects the last value measured during purging activities.

## Quality Assurance/Quality Control

A narrative discussion (conformance/nonconformance summary) of QA/QC procedures practiced by Chemtech - which includes instrument calibrations, analysis of method blanks, matrix spike blanks and percent-recovery of surrogates (system monitoring compounds) - is included in the "Sample Data Summary Package" presented in Appendix 1. Matrix spike/matrix spike duplicates (MS/MSD's) were collected to support both groundwater and surface water analyses. The MS/MSD samples were collected from

**Table 1**  
**Summary of Field Data**  
**Measured September 10-12, 2002**  
**East Northport Landfill, East Northport, NY**

<b>Sampling Point</b>	<b>Dissolved Oxygen (mg/l)</b>	<b>Conductivity (umhos)</b>	<b>Temperature (°centigrade)</b>	<b>pH (units)</b>	<b>Salinity (‰)</b>	<b>Turbidity (ntu)</b>
CW1-S	0.10	1500	29.0	7.53	1.0	3.00
CW1-M	0.10	825	29.0	7.33	0.0	9.99
CW2-M	1.40	150	14.0	6.51	0.0	0.81
CW4-S	0.77	100	18.0	6.86	0.0	9.47
CW4-M	5.10	195	17.0	6.42	0.0	0.76
EN1-M	4.00	170	12.5	6.52	0.0	0.42
EN6-S	0.20	170	14.0	6.33	0.0	9.06
EN6-M	0.30	280	13.0	6.51	0.0	1.23
EN7-M	0.40	650	12.5	7.42	0.0	0.03
EN9-M	3.00	135	11.0	7.05	0.0	9.74
EN10-M	0.30	200	21.0	6.63	0.0	0.10
SW-1	7.10	210	22.0	6.71	0.0	1.31
SW-2	0.70	375	30.5	8.36	0.0	3.76
SW-3	7.10	160	15.0	6.77	0.0	4.36
SW-4	0.10	215	22.0	6.88	0.0	2.46
SW-5	4.70	200	14.0	6.56	0.0	28.70
SW-6	0.50	125	27.0	9.06	0.0	4.20
SW-7	0.20	4000	26.0	7.51	3.0	4.47

monitoring well EN7-M and sampling location SW-3 for groundwater and surface water QA/QC purposes, respectively. In addition, trip blanks identified as TB-GW and TB-SW, representative of groundwater and surface water samples, respectively, were analyzed for volatile organic compounds. A field blank (FB9-12) representative of groundwater sampling activities was also analyzed for volatile organic compounds.

The accuracy of analytical data was generally assessed by collecting blind duplicates of groundwater sampled from monitoring well CW1-M (identified as GW-B) and surface water sampling location SW-2 (identified as SW-B). Collected samples GW-B and SW-B were analyzed for all groundwater and surface water parameters, respectively.

### Summary of Analytical Results

#### *QA/QC Samples*

Neither of the aforementioned trip blanks, nor the field blank, exhibited detectable concentrations of targeted analytes (i.e., volatile organic compounds). Furthermore, analytical results relative to blind duplicate and representative groundwater and surface water samples compare favorably (see Tables 2, 2A, 3 and 3A). Consequently, the results of groundwater and surface water analyses summarized below, are considered valid.

#### *Groundwater*

The results of groundwater analyses - with a comparison to New York State Department of Environmental Conservation (NYSDEC) Class GA drinking water standards - for volatile organic compounds and metals/leachate indicators, are summarized on Tables 2 and 2A, respectively.

As shown on Table 2, four volatile organic compounds were detected in excess of NYSDEC drinking water standards including *trichloroethene* (EN7-M), *benzene* (CW1-S), *tetrachloroethene* (EN6-M, EN7-M) and *chlorobenzene* (CW1-S).

As shown on Table 2A, three metals were detected in excess of NYSDEC drinking water standards including *arsenic* (CW1-S, CW1-M), *iron* (CW1-S, CW1-M, CW4-S, EN6-S), and *sodium* (CW1-S, CW1-M, CW2-M, EN6-S, EN6-M, EN7-M). Leachate indicators detected in excess of NYSDEC's drinking water standards include *ammonia* (CW1-S, CW1-M) and *chloride* (EN7-M).

### *Surface Water*

Tables 3 and 3A summarize analytical results and NYSDEC Class GA drinking water standards for volatile organic compounds and leachate indicators, respectively.

As shown on Table 3, *tetrachloroethene* in surface water samples SW-1 through SW-5, is the sole volatile organic compound detected - all at concentrations below NYSDEC's Class GA drinking water standard.

Leachate indicators *chloride* and *sulfate*, as shown on Table 3A, were detected in excess of NYSDEC drinking water standards in surface water sample SW-7. As noted in previous reports, the detection of elevated concentrations of chloride and sulfate at this sampling point is attributable to the influence of saline surface water (sampling point SW-7 is within the tidal portion of Sunken Meadow Creek).

### *Historical Analysis*

A detailed tabulated comparison of historical analytical results is presented in Section HA-1A. A summary of inconsistencies with the most recent analyses, completed April, 2002, is presented below. With the exception of the below-listed inconsistencies, September 2002 analytical results, as reported herein, continue to be consistent with past events (i.e., June, 1996, April & September, 1997, April & September, 1998, April & September, 1999, April & September, 2000, April & September, 2001, April, 2002).

### Groundwater

\* The concentration of *1,1,1-trichloroethane* decreased in groundwater sampled from monitoring well EN1-M from 6.0 µg/l, a concentration above NYSDEC's drinking water standard of 5.0 µg/l, to 4.6 µg/l.

\* The concentration of *iron* increased in groundwater sampled from monitoring well EN6-S from 207.0 µg/l, a concentration below NYSDEC's drinking water standard of 300.0 µg/l, to 468.0 µg/l.

\* The concentration of *sodium* decreased in groundwater sampled from monitoring well EN9-M from 26,900.0 µg/l, a concentration above NYSDEC's drinking water standard of 20,000.0 µg/l, to 19,400.0 µg/l.



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\* The concentration of *chloride* decreased in groundwater sampled from monitoring well CW1-S from 270.0 milligrams per liter (mg/l), a concentration above NYSDEC's drinking water standard of 250.0 mg/l, to 210.0 mg/l.

### Surface Water

Inconsistencies with the most recent analyses (April, 2002), with respect to all tested compounds, are not apparent.

Table 2

Summary of Analytical Results-Groundwater  
 East Northport Landfill, East Northport, NY  
 Sampled September 10-12, 2002  
 Volatile Organic Compounds  
 Reported in Micrograms per Liter

Parameter	CW1-S	CW1-M	CW2-M	CW4-S	CW4-M	EN1-M	EN6-S	EN6-M	EN7-M	EN9-M	EN10-M	GW-B	TB-GW	FB9-12	NYSDEC Class GA Standard
Chloromethane	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	NS/GV
Bromomethane	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.7)	5.0
Vinyl Chloride	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	2.0
Chloroethane	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	ND(1.8)	5.0
Methylene Chloride	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	5.0
Trichlorofluoromethane	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	ND(1.3)	5.0
1,1-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	2.0 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	5.0
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	2.4 J	ND(1.0)	ND(1.0)	2.3 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	5.0
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	5.0
Chloroform	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	7.0
1,2-Dichloroethane	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	5.0
1,1,1-Trichloroethane	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	1.4 J	4.6 J	1.6 J	ND(0.8)	ND(0.8)	ND(0.8)	3.2 J	ND(0.8)	ND(0.8)	ND(0.8)	5.0
Carbon Tetrachloride	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	5.0
Bromodichloromethane	ND(0.9)	ND(0.9)	ND(0.9)	ND(0.9)	ND(0.9)	ND(0.9)	ND(0.9)	ND(0.9)	ND(0.9)	ND(0.9)	ND(0.9)	ND(0.9)	ND(0.9)	ND(0.9)	50.0 GV
1,2-Dichloropropane	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	5.0
cis-1,3-Dichloropropene	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	0.4*
Trichloroethene	ND(0.9)	ND(0.9)	1.0 J	ND(0.9)	ND(0.9)	ND(0.9)	ND(0.9)	2.5 J	7.2	ND(0.9)	ND(0.9)	ND(0.9)	ND(0.9)	ND(0.9)	5.0
Benzene	2.2 J	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	ND(0.6)	1.0
Dibromochloromethane	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	50.0 GV
trans-1,3-Dichloropropene	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	0.4*
1,1,2-Trichloroethane	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	1.0
2-Chloroethylvinyl Ether	ND(4.8)	ND(4.8)	ND(4.8)	ND(4.8)	ND(4.8)	ND(4.8)	ND(4.8)	ND(4.8)	ND(4.8)	ND(4.8)	ND(4.8)	ND(4.8)	ND(4.8)	ND(4.8)	NS/GV
Bromoform	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	ND(1.5)	50.0 GV
1,1,2,2-Tetrachloroethane	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	5.0
Tetrachloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	9.5	24.0	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	5.0
Toluene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	5.0
Chlorobenzene	7.0	3.4 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	3.0 J	ND(1.0)	ND(1.0)	5.0

Table 2 continued

Contaminant	NYSDEC Class GA Standard														
	CW1-S	CW1-M	CW2-M	CW4-S	CW4-M	EN1-M	EN6-S	EN6-M	EN7-M	EN9-M	EN10-M	GW-B	TB-GW	FB9-12	
Ethylbenzene	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	5.0
1,2-Dichlorobenzene	ND(1.6)	ND(1.6)	ND(1.6)	ND(1.6)	ND(1.6)	ND(1.6)	ND(1.6)	ND(1.6)	ND(1.6)	ND(1.6)	ND(1.6)	ND(1.6)	ND(1.6)	ND(1.6)	3.0
1,3-Dichlorobenzene	2.0 J	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	3.0
1,4-Dichlorobenzene	2.0 J	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	3.0

Note:

ND( ) : Compound not detected at the method detection limit

NYSDEC Class GA Standards: New York State Department of Environmental Conservation Ambient Water Quality Standards for Source of Drinking Water Title 6 Part 703 (per June 1998 revision)

GV: NYSDEC Guidance Value for Source of Drinking Water

NS/GV: No NYSDEC Standard or Guidance Value Established

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

\*Standard of 0.4 applies to sum of cis and trans 1,3-Dichloropropene

Table 2A

**Summary of Analytical Results-Groundwater  
East Northport Landfill, East Northport, NY  
Sampled September 10-12, 2002  
Metals and Leachate Indicators**

*Reported in Micrograms per Liter (µg/l) and Milligrams per Liter (mg/l)*

Metals (µg/l)	CW1-S	CW1-M	CW2-M	CW4-S	CW4-M	EN1-M	EN6-S	EN6-M	EN7-M	EN9-M	EN10-M	GW-B	NYSDEC Class GA Standard
Aluminum	26.5 B	25.8 B	35.8 B	65.4 B	ND(10.1)	ND(10.1)	51.6 B	ND(10.1)	ND(10.1)	ND(10.1)	ND(10.1)	ND(10.1)	NS/GV
Arsenic	<b>75.4</b>	<b>56.7</b>	ND(3.6)	ND(3.6)	ND(3.6)	ND(3.6)	ND(3.6)	ND(3.6)	ND(3.6)	ND(3.6)	ND(3.6)	<b>46.7</b>	25.0
Cadmium	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	5.0
Calcium	24,700.0	15,800.0	19,400.0	7,210.0	19,300.0	22,500.0	14,400.0	80,600.0	79,900.0	15,500.0	20,100.0	16,000.0	NS/GV
Chromium	5.3 B	5.8 B	8.4 B	6.5 B	7.1 B	4.3 B	46.2	4.6 B	1.6 B	2.6 B	6.8 B	3.4 B	50.0
Iron	<b>6,580.0</b>	<b>7,770.0</b>	112.0	<b>398.0</b>	45.9 B	ND(16.8)	<b>468.0</b>	25.9 B	ND(16.8)	29.0 B	24.4 B	<b>7,720.0</b>	300.0
Lead	4.3	7.1	5.2	10.6	9.2	9.8	7.9	6.4	7.5	9.8	9.8	9.2	25.0
Magnesium	25,800.0	16,700.0	6,010.0	520.0 B	7,610.0	8,620.0	6,810.0	23,400.0	34,400.0	7,040.0	7,560.0	16,800.0	35,000.0 GV
Mercury	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	0.7
Potassium	150,000.0	72,800.0	7,580.0	3,060.0 B	1,200.0 B	1,280.0 B	1,750.0 B	4,470.0 B	5,240.0	1,350.0 B	1,260.0 B	72,400.0	NS/GV
Sodium	<b>407,000.0</b>	<b>156,000.0</b>	<b>22,300.0</b>	4,210.0 B	11,600.0	15,300.0	<b>30,100.0</b>	<b>71,600.0</b>	<b>270,000.0</b>	19,400.0	14,400.0	<b>153,000.0</b>	20,000.0
<b>Leachate Indicators (mg/l)</b>													
Ammonia	<b>160.0</b>	<b>61.0</b>	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	<b>47.0</b>	2.0
Bicarbonate	1,300.0	570.0	46.0	20.0	37.0	26.0	13.0	150.0	280.0	32.0	18.0	570.0	NS/GV
Chloride	210.0	95.0	26.0	4.7	23.0	30.0	46.0	100.0	<b>260.0</b>	47.0	26.0	93.0	250.0
Nitrate	ND(0.5)	ND(0.5)	1.4	0.9	7.2	9.6	8.3	2.8	0.7	1.2	9.8	ND(0.5)	10.0
Sulfate	2.46	54.0	35.0	4.06	26.0	37.0	28.0	86.0	36.0	17.0	36.0	52.0	250.0
Alkalinity	1,300.0	570.0	46.0	20.0	37.0	26.0	13.0	150.0	280.0	32.0	18.0	570.0	NS/GV
TDS	1,400.0	680.0	140.0	37.0	120.0	160.0	160.0	410.0	790.0	150.0	140.0	720.0	NS/GV
Hardness	170.0	110.0	73.0	20.0	80.0	92.0	64.0	300.0	340.0	68.0	81.0	110.0	NS/GV

## Note:

ND( ): Compound not detected at the method detection limit

NYSDEC Class GA Standards: New York State Department of Environmental Conservation Ambient Water Quality Standards for Source of Drinking Water Title 6 Part 703 (per June 1998 revision)

GV: NYSDEC Guidance Value for Source of Drinking Water

NS/GV: No NYSDEC Standard or Guidance Value Established

B: Reported value less than contract required detection limit but greater than or equal to instrument detection limit



Table 3 continued

Contaminant	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SW-7	SW-B	TB-SW	NYSDEC Class GA Standard
Ethylbenzene	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.2)	5.0
1,2-Dichlorobenzene	ND(1.6)	ND(1.6)	ND(1.6)	ND(1.6)	ND(1.6)	ND(1.6)	ND(1.6)	ND(1.6)	ND(1.6)	3.0
1,3-Dichlorobenzene	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	ND(0.8)	3.0
1,4-Dichlorobenzene	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	ND(1.4)	3.0

Note:

ND( ): Compound not detected at the method detection limit

NYSDEC Class GA Standards: New York State Department of Environmental Conservation Ambient Water Quality Standards for Source of Drinking Water Title 6 Part 703 (per June 1998 revision)

GV: NYSDEC Class GA Guidance Value for Source of Drinking Water

NS/GV: No NYSDEC Standard or Guidance Value Established

\*Standard of 0.4 applies to sum of cis and trans 1,3-Dichloropropene

J: Indicates an estimated value; compound is present at a concentration less than specified detection limit

**Table 3A**

**Summary of Analytical Results-Surface Water  
East Northport Landfill, East Northport, NY  
Sampled September 10, 2002  
Leachate Indicators  
Reported in Milligrams per Liter**

Parameter	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SW-7	SW-B	NYSDEC Class GA Standard
Ammonia	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	2.0
Bicarbonate	28.0	45.0	23.0	32.0	56.0	13.0	51.0	50.0	NS/GV
Chloride	45.0	50.0	32.0	47.0	90.0	14.0	3,600.0	50.0	250.0
Nitrate	1.2	1.5	3.0	1.1	2.2	ND(0.5)	ND(0.5)	1.4	10.0
Sulfate	20.0	34.0	20.0	21.0	37.0	25.0	310.0	17.0	250.0
Alkalinity	28.0	45.0	22.0	32.0	56.0	13.0	52.0	50.0	NS/GV
TDS	140.0	160.0	110.0	150.0	240.0	64.0	6,800.0	180.0	NS/GV
Hardness	60.0	110.0	58.0	61.0	140.0	33.0	1,200.0	110.0	NS/GV

**Note:**

ND( ): Compound not detected at the method detection limit

NYSDEC Class GA Standards: New York State Department of Environmental Conservation Ambient Water Quality Standards for Source of Drinking Water Title 6 Part 703 (per June 1998 revision)

NS/GV: No NYSDEC Standard or Guidance Value Established