Cortland County Soil and Water Conservation District
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SWCD...established to promote the conservation and wise use of our county's natural resources

September 13, 2012

Brian Jankauskas
NYS DEC
Div. of Environmental Remediation
625 Broadway, 11th Floor
Albany, NY 12233-7015

Dear Mr. Jankauskas:

Enclosed is a report summarizing monitoring activities for Quarter 2 of 2012 at the Towslee Landfill in Cortland County. Cortland County Soil and Water Conservation District prepared this report for Don Chambers, Superintendent of Cortland County Highway Department.

Please contact our office at (607) 756-5991, or Don Chambers at (607) 753-9377, if you have any questions.

Sincerely,

Patrick Reidy
Water Quality Specialist

cc: Don Chambers w/ report
James Gruppe, NYSDEC Region 7 w/ report
Amanda Barber, SWCD/files

Environmental Monitoring Report
2012 Quarter 2

Cortland County Towslee Landfill

Town Line Road
Cortland County, New York

NYSDEC Region 7

Prepared for:
Cortland County Highway Department
Traction Drive
Cortland, NY 13045

Prepared by:
Cortland County Soil and Water Conservation District
100 Grange Place
Cortland, NY 13045

TABLE OF CONTENTS

PAGE

1.0 Introduction 1

2.0 Site History 1

3.0 Monitoring Schedule and Locations 2

4.0 Groundwater Monitoring 3

5.0 Surface Water Monitoring 6

6.0 Landfill Gas Testing 7

7.0 Quality Control 7

Figures

1 Monitoring Locations

Tables

1 Contraventions of Groundwater Quality Standards - Field/Inorganic Parameters
2 Contraventions of Groundwater Quality Standards - Metals
3 Contraventions of SurfaceWater Quality Standards - Field/Inorganic Parameters
4 Contraventions of SurfaceWater Quality Standards - Metals

Appendices

A Data Validation Report and Analytical Laboratory Report
B Historical Analytical Data
C Historical Summary Tables for Contaminants of Concern (COCs)
D Landfill Gas Testing Results

1.0 Introduction

Cortland County is the current owner of the inactive Towslee Landfill located at the county's solid waste disposal site in the Towns of Cortlandville and Solon, near the center of the county. The Towslee Landfill has previously been called the Old County Landfill, and the Town Line Landfill. It is referred to as the Towslee Landfill in this report. This report summarizes groundwater quality monitoring activities at the Towslee Landfill for Quarter 2 of 2012.

The Towslee Landfill is designated by New York State Department of Environmental Conservation (NYSDEC) as a Class 2 inactive hazardous waste disposal site, and has been listed in the Registry of Inactive Hazardous Waste Disposal Sites (#7-12-001). NYSDEC issued an Order of Consent (#B7-0486-12-95), effective May 31, 1996, making it the responsibility of Cortland County to develop and implement a remedial investigation plan towards the closure and cleanup of the facility.

Barton & Loguidice (B&L) completed a remedial investigation report in March 1998 that included the results of a hydrogeologic investigation and a "limits of waste" investigation, among other things. Groundwater monitoring wells were installed and tested as part of this investigation.

Towslee Landfill monitoring follows the sampling and analysis plan prepared by B&L in 2006. Upstate Laboratories, Inc. (herein referred to as Upstate Labs) conducted all sample collection activities, and performed all laboratory analyses for Quarter 2 of 2012. Water quality analyses were conducted in accordance with 1998 Part 360 regulations. SWCD performed data management and analysis, and prepared this report.

2.0 Site History

The site was a private disposal facility starting in the 1940s. The City of Cortland leased the site for municipal disposal in the mid-1960s in the portion of the site now referred to as the Abandoned City of Cortland Landfill. Cortland County purchased the site in 1972. In April 1972 the County began landfill operations north of the Abandoned City operation. The County stopped disposing of municipal solid waste at this site in 1987, but continued to dispose of construction debris until early 1992. Based on landfill records, hazardous wastes were believed to have been deposited at the site. The wastes were believed to have been generated by one or more local industries. B&L delineated the limits of hazardous waste associated with the site.

Figure 1 shows well locations monitored for this program, and the approximate limits of hazardous waste. Figure 1 also shows the surface water sampling locations that are tested as part of the monitoring of the active West Side Landfill, located adjacent to Towslee Landfill.

The B&L Remedial Investigation concluded that in 1997 there was mild landfill leachate contamination of groundwater in the vicinity of Wells MW-2A/B and MW-7A. Very mild impacts from leachate contamination occurred in the vicinity of Well MW-1A. Groundwater contamination occurred primarily in the overburden, and extended downgradient of the site for a distance of about 450 feet.

Based on 1997 monitoring, B&L identified the following parameters that were indicative of mild leachate impacts to groundwater:

Conventionals - chloride, COD, ammonia, alkalinity, TKN, TOC, and hardness

Metals - aluminum, arsenic, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, potassium, sodium, vanadium, and zinc

3.0 Monitoring Schedule and Locations

3.1 Schedule

Quarter	Analyses	Date Sampled
First Quarter:	Routine	March 19-21, 2012
Second Quarter:	Routine	May 22-23, 2012
Third Quarter:	Routine	to be completed
Fourth Quarter:	Baseline	to be completed

3.2 Groundwater Monitoring Locations

Monitoring wells for the Towslee monitoring program are listed below, and shown on Figure 1.

Upgradient	Bedrock	Overburden
	CD-1RA	CD-1

Downgradient	Bedrock	Overburden
	MW-1B	MW-1A
	MW-2B	MW-2A
	MW-3A	MW-6A
	MW-3B	MW-7A
	MW-4A	
	MW-5A (a)	
	MW-6B	

(a) MW-5A could not be sampled because of a blockage above the water table.

4.0 Groundwater Monitoring Results

This section provides an evaluation of groundwater monitoring results for Quarter 2 of 2012. Groundwater quality data are compared to NYS water quality standards to assess current conditions. Recent data are also compared to past data to evaluate trends.

- Appendix A contains the Quarter 2 laboratory analytical report.
- Appendix B contains tables of historical water quality data for each monitoring well.

4.1 Contraventions of Groundwater Quality Standards

This subsection compares 2012 groundwater quality data to NYS water quality standards. Tables 1 and 2 summarize groundwater quality results for Quarter 2 for the Towslee wells. Available NYS water quality standards are included in these tables, and contraventions of standards are highlighted.

Results for most parameters in Quarter 2 of 2012 were below available water quality standards at all wells, although there continues to be evidence of mild landfill leachate contamination. Contraventions of standards are described below for the Towslee monitoring wells.

4.1.1 Conventionals and Field Parameters

pH - The acceptable range for pH is between 6.5 and 8.5. In Quarter 2, pH was slightly below this range for MW-2B (6.12) and MW-7A (6.36).

Turbidity – Turbidity exceeded the NYS standard of 5 NTU for the two upgradient wells and 9 of the 10 sampled downgradient wells in Quarter 2, with results ranging from about 5 to over 1,000 NTU. Based on separate monitoring conducted at the closed Pine Tree Landfill, and the active West Side Landfill, natural groundwater in this area appears to have elevated turbidity.

Total Dissolved Solids (TDS) - The TDS standard of 500 mg/l has been consistently exceeded for the same two wells, and this trend continued in Quarter 2. TDS was 890 mg/l at MW-2B, and 630 mg/l at MW-7A.

Ammonia - The ammonia standard of 2 mg/l was exceeded at MW-2A (5.9 mg/l) in Quarter 2, and was exceeded in all previous monitoring events at this well, with a slowly decreasing trend in concentration over time.

4.1.2 Metals

Total Iron - The NYS standard for iron is 0.3 mg/l. The standard was exceeded for both upgradient wells and 8 of the 10 sampled downgradient wells in Quarter 2, ranging from about 0.34 to 7.4 mg/l. Iron has frequently exceeded the standard in past monitoring at Towslee. The elevated iron levels are believed to be due at least in part to particulate in the unfiltered samples.

Total Manganese - The NYS standard for manganese is 0.3 mg/l. The manganese standard was exceeded for one upgradient well and 7 of 10 downgradient wells in Quarter 2, ranging from about 0.8 to 8.5 mg/l. As with iron, the manganese standard has frequently been exceeded in past monitoring, and may be due to particulate in unfiltered samples.

Sodium – Of the several NYS sodium standards, the lowest is 20 mg/l, and applies to people on severely restricted sodium diets. Contraventions in Quarter 2 were observed at MW-2B (47.4 mg/l) and MW-7A (91 mg/l). These results are consistent with past monitoring. Elevated sodium may be at least partially related to deicing activities on the road network within the landfill.

4.1.3 Volatile Organic Compounds (VOCs)

VOC analyses was not required in Quarter 2.

There were no other contraventions of NYS water quality standards in Quarter 2 of 2012.

4.2 Groundwater Quality Trends

Groundwater monitoring at Towslee Landfill occurred twice in 1997, and quarterly monitoring was resumed for seven wells in 2006. Monitoring was resumed for an additional six wells in Quarter 3 of 2012.

As described in Section 2, B&L identified a subset of parameters that suggested mild leachate impacts to groundwater, based on 1997 monitoring. For this report, these parameters are described as contaminants of concern (COCs). The main focus of the trends assessment is on COCs.

Appendix B contains historical tables of the results for all parameters. Appendix C contains historical summary tables of results for the COCs for conventional and total metals.

4.2.1 Upgradient Wells

Wells CD-1 and CD-1RA are upgradient of the landfill. The 2012 Quarter 2 testing continues to show that water quality in upgradient well CD-1RA has not changed significantly over time. The water quality for CD-1 is generally similar to CD-1RA.

4.2.2 Trend for Downgradient Wells

Trends for Conventionals

B&L identified the following conventionals as suggestive of mild landfill leachate contamination: alkalinity, chloride, hardness, ammonia, TKN, COD, and TOC.

- Alkalinity continues to be generally lower than 1997 levels for all wells with elevated alkalinity in 1997, and fairly stable over the past 6 years. There is a general downward trend over the past few years for the wells with the highest initial alkalinity levels, except for MW-4A.

- Chloride levels continue to be significantly lower than 1997 levels. The strongest downward trends occur for the wells with the highest initial chloride levels.

- Hardness levels are generally lower than in 1997, especially for the wells with high levels in 1997. Hardness has been fairly stable for the past 6 years.

- Ammonia – For most wells, ammonia has consistently been below the detection level in recent years. Well MW-2A continues to have elevated ammonia levels, but continues to show an overall decreasing trend over time. MW-2B is the only other well at which ammonia was detected in the past several years.

- TKN levels in general show an overall decreasing trend over time, with several wells consistently below the detection limit in recent years. TKN results for MW-2A are elevated, but show an overall decreasing trend. Results for MW-2B have remained generally stable for the past several years. TKN results for MW-3A and MW-7A fluctuate more than at other wells, with no clear trend either up or down.

- COD continues to show an overall decrease compared to 1997 levels. Results for most wells have been below the detection limit in recent quarters. Results for MW-7A have been relatively stable.

- Total Organic Carbon (TOC) - TOC levels are generally lower than those measured in 1997, and have been relatively stable in recent years, except for a moderate increase in the past two quarters at MW-2B.

- For all other conventionals, the results for 2012 are lower than or similar to past results.

Trends for Total Metals

B&L identified the following metals as suggestive of mild landfill leachate contamination:

aluminum	cobalt	magnesium *	vanadium
arsenic	copper	manganese *	zinc
calcium *	iron *	potassium *	
chromium	lead	sodium *	

Of these, metals noted with an asterisk (*) were analyzed during the Routine monitoring conducted in Quarter 2.

- Calcium levels continue to show an overall decrease through Quarter 2 of 2012, compared to 1997 levels, and have been relatively stable in recent monitoring. There has generally been a significant decrease in calcium concentrations for the wells with the highest levels in 1997.

- Iron continues to show an overall decrease compared to 1997 levels. Variability in total iron levels in recent years is likely due to varying amounts of particulate in samples.

- Magnesium levels continue to show an overall decrease compared to 1997 observations, and have been fairly stable over the past few years.

- Manganese continues to show an overall decrease compared to 1997 levels.

- Potassium levels continue to show an overall decrease through Quarter 2 of 2012, compared to 1997, and are below the detection limit at most wells in recent years.

- Sodium levels have continued to show a general decrease through Quarter 2 of 2012, or have remained fairly stable.

Trends for Organics

Analysis of VOCs was not required in Quarter 2 of 2012.

5.0 Surface Water Monitoring

There is no surface water monitoring conducted specifically for the Towslee Landfill, but there are three surface water locations (SW-1, SW-2, and SW-3) that are sampled as part of monitoring of the active West Side Landfill. These locations are downgradient of the Towslee Landfill and shown on Figure 1.

Tables 3 and 4 summarize the surface water quality results. Available NYS water quality standards are included in these tables, and contraventions of standards are highlighted.

The only surface water contraventions in Quarter 2 were for iron and manganese. Contraventions

were observed at all three locations for iron, ranging from about 0.3 to 1.9 mg/l. The manganese standard of 0.3 mg/l was exceeded at SW-1 (0.711 mg/l). Elevated turbidity levels at these locations may have contributed to the contraventions.

6.0 Landfill Gas Testing

Landfill gas measurements were taken at 10 of 13 monitoring wells, and at two locations at the scale house. Measurements were inadvertently not taken from Wells MW-7A, CD-1, and CD-1RA.

Explosive gas (methane) was detected at 1% of the Lower Explosive Limit (LEL) at both MW-1A and MW-1B. No gas was detected at the other locations.

7.0 Quality Control

Quality control samples and data validation are discussed below. Based on a review of this information, we believe the Quarter 2 data are adequate to characterize groundwater quality in the vicinity of the Towslee Landfill.

7.1 Quality Control Samples

Duplicate samples were collected for MW-1B in Quarter 2 of 2012. Relative Percent Differences (RPDs) were calculated if results for both the sample and the duplicate were above the detection limit.

RPDs should be less than 20 if the sample result exceeds five times the Practical Quantitation Limit (PQL). Of the six RPDs that fell into this category, three were above 20: iron (167), manganese (66), and TDS (62). Varying amounts of particulate in unfiltered split sample may have contributed to the elevated RPDs.

If the result is less than five times the PQL, the duplicate result should not differ by more than the PQL from the initial result. Six results fell into this category, and none of the duplicate results varied from the initial result by more than the criteria.

7.2 Data Validation

Independent data validation was not required for the Quarter 2 monitoring in 2012. Internal validation was conducted by Upstate Labs, and indicates that the results generally meet acceptance criteria. A summary of the internal validation is included in Appendix B.

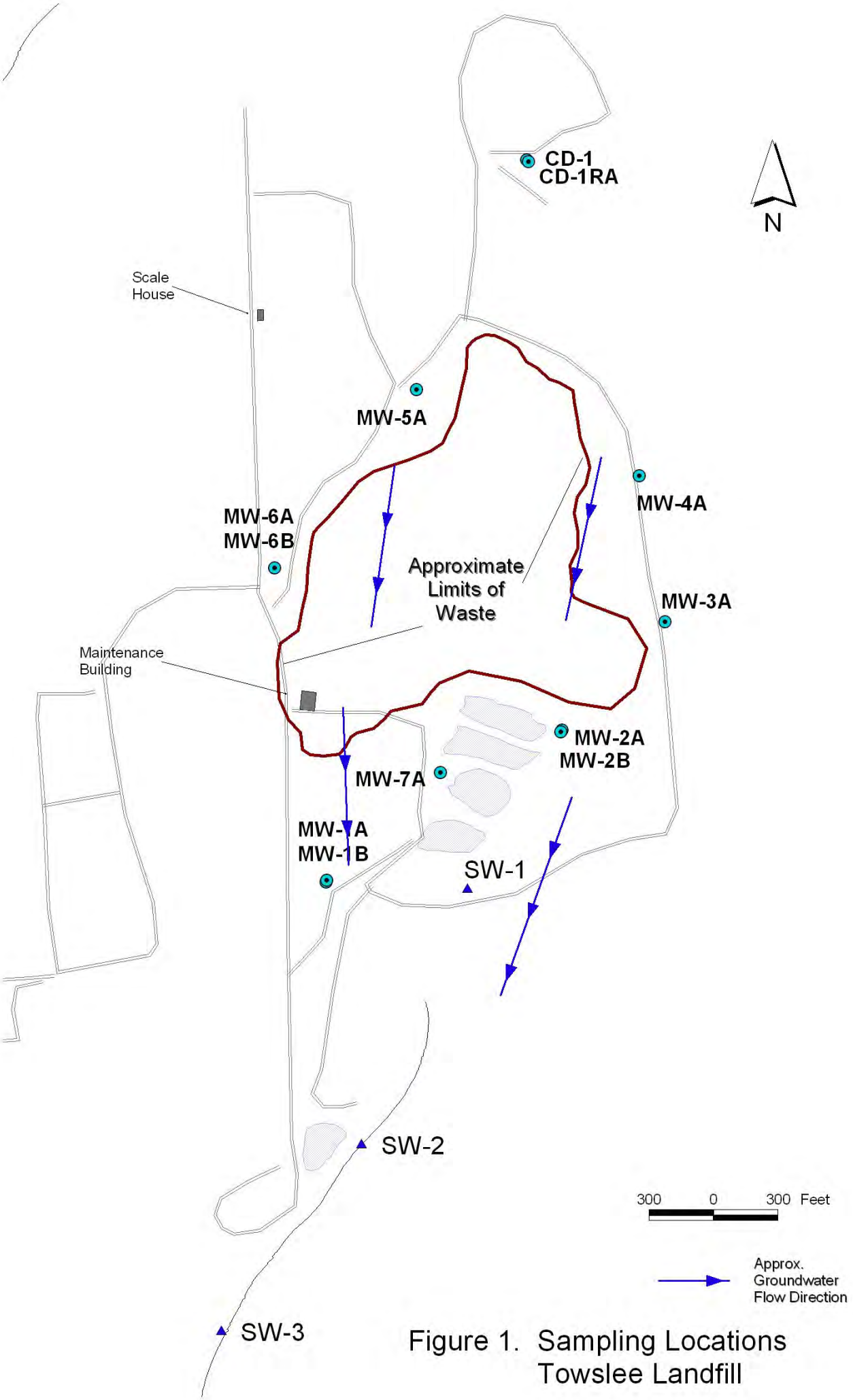


Figure 1. Sampling Locations
Towslee Landfill

Table1. Contraventions of NYS Water Quality Standards for Field and Inorganic Parameters

Towslee Landfill - Quarter 2 2012

Parameter	Units	NYS Water Quality Standard		Upgradient		Downgradient										
				OB	BR	OB	BR	OB	BR	BR	BR	BR	BR	OB	BR	OB
				CD-1	CD-1RA	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-5A	MW-6A	MW-6B	MW-7A
Temperature	(deg. C)	--		19.0	185.0	20.3	21.2	18.9	18.2	20.0	18.3	15.8	NS	18.9	17.7	15.8
Eh	(mV)	--		137	142	163	155	133	161	153	170	160	NS	133	139	184
pH	log	6.5 - 8.5	a	7.53	7.45	6.94	7.19	6.72	**6.12**	7.07	6.61	6.83	NS	7.35	7.29	**6.36**
Specific Conduct.	(uS/cm)	--		257	295	376	243	515	1378	340	479	714	NS	408	363	1085
Color	(Units)	15	a, b	--	--	--	--	--	--	--	--	--	NS	--	--	--
Turbidity	(NTU)	5	a	**40.9**	**8.26**	**26.5**	**16.1**	**27.5**	**5.44**	**41.7**	2.51	**7.45**	NS	**241**	**17.1**	**>1000 E**
Alkalinity (as CaCO3)	(mg/l)	--		120	140	140	100	250	790	160	210	350	NS	130	190	520
Hardness (as CaCO3)	(mg/l)	--		146	155	175	111	207	643	146	259	384	NS	169	150	449
Total Diss. Solids	(mg/l)	500	a	380	310	450	340	290	**890**	240	300	490	NS	310	240	**630**
Chloride	(mg/l)	250	a, b	1.2	1.46	33.1	2.47	11.6	124	1.59	23.4	22.3	NS	20	10.1	99.5
Sulfate	(mg/l)	250	a, b	12.2	15.9	12.2	<5	8.79	<5	<5	7.7	6.5	NS	13.6	17.9	20
Bromide	(mg/l)	2	a	<8	<0.8	<8	<0.8	<80	<8	<8	<0.8	<8	NS	<8	<80	<80
Nitrate (As N)	(mg/l)	10	a, b	0.068	<0.05	<0.05	0.075	0.076	<0.05	<0.05	0.07	<0.05	NS	0.09	0.081	<0.05
Ammonia (As N)	(mg/l)	2	a	<0.5	<0.5	<0.5	<0.5	**5.9**	0.76	<0.5	<0.5	<0.5	NS	<0.5	<0.5	<0.5
TKN	(mg/l)	--		<0.5	<0.5	<0.5	<0.5	6.56	0.811	<0.5	<0.5	<0.5	NS	1.89	<0.5	<0.5
COD	(mg/l)	--		<20	<20	<20	<20	36	<20	<20	<20	<20	NS	<20	<20	22
BOD	(mg/l)	--		<4	<4	<4	<4	<4	<4	<4	<4	<4	NS	<4	<4	<4
TOC	(mg/l)	--		<3	<3	<3	<3	5.5	14.4	<3	<3	<3	NS	<3	<3	7.3
Phenolics, Total	(mg/l)	0.001	a	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NS	<0.005	<0.005	<0.005
Cyanide	(mg/l)	0.2	a, b	--	--	--	--	--	--	--	--	--	NS	--	--	--

a - Part 703 Water Quality Standard (assumes Class GA waters)

b - Part 5 Drinking Water MCL

1.23 indicates contravention of standard.

-- not analyzed

NS - not sampled

E - estimated value

OB = overburden well

BR = Bedrock well

Table 2. Contraventions of NYS Water Quality Standards for Metals (units are mg/l)

Towslee Landfill - Quarter 2 2012

Parameter	NYS Water Quality Standard		Total Metals: Upgradient OB CD-1	Upgradient BR CD-1RA	Downgradient OB MW-1A	Downgradient BR MW-1B	Downgradient OB MW-2A	Downgradient BR MW-2B	Downgradient BR MW-3A	Downgradient BR MW-3B	Downgradient BR MW-4A	Downgradient BR MW-5A	Downgradient OB MW-6A	Downgradient BR MW-6B	Downgradient OB MW-7A	Dissolved Metals: Dwngrd BR MW-6A	Dissolved Metals: Dwngrd OB MW-7A
Aluminum	--		--	--	--	--	--	--	--	--	--	NS	--	--	--	--	--
Antimony	0.003	a	--	--	--	--	--	--	--	--	--	NS	--	--	--	--	--
Arsenic	0.025	a	--	--	--	--	--	--	--	--	--	NS	--	--	--	--	--
Barium	1	a	--	--	--	--	--	--	--	--	--	NS	--	--	--	--	--
Beryllium	0.004	b	--	--	--	--	--	--	--	--	--	NS	--	--	--	--	--
Boron	1	a	--	--	--	--	--	--	--	--	--	NS	--	--	--	--	--
Cadmium	0.005	a, b	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NS	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium	--		41.2	43.1	49.4	30.4	59.2	184	43.6	66.6	110	NS	50.9	39.8	123	45.4	115
Chromium	0.05	a	--	--	--	--	--	--	--	--	--	NS	--	--	--	--	--
Chrom, Hex	0.05	a	--	--	--	--	--	--	--	--	--	NS	--	--	--	--	--
Cobalt	--		--	--	--	--	--	--	--	--	--	NS	--	--	--	--	--
Copper	0.2	a	--	--	--	--	--	--	--	--	--	NS	--	--	--	--	--
Iron	0.3	a, b	**2.34**	**0.509**	**1.65**	**3.2**	**3.15**	**0.337**	**0.451**	0.0945	0.146	NS	**0.98**	**7.38**	**2.9**	0.149	<0.06
Lead	0.015	b	<0.003	<0.003	<0.003	0.0042	<0.003	<0.003	<0.003	<0.003	<0.003	NS	<0.003	<0.015	0.00328	<0.003	<0.003
Magnesium	--		10.5	11.5	12.6	8.66	14.4	44.9	9.02	22.4	26.5	NS	10.3	12.4	34.8	9.33	32.1
Manganese	0.3	a, b	**1.3**	0.23	0.121	0.232	**8.49**	**6.4**	**0.926**	0.1	**1.44**	NS	**2.16**	**0.781**	**3.27**	0.213	**2.64**
Mercury	0.0007	a	--	--	--	--	--	--	--	--	--	NS	--	--	--	--	--
Nickel	0.1	a	--	--	--	--	--	--	--	--	--	NS	--	--	--	--	--
Potassium	--		<5	<5	<5	<5	8.15	<5	<5	<5	<5	NS	<5	<5	<5	<5	<5
Sodium	20	a, b	<5	5.26	12.6	7.92	11.9	**47.4**	<5	10.4	14.2	NS	14.8	14.6	**91**	14	**81.6**
Selenium	0.01	a	--	--	--	--	--	--	--	--	--	NS	--	--	--	--	--
Silver	0.05	a	--	--	--	--	--	--	--	--	--	NS	--	--	--	--	--
Thallium	0.002	b	--	--	--	--	--	--	--	--	--	NS	--	--	--	--	--
Vanadium	--		--	--	--	--	--	--	--	--	--	NS	--	--	--	--	--
Zinc	5	b	--	--	--	--	--	--	--	--	--	NS	--	--	--	--	--

a - Part 703 Water Quality Standard (assumes Class GA)
b - Part 5 Drinking Water MCL
1.23 indicates contravention of standard.

-- not analyzed
NS - not sampled

OB = overburden well
BR = Bedrock well

Table 3
Contraventions of Surface Water Quality Standards
Field/ Inorganic Parameters - Quarter 2 2012

(No Contraventions)

Parameter	Units	NYS Water Quality Standard		Surface Water Sample Locations SW-1	SW-2	SW-3
Temperature	(deg. C)	--		23	23	21.3
EH	(mV)	--		97	155	156
pH	(Std Units)	6.5 - 8.5	a	8.48	6.92	7.04
Specific Conductance	(uS/cm)	--		329	290	288
Oxygen, Dissolved	mg/l	5	a	--	--	--
Color	(Units)	15	b	--	--	--
Turbidity	(NTU)	--		49	5.4	5.36
Alkalinity (as CaCO3)	(mg/l)	--		120	110	140
Hardness (as CaCO3)	(mg/l)	--		108	100	132
Total Dissolved Solids	(mg/l)	500	a	200	200	140
Chloride	(mg/l)	250	a, b	20.5	18.1	1
Sulfate	(mg/l)	250	a, b	<5	5.82	5.82
Bromide	(mg/l)	--		<8	<8	<8
Boron, tot	(mg/l)	10	a	--	--	--
Nitrate (As N)	(mg/l)	10	a, b	0.281	0.241	0.055
Ammonia (As N)	(mg/l)	2	a	<0.5	<0.5	<0.5
TKN (as N)	(mg/l)	--		<0.5	<0.5	<0.5
COD	(mg/l)	--		<20	<20	<20
BOD	(mg/l)	--		<4	<4	<4
TOC	(mg/l)	--		<3	<3	<3
Phenolics, Total	(mg/l)	0.001	a	<0.005	<0.005	<0.005
Cyanide	(mg/l)	0.0052	a	--	--	--

-- not analyzed\
a - Part 703 Water Quality Standard (assumes Class A waters)
b - Part 5 Drinking Water MCL
1.23 indicates value exceeded standard

Table 4
Contraventions of Surface Water Quality Standards
Metals - Quarter 2 2012

Parameter	Units	NYS Water Quality Standard		Surface Water Sample Locations SW-1	SW-2	SW-3
Al	(mg/l)	0.1	a	--	--	--
Sb	(mg/l)	0.003	a	--	--	--
As	(mg/l)	0.05	a, b	--	--	--
Ba	(mg/l)	1	a	--	--	--
Be *	(mg/l)	0.004	a	--	--	--
Cd *	(mg/l)	0.0021	a	<0.005	<0.005	<0.005
Ca	(mg/l)	--		28	29.9	42.8
Cr *	(mg/l)	0.05	a, b	--	--	--
Cr+6	(mg/l)	0.011	a	--	--	--
Co	(mg/l)	0.005	a	--	--	--
Cu *	(mg/l)	0.009	a	--	--	--
Fe	(mg/l)	0.3		**1.87**	**0.302**	**0.646**
Pb *	(mg/l)	0.004	a	<0.003	<0.003	<0.003
Mg	(mg/l)	35	a	9.17	6.24	6
Mn	(mg/l)	0.3		**0.711**	0.156	0.269
Hg	(mg/l)	0.0007	a	--	--	--
Ni *	(mg/l)	0.052	a	--	--	--
K	(mg/l)	--		<5	<5	<5
Na	(mg/l)	20	b	16.6	12.3	<5
Se	(mg/l)	0.0046	a	--	--	--
Ag	(mg/l)	0.0001	a	--	--	--
Tl	(mg/l)	0.002	b	--	--	--
V	(mg/l)	0.014	a	--	--	--
Zn *	(mg/l)	0.083	a	--	--	--

-- not analyzed
a - Part 703 Water Quality Standard (assumes Class A waters)
b - Part 5 Drinking Water MCL
* assumes hardness = 100 mg/l
1.23 indicates value exceeded standard

Appendix A

Analytical Laboratory Results

Cortland County Towslee Landfill

Upstate Laboratories, Inc.

Shipping: 6034 Corporate Dr. * E. Syracuse, NY 13057-1017 * (315) 437-0255 * Fax (315) 437-1209
Mailing: Box 169 * Syracuse, NY 13206
Albany (518) 459-3134 * Binghamton (607) 239-4413 * Buffalo (716) 972-0371
Rochester (866) 437-0255 * New Jersey (908) 581-4285

Mr. Patrick Reidy
Cortland Co. Soil and Water Cons. Dist.
100 Grange Place
Room 202
Cortland, NY 13045
(607) 756-5991

Tuesday, June 26, 2012

RE: Analytical Report:
Towslee Landfill

Order No.: U1205636

Dear Mr. Patrick Reidy:

Upstate Laboratories, Inc. received 14 sample(s) on 5/30/2012 for the analyses presented in the following report.

All analytical results relate to the samples as received by the laboratory.

All analytical data conforms with standard approved methodologies and quality control. Our quality control narrative will be included should any anomalies occur.

We have included the Chain of Custody Record as part of your report. The NYS DOH requires that all samples received by the laboratory must have a Collection Date and Time, and a Relinquished By signature. You may need to reference this form for a more detailed explanation of your samples. Samples will be disposed of approximately one month from final report date.

Should you have any questions regarding these tests, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.
Anthony J. Scala
Anthony J. Scala
President/CEO

CC:
Encls: (ASP-A, rept, f.data on disk), invoice

Upstate Laboratories, Inc.

Shipping: 6034 Corporate Dr. * E. Syracuse, NY 13057-1017 * (315) 437-0255 * Fax (315) 437-1209
Mailing: Box 169 * Syracuse, NY 13206
Albany (518) 459-3134 * Binghamton (607) 239-4413 * Buffalo (716) 972-0371
Rochester (866) 437-0255 * New Jersey (908) 581-4285

Mr. Patrick Reidy
Cortland Co. Soil and Water Cons. Dist.
100 Grange Place
Room 202
Cortland, New York 13045

July 3, 2012

RE: Towslee Landfill, Cortlandville, New York,
Samples Collected May 22, 23 and 30, 2012
Case Narrative for ULI SDG Number COR62, Workorder #U1205636

The following is a New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP) Category A case narrative for the above referenced project. The test results were subject to an internal validation as described below:

Internal Validation

For each test, the chemist sorted the samples into batches of twenty samples or less and added quality control (QC) samples. The batches were analyzed by USEPA and NYSDEC approved test procedures (Table 1). During the course of the analyses the chemist compared the quality control test results to performance criteria and (if necessary) took corrective actions. At the end of the analysis, the data was assembled into data packages and submitted to the section supervisor for review and approval. On the cover of each data package the analyst described any anomaly that may have occurred and, if it did occur, why the data was still found acceptable. A summary of the comments on the cover sheet of each test from each laboratory follows:

Trace Metals

Test	Batch	Anomaly
Cd,Ca,Fe,Mg,Mn,K,Na	R73104	Criteria were satisfied.
Pb	R72506	Criteria were satisfied.

Wet Chemistry

Test	Batch	Anomaly
BOD	R72438	Criteria were satisfied.
	R72449	Criteria were satisfied.
	R72652	MB-72652 exhibited over 0.2 DO uptake. All other criteria were satisfied.
TDS	R72365	Criteria were satisfied.
	R72402	Criteria were satisfied.
	R72625	Criteria were satisfied.
COD	R72328	The ICV and several CCV recoveries for COD were above QC acceptance limits. All other criteria were satisfied.
	R72674	Criteria were satisfied.
	R72798	Criteria were satisfied.
	R72837	Criteria were satisfied.

The total number of pages in this Data Package is : 4 .

Wet Chemistry

Test	Batch	Anomaly
Nitrate-Nitrogen	R72346	Criteria were satisfied.
	R72348	Criteria were satisfied.
	R72539	Several CCV recoveries for Nitrate were slightly below QC acceptance limits. All other criteria were satisfied.
TKN	R72685	Criteria were satisfied.
	R72812	Criteria were satisfied.
	R72905	The CCV11 recovery for TKN was below QC acceptance limits. All other criteria were satisfied.
Alkalinity, Total	R72506	Criteria were satisfied.
	R72650	Total Alkalinity was detected at concentrations above the CRDL in several CCBs. All other criteria were satisfied.
Chloride	R72505	Criteria were satisfied.
	R72647	The ICV and several CCVs recoveries for Chloride were above QC acceptance limits. All other criteria were satisfied.
Ammonia-Nitrogen	R72685	Criteria were satisfied.
	R72753	Criteria were satisfied.
	R72815	Criteria were satisfied.
	R72905	Criteria were satisfied.
Phenols, Total	R72490	Criteria were satisfied.
	R72523	Criteria were satisfied.
	R72580	The CCV6 recovery for Total Phenols was below QC acceptance limits. All other criteria were satisfied.
Bromide	R72605	Criteria were satisfied.
	R72648	The MS recovery for Bromide was below QC acceptance limits for the MS performed on sample location Scale House. The ICV recovery for Bromide was above QC acceptance limits. The CRI2 and CRI4 recoveries for Bromide were below QC acceptance limits. All other criteria were satisfied.
	R72927	The CRI2, CRI3 and CRI4 recoveries for Bromide were outside QC acceptance limits. All other criteria were satisfied.

Wet Chemistry

Test	Batch	Anomaly
Sulfate	R72343	Criteria were satisfied.
	R72500	Criteria were satisfied.
	R72597	The CCV3 recovery for Sulfate was slightly below QC acceptance limits. All other criteria were satisfied.
TOC	R72509	Criteria were satisfied.
	R72579	Criteria were satisfied.
	R72724	Criteria were satisfied.

Should questions arise please do not hesitate to call the Environmental Project Coordinator (EPC) assigned to your job or myself.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and/or in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sincerely,
UPSTATE LABORATORIES, INC.

Anthony J. Scala

Anthony J Scala
Director

COR62A.doc

Table 1
Methodologies

The analyses were performed using test methods developed by the USEPA and reorganized by the NYSDEC in the Analytical Services Protocol (ASP). The specific method numbers are:

Parameter	Method	Reference
Cadmium	200.7	(1)
Calcium	200.7	(1)
Iron	200.7	(1)
Lead	200.8	(1)
Magnesium	200.7	(1)
Manganese	200.7	(1)
Potassium	200.7	(1)
Sodium	200.7	(1)
BOD	SM 5210B	(1)
Nitrate-Nitrogen	10-107-04-1C	(1)
Alkalinity, Total	310.2	(1)
Chloride	10-117-07-1A	(1)
COD	410.4	(1)
Ammonia-Nitrogen	10-107-06-1B	(1)
Sulfate	D516-90	(1)
TDS	SM 2540C	(1)
TKN	10-107-06-2	(1)
TOC	SM 5310B	(1)
Phenols	10-210-00-1A	(1)
Bromide	SM 4110B	(1)

Reference
1) New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP), 7/05 Revision

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	CD-1
Lab Order:	U1205636	**Collection Date:**	5/22/2012 10:05:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-001	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			Lab Code: **FIELD**			Analyst:
Conductivity	257	1.0		umhos/cm		5/22/2012 10:05:00 AM
Eh	137	-300		mV		5/22/2012 10:05:00 AM
pH	7.53	2-12.5		SU		5/22/2012 10:05:00 AM
Temperature	19			°C		5/22/2012 10:05:00 AM
Turbidity	40.9	5.0		NTU		5/22/2012 10:05:00 AM
BROMIDE BY SM 18-21 4110B (00)			Lab Code: **BROMIDE_W**			Analyst: **MGP**
Bromide	ND	8.0		mg/L	10	6/1/2012
NOTES: The reporting limits were raised due to matrix interference.						
ICP METALS, TOTAL BY NYSDEC ASP 2005			Lab Code: **200.7WTASP**			Analyst: **LET**
[AqPrep Total Metals- EPA 3005A Prep Code: 200.7TPRASP Prep Date: 6/8/2012 3:22:04 PM Prep By: ARO]						
Cadmium	ND	5.00		µg/L	1	6/19/2012 3:21:59 PM
Calcium	41200	5000		µg/L	1	6/19/2012 3:21:59 PM
Iron	2340	60.0		µg/L	1	6/19/2012 3:21:59 PM
Magnesium	10500	5000		µg/L	1	6/19/2012 3:21:59 PM
Manganese	1300	10.0		µg/L	1	6/19/2012 3:21:59 PM
Potassium	ND	5000		µg/L	1	6/19/2012 3:21:59 PM
Sodium	ND	5000		µg/L	1	6/19/2012 3:21:59 PM
Hardness, Total(CaCO3)	146000	7000		µg/L	1	6/19/2012 3:21:59 PM
ASP TOTAL METALS BY ICP-MS			Lab Code: **200.8ASP**			Analyst: **LET**
[AqPrep ASP Total Metals: - EPA 3005A Prep Code: 200.8TPRASP Prep Date: 6/8/2012 3:22:41 PM Prep By: ARO]						
Lead	ND	3.00		µg/L	1	6/14/2012 12:15:43 PM
ALKALINITY BY EPA 310.2			Lab Code: **ALK_W_AUTO**			Analyst: **CAS**
Alkalinity, Total (As CaCO3)	120	10		mg/L	1	5/30/2012
BOD, 5 DAY BY SM 18-20 5210B (01)			Lab Code: **BOD**			Analyst: **DEB**
Biochemical Oxygen Demand	ND	4.0		mg/L	1	5/23/2012 7:08:00 AM

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	CD-1
Lab Order:	U1205636	**Collection Date:**	5/22/2012 10:05:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-001	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE WATERS BY LACHAT 10-117-07-1 A			Lab Code: **CL_W_AUTO**			Analyst: **CAS**
Chloride	1.20	1.00		mg/L	1	5/30/2012
COD BY EPA 410.4 REV. 2.0			Lab Code: **COD**			Analyst: **KLS**
Chemical Oxygen Demand	ND	20		mg/L	1	5/23/2012
NH3 BY LACHAT 10-107-06-1-J			Lab Code: **NH3_W_AUTO**			Analyst: **GWL**
[NH3 Prep for Waters by SM 18 4500-NH3 B	Prep Code: NH3_WPR		Prep Date: 6/5/2012 11:00:00 AM			Prep By: GWL]
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	6/5/2012
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C			Lab Code: **NO3_W**			Analyst: **SAB**
Nitrogen, Nitrate (as N)	0.068	0.050		mg/L	1	5/23/2012 9:33:00 AM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A			Lab Code: **PHENOL_W**			Analyst: **KLS**
[Prep for Phenol in Waters	Prep Code: PHENOL_WPR		Prep Date: 5/24/2012	Prep By: KLS]		
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/30/2012 1:46:00 PM
SULFATE BY ASTM D516-90, 02 & 07			Lab Code: **SULFATE_W**			Analyst: **MGP**
Sulfate	12.2	5.00		mg/L	1	5/24/2012
TDS BY SM 18-21 2540C (97)			Lab Code: **TDS**			Analyst: **NKA**
Residue, Dissolved (TDS)	380	25		mg/L	1	5/23/2012
TKN BY LACHAT 10-107-06-2			Lab Code: **TKN_W_AUTO**			Analyst: **GWL**
[TKN Prep for Waters by SM 18 4500-NH3 E	Prep Code: TKN_WPR		Prep Date: 6/5/2012 11:00:00 AM			Prep By: GWL]
Nitrogen, Kjeldahl, Total	ND	0.500		mg/L	1	6/5/2012
TOC BY SM 18-21 5310B (00)			Lab Code: **TOC_W**			Analyst: **DEB**
Organic Carbon, Total	ND	3.0		mg/L	1	5/30/2012

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	CD-1RA
Lab Order:	U1205636	**Collection Date:**	5/22/2012 10:02:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-002	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			Lab Code: **FIELD**			Analyst:
Conductivity	295	1.0		umhos/cm		5/22/2012 10:02:00 AM
Eh	142	-300		mV		5/22/2012 10:02:00 AM
pH	7.45	2-12.5		SU		5/22/2012 10:02:00 AM
Temperature	185			°C		5/22/2012 10:02:00 AM
Turbidity	8.26	5.0		NTU		5/22/2012 10:02:00 AM
BROMIDE BY SM 18-21 4110B (00)			Lab Code: **BROMIDE_W**			Analyst: **MGP**
Bromide	ND	0.8		mg/L	1	6/1/2012
ICP METALS, TOTAL BY NYSDEC ASP 2005			Lab Code: **200.7WTASP**			Analyst: **LET**
[AqPrep Total Metals- EPA 3005A Prep Code: 200.7TPRASP Prep Date: 6/8/2012 3:22:04 PM Prep By: ARO]						
Cadmium	ND	5.00		µg/L	1	6/19/2012 3:26:50 PM
Calcium	43100	5000		µg/L	1	6/19/2012 3:26:50 PM
Iron	509	60.0		µg/L	1	6/19/2012 3:26:50 PM
Magnesium	11500	5000		µg/L	1	6/19/2012 3:26:50 PM
Manganese	230	10.0		µg/L	1	6/19/2012 3:26:50 PM
Potassium	ND	5000		µg/L	1	6/19/2012 3:26:50 PM
Sodium	5260	5000		µg/L	1	6/19/2012 3:26:50 PM
Hardness, Total(CaCO3)	155000	7000		µg/L	1	6/19/2012 3:26:50 PM
ASP TOTAL METALS BY ICP-MS			Lab Code: **200.8ASP**			Analyst: **LET**
[AqPrep ASP Total Metals: - EPA 3005A Prep Code: 200.8TPRASP Prep Date: 6/8/2012 3:22:41 PM Prep By: ARO]						
Lead	ND	3.00		µg/L	1	6/14/2012 12:15:43 PM
ALKALINITY BY EPA 310.2			Lab Code: **ALK_W_AUTO**			Analyst: **CAS**
Alkalinity, Total (As CaCO3)	140	10		mg/L	1	5/30/2012
BOD, 5 DAY BY SM 18-20 5210B (01)			Lab Code: **BOD**			Analyst: **DEB**
Biochemical Oxygen Demand	ND	4.0		mg/L	1	5/23/2012 7:08:00 AM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A			Lab Code: **CL_W_AUTO**			Analyst: **CAS**

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	CD-1RA
Lab Order:	U1205636	**Collection Date:**	5/22/2012 10:02:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-002	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE WATERS BY LACHAT 10-117-07-1 A			Lab Code: **CL_W_AUTO**			Analyst: **CAS**
Chloride	1.46	1.00		mg/L	1	5/30/2012
COD BY EPA 410.4 REV. 2.0			Lab Code: **COD**			Analyst: **KLS**
Chemical Oxygen Demand	ND	20		mg/L	1	5/23/2012
NH3 BY LACHAT 10-107-06-1-J			Lab Code: **NH3_W_AUTO**			Analyst: **GWL**
[NH3 Prep for Waters by SM 18 4500-NH3 B	Prep Code: NH3_WPR		Prep Date: 6/5/2012 11:00:00 AM			Prep By: GWL]
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	6/5/2012
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C			Lab Code: **NO3_W**			Analyst: **SAB**
Nitrogen, Nitrate (as N)	ND	0.050		mg/L	1	5/23/2012 9:33:00 AM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A			Lab Code: **PHENOL_W**			Analyst: **KLS**
[Prep for Phenol in Waters	Prep Code: PHENOL_WPR		Prep Date: 5/24/2012	Prep By: KLS]		
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/30/2012 1:46:00 PM
SULFATE BY ASTM D516-90, 02 & 07			Lab Code: **SULFATE_W**			Analyst: **MGP**
Sulfate	15.9	5.00		mg/L	1	5/24/2012
TDS BY SM 18-21 2540C (97)			Lab Code: **TDS**			Analyst: **NKA**
Residue, Dissolved (TDS)	310	25		mg/L	1	5/23/2012
TKN BY LACHAT 10-107-06-2			Lab Code: **TKN_W_AUTO**			Analyst: **GWL**
[TKN Prep for Waters by SM 18 4500-NH3 E	Prep Code: TKN_WPR		Prep Date: 6/5/2012 11:00:00 AM			Prep By: GWL]
Nitrogen, Kjeldahl, Total	ND	0.500		mg/L	1	6/5/2012
TOC BY SM 18-21 5310B (00)			Lab Code: **TOC_W**			Analyst: **DEB**
Organic Carbon, Total	ND	3.0		mg/L	1	5/30/2012

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-1A
Lab Order:	U1205636	**Collection Date:**	5/22/2012 11:10:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-003	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			Lab Code: **FIELD**			Analyst:
Conductivity	376	1.0		umhos/cm		5/22/2012 11:10:00 AM
Eh	163	-300		mV		5/22/2012 11:10:00 AM
pH	6.94	2-12.5		SU		5/22/2012 11:10:00 AM
Temperature	20.3			°C		5/22/2012 11:10:00 AM
Turbidity	26.5	5.0		NTU		5/22/2012 11:10:00 AM
BROMIDE BY SM 18-21 4110B (00)			Lab Code: **BROMIDE_W**			Analyst: **MGP**
Bromide	ND	8.0		mg/L	10	6/1/2012
NOTES: The reporting limits were raised due to matrix interference.						
ICP METALS, TOTAL BY NYSDEC ASP 2005			Lab Code: **200.7WTASP**			Analyst: **LET**
[AqPrep Total Metals- EPA 3005A Prep Code: 200.7TPRASP Prep Date: 6/8/2012 3:22:04 PM Prep By: ARO]						
Cadmium	ND	5.00		µg/L	1	6/19/2012 3:31:44 PM
Calcium	49400	5000		µg/L	1	6/19/2012 3:31:44 PM
Iron	1650	60.0		µg/L	1	6/19/2012 3:31:44 PM
Magnesium	12600	5000		µg/L	1	6/19/2012 3:31:44 PM
Manganese	121	10.0		µg/L	1	6/19/2012 3:31:44 PM
Potassium	ND	5000		µg/L	1	6/19/2012 3:31:44 PM
Sodium	12600	5000		µg/L	1	6/19/2012 3:31:44 PM
Hardness, Total(CaCO3)	175000	7000		µg/L	1	6/19/2012 3:31:44 PM
ASP TOTAL METALS BY ICP-MS			Lab Code: **200.8ASP**			Analyst: **LET**
[AqPrep ASP Total Metals: - EPA 3005A Prep Code: 200.8TPRASP Prep Date: 6/8/2012 3:22:41 PM Prep By: ARO]						
Lead	ND	3.00		µg/L	1	6/14/2012 12:15:43 PM
ALKALINITY BY EPA 310.2			Lab Code: **ALK_W_AUTO**			Analyst: **CAS**
Alkalinity, Total (As CaCO3)	140	10		mg/L	1	5/30/2012
BOD, 5 DAY BY SM 18-20 5210B (01)			Lab Code: **BOD**			Analyst: **DEB**
Biochemical Oxygen Demand	ND	4.0		mg/L	1	5/23/2012 7:08:00 AM

Approved By: PH **Date:** 6-26-12

Qualifiers:	#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
	**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-1A
Lab Order:	U1205636	**Collection Date:**	5/22/2012 11:10:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-003	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE WATERS BY LACHAT 10-117-07-1 A			Lab Code: **CL_W_AUTO**			Analyst: **CAS**
Chloride	33.1	1.00		mg/L	1	5/30/2012
COD BY EPA 410.4 REV. 2.0			Lab Code: **COD**			Analyst: **KLS**
Chemical Oxygen Demand	ND	20		mg/L	1	5/23/2012
NH3 BY LACHAT 10-107-06-1-J			Lab Code: **NH3_W_AUTO**			Analyst: **GWL**
[NH3 Prep for Waters by SM 18 4500-NH3 B	Prep Code: NH3_WPR		Prep Date: 6/5/2012 11:00:00 AM		Prep By: GWL]	
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	6/5/2012
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C			Lab Code: **NO3_W**			Analyst: **SAB**
Nitrogen, Nitrate (as N)	ND	0.050		mg/L	1	5/23/2012 9:33:00 AM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A			Lab Code: **PHENOL_W**			Analyst: **KLS**
[Prep for Phenol in Waters	Prep Code: PHENOL_WPR		Prep Date: 5/24/2012	Prep By: KLS]		
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/30/2012 1:46:00 PM
SULFATE BY ASTM D516-90, 02 & 07			Lab Code: **SULFATE_W**			Analyst: **MGP**
Sulfate	12.2	5.00		mg/L	1	5/24/2012
TDS BY SM 18-21 2540C (97)			Lab Code: **TDS**			Analyst: **NKA**
Residue, Dissolved (TDS)	450	25		mg/L	1	5/23/2012
TKN BY LACHAT 10-107-06-2			Lab Code: **TKN_W_AUTO**			Analyst: **GWL**
[TKN Prep for Waters by SM 18 4500-NH3 E	Prep Code: TKN_WPR		Prep Date: 6/5/2012 11:00:00 AM		Prep By: GWL]	
Nitrogen, Kjeldahl, Total	ND	0.500		mg/L	1	6/5/2012
TOC BY SM 18-21 5310B (00)			Lab Code: **TOC_W**			Analyst: **DEB**
Organic Carbon, Total	ND	3.0		mg/L	1	5/30/2012

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-1B
Lab Order:	U1205636	**Collection Date:**	5/22/2012 11:14:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-004	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			Lab Code: **FIELD**			Analyst:
Conductivity	243	1.0		umhos/cm		5/22/2012 11:14:00 AM
Eh	155	-300		mV		5/22/2012 11:14:00 AM
pH	7.19	2-12.5		SU		5/22/2012 11:14:00 AM
Temperature	21.2			°C		5/22/2012 11:14:00 AM
Turbidity	16.1	5.0		NTU		5/22/2012 11:14:00 AM
BROMIDE BY SM 18-21 4110B (00)			Lab Code: **BROMIDE_W**			Analyst: **MGP**
Bromide	ND	0.8		mg/L	1	6/1/2012
ICP METALS, TOTAL BY NYSDEC ASP 2005			Lab Code: **200.7WTASP**			Analyst: **LET**
[AqPrep Total Metals- EPA 3005A Prep Code: 200.7TPRASP Prep Date: 6/8/2012 3:22:04 PM Prep By: ARO]						
Cadmium	ND	5.00		µg/L	1	6/19/2012 3:36:35 PM
Calcium	30400	5000		µg/L	1	6/19/2012 3:36:35 PM
Iron	3200	60.0		µg/L	1	6/19/2012 3:36:35 PM
Magnesium	8660	5000		µg/L	1	6/19/2012 3:36:35 PM
Manganese	232	10.0		µg/L	1	6/19/2012 3:36:35 PM
Potassium	ND	5000		µg/L	1	6/19/2012 3:36:35 PM
Sodium	7920	5000		µg/L	1	6/19/2012 3:36:35 PM
Hardness, Total(CaCO3)	111000	7000		µg/L	1	6/19/2012 3:36:35 PM
ASP TOTAL METALS BY ICP-MS			Lab Code: **200.8ASP**			Analyst: **LET**
[AqPrep ASP Total Metals: - EPA 3005A Prep Code: 200.8TPRASP Prep Date: 6/8/2012 3:22:41 PM Prep By: ARO]						
Lead	4.23	3.00		µg/L	1	6/14/2012 12:15:43 PM
ALKALINITY BY EPA 310.2			Lab Code: **ALK_W_AUTO**			Analyst: **CAS**
Alkalinity, Total (As CaCO3)	100	10		mg/L	1	5/30/2012
BOD, 5 DAY BY SM 18-20 5210B (01)			Lab Code: **BOD**			Analyst: **DEB**
Biochemical Oxygen Demand	ND	4.0		mg/L	1	5/23/2012 7:08:00 AM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A			Lab Code: **CL_W_AUTO**			Analyst: **CAS**

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-1B
Lab Order:	U1205636	**Collection Date:**	5/22/2012 11:14:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-004	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE WATERS BY LACHAT 10-117-07-1 A			Lab Code: **CL_W_AUTO**			Analyst: **CAS**
Chloride	2.47	1.00		mg/L	1	5/30/2012
COD BY EPA 410.4 REV. 2.0			Lab Code: **COD**			Analyst: **KLS**
Chemical Oxygen Demand	ND	20		mg/L	1	5/23/2012
NH3 BY LACHAT 10-107-06-1-J			Lab Code: **NH3_W_AUTO**			Analyst: **GWL**
[NH3 Prep for Waters by SM 18 4500-NH3 B	Prep Code: NH3_WPR		Prep Date: 6/5/2012 11:00:00 AM			Prep By: GWL]
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	6/5/2012
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C			Lab Code: **NO3_W**			Analyst: **SAB**
Nitrogen, Nitrate (as N)	0.075	0.050		mg/L	1	5/23/2012 9:33:00 AM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A			Lab Code: **PHENOL_W**			Analyst: **KLS**
[Prep for Phenol in Waters	Prep Code: PHENOL_WPR		Prep Date: 5/24/2012	Prep By: KLS]		
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/30/2012 1:46:00 PM
SULFATE BY ASTM D516-90, 02 & 07			Lab Code: **SULFATE_W**			Analyst: **MGP**
Sulfate	ND	5.00		mg/L	1	5/24/2012
TDS BY SM 18-21 2540C (97)			Lab Code: **TDS**			Analyst: **NKA**
Residue, Dissolved (TDS)	340	25		mg/L	1	5/23/2012
TKN BY LACHAT 10-107-06-2			Lab Code: **TKN_W_AUTO**			Analyst: **GWL**
[TKN Prep for Waters by SM 18 4500-NH3 E	Prep Code: TKN_WPR		Prep Date: 6/5/2012 11:00:00 AM			Prep By: GWL]
Nitrogen, Kjeldahl, Total	ND	0.500		mg/L	1	6/5/2012
TOC BY SM 18-21 5310B (00)			Lab Code: **TOC_W**			Analyst: **DEB**
Organic Carbon, Total	ND	3.0		mg/L	1	5/30/2012

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-3A
Lab Order:	U1205636	**Collection Date:**	5/22/2012 10:54:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-005	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			Lab Code: **FIELD**			Analyst:
Conductivity	340	1.0		umhos/cm		5/22/2012 10:54:00 AM
Eh	153	-300		mV		5/22/2012 10:54:00 AM
pH	7.07	2-12.5		SU		5/22/2012 10:54:00 AM
Temperature	20			°C		5/22/2012 10:54:00 AM
Turbidity	41.7	5.0		NTU		5/22/2012 10:54:00 AM
BROMIDE BY SM 18-21 4110B (00)			Lab Code: **BROMIDE_W**			Analyst: **MGP**
Bromide	ND	8.0		mg/L	10	6/1/2012
NOTES: The reporting limits were raised due to matrix interference.						
ICP METALS, TOTAL BY NYSDEC ASP 2005			Lab Code: **200.7WTASP**			Analyst: **LET**
[AqPrep Total Metals- EPA 3005A Prep Code: 200.7TPRASP Prep Date: 6/8/2012 3:22:04 PM Prep By: ARO]						
Cadmium	ND	5.00		µg/L	1	6/19/2012 3:41:27 PM
Calcium	43600	5000		µg/L	1	6/19/2012 3:41:27 PM
Iron	451	60.0		µg/L	1	6/19/2012 3:41:27 PM
Magnesium	9020	5000		µg/L	1	6/19/2012 3:41:27 PM
Manganese	926	10.0		µg/L	1	6/19/2012 3:41:27 PM
Potassium	ND	5000		µg/L	1	6/19/2012 3:41:27 PM
Sodium	ND	5000		µg/L	1	6/19/2012 3:41:27 PM
Hardness, Total(CaCO3)	146000	7000		µg/L	1	6/19/2012 3:41:27 PM
ASP TOTAL METALS BY ICP-MS			Lab Code: **200.8ASP**			Analyst: **LET**
[AqPrep ASP Total Metals: - EPA 3005A Prep Code: 200.8TPRASP Prep Date: 6/8/2012 3:22:41 PM Prep By: ARO]						
Lead	ND	3.00		µg/L	1	6/14/2012 12:15:43 PM
ALKALINITY BY EPA 310.2			Lab Code: **ALK_W_AUTO**			Analyst: **CAS**
Alkalinity, Total (As CaCO3)	160	10		mg/L	1	5/30/2012
BOD, 5 DAY BY SM 18-20 5210B (01)			Lab Code: **BOD**			Analyst: **DEB**
Biochemical Oxygen Demand	ND	4.0		mg/L	1	5/23/2012 7:08:00 AM

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-3A
Lab Order:	U1205636	**Collection Date:**	5/22/2012 10:54:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-005	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE WATERS BY LACHAT 10-117-07-1 A			Lab Code: **CL_W_AUTO**			Analyst: **CAS**
Chloride	1.59	1.00		mg/L	1	5/30/2012
COD BY EPA 410.4 REV. 2.0			Lab Code: **COD**			Analyst: **KLS**
Chemical Oxygen Demand	ND	20		mg/L	1	5/23/2012
NH3 BY LACHAT 10-107-06-1-J			Lab Code: **NH3_W_AUTO**			Analyst: **GWL**
[NH3 Prep for Waters by SM 18 4500-NH3 B	Prep Code: NH3_WPR		Prep Date: 6/5/2012 11:00:00 AM			Prep By: GWL]
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	6/5/2012
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C			Lab Code: **NO3_W**			Analyst: **SAB**
Nitrogen, Nitrate (as N)	ND	0.050		mg/L	1	5/23/2012 9:33:00 AM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A			Lab Code: **PHENOL_W**			Analyst: **KLS**
[Prep for Phenol in Waters	Prep Code: PHENOL_WPR		Prep Date: 5/26/2012	Prep By: KLS]		
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/30/2012 10:46:00 AM
SULFATE BY ASTM D516-90, 02 & 07			Lab Code: **SULFATE_W**			Analyst: **MGP**
Sulfate	ND	5.00		mg/L	1	5/24/2012
TDS BY SM 18-21 2540C (97)			Lab Code: **TDS**			Analyst: **NKA**
Residue, Dissolved (TDS)	240	25		mg/L	1	5/23/2012
TKN BY LACHAT 10-107-06-2			Lab Code: **TKN_W_AUTO**			Analyst: **GWL**
[TKN Prep for Waters by SM 18 4500-NH3 E	Prep Code: TKN_WPR		Prep Date: 6/5/2012 11:00:00 AM			Prep By: GWL]
Nitrogen, Kjeldahl, Total	ND	0.500		mg/L	1	6/5/2012
TOC BY SM 18-21 5310B (00)			Lab Code: **TOC_W**			Analyst: **DEB**
Organic Carbon, Total	ND	3.0		mg/L	1	5/30/2012

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-3B
Lab Order:	U1205636	**Collection Date:**	5/22/2012 10:57:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-006	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			Lab Code: **FIELD**			Analyst:
Conductivity	479	1.0		umhos/cm		5/22/2012 10:57:00 AM
Eh	170	-300		mV		5/22/2012 10:57:00 AM
pH	6.61	2-12.5		SU		5/22/2012 10:57:00 AM
Temperature	18.3			°C		5/22/2012 10:57:00 AM
Turbidity	2.51	5.0		NTU		5/22/2012 10:57:00 AM
BROMIDE BY SM 18-21 4110B (00)			Lab Code: **BROMIDE_W**			Analyst: **MGP**
Bromide	ND	0.8		mg/L	1	6/1/2012
ICP METALS, TOTAL BY NYSDEC ASP 2005			Lab Code: **200.7WTASP**			Analyst: **LET**
[AqPrep Total Metals- EPA 3005A Prep Code: 200.7TPRASP Prep Date: 6/8/2012 3:22:04 PM Prep By: ARO]						
Cadmium	ND	5.00		µg/L	1	6/19/2012 3:58:48 PM
Calcium	66600	5000		µg/L	1	6/19/2012 3:58:48 PM
Iron	94.5	60.0		µg/L	1	6/19/2012 3:58:48 PM
Magnesium	22400	5000		µg/L	1	6/19/2012 3:58:48 PM
Manganese	100	10.0		µg/L	1	6/19/2012 3:58:48 PM
Potassium	ND	5000		µg/L	1	6/19/2012 3:58:48 PM
Sodium	10400	5000		µg/L	1	6/19/2012 3:58:48 PM
Hardness, Total(CaCO3)	259000	7000		µg/L	1	6/19/2012 3:58:48 PM
ASP TOTAL METALS BY ICP-MS			Lab Code: **200.8ASP**			Analyst: **LET**
[AqPrep ASP Total Metals: - EPA 3005A Prep Code: 200.8TPRASP Prep Date: 6/8/2012 3:22:41 PM Prep By: ARO]						
Lead	ND	3.00		µg/L	1	6/14/2012 12:15:43 PM
ALKALINITY BY EPA 310.2			Lab Code: **ALK_W_AUTO**			Analyst: **CAS**
Alkalinity, Total (As CaCO3)	210	10		mg/L	1	5/30/2012
BOD, 5 DAY BY SM 18-20 5210B (01)			Lab Code: **BOD**			Analyst: **DEB**
Biochemical Oxygen Demand	ND	4.0		mg/L	1	5/23/2012 7:08:00 AM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A			Lab Code: **CL_W_AUTO**			Analyst: **CAS**

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-3B
Lab Order:	U1205636	**Collection Date:**	5/22/2012 10:57:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-006	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE WATERS BY LACHAT 10-117-07-1 A			Lab Code: **CL_W_AUTO**			Analyst: **CAS**
Chloride	23.4	1.00		mg/L	1	5/30/2012
COD BY EPA 410.4 REV. 2.0			Lab Code: **COD**			Analyst: **KLS**
Chemical Oxygen Demand	ND	20		mg/L	1	5/23/2012
NH3 BY LACHAT 10-107-06-1-J			Lab Code: **NH3_W_AUTO**			Analyst: **GWL**
[NH3 Prep for Waters by SM 18 4500-NH3 B	Prep Code: NH3_WPR		Prep Date: 6/5/2012 11:00:00 AM			Prep By: GWL]
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	6/5/2012
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C			Lab Code: **NO3_W**			Analyst: **SAB**
Nitrogen, Nitrate (as N)	0.070	0.050		mg/L	1	5/23/2012 9:33:00 AM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A			Lab Code: **PHENOL_W**			Analyst: **KLS**
[Prep for Phenol in Waters	Prep Code: PHENOL_WPR		Prep Date: 5/26/2012	Prep By: KLS]		
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/30/2012 10:46:00 AM
SULFATE BY ASTM D516-90, 02 & 07			Lab Code: **SULFATE_W**			Analyst: **MGP**
Sulfate	7.70	5.00		mg/L	1	5/24/2012
TDS BY SM 18-21 2540C (97)			Lab Code: **TDS**			Analyst: **NKA**
Residue, Dissolved (TDS)	300	25		mg/L	1	5/23/2012
TKN BY LACHAT 10-107-06-2			Lab Code: **TKN_W_AUTO**			Analyst: **GWL**
[TKN Prep for Waters by SM 18 4500-NH3 E	Prep Code: TKN_WPR		Prep Date: 6/5/2012 11:00:00 AM			Prep By: GWL]
Nitrogen, Kjeldahl, Total	ND	0.500		mg/L	1	6/5/2012
TOC BY SM 18-21 5310B (00)			Lab Code: **TOC_W**			Analyst: **DEB**
Organic Carbon, Total	ND	3.0		mg/L	1	5/30/2012

Approved By: DH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-4A
Lab Order:	U1205636	**Collection Date:**	5/22/2012 10:31:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-007	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			Lab Code: **FIELD**			Analyst:
Conductivity	714	1.0		umhos/cm		5/22/2012 10:31:00 AM
Eh	160	-300		mV		5/22/2012 10:31:00 AM
pH	6.83	2-12.5		SU		5/22/2012 10:31:00 AM
Temperature	15.8			°C		5/22/2012 10:31:00 AM
Turbidity	7.45	5.0		NTU		5/22/2012 10:31:00 AM
BROMIDE BY SM 18-21 4110B (00)			Lab Code: **BROMIDE_W**			Analyst: **MGP**
Bromide	ND	8.0		mg/L	10	6/1/2012
NOTES: The reporting limits were raised due to matrix interference.						
ICP METALS, TOTAL BY NYSDEC ASP 2005			Lab Code: **200.7WTASP**			Analyst: **LET**
[AqPrep Total Metals- EPA 3005A Prep Code: 200.7TPRASP Prep Date: 6/8/2012 3:22:04 PM Prep By: ARO]						
Cadmium	ND	5.00		µg/L	1	6/19/2012 4:05:41 PM
Calcium	110000	5000		µg/L	1	6/19/2012 4:05:41 PM
Iron	146	60.0		µg/L	1	6/19/2012 4:05:41 PM
Magnesium	26500	5000		µg/L	1	6/19/2012 4:05:41 PM
Manganese	1440	10.0		µg/L	1	6/19/2012 4:05:41 PM
Potassium	ND	5000		µg/L	1	6/19/2012 4:05:41 PM
Sodium	14200	5000		µg/L	1	6/19/2012 4:05:41 PM
Hardness, Total(CaCO3)	384000	7000		µg/L	1	6/19/2012 4:05:41 PM
ASP TOTAL METALS BY ICP-MS			Lab Code: **200.8ASP**			Analyst: **LET**
[AqPrep ASP Total Metals: - EPA 3005A Prep Code: 200.8TPRASP Prep Date: 6/8/2012 3:22:41 PM Prep By: ARO]						
Lead	ND	3.00		µg/L	1	6/14/2012 12:15:43 PM
ALKALINITY BY EPA 310.2			Lab Code: **ALK_W_AUTO**			Analyst: **CAS**
Alkalinity, Total (As CaCO3)	350	10		mg/L	1	5/30/2012
BOD, 5 DAY BY SM 18-20 5210B (01)			Lab Code: **BOD**			Analyst: **DEB**
Biochemical Oxygen Demand	ND	4.0		mg/L	1	5/23/2012 7:08:00 AM

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-4A
Lab Order:	U1205636	**Collection Date:**	5/22/2012 10:31:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-007	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE WATERS BY LACHAT 10-117-07-1 A			Lab Code: **CL_W_AUTO**			Analyst: **CAS**
Chloride	22.3	1.00		mg/L	1	5/30/2012
COD BY EPA 410.4 REV. 2.0			Lab Code: **COD**			Analyst: **KLS**
Chemical Oxygen Demand	ND	20		mg/L	1	5/23/2012
NH3 BY LACHAT 10-107-06-1-J			Lab Code: **NH3_W_AUTO**			Analyst: **GWL**
[NH3 Prep for Waters by SM 18 4500-NH3 B	Prep Code: NH3_WPR		Prep Date: 6/5/2012 11:00:00 AM			Prep By: GWL]
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	6/5/2012
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C			Lab Code: **NO3_W**			Analyst: **SAB**
Nitrogen, Nitrate (as N)	ND	0.050		mg/L	1	5/23/2012 9:33:00 AM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A			Lab Code: **PHENOL_W**			Analyst: **KLS**
[Prep for Phenol in Waters	Prep Code: PHENOL_WPR		Prep Date: 5/26/2012	Prep By: KLS]		
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/30/2012 10:46:00 AM
SULFATE BY ASTM D516-90, 02 & 07			Lab Code: **SULFATE_W**			Analyst: **MGP**
Sulfate	6.50	5.00		mg/L	1	5/24/2012
TDS BY SM 18-21 2540C (97)			Lab Code: **TDS**			Analyst: **NKA**
Residue, Dissolved (TDS)	490	25		mg/L	1	5/23/2012
TKN BY LACHAT 10-107-06-2			Lab Code: **TKN_W_AUTO**			Analyst: **GWL**
[TKN Prep for Waters by SM 18 4500-NH3 E	Prep Code: TKN_WPR		Prep Date: 6/5/2012 11:00:00 AM			Prep By: GWL]
Nitrogen, Kjeldahl, Total	ND	0.500		mg/L	1	6/5/2012
TOC BY SM 18-21 5310B (00)			Lab Code: **TOC_W**			Analyst: **DEB**
Organic Carbon, Total	ND	3.0		mg/L	1	5/30/2012

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-6A
Lab Order:	U1205636	**Collection Date:**	5/22/2012 9:39:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-008	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			Lab Code: **FIELD**			Analyst:
Conductivity	408	1.0		umhos/cm		5/22/2012 9:39:00 AM
Eh	133	-300		mV		5/22/2012 9:39:00 AM
pH	7.35	2-12.5		SU		5/22/2012 9:39:00 AM
Temperature	18.9			°C		5/22/2012 9:39:00 AM
Turbidity	241	5.0		NTU		5/22/2012 9:39:00 AM
BROMIDE BY SM 18-21 4110B (00)			Lab Code: **BROMIDE_W**			Analyst: **MGP**
Bromide	ND	8.0		mg/L	10	6/1/2012
NOTES: The reporting limits were raised due to matrix interference.						
ICP METALS, TOTAL BY NYSDEC ASP 2005			Lab Code: **200.7WTASP**			Analyst: **LET**
[AqPrep Total Metals- EPA 3005A Prep Code: 200.7TPRASP Prep Date: 6/8/2012 3:22:04 PM Prep By: ARO]						
Cadmium	ND	5.00		µg/L	1	6/19/2012 4:12:35 PM
Calcium	50900	5000		µg/L	1	6/19/2012 4:12:35 PM
Iron	980	60.0		µg/L	1	6/19/2012 4:12:35 PM
Magnesium	10300	5000		µg/L	1	6/19/2012 4:12:35 PM
Manganese	2160	10.0		µg/L	1	6/19/2012 4:12:35 PM
Potassium	ND	5000		µg/L	1	6/19/2012 4:12:35 PM
Sodium	14800	5000		µg/L	1	6/19/2012 4:12:35 PM
Hardness, Total(CaCO3)	169000	7000		µg/L	1	6/19/2012 4:12:35 PM
ASP TOTAL METALS BY ICP-MS			Lab Code: **200.8ASP**			Analyst: **LET**
[AqPrep ASP Total Metals: - EPA 3005A Prep Code: 200.8TPRASP Prep Date: 6/8/2012 3:22:41 PM Prep By: ARO]						
Lead	ND	3.00		µg/L	1	6/14/2012 12:15:43 PM
ICP METALS, DISSOLVED BY NYSDEC ASP 2005			Lab Code: **200.7WDASP**			Analyst: **LET**
[AqPrep Dissolved Metals- EPA 3005A Prep Code: 200.7DPRASP Prep Date: 6/8/2012 3:53:11 PM Prep By: ARO]						
Cadmium	ND	5.00		µg/L	1	6/19/2012 2:53:12 PM
Calcium	45400	5000		µg/L	1	6/19/2012 2:53:12 PM
Iron	149	60.0		µg/L	1	6/19/2012 2:53:12 PM
Magnesium	9330	5000		µg/L	1	6/19/2012 2:53:12 PM
Manganese	213	10.0		µg/L	1	6/19/2012 2:53:12 PM
Potassium	ND	5000		µg/L	1	6/19/2012 2:53:12 PM

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-6A
Lab Order:	U1205636	**Collection Date:**	5/22/2012 9:39:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-008	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED BY NYSDEC ASP 2005			Lab Code: **200.7WDASP**			Analyst: **LET**
[AqPrep Dissolved Metals- EPA 3005A Prep Code: 200.7DPRASP Prep Date: 6/8/2012 3:53:11 PM Prep By: ARO]						
Sodium	14000	5000		µg/L	1	6/19/2012 2:53:12 PM
NOTES:						
Dissolved Metals filtered in Laboratory on 6/8/12 at 2:30pm.						
ICPMS METALS, DISSOLVED BY NYSDEC ASP 2005			Lab Code: **200.8_D_ASP**			Analyst: **LET**
[AqPrep ASP Dissolved Metals: - EPA 3005A Prep Code: 200.8DPRASP Prep Date: 6/8/2012 3:53:38 PM Prep By: ARO]						
Lead	ND	3.00		µg/L	1	6/14/2012 12:15:43 PM
ALKALINITY BY EPA 310.2			Lab Code: **ALK_W_AUTO**			Analyst: **CAS**
Alkalinity, Total (As CaCO3)	130	10		mg/L	1	5/30/2012
BOD, 5 DAY BY SM 18-20 5210B (01)			Lab Code: **BOD**			Analyst: **DEB**
Biochemical Oxygen Demand	ND	4.0		mg/L	1	5/23/2012 7:08:00 AM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A			Lab Code: **CL_W_AUTO**			Analyst: **CAS**
Chloride	20.0	1.00		mg/L	1	5/30/2012
COD BY EPA 410.4 REV. 2.0			Lab Code: **COD**			Analyst: **KLS**
Chemical Oxygen Demand	ND	20		mg/L	1	5/23/2012
NH3 BY LACHAT 10-107-06-1-J			Lab Code: **NH3_W_AUTO**			Analyst: **GWL**
[NH3 Prep for Waters by SM 18 4500-NH3 B Prep Code: NH3_WPR Prep Date: 6/6/2012 1:30:00 PM Prep By: GWL]						
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	6/7/2012
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C			Lab Code: **NO3_W**			Analyst: **SAB**
Nitrogen, Nitrate (as N)	0.090	0.050		mg/L	1	5/23/2012 9:33:00 AM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A			Lab Code: **PHENOL_W**			Analyst: **KLS**
[Prep for Phenol in Waters Prep Code: PHENOL_WPR Prep Date: 5/26/2012 Prep By: KLS]						

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-6A
Lab Order:	U1205636	**Collection Date:**	5/22/2012 9:39:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-008	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A			Lab Code: **PHENOL_W**			Analyst: **KLS**
[Prep for Phenol in Waters Prep Code: PHENOL_WPR Prep Date: 5/26/2012 Prep By: KLS]						
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/30/2012 10:46:00 AM
SULFATE BY ASTM D516-90, 02 & 07			Lab Code: **SULFATE_W**			Analyst: **MGP**
Sulfate	13.6	5.00		mg/L	1	5/24/2012
TDS BY SM 18-21 2540C (97)			Lab Code: **TDS**			Analyst: **NKA**
Residue, Dissolved (TDS)	310	25		mg/L	1	5/23/2012
TKN BY LACHAT 10-107-06-2			Lab Code: **TKN_W_AUTO**			Analyst: **GWL**
[TKN Prep for Waters by SM 18 4500-NH3 E Prep Code: TKN_WPR Prep Date: 6/5/2012 11:00:00 AM Prep By: GWL]						
Nitrogen, Kjeldahl, Total	1.89	0.500		mg/L	1	6/5/2012
TOC BY SM 18-21 5310B (00)			Lab Code: **TOC_W**			Analyst: **DEB**
Organic Carbon, Total	ND	3.0		mg/L	1	5/30/2012

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-6B
Lab Order:	U1205636	**Collection Date:**	5/22/2012 9:42:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-009	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			Lab Code: **FIELD**			Analyst:
Conductivity	363	1.0		umhos/cm		5/22/2012 9:42:00 AM
Eh	139	-300		mV		5/22/2012 9:42:00 AM
pH	7.29	2-12.5		SU		5/22/2012 9:42:00 AM
Temperature	17.7			°C		5/22/2012 9:42:00 AM
Turbidity	17.1	5.0		NTU		5/22/2012 9:42:00 AM
BROMIDE BY SM 18-21 4110B (00)			Lab Code: **BROMIDE_W**			Analyst: **MGP**
Bromide	ND	80		mg/L	100	6/1/2012
NOTES: The reporting limits were raised due to matrix interference.						
ICP METALS, TOTAL BY NYSDEC ASP 2005			Lab Code: **200.7WTASP**			Analyst: **LET**
[AqPrep Total Metals- EPA 3005A Prep Code: 200.7TPRASP Prep Date: 6/8/2012 3:22:04 PM Prep By: ARO]						
Cadmium	ND	5.00		µg/L	1	6/19/2012 4:20:03 PM
Calcium	39800	5000		µg/L	1	6/19/2012 4:20:03 PM
Iron	7380	60.0		µg/L	1	6/19/2012 4:20:03 PM
Magnesium	12400	5000		µg/L	1	6/19/2012 4:20:03 PM
Manganese	781	10.0		µg/L	1	6/19/2012 4:20:03 PM
Potassium	ND	5000		µg/L	1	6/19/2012 4:20:03 PM
Sodium	14600	5000		µg/L	1	6/19/2012 4:20:03 PM
Hardness, Total(CaCO3)	150000	7000		µg/L	1	6/19/2012 4:20:03 PM
ASP TOTAL METALS BY ICP-MS			Lab Code: **200.8ASP**			Analyst: **LET**
[AqPrep ASP Total Metals: - EPA 3005A Prep Code: 200.8TPRASP Prep Date: 6/8/2012 3:22:41 PM Prep By: ARO]						
Lead	ND	15.0		µg/L	5	6/14/2012 12:15:43 PM
NOTES: The reporting limits were raised due to matrix interference.						
ALKALINITY BY EPA 310.2			Lab Code: **ALK_W_AUTO**			Analyst: **CAS**
Alkalinity, Total (As CaCO3)	190	10		mg/L	1	5/30/2012
BOD, 5 DAY BY SM 18-20 5210B (01)			Lab Code: **BOD**			Analyst: **DEB**

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-6B
Lab Order:	U1205636	**Collection Date:**	5/22/2012 9:42:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-009	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
BOD, 5 DAY BY SM 18-20 5210B (01)			Lab Code: **BOD**			Analyst: **DEB**
Biochemical Oxygen Demand	ND	4.0		mg/L	1	5/23/2012 7:08:00 AM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A			Lab Code: **CL_W_AUTO**			Analyst: **CAS**
Chloride	10.1	1.00		mg/L	1	5/30/2012
COD BY EPA 410.4 REV. 2.0			Lab Code: **COD**			Analyst: **KLS**
Chemical Oxygen Demand	ND	20		mg/L	1	5/23/2012
NH3 BY LACHAT 10-107-06-1-J			Lab Code: **NH3_W_AUTO**			Analyst: **GWL**
[NH3 Prep for Waters by SM 18 4500-NH3 B	Prep Code: NH3_WPR		Prep Date: 6/5/2012 11:00:00 AM			Prep By: GWL]
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	6/5/2012
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C			Lab Code: **NO3_W**			Analyst: **SAB**
Nitrogen, Nitrate (as N)	0.081	0.050		mg/L	1	5/23/2012 9:33:00 AM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A			Lab Code: **PHENOL_W**			Analyst: **KLS**
[Prep for Phenol in Waters	Prep Code: PHENOL_WPR		Prep Date: 5/26/2012	Prep By: KLS]		
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/30/2012 10:46:00 AM
SULFATE BY ASTM D516-90, 02 & 07			Lab Code: **SULFATE_W**			Analyst: **MGP**
Sulfate	17.9	5.00		mg/L	1	5/24/2012
TDS BY SM 18-21 2540C (97)			Lab Code: **TDS**			Analyst: **NKA**
Residue, Dissolved (TDS)	240	25		mg/L	1	5/23/2012
TKN BY LACHAT 10-107-06-2			Lab Code: **TKN_W_AUTO**			Analyst: **GWL**
[TKN Prep for Waters by SM 18 4500-NH3 E	Prep Code: TKN_WPR		Prep Date: 6/5/2012 11:00:00 AM			Prep By: GWL]
Nitrogen, Kjeldahl, Total	ND	0.500		mg/L	1	6/5/2012

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-6B
Lab Order:	U1205636	**Collection Date:**	5/22/2012 9:42:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-009	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
TOC BY SM 18-21 5310B (00)			Lab Code: **TOC_W**			Analyst: **DEB**
Organic Carbon, Total	ND	3.0		mg/L	1	5/30/2012

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-7A
Lab Order:	U1205636	**Collection Date:**	5/22/2012 11:32:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-010	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			Lab Code: **FIELD**			Analyst:
Conductivity	1085	1.0		umhos/cm		5/22/2012 11:32:00 AM
Eh	184	-300		mV		5/22/2012 11:32:00 AM
pH	6.36	2-12.5		SU		5/22/2012 11:32:00 AM
Temperature	15.8			°C		5/22/2012 11:32:00 AM
Turbidity	>1000	5.0		NTU		5/22/2012 11:32:00 AM
BROMIDE BY SM 18-21 4110B (00)			Lab Code: **BROMIDE_W**			Analyst: **MGP**
Bromide	ND	80		mg/L	100	6/1/2012
NOTES: The reporting limits were raised due to matrix interference.						
ICP METALS, TOTAL BY NYSDEC ASP 2005			Lab Code: **200.7WTASP**			Analyst: **LET**
[AqPrep Total Metals- EPA 3005A Prep Code: 200.7TPRASP Prep Date: 6/8/2012 3:22:04 PM Prep By: ARO]						
Cadmium	ND	5.00		µg/L	1	6/19/2012 4:26:58 PM
Calcium	123000	5000		µg/L	1	6/19/2012 4:26:58 PM
Iron	2900	60.0		µg/L	1	6/19/2012 4:26:58 PM
Magnesium	34800	5000		µg/L	1	6/19/2012 4:26:58 PM
Manganese	3270	10.0		µg/L	1	6/19/2012 4:26:58 PM
Potassium	ND	5000		µg/L	1	6/19/2012 4:26:58 PM
Sodium	91000	5000		µg/L	1	6/19/2012 4:26:58 PM
Hardness, Total(CaCO3)	449000	7000		µg/L	1	6/19/2012 4:26:58 PM
ASP TOTAL METALS BY ICP-MS			Lab Code: **200.8ASP**			Analyst: **LET**
[AqPrep ASP Total Metals: - EPA 3005A Prep Code: 200.8TPRASP Prep Date: 6/8/2012 3:22:41 PM Prep By: ARO]						
Lead	3.28	3.00		µg/L	1	6/14/2012 12:15:43 PM
ICP METALS, DISSOLVED BY NYSDEC ASP 2005			Lab Code: **200.7WDASP**			Analyst: **LET**
[AqPrep Dissolved Metals- EPA 3005A Prep Code: 200.7DPRASP Prep Date: 6/8/2012 3:53:11 PM Prep By: ARO]						
Cadmium	ND	5.00		µg/L	1	6/19/2012 2:58:00 PM
Calcium	115000	5000		µg/L	1	6/19/2012 2:58:00 PM
Iron	ND	60.0		µg/L	1	6/19/2012 2:58:00 PM
Magnesium	32100	5000		µg/L	1	6/19/2012 2:58:00 PM
Manganese	2640	10.0		µg/L	1	6/19/2012 2:58:00 PM
Potassium	ND	5000		µg/L	1	6/19/2012 2:58:00 PM

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-7A
Lab Order:	U1205636	**Collection Date:**	5/22/2012 11:32:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-010	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS, DISSOLVED BY NYSDEC ASP 2005			Lab Code: **200.7WDASP**			Analyst: **LET**
[AqPrep Dissolved Metals- EPA 3005A Prep Code: 200.7DPRASP Prep Date: 6/8/2012 3:53:11 PM Prep By: ARO]						
Sodium	81600	5000		µg/L	1	6/19/2012 2:58:00 PM
NOTES:						
Dissolved Metals filtered in Laboratory on 6/8/12 at 2:30pm.						
ICPMS METALS, DISSOLVED BY NYSDEC ASP 2005			Lab Code: **200.8_D_ASP**			Analyst: **LET**
[AqPrep ASP Dissolved Metals: - EPA 3005A Prep Code: 200.8DPRASP Prep Date: 6/8/2012 3:53:38 PM Prep By: ARO]						
Lead	ND	3.00		µg/L	1	6/14/2012 12:15:43 PM
ALKALINITY BY EPA 310.2			Lab Code: **ALK_W_AUTO**			Analyst: **CAS**
Alkalinity, Total (As CaCO3)	520	10		mg/L	1	5/30/2012
BOD, 5 DAY BY SM 18-20 5210B (01)			Lab Code: **BOD**			Analyst: **DEB**
Biochemical Oxygen Demand	ND	4.0		mg/L	1	5/23/2012 7:08:00 AM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A			Lab Code: **CL_W_AUTO**			Analyst: **CAS**
Chloride	99.5	1.00		mg/L	1	5/30/2012
COD BY EPA 410.4 REV. 2.0			Lab Code: **COD**			Analyst: **KLS**
Chemical Oxygen Demand	22	20		mg/L	1	5/23/2012
NH3 BY LACHAT 10-107-06-1-J			Lab Code: **NH3_W_AUTO**			Analyst: **GWL**
[NH3 Prep for Waters by SM 18 4500-NH3 B Prep Code: NH3_WPR Prep Date: 6/5/2012 11:00:00 AM Prep By: GWL]						
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	6/5/2012
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C			Lab Code: **NO3_W**			Analyst: **SAB**
Nitrogen, Nitrate (as N)	ND	0.050		mg/L	1	5/23/2012 9:33:00 AM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A			Lab Code: **PHENOL_W**			Analyst: **KLS**
[Prep for Phenol in Waters Prep Code: PHENOL_WPR Prep Date: 5/26/2012 Prep By: KLS]						

Approved By: DH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-7A
Lab Order:	U1205636	**Collection Date:**	5/22/2012 11:32:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-010	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A			Lab Code: **PHENOL_W**			Analyst: **KLS**
[Prep for Phenol in Waters Prep Code: PHENOL_WPR Prep Date: 5/26/2012 Prep By: KLS]						
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/30/2012 10:46:00 AM
SULFATE BY ASTM D516-90, 02 & 07			Lab Code: **SULFATE_W**			Analyst: **MGP**
Sulfate	20.0	5.00		mg/L	1	5/24/2012
TDS BY SM 18-21 2540C (97)			Lab Code: **TDS**			Analyst: **NKA**
Residue, Dissolved (TDS)	630	25		mg/L	1	5/23/2012
TKN BY LACHAT 10-107-06-2			Lab Code: **TKN_W_AUTO**			Analyst: **GWL**
[TKN Prep for Waters by SM 18 4500-NH3 E Prep Code: TKN_WPR Prep Date: 6/5/2012 11:00:00 AM Prep By: GWL]						
Nitrogen, Kjeldahl, Total	ND	0.500		mg/L	1	6/5/2012
TOC BY SM 18-21 5310B (00)			Lab Code: **TOC_W**			Analyst: **DEB**
Organic Carbon, Total	7.3	3.0		mg/L	1	5/30/2012

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	Dupe MW-1B
Lab Order:	U1205636	**Collection Date:**	5/22/2012 11:14:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-011	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
BROMIDE BY SM 18-21 4110B (00)			Lab Code: **BROMIDE_W**			Analyst: **MGP**
Bromide	ND	8.0		mg/L	10	6/1/2012
NOTES: The reporting limits were raised due to matrix interference.						
ICP METALS, TOTAL BY NYSDEC ASP 2005			Lab Code: **200.7WTASP**			Analyst: **LET**
[AqPrep Total Metals- EPA 3005A Prep Code: 200.7TPRASP Prep Date: 6/8/2012 3:22:04 PM Prep By: ARO]						
Cadmium	ND	5.00		µg/L	1	6/19/2012 4:33:56 PM
Calcium	29900	5000		µg/L	1	6/19/2012 4:33:56 PM
Iron	289	60.0		µg/L	1	6/19/2012 4:33:56 PM
Magnesium	8260	5000		µg/L	1	6/19/2012 4:33:56 PM
Manganese	117	10.0		µg/L	1	6/19/2012 4:33:56 PM
Potassium	ND	5000		µg/L	1	6/19/2012 4:33:56 PM
Sodium	7950	5000		µg/L	1	6/19/2012 4:33:56 PM
Hardness, Total(CaCO3)	109000	7000		µg/L	1	6/19/2012 4:33:56 PM
ASP TOTAL METALS BY ICP-MS			Lab Code: **200.8ASP**			Analyst: **LET**
[AqPrep ASP Total Metals: - EPA 3005A Prep Code: 200.8TPRASP Prep Date: 6/8/2012 3:22:41 PM Prep By: ARO]						
Lead	ND	3.00		µg/L	1	6/14/2012 12:15:43 PM
ALKALINITY BY EPA 310.2			Lab Code: **ALK_W_AUTO**			Analyst: **CAS**
Alkalinity, Total (As CaCO3)	91	10		mg/L	1	5/30/2012
BOD, 5 DAY BY SM 18-20 5210B (01)			Lab Code: **BOD**			Analyst: **DEB**
Biochemical Oxygen Demand	ND	4.0		mg/L	1	5/23/2012 7:08:00 AM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A			Lab Code: **CL_W_AUTO**			Analyst: **CAS**
Chloride	2.73	1.00		mg/L	1	5/30/2012
COD BY EPA 410.4 REV. 2.0			Lab Code: **COD**			Analyst: **KLS**
Chemical Oxygen Demand	ND	20		mg/L	1	5/23/2012

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	Dupe MW-1B
Lab Order:	U1205636	**Collection Date:**	5/22/2012 11:14:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-011	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
NH3 BY LACHAT 10-107-06-1-J				Lab Code: **NH3_W_AUTO**		Analyst: **GWL**
[NH3 Prep for Waters by SM 18 4500-NH3 B	Prep Code: NH3_WPR			Prep Date: 6/5/2012 11:00:00 AM		Prep By: GWL]
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	6/5/2012
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C				Lab Code: **NO3_W**		Analyst: **SAB**
Nitrogen, Nitrate (as N)	ND	0.050		mg/L	1	5/23/2012 9:33:00 AM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A				Lab Code: **PHENOL_W**		Analyst: **KLS**
[Prep for Phenol in Waters	Prep Code: PHENOL_WPR			Prep Date: 5/26/2012	Prep By: KLS]	
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/30/2012 10:46:00 AM
SULFATE BY ASTM D516-90, 02 & 07				Lab Code: **SULFATE_W**		Analyst: **MGP**
Sulfate	6.40	5.00		mg/L	1	5/24/2012
TDS BY SM 18-21 2540C (97)				Lab Code: **TDS**		Analyst: **NKA**
Residue, Dissolved (TDS)	180	25		mg/L	1	5/23/2012
TKN BY LACHAT 10-107-06-2				Lab Code: **TKN_W_AUTO**		Analyst: **GWL**
[TKN Prep for Waters by SM 18 4500-NH3 E	Prep Code: TKN_WPR			Prep Date: 6/5/2012 11:00:00 AM		Prep By: GWL]
Nitrogen, Kjeldahl, Total	ND	0.500		mg/L	1	6/5/2012
TOC BY SM 18-21 5310B (00)				Lab Code: **TOC_W**		Analyst: **DEB**
Organic Carbon, Total	ND	3.0		mg/L	1	5/30/2012

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-2A
Lab Order:	U1205636	**Collection Date:**	5/23/2012 10:00:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-012	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			Lab Code: **FIELD**			Analyst:
Conductivity	515	1.0		umhos/cm		5/23/2012 10:00:00 AM
Eh	133	-300		mV		5/23/2012 10:00:00 AM
pH	6.72	2-12.5		SU		5/23/2012 10:00:00 AM
Temperature	18.9			°C		5/23/2012 10:00:00 AM
Turbidity	27.5	5.0		NTU		5/23/2012 10:00:00 AM
BROMIDE BY SM 18-21 4110B (00)			Lab Code: **BROMIDE_W**			Analyst: **MGP**
Bromide	ND	80		mg/L	100	6/4/2012
NOTES: The reporting limits were raised due to matrix interference.						
ICP METALS, TOTAL BY NYSDEC ASP 2005			Lab Code: **200.7WTASP**			Analyst: **LET**
[AqPrep Total Metals- EPA 3005A Prep Code: 200.7TPRASP Prep Date: 6/8/2012 3:22:04 PM Prep By: ARO]						
Cadmium	ND	5.00		µg/L	1	6/19/2012 4:38:52 PM
Calcium	59200	5000		µg/L	1	6/19/2012 4:38:52 PM
Iron	3150	60.0		µg/L	1	6/19/2012 4:38:52 PM
Magnesium	14400	5000		µg/L	1	6/19/2012 4:38:52 PM
Manganese	8490	10.0		µg/L	1	6/19/2012 4:38:52 PM
Potassium	8150	5000		µg/L	1	6/19/2012 4:38:52 PM
Sodium	11900	5000		µg/L	1	6/19/2012 4:38:52 PM
Hardness, Total(CaCO3)	207000	7000		µg/L	1	6/19/2012 4:38:52 PM
ASP TOTAL METALS BY ICP-MS			Lab Code: **200.8ASP**			Analyst: **LET**
[AqPrep ASP Total Metals: - EPA 3005A Prep Code: 200.8TPRASP Prep Date: 6/8/2012 3:22:41 PM Prep By: ARO]						
Lead	ND	3.00		µg/L	1	6/14/2012 12:15:43 PM
ALKALINITY BY EPA 310.2			Lab Code: **ALK_W_AUTO**			Analyst: **CAS**
Alkalinity, Total (As CaCO3)	250	10		mg/L	1	5/30/2012
BOD, 5 DAY BY SM 18-20 5210B (01)			Lab Code: **BOD**			Analyst: **JTT**
Biochemical Oxygen Demand	ND	4.0		mg/L	1	5/24/2012 7:10:00 AM

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-2A
Lab Order:	U1205636	**Collection Date:**	5/23/2012 10:00:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-012	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE WATERS BY LACHAT 10-117-07-1 A			Lab Code: **CL_W_AUTO**			Analyst: **CAS**
Chloride	11.6	1.00		mg/L	1	5/30/2012
COD BY EPA 410.4 REV. 2.0			Lab Code: **COD**			Analyst: **KLS**
Chemical Oxygen Demand	36	20		mg/L	1	6/5/2012
NH3 BY LACHAT 10-107-06-1-J			Lab Code: **NH3_W_AUTO**			Analyst: **GWL**
[NH3 Prep for Waters by SM 18 4500-NH3 B	Prep Code: NH3_WPR		Prep Date: 6/10/2012 10:00:00 AM			Prep By: GWL]
Nitrogen, Ammonia (As N)	5.90	0.500		mg/L	1	6/10/2012
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C			Lab Code: **NO3_W**			Analyst: **KLS**
Nitrogen, Nitrate (as N)	0.076	0.050		mg/L	1	5/23/2012 3:51:00 PM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A			Lab Code: **PHENOL_W**			Analyst: **KLS**
[Prep for Phenol in Waters	Prep Code: PHENOL_WPR		Prep Date: 5/26/2012	Prep By: KLS]		
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/30/2012 10:46:00 AM
SULFATE BY ASTM D516-90, 02 & 07			Lab Code: **SULFATE_W**			Analyst: **CAG**
Sulfate	8.79	5.00		mg/L	1	5/30/2012
TDS BY SM 18-21 2540C (97)			Lab Code: **TDS**			Analyst: **NKA**
Residue, Dissolved (TDS)	290	25		mg/L	1	5/24/2012
TKN BY LACHAT 10-107-06-2			Lab Code: **TKN_W_AUTO**			Analyst: **GWL**
[TKN Prep for Waters by SM 18 4500-NH3 E	Prep Code: TKN_WPR		Prep Date: 6/6/2012 2:30:00 PM			Prep By: GWL]
Nitrogen, Kjeldahl, Total	6.56	0.500		mg/L	1	6/7/2012
TOC BY SM 18-21 5310B (00)			Lab Code: **TOC_W**			Analyst: **DEB**
Organic Carbon, Total	5.5	3.0		mg/L	1	5/31/2012

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-2B
Lab Order:	U1205636	**Collection Date:**	5/23/2012 10:03:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-013	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			Lab Code: **FIELD**			Analyst:
Conductivity	1378	1.0		umhos/cm		5/23/2012 10:03:00 AM
Eh	161	-300		mV		5/23/2012 10:03:00 AM
pH	6.12	2-12.5		SU		5/23/2012 10:03:00 AM
Temperature	18.2			°C		5/23/2012 10:03:00 AM
Turbidity	5.44	5.0		NTU		5/23/2012 10:03:00 AM
BROMIDE BY SM 18-21 4110B (00)			Lab Code: **BROMIDE_W**			Analyst: **BY**
Bromide	ND	8.0		mg/L	10	6/12/2012
NOTES: The reporting limits were raised due to matrix interference.						
ICP METALS, TOTAL BY NYSDEC ASP 2005			Lab Code: **200.7WTASP**			Analyst: **LET**
[AqPrep Total Metals- EPA 3005A Prep Code: 200.7TPRASP Prep Date: 6/8/2012 3:22:04 PM Prep By: ARO]						
Cadmium	ND	5.00		µg/L	1	6/19/2012 4:45:58 PM
Calcium	184000	5000		µg/L	1	6/19/2012 4:45:58 PM
Iron	337	60.0		µg/L	1	6/19/2012 4:45:58 PM
Magnesium	44900	5000		µg/L	1	6/19/2012 4:45:58 PM
Manganese	6400	10.0		µg/L	1	6/19/2012 4:45:58 PM
Potassium	ND	5000		µg/L	1	6/19/2012 4:45:58 PM
Sodium	47400	5000		µg/L	1	6/19/2012 4:45:58 PM
Hardness, Total(CaCO3)	643000	7000		µg/L	1	6/19/2012 4:45:58 PM
ASP TOTAL METALS BY ICP-MS			Lab Code: **200.8ASP**			Analyst: **LET**
[AqPrep ASP Total Metals: - EPA 3005A Prep Code: 200.8TPRASP Prep Date: 6/8/2012 3:22:41 PM Prep By: ARO]						
Lead	ND	3.00		µg/L	1	6/14/2012 12:15:43 PM
ALKALINITY BY EPA 310.2			Lab Code: **ALK_W_AUTO**			Analyst: **CAS**
Alkalinity, Total (As CaCO3)	790	100		mg/L	10	5/30/2012
BOD, 5 DAY BY SM 18-20 5210B (01)			Lab Code: **BOD**			Analyst: **JTT**
Biochemical Oxygen Demand	ND	4.0		mg/L	1	5/24/2012 7:10:00 AM

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	MW-2B
Lab Order:	U1205636	**Collection Date:**	5/23/2012 10:03:00 AM
Project:	Towslee Landfill		
Lab ID:	U1205636-013	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE WATERS BY LACHAT 10-117-07-1 A			Lab Code: **CL_W_AUTO**			Analyst: **CAS**
Chloride	124	1.00		mg/L	1	5/30/2012
COD BY EPA 410.4 REV. 2.0			Lab Code: **COD**			Analyst: **KLS**
Chemical Oxygen Demand	ND	20		mg/L	1	6/8/2012
NH3 BY LACHAT 10-107-06-1-J			Lab Code: **NH3_W_AUTO**			Analyst: **GWL**
[NH3 Prep for Waters by SM 18 4500-NH3 B	Prep Code: NH3_WPR		Prep Date: 6/10/2012 10:00:00 AM			Prep By: GWL]
Nitrogen, Ammonia (As N)	0.760	0.500		mg/L	1	6/10/2012
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C			Lab Code: **NO3_W**			Analyst: **KLS**
Nitrogen, Nitrate (as N)	ND	0.050		mg/L	1	5/23/2012 3:51:00 PM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A			Lab Code: **PHENOL_W**			Analyst: **KLS**
[Prep for Phenol in Waters	Prep Code: PHENOL_WPR		Prep Date: 5/26/2012	Prep By: KLS]		
Phenolics, Total Recoverable	ND	0.005		mg/L	1	5/30/2012 10:46:00 AM
SULFATE BY ASTM D516-90, 02 & 07			Lab Code: **SULFATE_W**			Analyst: **CAG**
Sulfate	ND	5.00		mg/L	1	5/30/2012
TDS BY SM 18-21 2540C (97)			Lab Code: **TDS**			Analyst: **NKA**
Residue, Dissolved (TDS)	890	25		mg/L	1	5/24/2012
TKN BY LACHAT 10-107-06-2			Lab Code: **TKN_W_AUTO**			Analyst: **GWL**
[TKN Prep for Waters by SM 18 4500-NH3 E	Prep Code: TKN_WPR		Prep Date: 6/6/2012 2:30:00 PM			Prep By: GWL]
Nitrogen, Kjeldahl, Total	0.811	0.500		mg/L	1	6/7/2012
TOC BY SM 18-21 5310B (00)			Lab Code: **TOC_W**			Analyst: **DEB**
Organic Carbon, Total	14.4	3.0		mg/L	1	5/31/2012

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	Scale House
Lab Order:	U1205636	**Collection Date:**	5/30/2012 2:00:00 PM
Project:	Towslee Landfill		
Lab ID:	U1205636-014	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			Lab Code: **FIELD**			Analyst:
Conductivity	359	1.0		umhos/cm		5/30/2012 2:00:00 PM
Eh	96	-300		mV		5/30/2012 2:00:00 PM
pH	7.96	2-12.5		SU		5/30/2012 2:00:00 PM
Temperature	19.0			°C		5/30/2012 2:00:00 PM
Turbidity	3.211	5.0		NTU		5/30/2012 2:00:00 PM
BROMIDE BY SM 18-21 4110B (00)			Lab Code: **BROMIDE_W**			Analyst: **MGP**
Bromide	ND	0.8		mg/L	1	6/4/2012
ICP METALS, TOTAL BY NYSDEC ASP 2005			Lab Code: **200.7WTASP**			Analyst: **LET**
[AqPrep Total Metals- EPA 3005A Prep Code: 200.7TPRASP Prep Date: 6/8/2012 3:22:04 PM Prep By: ARO]						
Cadmium	ND	5.00		µg/L	1	6/19/2012 5:19:23 PM
Calcium	40000	5000		µg/L	1	6/19/2012 5:19:23 PM
Iron	345	60.0		µg/L	1	6/19/2012 5:19:23 PM
Magnesium	10300	5000		µg/L	1	6/19/2012 5:19:23 PM
Manganese	88.8	10.0		µg/L	1	6/19/2012 5:19:23 PM
Potassium	ND	5000		µg/L	1	6/19/2012 5:19:23 PM
Sodium	7250	5000		µg/L	1	6/19/2012 5:19:23 PM
Hardness, Total(CaCO3)	142000	7000		µg/L	1	6/19/2012 5:19:23 PM
ASP TOTAL METALS BY ICP-MS			Lab Code: **200.8ASP**			Analyst: **LET**
[AqPrep ASP Total Metals: - EPA 3005A Prep Code: 200.8TPRASP Prep Date: 6/8/2012 3:22:41 PM Prep By: ARO]						
Lead	10.8	3.00		µg/L	1	6/14/2012 12:15:43 PM
ALKALINITY BY EPA 310.2			Lab Code: **ALK_W_AUTO**			Analyst: **CAS**
Alkalinity, Total (As CaCO3)	120	10		mg/L	1	6/4/2012
BOD, 5 DAY BY SM 18-20 5210B (01)			Lab Code: **BOD**			Analyst: **JTT**
Biochemical Oxygen Demand	ND	4.0		mg/L	1	5/30/2012 3:30:00 PM
CHLORIDE WATERS BY LACHAT 10-117-07-1 A			Lab Code: **CL_W_AUTO**			Analyst: **CAS**

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Level
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc.

Analytical Report

Date: *26-Jun-12*

CLIENT:	Cortland Co. Soil and Water Cons. Dist.	**Client Sample ID:**	Scale House
Lab Order:	U1205636	**Collection Date:**	5/30/2012 2:00:00 PM
Project:	Towslee Landfill		
Lab ID:	U1205636-014	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE WATERS BY LACHAT 10-117-07-1 A			Lab Code: **CL_W_AUTO**			Analyst: **CAS**
Chloride	13.3	1.00		mg/L	1	6/4/2012
COD BY EPA 410.4 REV. 2.0			Lab Code: **COD**			Analyst: **KLS**
Chemical Oxygen Demand	48	20		mg/L	1	6/11/2012
NH3 BY LACHAT 10-107-06-1-J			Lab Code: **NH3_W_AUTO**			Analyst: **GWL**
[NH3 Prep for Waters by SM 18 4500-NH3 B Prep Code: NH3_WPR Prep Date: 6/11/2012 Prep By: GWL]						
Nitrogen, Ammonia (As N)	ND	0.500		mg/L	1	6/12/2012
NITROGEN, NITRATE (AS N) BY LACHAT 10-107-04-1C			Lab Code: **NO3_W**			Analyst: **KLS**
Nitrogen, Nitrate (as N)	0.075	0.050		mg/L	1	5/31/2012 9:27:00 AM
PHENOLICS, TOTAL BY LACHAT 10-210-00-1A			Lab Code: **PHENOL_W**			Analyst: **KLS**
[Prep for Phenol in Waters Prep Code: PHENOL_WPR Prep Date: 5/31/2012 Prep By: KLS]						
Phenolics, Total Recoverable	ND	0.005		mg/L	1	6/1/2012 9:51:00 AM
SULFATE BY ASTM D516-90, 02 & 07			Lab Code: **SULFATE_W**			Analyst: **CAG**
Sulfate	29.9	5.00		mg/L	1	6/1/2012
TDS BY SM 18-21 2540C (97)			Lab Code: **TDS**			Analyst: **NKA**
Residue, Dissolved (TDS)	220	25		mg/L	1	6/1/2012
TKN BY LACHAT 10-107-06-2			Lab Code: **TKN_W_AUTO**			Analyst: **GWL**
[TKN Prep for Waters by SM 18 4500-NH3 E Prep Code: TKN_WPR Prep Date: 6/12/2012 11:00:00 AM Prep By: GWL]						
Nitrogen, Kjeldahl, Total	ND	0.500		mg/L	1	6/12/2012
TOC BY SM 18-21 5310B (00)			Lab Code: **TOC_W**			Analyst: **DEB**
Organic Carbon, Total	ND	3.0		mg/L	1	6/6/2012

Approved By: PH **Date:** 6-26-12

Qualifiers:

#	Accreditation not offered by NYS DOH for this parameter	*	Low Lovel
**	Value exceeds Maximum Contaminant Value	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
Q	Outlying QC recoveries were associated with this parameter	S	Spike Recovery outside accepted recovery limits

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/10/2001

Client: **Cortland County**

Project: **Towslee Landfill** ULI ID No. (enter by lab)

Well ID.: **CD-1**

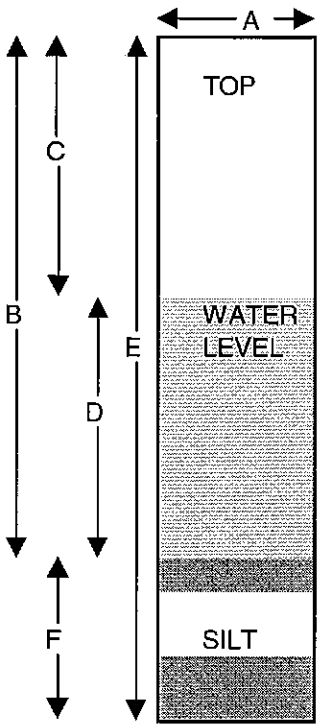
Condition of Well: Good

Locked: No Lock

Method of Evacuation: Dedicated Bailer

Lock ID: 3900

Method of Sampling: Dedicated Bailer



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	24.70	feet
C.	Depth to Water	7.02	feet
D.	Length of Water Column (calculated)	17.68	feet
	Conversion Factor	X.16	------
	Well Volume (calculated)	2.83	gallons
	No. of Volumes to be Evacuated	X3	------
	Total Volume to be Evacuated	8.49	gallons
	Actual Volume Evacuated	8.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	5/21/2012	5/22/2012
Time	10:10 AM	10:05 AM
EH	125	137
Temperature	21.7	19
pH	8.15	7.53
Specific Cond.	101	257
Turbidity	7.83	40.9
Dissolved Oxygen	N/A	N/A
Appearance	clear	cloudy

% Recharge:

Initial Depth to Water 7.02 feet

Recharge Depth to Water 7.12 feet

2nd water column height 98.6 %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 73 F Sun 70 F cloudy

Observations:

Sampler: Dan Averill

Signature: Dan Averill

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/10/2001

Client: **Cortland County**

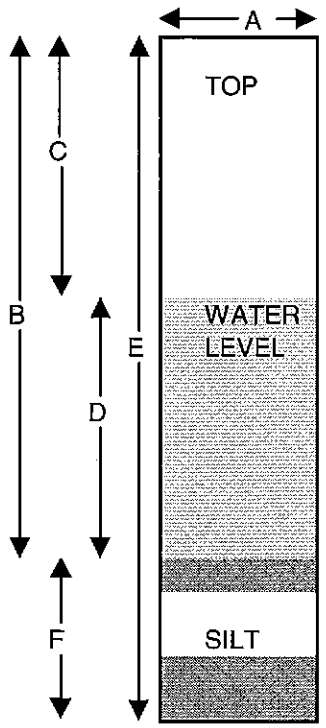
Project: **Towslee Landfill** ULI ID No. (enter by lab)

Well ID.: **CD-1RA**

Condition of Well: Good Locked: No Lock

Method of Evacuation: Dedicated Bailer Lock ID: 3900

Method of Sampling: Dedicated Bailer



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	50.60	feet
C.	Depth to Water	2.21	feet
D.	Length of Water Column (calculated)	48.39	feet
	Conversion Factor	X.16	------
	Well Volume (calculated)	7.74	gallons
	No. of Volumes to be Evacuated	X3	------
	Total Volume to be Evacuated	23.23	gallons
	Actual Volume Evacuated	23.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	5/21/2012	5/22/2012
Time	10:07 AM	10:02 AM
EH	139	142
Temperature	19.7	18.5
pH	7.71	7.45
Specific Cond.	268	295
Turbidity	1.68	8.26
Dissolved Oxygen	N/A	N/A
Appearance	clear	clear

% Recharge:

Initial Depth to Water 2.21 feet

Recharge Depth to Water 4.35 feet

2nd water column height 50.8 %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 73 F Sun 70 F cloudy

Observations:

Sampler: Dan Axtell

Signature: Dan Axtell

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/10/2001

Client: **Cortland County**

Project: **Towslee Landfill** ULI ID No. (enter by lab)

Well ID.: **MW-1A**

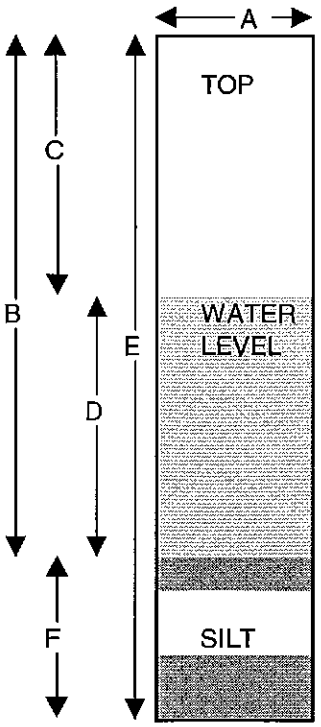
Condition of Well: Good

Locked: No Lock

Method of Evacuation: Dedicated Bailer

Lock ID: 3900

Method of Sampling: Dedicated Bailer



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	33.7	feet
C.	Depth to Water	0	feet
D.	Length of Water Column (calculated)	33.7	feet
	Conversion Factor	X.16	------
	Well Volume (calculated)	5.39	gallons
	No. of Volumes to be Evacuated	X3	------
	Total Volume to be Evacuated	16.18	gallons
	Actual Volume Evacuated	7	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	5/21/2012	5/22/2012
Time	1:33 PM	11:10 AM
EH	146	163
Temperature	19	20.3
pH	7.72	6.94
Specific Cond.	374	376
Turbidity	8.32	26.5
Dissolved Oxygen	N/A	N/A
Appearance	clear	cloudy

% Recharge:

Initial Depth to Water	0	feet
Recharge Depth to Water	0	feet
2nd water column height	100	%
1st water column height		
Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 63 F rain 70 F cloudy

Observations:

Sampler: Don Aswell

Signature: Don Aswell

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/10/2001

Client: **Cortland County**

Project: **Towslee Landfill** ULI ID No. (enter by lab)

Well ID.: **MW-1B**

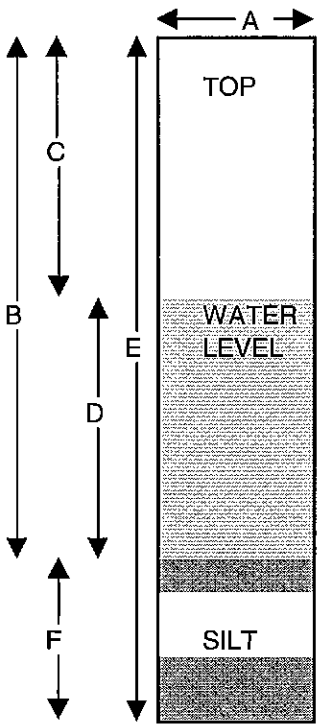
Condition of Well: Good

Locked: No Lock

Method of Evacuation: Dedicated Bailer

Lock ID: 3900

Method of Sampling: Dedicated Bailer



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	55.5	feet
C.	Depth to Water	0	feet
D.	Length of Water Column (calculated)	55.5	feet
	Conversion Factor	X.16	------
	Well Volume (calculated)	8.88	gallons
	No. of Volumes to be Evacuated	X3	------
	Total Volume to be Evacuated	26.64	gallons
	Actual Volume Evacuated	27	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	5/21/2012	5/22/2012
Time	1:35 PM	11:14 AM
EH	139	155
Temperature	18.5	21.2
pH	7.82	7.19
Specific Cond.	200	243
Turbidity	1.16	16.1
Dissolved Oxygen	N/A	N/A
Appearance	clear	sl cloudy

% Recharge:

Initial Depth to Water 0 feet

Recharge Depth to Water 0 feet

2nd water column height 100 %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 63 F cloudy 70 F cloudy

Observations: Dupe

Sampler: Dan Averell

Signature: Dan Averell

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/10/2001

Client: **Cortland County**

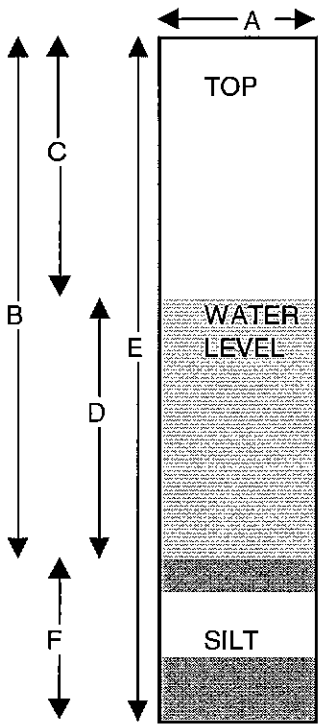
Project: **Towslee Landfill** ULI ID No. (enter by lab)

Well ID.: **MW-3A**

Condition of Well: Good Locked: No Lock

Method of Evacuation: Dedicated Bailer Lock ID: 3900

Method of Sampling: Dedicated Bailer



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	22.40	feet
C.	Depth to Water	7.41	feet
D.	Length of Water Column (calculated)	14.99	feet
	Conversion Factor	X.16	------
	Well Volume (calculated)	2.40	gallons
	No. of Volumes to be Evacuated	X3	------
	Total Volume to be Evacuated	7.20	gallons
	Actual Volume Evacuated	3.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	5/21/2012	5/22/2012
Time	11:45 AM	10:54 AM
EH	62	153
Temperature	17.9	20
pH	6.43	7.07
Specific Cond.	318	340
Turbidity	15.6	41.7
Dissolved Oxygen	N/A	N/A
Appearance	sl cloudy	cloudy

% Recharge:

Initial Depth to Water 7.41 feet

Recharge Depth to Water 7.84 feet

2nd water column height 94.52 %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 73 F Sun 70 F cloudy

Observations:

Sampler: Doug Aurell

Signature:

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/10/2001

Client: **Cortland County**

Project: **Towslee Landfill** ULI ID No. (enter by lab)

Well ID.: **MW-3B**

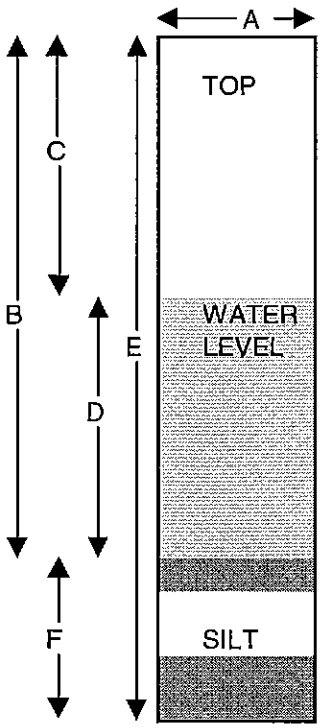
Condition of Well: Good

Locked: No Lock

Method of Evacuation: Dedicated Bailer

Lock ID: 3900

Method of Sampling: Dedicated Bailer



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	44.4	feet
C.	Depth to Water	14.06	feet
D.	Length of Water Column (calculated)	30.34	feet
	Conversion Factor	X.16	------
	Well Volume (calculated)	4.85	gallons
	No. of Volumes to be Evacuated	X3	------
	Total Volume to be Evacuated	14.56	gallons
	Actual Volume Evacuated	7.5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	5/21/2012	5/22/2012
Time	11:47 AM	10:57 AM
EH	75	170
Temperature	14.5	18.3
pH	6.41	6.61
Specific Cond.	478	479
Turbidity	2.88	2.51
Dissolved Oxygen	N/A	N/A
Appearance	clear	clear

% Recharge:

Initial Depth to Water 14.06 feet

Recharge Depth to Water 13.93 feet

2nd water column height 100.93 %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 73 F Sun 70 F cloudy

Observations:

Sampler: Dan Axwell

Signature:

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/10/2001

Client: **Cortland County**

Project: **Towslee Landfill** ULI ID No. (enter by lab)

Well ID.: **MW-4A**

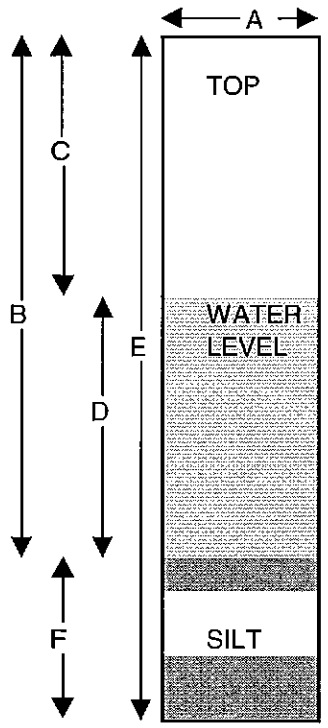
Condition of Well: Good

Locked: No Lock

Method of Evacuation: Dedicated Bailer

Lock ID: 3900

Method of Sampling: Dedicated Bailer



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	32.40	feet
C.	Depth to Water	7.45	feet
D.	Length of Water Column (calculated)	24.95	feet
	Conversion Factor	X.16	------
	Well Volume (calculated)	3.99	gallons
	No. of Volumes to be Evacuated	X3	------
	Total Volume to be Evacuated	11.98	gallons
	Actual Volume Evacuated	6	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	5/21/2012	5/22/2012
Time	11:33 AM	10:31 AM
EH	170	160
Temperature	15.5	15.8
pH	6.78	6.83
Specific Cond.	655	714
Turbidity	4.93	7.45
Dissolved Oxygen	N/A	N/A
Appearance	clear	clear

% Recharge:

Initial Depth to Water 7.45 feet

Recharge Depth to Water 7.43 feet

2nd water column height 100.27 %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 73 F Sun 70 F cloudy

Observations:

Sampler: Dan Aumell

Signature: Dan Aumell

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/10/2001

Client: **Cortland County**

Project: **Towslee Landfill** ULI ID No. (enter by lab)

Well ID.: **MW-5A**

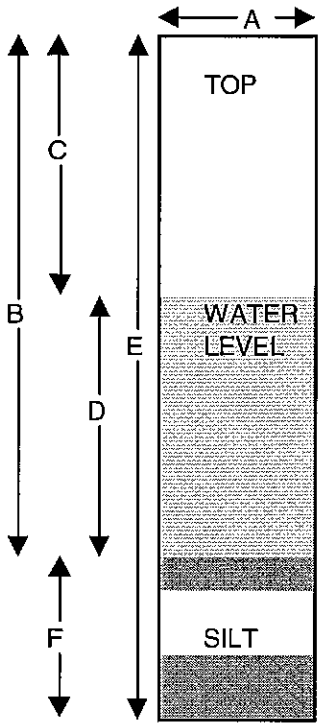
Condition of Well: Good

Locked: No Lock

Method of Evacuation: Dedicated Bailer

Lock ID: 3900

Method of Sampling: Dedicated Bailer



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	32.30	feet
C.	Depth to Water	6.31	feet
D.	Length of Water Column (calculated)		feet
	Conversion Factor	X.16	------
	Well Volume (calculated)		gallons
	No. of Volumes to be Evacuated	X3	------
	Total Volume to be Evacuated		gallons
	Actual Volume Evacuated		gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	5/21/2012	
Time	1:27 PM	
EH		
Temperature		
pH		
Specific Cond.		
Turbidity		
Dissolved Oxygen	N/A	N/A
Appearance		

% Recharge:

Initial Depth to Water ____ feet

Recharge Depth to Water ____ feet

2nd water column height ____ %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 73 F cloudy

Observations: Can't be sampled, well pipe bent.

Sampler: Dan Aurell

Signature: Dan Aurell

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/10/2001

Client: **Cortland County**

Project: **Towslee Landfill** ULI ID No. (enter by lab)

Well ID.: **MW-6A**

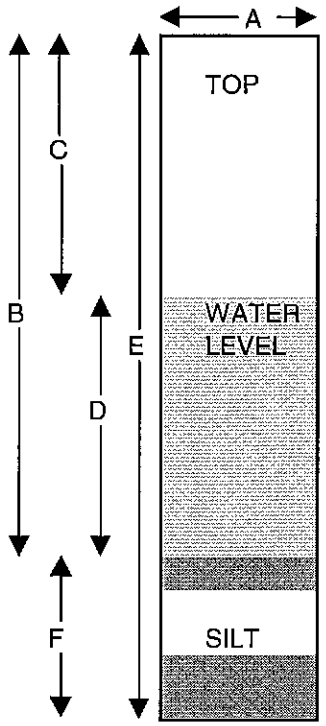
Condition of Well: Good

Locked: No Lock

Method of Evacuation: Dedicated Bailer

Lock ID: 3900

Method of Sampling: Dedicated Bailer



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	19.10	feet
C.	Depth to Water	12.3	feet
D.	Length of Water Column (calculated)	6.8	feet
	Conversion Factor	X.16	------
	Well Volume (calculated)	1.09	gallons
	No. of Volumes to be Evacuated	X3	------
	Total Volume to be Evacuated	3.26	gallons
	Actual Volume Evacuated	5	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	5/21/2012	5/22/2012
Time	9:42 AM	9:39 AM
EH	144	133
Temperature	22.1	18.9
pH	6.59	7.35
Specific Cond.	427	408
Turbidity	7.42	241
Dissolved Oxygen	N/A	N/A
Appearance	clear	very cloudy

% Recharge:

Initial Depth to Water	12.3	feet
Recharge Depth to Water	12.54	feet
2nd water column height	98.09	%
1st water column height		
Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 72 F Sun 70 F cloudy

Observations: D-metals taken

Sampler: Don Atwell

Signature:

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/10/2001

Client: **Cortland County**

Project: **Towslee Landfill** ULI ID No. (enter by lab)

Well ID.: **MW-6B**

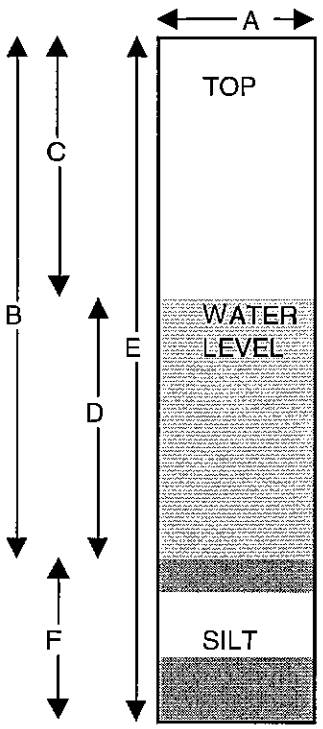
Condition of Well: Good

Locked: No Lock

Method of Evacuation: Dedicated Bailer

Lock ID: 3900

Method of Sampling: Dedicated Bailer



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	40.75	feet
C.	Depth to Water	12.39	feet
D.	Length of Water Column (calculated)	28.36	feet
	Conversion Factor	X.16	------
	Well Volume (calculated)	4.54	gallons
	No. of Volumes to be Evacuated	X3	------
	Total Volume to be Evacuated	13.61	gallons
	Actual Volume Evacuated	6	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	5/21/2012	5/22/2012
Time	9:46 AM	9:42 AM
EH	141	139
Temperature	19.4	17.7
pH	6.7	7.29
Specific Cond.	317	363
Turbidity	3.24	17.1
Dissolved Oxygen	N/A	N/A
Appearance	clear	sl cloudy

% Recharge:

Initial Depth to Water 12.39 feet

Recharge Depth to Water 12.63 feet

2nd water column height 98.1 %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 72 F Sun 70 F cloudy

Observations:

Sampler: Dan Averell

Signature: Dan Averell

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/10/2001

Client: **Cortland County**

Project: **Towslee Landfill** ULI ID No. (enter by lab)

Well ID.: **MW-7A**

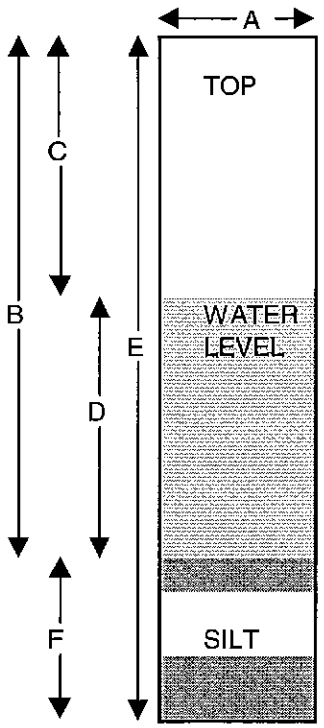
Condition of Well: Good

Locked: Yes (well lid broken)

Method of Evacuation: Dedicated Bailer

Lock ID: 3900

Method of Sampling: Dedicated Bailer



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	22.20	feet
C.	Depth to Water	3.93	feet
D.	Length of Water Column (calculated)	18.27	feet
	Conversion Factor	X.16	------
	Well Volume (calculated)	2.92	gallons
	No. of Volumes to be Evacuated	X3	------
	Total Volume to be Evacuated	8.77	gallons
	Actual Volume Evacuated	9	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	5/21/2012	5/22/2012
Time	2:27 PM	11:32 AM
EH	185	184
Temperature	15.8	15.8
pH	6.18	6.36
Specific Cond.	1214	1085
Turbidity	3.91	>1000
Dissolved Oxygen	N/A	N/A
Appearance	clear	extremely cloudy gray

% Recharge:

Initial Depth to Water	3.93	feet
Recharge Depth to Water	4.07	feet
2nd water column height	96.56	%
1st water column height		
Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 66 F light rain 70 F cloudy

Observations: D-Metals taken

Sampler: Dan Axtell

Signature: Dan Axtell

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/10/2001

Client: **Cortland County**

Project: **Towslee Landfill** ULI ID No. (enter by lab)

Well ID.: **MW-2A**

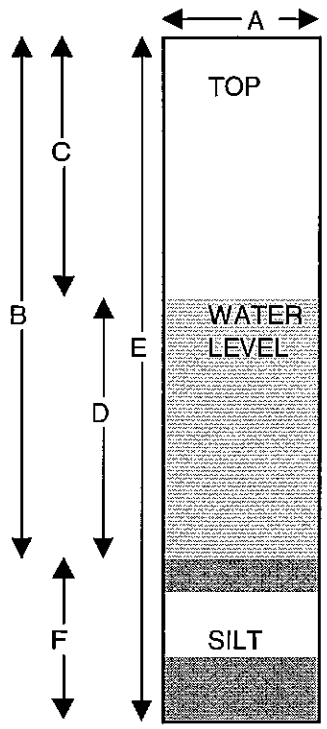
Condition of Well: Good

Locked: Lock broken

Method of Evacuation: Dedicated Bailer

Lock ID: 3900

Method of Sampling: Dedicated Bailer



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	12.8	feet
C.	Depth to Water	5.7	feet
D.	Length of Water Column (calculated)	7.1	feet
	Conversion Factor	X.16	------
	Well Volume (calculated)	1.14	gallons
	No. of Volumes to be Evacuated	X3	------
	Total Volume to be Evacuated	3.41	gallons
	Actual Volume Evacuated	3	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	5/~~21~~(22)/2012	5/~~22~~(23)/2012 & 7/31/12
Time	12:49 AM	10:00 AM
EH	12	133
Temperature	19.5	18.9
pH	6.71	6.72
Specific Cond.	486	515
Turbidity	25.1	27.5
Dissolved Oxygen	N/A	N/A
Appearance	cloudy	cloudy

% Recharge:

Initial Depth to Water	5.7	feet
Recharge Depth to Water	5.73	feet
2nd water column height	99.48	%
1st water column height		
Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 70 F cloudy 60 F cloudy

Observations:

Sampler: Dan Aunell

Signature: Dan Aunell

Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/10/2001

Client: **Cortland County**

Project: **Towslee Landfill** ULI ID No. (enter by lab)

Well ID.: **MW-2B**

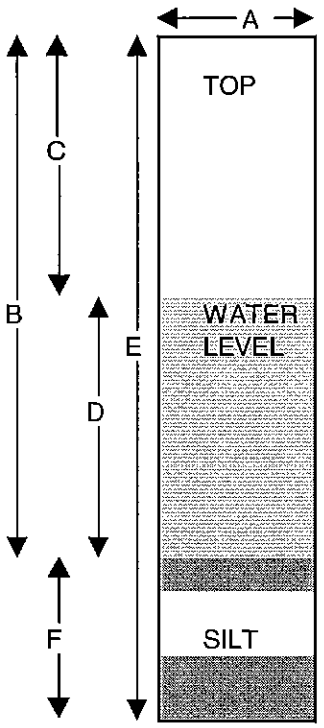
Condition of Well: Good

Locked: Yes (well lid broken)

Method of Evacuation: Dedicated Bailer

Lock ID: 3900

Method of Sampling: Dedicated Bailer



A.	Diameter of Well	2"	inches
B.	Well Depth Measured	33.5	feet
C.	Depth to Water	6.58	feet
D.	Length of Water Column (calculated)	26.92	feet
	Conversion Factor	X.16	------
	Well Volume (calculated)	4.31	gallons
	No. of Volumes to be Evacuated	X3	------
	Total Volume to be Evacuated	12.92	gallons
	Actual Volume Evacuated	7	gallons
E.	Installed Well Depth (if known)	N/A	feet
F.	Depth of Silt (calculated	N/A	feet

Field Measurements	Initial Evacuation	Final Sampling
Date	(22) 5/~~21~~/2012	(23) 5/~~22~~/2012 6/13/12
Time	12:46 PM	10:03 AM
EH	23	161
Temperature	16	18.2
pH	6.39	6.12
Specific Cond.	1372	1378
Turbidity	5.27	5.44
Dissolved Oxygen	N/A	N/A
Appearance	clear	clear

% Recharge:

Initial Depth to Water	6.58	feet
Recharge Depth to Water	6.58	feet
2nd water column height	96.06	%
1st water column height		
Elevation(Top of Casing)	N/A	feet
G.W. Elevation=	N/A	feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 70 F cloudy 60 F cloudy

Observations:

Sampler: Dan Aurell

Signature: Dan Aurell

Upstate Laboratories, Inc.

Tap Water / Surface Water / Wastewater Field Log

Client: Cortland County

Project: West Side Extension

Date: 5/30/2012

Sampler (print): Dan Aumell

Signature:

Location	PLT-1	TIME SAMPLED	1:19 PM ULI ID. NO.
EH	-17 MV	WEATHER CONDITION:	78 F sun
TEMPERATURE	19.5 C		
PH	6.1 STD.UNITS	APPEARANCE / OBSERVATIONS	Very cloudy Brown
SPEC. CON.	5428 UMHOS/CM	DO	N/A MG/L
TURB	206.00 NTU	STAFF GAUGE	N/A

Location	PLT-2	TIME SAMPLED	1:01 PM ULI ID. NO.
EH	-4 MV	WEATHER CONDITION:	78 F sun
TEMPERATURE	17.3 C		
PH	6.34 STD.UNITS	APPEARANCE / OBSERVATIONS	cloudy
SPEC. CON.	1980 UMHOS/CM	DO	N/A MG/L
TURB	25.9 NTU	STAFF GAUGE	N/A

Location	PGW	TIME SAMPLED	1:33 PM ULI ID. NO.
EH	49 MV	WEATHER CONDITION:	78 F sun
TEMPERATURE	19.6 C		
PH	7.04 STD.UNITS	APPEARANCE / OBSERVATIONS	Clear
SPEC. CON.	1111 UMHOS/CM	DO	MG/L
TURB	7.98 NTU	STAFF GAUGE	

Location	Scale House	TIME SAMPLED	2:00 PM ULI ID. NO.
EH	96 MV	WEATHER CONDITION:	78 F sun
TEMPERATURE	19.0 C		
PH	7.96 STD.UNITS	APPEARANCE / OBSERVATIONS	Clear
SPEC. CON.	359 UMHOS/CM	DO	N/A MG/L
TURB	3.211 NTU	STAFF GAUGE	N/A

Location		TIME SAMPLED	ULI ID. NO.
EH	MV	WEATHER CONDITION:	
TEMPERATURE	C		
PH	STD.UNITS	APPEARANCE / OBSERVATIONS	
SPEC. CON.	UMHOS/CM	DO	MG/L
TURB	NTU	STAFF GAUGE	

Location		TIME SAMPLED	ULI ID. NO.
EH	MV	WEATHER CONDITION:	
TEMPERATURE	C		
PH	STD.UNITS	APPEARANCE / OBSERVATIONS	
SPEC. CON.	UMHOS/CM	DO	N/A MG/L
TURB	NTU	STAFF GAUGE	N/A

Cortland County-West Side Extension

GAS MONITORING

Date:

LOCATION	%O2	LEL (ppm)
AA-1	19.9	0
AA-2	19.7	0
AA-3	19.8	0
AA-4	19.8	0
AA-5	19.7	0
AA-6A	19.8	0
AA-7A	19.8	0
AA-8	19.8	0
AA-9	19.9	0
AA-10	20.1	0
AA-11	20.0	0
AA-12	19.8	0
AA-13	19.8	0
AA-14	19.8	0
AA-15	19.6	0
AA-16	20.1	0
AA-17	19.8	0
AA-6B	19.8	0
AA-7B	19.8	0
GW-1	19.7	0
GFD-1	19.8	0
GFD-2	19.7	0
GFLD-1	19.8	0
GFLD-2	19.7	0
GFLD-3	19.8	0

Instrument used: GEM 2000

Measured By:

Upstate Laboratories, Inc.

Chain of Custody Record

6034 Corporate Drive E. Syracuse New York 13057
Phone (315) 437 0255 Fax (315) 437 1209

Client: CORTLAND COUNTY

Project # / Project Name: TOWSLEE LANDFILL

Client Contact: PATRICK REIDY

Phone #: 607-753-0851

Location (city/state) Address: CORTLANDVILLE, NY

ULI Computer Input Form

Sample ID	Date	Time	Matrix	Grab or Comp	ULI Internal Use Only U1205636	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
																	1993 PART 360 ROUTINE ASP-A
CD-1	5/22/12	10:05am	WATER	GRAB	1	6	X	X	X	X	X	X	X				
CD-1RA	5/22/12	10:02am	WATER	GRAB	2	6	X	X	X	X	X	X	X				
MW-1A	5/22/12	11:10am	WATER	GRAB	3	6	X	X	X	X	X	X	X				
MW-1B	5/22/12	11:14am	WATER	GRAB	4	6	X	X	X	X	X	X	X				
MW-2A			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-2B			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-3A	5/22/12	10:54am	WATER	GRAB	5	6	X	X	X	X	X	X	X				
MW-3B	5/22/12	10:57am	WATER	GRAB	6	6	X	X	X	X	X	X	X				
MW-4A	5/22/12	10:31am	WATER	GRAB	7	6	X	X	X	X	X	X	X				
MW-5A	5/21/12	1:27pm	WATER	GRAB		~~6~~ 0	X	X	X	X	X	X	X				Can't be sampled
MW-6A	5/22/12	9:39am	WATER	GRAB	8	~~6~~ 7	X	X	X	X	X	X	X	X			
MW-6B	5/22/12	9:42am	WATER	GRAB	9	6	X	X	X	X	X	X	X				
MW-7A	5/22/12	11:32am	WATER	GRAB	10	~~6~~ 7	X	X	X	X	X	X	X	X			
DUPE MW-1B	5/22/12	11:14am	WATER	GRAB	11	6		X	X	X	X	X	X				(D-Metals filtered in lab) 6 7/5/12
MS/MSD																	
SCALE HOUSE			WATER	GRAB		6	X	X	X	X	X	X	X				

	Parameter and Method	Sample bottle: Type	Size	Preservative
1	FIELD PH,TEMP,EH,SPEC.COND.,TURBIDITY	N/A		
2	BOD5,NO3,TDS,SO4,CL-,BROMIDE	PLASTIC	2000ML	NONE
3	TKN,NH3,COD	PLASTIC	500 ML	H2SO4
4	TOC	PLASTIC	250 ML	1:1 HCL
5	ALKALINITY	PLASTIC	250 ML	NONE
6	T-PHENOLS	AMBER	LITER	H2SO4
7	T-CD,CA,FE,PB*,MG,MN,K,NA,+CALC. HARDNESS	PLASTIC	500 ML	HNO3
8	D-CD,CA,FE,PB*,MG,MN,K,NA,+CALC. HARDNESS	PLASTIC	500 ML	HNO3
9				
10				

Sampled by (Print): Dan Aumell

Company: ULI & AES 6 7/5/12

Name of Courier:

Relinquished by:(sign)	Date	Time	Received by: (sign)
Relinquished by:(sign)	Date	Time	Received by: (sign)
Relinquished by:(sign) Dan Aumell	Date 5/22/12	Time 4:10pm	Rec'd for Lab by:

PM 5/15/12

Syracuse Rochester Buffalo Albany Binghamton Fair Lawn (NJ)

Upstate Laboratories, Inc.

Chain of Custody Record

6034 Corporate Drive E. Syracuse New York 13057
Phone (315) 437 0255 Fax (315) 437 1209

Client: CORTLAND COUNTY

Project #/ Project Name: TOWSLEE LANDFILL

Client Contact: PATRICK REIDY

Phone #: 607-753-0851

Location (city/state) Address: CORTLANDVILLE, NY

ULI Computer Input Form

Sample ID	Date	Time	Matrix	Grab or Comp	ULI Internal Use Only	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
					U1205636												1993 PART 360 ROUTINE ASP-A
CD-1			WATER	GRAB		6	X	X	X	X	X	X	X				
CD-1RA			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-1A			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-1B			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-2A	5/23/12	10:00am	WATER	GRAB	/2	6	X	X	X	X	X	X	X				
MW-2B	5/23/12	10:03am	WATER	GRAB	/3	6	X	X	X	X	X	X	X				
MW-3A			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-3B			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-4A			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-5A			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-6A			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-6B			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-7A			WATER	GRAB		6	X	X	X	X	X	X	X				
DUPE			WATER	GRAB		6		X	X	X	X	X	X				
MS/MSD																	
SCALE HOUSE			WATER	GRAB		6	X	X	X	X	X	X	X				

	Parameter and Method	Sample bottle: Type	Size	Preservative
1	FIELD PH,TEMP,EH,SPEC.COND.,TURBIDITY	N/A		
2	BOD5,NO3,TDS,SO4,CL-,BROMIDE	PLASTIC	2000ML	NONE
3	TKN,NH3,COD	PLASTIC	500 ML	H2SO4
4	TOC	PLASTIC	250 ML	1:1 HCL
5	ALKALINITY	PLASTIC	250 ML	NONE
6	T-PHENOLS	AMBER	LITER	H2SO4
7	T-CD,CA,FE,PB*,MG,MN,K,NA,+CALC. HARDNESS	PLASTIC	500 ML	HNO3
8	D-CD,CA,FE,PB*,MG,MN,K,NA,+CALC. HARDNESS	PLASTIC	500 ML	HNO3
9				
10				

Sampled by (Print): Dan Aumell

Company: (ULI + AES) 6 7/5/12

Name of Courier

Relinquished by:(sign)	Date	Time	Received by: (sign)
Relinquished by:(sign)	Date	Time	Received by: (sign)
Relinquished by:(sign) Dan Aumell	Date 5/23/12	Time 4:22pm	Rec'd for Lab by: BMarsh

Syracuse Rochester Buffalo Albany Binghamton Fair Lawn (NJ)

Upstate Laboratories, Inc. — Chain of Custody Record

6034 Corporate Drive E. Syracuse New York 13057
Phone (315) 437 0255 Fax (315) 437 1209

Client:	Project #/ Project Name
CORTLAND COUNTY	TOWSLEE LANDFILL
Client Contact: / **Phone #**	**Location (city/state) Address**
PATRICK REIDY / 607-753-0851	CORTLANDVILLE, NY

ULI Computer Input Form

Sample ID	Date	Time	Matrix	Grab or Comp	ULI Internal Use Only	Number of Containers	1	2	3	4	5	6	7	8	9	10	Remarks
					U12056360												1993 PART 360 ROUTINE ASP-A
CD-1			WATER	GRAB		6	X	X	X	X	X	X	X				
CD-1RA			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-1A			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-1B			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-2A			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-2B			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-3A			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-3B			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-4A			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-5A			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-6A			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-6B			WATER	GRAB		6	X	X	X	X	X	X	X				
MW-7A			WATER	GRAB		6	X	X	X	X	X	X	X				
DUPE			WATER	GRAB		6		X	X	X	X	X	X				
MS/MSD																	
SCALE HOUSE	5/30/12	2:00 pm	WATER	GRAB	14	6	X	X	X	X	X	X	X				

	Parameter and Method — Sample bottle:	Type	Size	Preservative
1	FIELD PH,TEMP,EH,SPEC.COND.,TURBIDITY	N/A		
2	BOD5,NO3,TDS,SO4,CL-,BROMIDE	PLASTIC	2000ML	NONE
3	TKN,NH3,COD	PLASTIC	500 ML	H2SO4
4	TOC	PLASTIC	250 ML	1:1 HCL
5	ALKALINITY	PLASTIC	250 ML	NONE
6	T-PHENOLS	AMBER	LITER	H2SO4
7	T-CD,CA,FE,PB*,MG,MN,K,NA,+CALC. HARDNESS	PLASTIC	500 ML	HNO3
8	D-CD,CA,FE,PB*,MG,MN,K,NA,+CALC. HARDNESS	PLASTIC	500 ML	HNO3
9				
10				

Sampled by (Print) Dan Aumell — Name of Courier

Company: ULI² AES

Relinquished by:(sign)	Date	Time	Received by: (sign)
Relinquished by:(sign)	Date	Time	Received by: (sign)
Relinquished by:(sign)	Date	Time	Rec'd for Lab by:
Dan Aumell	5/30/12	4:15pm	JM Meersh

Syracuse Rochester Buffalo Albany Binghamton Fair Lawn (NJ)

PAH 8/31/12

Appendix B

Historical Analytical Data

Cortland County Towslee Landfill

Historical Data Page Index
Cortland County Towslee Landfill

Well	Field/ Inorganic Parameters	Total Metals	Dissolved Metals	Organics
CD-1	2	15	28	41
CD-1RA	3	16	29	42
MW-1A	4	17	30	43
MW-1B	5	18	31	44
MW-2A	6	19	32	45
MW-2B	7	20	33	46
MW-3A	8	21	34	47
MW-3A	9	22	35	48
MW-4A	10	23	36	49
MW-5A	11	24	37	50
MW-6A	12	25	38	51
MW-6B	13	26	39	52
MW-7A	14	27	40	53

Historical Water Quality Database - Towslee Landfill
Field and Inorganic Parameters
Well CD-1 - Bedrock

Analyte	Temp	Eh	pH	Sp. Conduct	Color	Turbidity	ALK as CaCO3	HARD as CaCO3	TDS	Chloride	Sulfate	Bromide	NO3 (As N)	NH4 (As N)	TKN (as N)	COD	BOD	TOC	Phenolics, Tot	Cyanide
Units	(oC)	(mV)	SU	(uS/ cm)	(SU)	(NTU)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Water Quality Standard	--	--	6.5 to 8.5	--	15	5	--	--	500	250	250	2	10	2 *	--	--	--	--	0.001	0.2
9/20/11	19.1	152	8.2	303	--	9.58	130	150	220	1.41	10.8	<8	0.054	<0.5	<0.5	<20	<4	<3	<0.005	--
12/13/11	7.7	164	7.91	282	6	10.2	140 J	145	210	6.88 J	16.9	<0.8	0.068	<0.5 J	<0.5	<20	<4	<3	<0.005	<0.01 J
3/20/12	18.2	179	7.89	274	6	46.2	130 J	144	180	<1 J	15.6	<0.8 J	0.055	<0.5	<0.5 J	<20	<6 J	<3	<0.005 J	<0.01
5/22/12	19	137	7.53	257	--	40.9	120	146	380	1.2	12.2	<8	0.068	<0.5	<0.5	<20	<4	<3	<0.005	--

Historical Water Quality Database - Towslee Landfill
Field and Inorganic Parameters
Well CD-1RA - Bedrock

Analyte	Temp	Eh	pH	Sp. Conduct	Color	Turbidity	ALK as CaCO3	HARD as CaCO3	TDS	Chloride	Sulfate	Bromide	NO3 (As N)	NH4 (As N)	TKN (as N)	COD	BOD	TOC	Phenolics, Tot	Cyanide
Units	(oC)	(mV)	SU	(uS/ cm)	(SU)	(NTU)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Water Quality Standard	--	--	6.5 to 8.5	--	15	5	--	--	500	250	250	2	10	2 *	--	--	--	--	0.001	0.2
Aug-97	--	--	--	--	<5	--	134	160	163	<2	10.8	1	<0.1	0.04	0.2	<15	<2	2.1	<1	--
Oct-97	--	--	--	--	20	--	132	160	150	2.5	15.3	1.2	<0.1	0.11	0.21	<15	<2	<1	<1	--
9/20/11	20.3	146	8.29	343	--	53	120	135	180	2.2	17.3	<8	0.054	<0.5	<0.5	<20	5	<3	<0.005	--
12/13/11	9.6	164	7.79	312	6	25.3	150 J	155	170	3.67 J	18.4	<0.8	0.058	<0.5 J	<0.5	<20	<4	<3	<0.005	<0.01 J
3/20/12	17.7	180	7.98	299	<5	20.3	140 J	164	150	1.43 J	15.8	<0.8 J	0.079	<0.5	<0.5 J	<20	<4 J	<3	<0.005 J	<0.01
5/22/12	185	142	7.45	295	--	8.26	140	155	310	1.46	15.9	<0.8	<0.05	<0.5	<0.5	<20	<4	<3	<0.005	--

Historical Water Quality Database - Towslee Landfill
Field and Inorganic Parameters
Well MW-1A - Overburden

Analyte	Temp	Eh	pH	Sp. Conduct	Color	Turbidity	ALK as CaCO3	HARD as CaCO3	TDS	Chloride	Sulfate	Bromide	NO3 (As N)	NH4 (As N)	TKN (as N)	COD	BOD	TOC	Phenolics, Tot	Cyanide
Units	(oC)	(mV)	SU	(uS/ cm)	(SU)	(NTU)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Water Quality Standard	--	--	6.5 to 8.5	--	15	5	--	--	500	250	250	2	10	2 *	--	--	--	--	0.001	0.2
Aug-97	--	--	--	--	5	--	160	4000	494	152	20.6	1.2	<0.1	6	18	305	5	4.2	0.003	<0.01
Oct-97	--	--	--	--	20	--	145	240	214	46	14.6	0.8	<0.1	2.6	3.8	64	<2	1.6	0.0015	<0.01
3/22/06	8.5	700	7.8	306	--	660	127	167	340	21.3	27.3	< 0.1	< 0.1	0.276	23.3	< 10	< 3	4.76	< 0.005	--
5/31/06	12.8	105	7.7	355	--	73	139	140	213	22.2	12.3	<0.1	0.217	<0.02	0.529 H	<10	<3	2.61	<0.005	--
8/9/06	19.5	190	7.52	353	<5	131	122	148	236	34.2	16.5	<0.1	<0.1	0.161	0.366	<10	<3	<2	<0.005	<0.01
10/10/06	15.9	170	7.69	369	--	29	132	148	229	26.7	14.9	0.117	<0.1	<0.1	<0.2	<10	<3	<2	<0.005	--
3/20/07	9.3	59	8.29	204	--	55.6	140	134	127	28.7	8.79	<0.2	<0.2	<0.5	2.2	<20	<4	<3	<0.005	--
4/26/07	6.7	-107	7.93	221	--	34.8	120	153	208	27	14.2	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	0.005	--
7/31/07	21.6	-111	7.83	241	--	24.3	120	148	250	27	48.6	<0.2	<0.2	<0.5	5.66	<20	<4	<3	<0.005	--
10/10/07	16	-68	8.01	658	30	28.1	130	146	204	27.9	11.2	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	<0.01
4/16/08	11.2	-57	7.85	351	--	16	120	151	195	28	16.3	<0.2	<0.2	<0.5	<0.5	<20	9	<3	<0.005	--
7/23/08	21.7	-62	8.07	344	--	11.6	120	159	116	25.9	<5	<2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
10/24/08	10.6	-69	8.23	334	--	24.6	120	165	188 H	29.7	11.6	<2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
3/12/09	3.6	-21	7.4	344	--	16.7	130	161	256	30.4	14	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
6/17/09	19.6	143	8.09	199	18	23.4	100 H	163	180	30.7	14.3	<2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	< 0.01
9/30/09	12.6	162	7.67	201	--	30.6	120 H	158	210	29.5	12.7	<2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
12/1/09	6.6	107	8.35	862	--	47.4	120	161	190	30	6.3	<2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
4/27/10	8.2	180	7.28	1580	--	22.7	140	161	270	31.7	9.43	<0.8	0.0721	<0.5	<0.5	<20	<4	<3	<0.005	--
7/20/10	18.9	151	7.73	263	35	18.6	120	167	320	33	17.9	<1.6	0.066	<0.5	<0.5	<20	<4	<3	<0.005	<0.01
10/26/10	15.6	110	7.95	345	--	37.7	120	169	170	31.4	14.8	<0.8	0.102	<0.5	0.897	<20	<4	<3	<0.005	--
3/22/11	9.8	228	7.52	347	--	24.2	130	159	150	32	13.6	<8	0.102	<0.5	<0.5	<20	<4	<3	<0.005	--
5/24/11	19.2	109	8.26	364	--	45.2	120	164	460	30.5	10.2	<0.8	<0.05	<0.5	<0.5	<20	<4	<3	<0.005	--
9/20/11	17.9	160	7.96	372	--	20.89	130	172	220	32.1	14.1	<8	<0.05	<0.5	<0.5	<20	<4	<3	<0.005	--
12/14/11	6.6	147	8.62	375	80	24	150 J	177	210 R	28.5 J	15.8	<0.8	0.075	<0.5 J	<0.5	<20	<4	<3	<0.005	<0.01 J
3/21/12	19.8	116	7.91	401	6	572	130 J	225	190	33.9 J	11.4	<8 J	<0.05	<0.5 J	0.994 J	<20	<4 R	<3	<0.005 J	<0.01
5/22/12	20.3	163	6.94	376	--	26.5	140	175	450	33.1	12.2	<8	<0.05	<0.5	<0.5	<20	<4	<3	<0.005	--

Historical Water Quality Database - Towslee Landfill
Field and Inorganic Parameters
Well MW-1B - Bedrock

Analyte	Temp	Eh	pH	Sp. Conduct	Color	Turbidity	ALK as CaCO3	HARD as CaCO3	TDS	Chloride	Sulfate	Bromide	NO3 (As N)	NH4 (As N)	TKN (as N)	COD	BOD	TOC	Phenolics, Tot	Cyanide
Units	(oC)	(mV)	SU	(uS/ cm)	(SU)	(NTU)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Water Quality Standard	--	--	6.5 to 8.5	--	15	5	--	--	500	250	250	2	10	2 *	--	--	--	--	0.001	0.2
Aug-97	--	--	--	--	<5	--	94.8	88	143	<2	5.2	<0.5	0.2	<0.02	<0.2	<15	<2	9.3	<0.001	--
Oct-97	--	--	--	--	<5	--	93.6	140	86	<2	<5	<0.5	<0.1	0.04	<0.2	<15	<2	<1	<0.001	--
3/22/06	5	385	7.7	157	--	187	92	97.6	120	2.55	4.72	< 0.1	< 0.1	0.0938	0.54	< 10	< 3	5.41	< 0.005	--
5/31/06	11.4	45	7.8	257	--	45	94	81.9	111	2.28	5.51	<0.1	<0.1	<0.02	0.755 H	<10	<3	2.34	<0.005	--
8/9/06	16.4	155	7.69	244	<5	70	91	89	142	3.47	5.33	<0.1	<0.1	<0.02	0.497	<10	<3	<2	<0.005	<0.01
10/10/06	15.8	115	7.9	200	--	15.6	89	82	120	0.611	3.76	<0.1	<0.1	<0.1	<0.2	<10	<3	<2	<0.005	--
3/20/07	9.6	84	8.47	156	--	67.4	99	83.6	62	3.24	7.09	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
4/26/07	7.2	-122	8.24	141	--	9.62	96	105	162	4.45	6.31	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	0.006	--
7/31/07	21.5	-143	8.03	1241	--	10.2	100	104	130	3.16	28.8	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
10/10/07	16.3	-80	8.28	943	30	22.8	100	90.8	104	6.44	5.26	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	<0.01
2/1/08	1.7	196	8.66	1075	7	35.8	100	89.3	152	3.15	<5	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	<10
4/16/08	10.2	-78	8.34	245	--	14.6	100	103	130	5.95	9.42	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
7/23/08	20.9	-78	8.33	223	--	12.3	100	107	80	5.61	<5	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
10/24/08	11.8	-78	8.38	229	--	6.33	99	105	140	6.03	<5	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
3/12/09	2.7	-44	7.8	205	--	2.47	92 H	97.1	160	2.86 H	6.37	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
6/17/09	18.7	139	8.13	124	9	8.2	100	111	110	4.74	5.19	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	< 0.01
9/30/09	12.1	155	7.76	1145	--	12.2	98	108	88	6.86	10.4	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
12/1/09	7.5	114	8.23	681	--	16.4	86	206	110	4.71	18.3	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
4/27/10	7.9	173	7.4	975	--	10.8	100	92.9	170	3.54	<5	<0.4	0.0512	<0.5	<0.5	<20	<4	<3	<0.005	--
7/20/10	18.2	167	7.99	1221	15	17	91	106	130	3.63	7.05	<0.8	0.063	<0.5	<0.5	<20	<4	<3	<0.005	<0.01
10/26/10	15.2	104	8.11	228	--	8.46	90	104	200	6.11	<5	<0.8	<0.05	<0.5	0.924	<20	<4	<3	<0.005	--
3/22/11	7.6	225	7.87	234	--	14.1	100	108	80	4.07	<5	<0.8	0.095	<0.5	<0.5	<20	<4	<3	<0.005	--
5/24/11	19.7	100	8.3	206	--	1.08	93	87.4	180	1.7	5.6	<0.8	<0.05	<0.5	<0.5	<20	<4	<3	<0.005	--
9/20/11	17.7	157	8.13	215	--	5.69	100	115	140	3.4	<5	<0.8	<0.05	<0.5	<0.5	<20	<4	<3	<0.05	--
12/14/11	9.1	136	8.56	232	11	22.73	120 J	108	130	1.69 J	7.9	<0.8	0.054	<0.5 J	<0.5	<20	<4	<3	<0.005	<0.01 J
3/21/12	22.8	115	7.93	279	<5	9.46	110 J	124	170	6.68 J	5.8	<0.8 J	<0.05	<0.5	<0.5 J	<20	<4 J	<3	<0.005 J	<0.01
5/22/12	21.2	155	7.19	243	--	16.1	100	111	340	2.47	<5	<0.8	0.075	<0.5	<0.5	<20	<4	<3	<0.005	--

Historical Water Quality Database - Towslee Landfill
Field and Inorganic Parameters
Well MW-2A - Overburden

Analyte	Temp	Eh	pH	Sp. Conduct	Color	Turbidity	ALK as CaCO3	HARD as CaCO3	TDS	Chloride	Sulfate	Bromide	NO3 (As N)	NH4 (As N)	TKN (as N)	COD	BOD	TOC	Phenolics, Tot	Cyanide
Units	(oC)	(mV)	SU	(uS/ cm)	(SU)	(NTU)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Water Quality Standard	--	--	6.5 to 8.5	--	15	5	--	--	500	250	250	2	10	2 *	--	--	--	--	0.001	0.2
Aug-97	--	--	--	--	30	--	702	1300	1180	156	<5	0.8	<0.1	23	31.5	127	6	42.5	0.0071	<0.01
Oct-97	--	--	--	--	60	--	784	720	986	149	<5	<0.5	0.14	9.1	21.2	136	3	24.1	0.0066	<0.01
3/22/06	4.4	140	6.4	621	--	18.6	330	241	381	23.3	4.22	0.189	0.228	10.6	10.6	< 10	16	10.1	< 0.005	--
5/31/06	11.6	-5	6.4	767	--	18.3	355	260	397	25.7	5.5	0.18	<0.1	18.4	14 H	13.8	4.5	7.18	0.008	--
8/9/06	17.2	120	6.15	784	33	195	384	265	491	23.5	3.43	0.237	<0.1	16	16.5	27	3.4	5.67	<0.005	<0.01
10/10/06	14.2	90	6.41	1100	--	27	423	301	487	25.7	3.18	0.261	<0.1	15.1	15	15.6	<3	5.68	<0.005	--
3/20/07	9.2	136	7.31	364	--	48.9	380	225	262	21.2	<5	<0.2	<0.2	10.2	132	<20	6	6.7	<0.005	--
4/26/07	7.7	-62	7.14	450	--	30.7	320	262	355	14.7	<5	<0.2	<0.2	9.89	12.5	<20	7	4.8	0.01	--
7/31/07	18	-81	7.41	395	--	15	420	275	395	24.4	<10	<2	<0.2	14.1	16.1	46	7	7.3	<0.005	--
10/10/07	14.6	-25	7.12	574	210	5.07	290	165	284	10.6	9.93	<2	<0.2	13.5	12.6	22	<4	6.3	<0.005	<0.01
2/1/08	3.1	42	7.94	617	40	7.83	360	246	410	21	<10	<2	<0.2	8.78	10.7	23	<4	21.8	<0.005	<10
4/16/08	11.1	-48	7.81	424	--	26.8	290	203	357	13.5	<5	<200	<0.2	8.2	11.2	21	5	5.2	<0.005	--
7/23/08	19.1	-31	7.58	402	--	49.2	380	303	320	20.2	<20	<20	<0.2	11.9	12.9	36	7	6.3	<0.005	--
10/24/08	12	-34	7.63	695	--	8.52	360	343	356	15.5	<10	<20	<0.2	10.8	11.6	32	<4	6	<0.005	--
3/12/09	3.1	-34	7.63	601	--	5.6	320	229	316	13.7	<5	<2	<0.2	8.43	10.3	<20	<4	4.8	<0.005	--
6/17/09	16.5	239	6.44	413	65	40.9	360	295	220	20.5	<5	<2	<0.2	11.8	13.5	31	12	7.2	<0.005	< 0.01
9/30/09	13	227	6.52	382	--	17.8	340	265	310	17.7	7.79	<2	<0.2	10.3	13.1	32	<4	5.9	<0.005	--
12/1/09	6.4	143	7.78	1406	--	19.6	280	95	230	12.5	10.2	<2	<0.2	8.75	12.5	26	<4	6.5	<0.005	--
1/28/10	4.4	148	7.53	1474	--	492	310	291	360	12.4	<5	<2	<0.2	8.45	11.6	41	8	5.2	<0.005	--
4/27/10	6.6	256	5.94	294	--	41.5	300	235	350	14.5	<5	<2	0.0809	8.06	11.9	23	<4	6.7	0.006	--
7/20/10	18.8	162	7.77	329	55	8.18	360	313	370	22.5	<5	<4	0.139	10.1	16.5	50	7	7.8	<0.005	<0.01
11/12/10	14	17	7.06	613	--	38.1	310	260	300	17.1	<5	<20	0.08	6.9	9.84	20	<4	6	<0.005	--
3/22/11	9.8	6	6.94	519	--	9.77	260	190	200	11.2	<5	<80	0.117	5.38	7.95	<20	<4	4.4	<0.005	--
5/24/11	17.9	-43	7.31	482	--	20.7	250	167	240	8.33	<5	<8	0.073	7.03	8.21	24	<4	<3	<0.005	--
9/20/11	18.4	-47	7.04	653	--	40.12	300	253	340	16.2	<5	<8	0.065	5.16	9.52	<20	9	5.1	<0.005	--
12/14/11	8.2	25	7.62	501	70	24.16	270 J	199	260	10.2 J	<5	<8	0.074	5.24 J	6.86	<20	<4	3.4	<0.005	<0.01 J
3/21/12	21.3	72	6.84	448	<5	25.9	260 J	170	250	8.96 J	<5	<8 J	<0.05	5.32 J	4.95 J	<20	<6 J	7.4	<0.005 J	<0.01
5/23/12	18.9	133	6.72	515	--	27.5	250	207	290	11.6	8.79	<80	0.076	5.9	6.56	36	<4	5.5	<0.005	--

Historical Water Quality Database - Towslee Landfill
Field and Inorganic Parameters
Well MW-2B - Bedrock

Analyte	Temp	Eh	pH	Sp. Conduct	Color	Turbidity	ALK as CaCO3	HARD as CaCO3	TDS	Chloride	Sulfate	Bromide	NO3 (As N)	NH4 (As N)	TKN (as N)	COD	BOD	TOC	Phenolics, Tot	Cyanide
Units	(oC)	(mV)	SU	(uS/ cm)	(SU)	(NTU)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Water Quality Standard	--	--	6.5 to 8.5	--	15	5	--	--	500	250	250	2	10	2 *	--	--	--	--	0.001	0.2
Aug-97	--	--	--	--	5	--	577	960	1640	267	<5	1.1	<0.1	0.95	2.6	58	2	12.3	0.0044	--
Oct-97	--	--	--	--	10	--	673	900	1230	238	<5	0.9	<0.1	1.3	2	61	2	11.9	0.0039	--
3/22/06	4.5	175	6.4	1350	--	17.3	652	697	982	145	1.18	0.878	< 0.1	0.389	1.31	< 10	9.3	< 2	< 0.005	--
5/31/06	10.5	110	6.4	1560	--	19.8	670	726	1020	154	2.96	1.01	0.216	0.824	1.78 H	17.2	5.1	7.76	<0.005	--
8/9/06	15.9	125	6.35	1420	<5	18.7	612	686	1040	122	<1	0.902	<0.1	0.786	1.64	24.6	3.7	4.82	<0.005	0.024
10/10/06	14.5	115	6.52	1540	--	28	646	675	980	121	<1	0.912	<0.1	0.282	1.9	27	13	7.49	0.1	--
3/20/07	9.1	136	7.14	701	--	14.2	650	723	825	167	<5	0.95	<0.2	0.921	1.84	21	<4	6.4	<0.005	--
4/26/07	8.3	-73	7.35	682	--	11	480	575	823	131	<5	<2	<0.2	0.844	1.62	<20	4	3	0.006	--
7/31/07	16.5	-77	7.37	500	--	9.48	600	716	935	163	10	<2	<0.2	1.31	1.67	<20	<4	5.7	<0.005	--
10/10/07	15.8	-34	7.35	329	15	37	640	652	868	161	<5	0.92	<0.2	1.22	1.53	<20	<4	17.2	<0.005	<0.01
2/1/08	3.2	40	8.34	339	7	41.5	640	678	840	160	<5	<2	<0.2	0.785	1.33	24	<4	82.6	<0.005	<10
4/16/08	10.3	-46	7.77	1205	--	13.5	620	654	808	132	<5	<20	<0.2	0.572	1.55	<20	5	23.2	<0.005	--
7/23/08	18.3	-38	7.73	1132	--	15.4	640	728	720	148	7.62	<2	<0.2	1.01	1.03	<20	<4	4.7	<0.005	--
10/24/08	12.9	-33	7.59	1137	--	3.14	680	788	864	162	<5	<0.2	<0.2	0.504	1.13	<20	<4	6.8	<0.005	--
3/12/09	4.9	-22	7.42	1135	--	11	650	678	872	118	<5	<0.2	<0.2	0.642	1.22	<20	<4	4.5	<0.005	--
6/17/09	15.5	237	6.43	739	8	4.17	580	782	870	159	<5	<0.2	<0.2	0.665	1.19	23	<4	5.5	<0.005	< 0.01
9/30/09	13.2	229	6.47	670	--	5.88	650	755	860	150	<5	<0.2	<0.2	0.73	1.07	26	<4	4.6	<0.005	--
12/1/09	8.3	174	7.19	1978	--	14	610	608	680	140	<5	<0.2	<0.2	0.696	1.12	<20	<4	4.6	<0.005	--
1/28/10	3.7	184	6.9	1880	--	12.7	600	609	820	112	7.9	<0.2	<0.2	0.69	1.28	22	<4	3.5	<0.005	--
4/27/10	6.9	249	6.03	567	--	12	610	681	860	130	<5	<0.4	<0.05	1.18	1.55	<20	<4	5.8	0.006	--
7/20/10	19	117	7.52	391	11	17.3	630	730	790	139	<5	<4	0.071	0.812	1.37	<20	<4	5.7	<0.005	<0.01
10/26/10	15.1	153	6.75	1228	--	14.1	600	693	860	127	<5	<0.8	<0.05	<0.5	2.45	25	<4	5.4	<0.005	--
3/22/11	9.8	6	6.94	519	--	9.77	260	190	200	11.2	<5	<80	0.117	5.38	7.95	<20	<4	4.4	<0.005	--
5/24/11	17.9	-43	7.31	482	--	20.7	250	167	240	8.33	<5	<8	0.073	7.03	8.21	24	<4	<3	<0.005	--
9/20/11	18	-2	6.93	1428	--	8.77	630	773	890	108	<5	<8	<0.05	<0.5	1.95	<20	<4	5.4	<0.005	--
12/14/11	7.9	27	7.14	1363	12	18.6	570 J	713	770	102 J	<5 R	<0.8 R	0.064	<0.5 J	1.46	25	<4	3.4	<0.005	<0.01 J
3/21/12	18	88	6.6	1377	<5	17.6	490 J	712	830	123 J	<5	<0.8 J	0.053	<0.5	<0.5 J	<20	<4 J	20.7	<0.005 R	<0.01
5/23/12	18.2	161	6.12	1378	--	5.44	790	643	890	124	<5	<8	<0.05	0.76	0.811	<20	<4	14.4	<0.005	--

Historical Water Quality Database - Towslee Landfill
Field and Inorganic Parameters
Well MW-3A - Bedrock

Analyte	Temp	Eh	pH	Sp. Conduct	Color	Turbidity	ALK as CaCO3	HARD as CaCO3	TDS	Chloride	Sulfate	Bromide	NO3 (As N)	NH4 (As N)	TKN (as N)	COD	BOD	TOC	Phenolics, Tot	Cyanide
Units	(oC)	(mV)	SU	(uS/cm)	(SU)	(NTU)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Water Quality Standard	--	--	6.5 to 8.5	--	15	5	--	--	500	250	250	2	10	2 *	--	--	--	--	0.001	0.2
Aug-97	--	--	--	--	<5	--	145	1250	320	31.4	16	0.5	<0.1	<0.02	0.4	19	<2	4.5	0.0027	--
Oct-97	--	--	--	--	<5	--	146	200	269	28.7	13	<0.5	0.19	0.09	0.24	<15	<2	1.9	<0.001	--
3/22/06	6.4	215	7.2	286	--	58	162	153	215	14	9.14	< 0.1	< 0.1	0.0969	0.455	< 10	< 3	5.58	< 0.005	--
5/31/06	11.7	45	6.9	299	--	11.9	170	179	208	12.7	11	<0.1	<0.1	<0.02	1.09 H	<10	<3	<2	<0.005	--
8/9/06	15.3	115	7.01	342	<5	5.2	140	191	207	13.5	9.98	0.152	<0.1	<0.02	0.239	13	<3	<2	<0.005	<0.01
10/10/06	15.7	220	6.84	397	--	7.2	152	158	207	12.7	8.01	0.143	<0.1	<0.1	0.266	<10	<3	<2	<0.005	--
3/20/07	9.3	-50	7.82	143	--	10.6	82	74	38	3.37	<5	1.2	<0.2	1.45	4.26	47	<4	<3	<0.005	--
4/26/07	5.6	-94	7.64	898	--	19.6	59	58.1	168	1.8	<5	<2	<0.2	<0.5	1.47	<20	8	<3	<0.005	--
7/31/07	17.9	-115	7.84	1757	--	16.4	170	150	210	12	20.5	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
10/10/07	14.6	-76	8.25	939	115	13.7	130	86.2	144	5.73	<5	<2	<0.2	<0.5	<0.5	<20	<4	3.7	<0.005	<0.01
2/1/08	3.4	174	8.06	1074	15	17	110	97.7	115	2.43	<5	<2	0.338	<0.5	<0.5	23	<4	<3	<0.005	<10
4/16/08	12.1	-34	7.62	261	--	17.7	170	123	188	10.5	7.74	<0.2	<0.2	<0.5	<0.5	<20	7	<3	<0.005	--
7/23/08	20.6	-39	7.66	1759	--	17.9	91	76.7	60	1.1	19.9	<20	<0.2	<0.5	0.718	34	9	7.3	<0.005	--
10/24/08	13.5	-41	7.72	204	--	6.67	97	97.9	112	1.75	<5	<2	1.14	<0.5	<0.5	<20	<4	3.6	<0.005	--
3/12/09	4.2	-26	7.49	1069	--	10.9	18	38.1	88	1.85	7.53	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
6/17/09	14.8	359	8.16	187	7	4.55	160	196	120	9.25	11.2	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	< 0.01
9/30/09	14.2	219	6.69	658	--	20.2	50	37.8	100	<1	<5	<2	<0.2	<0.5	0.786	40	8	9.2	<0.005	--
12/1/09	9.9	172	7.32	673	--	22.4	79	65.4	120	<1	<5	<2	<0.2	<0.5	1.36	35	6	5.7	<0.005	--
1/28/10	6.1	101	8.41	646	--	11	180	93.2	160	14.8	<5	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
4/27/10	7.4	263	5.83	706	--	11.8	93	58	75	1.31	<5	<0.8	<0.05	<0.5	1.14	30	10	9	0.006	--
7/20/10	17.9	173	7.8	943	35	13.9	160	194	230	7.44	12.6	<4	0.053	<0.5	1.26	27	<4	<3	<0.005	<0.01
10/26/10	15.6	74	6.9	1806	--	7.61	130	66.9	98	3.3	<5	<4	0.054	<0.5	1.83	29	7	6.6	<0.005	--
3/22/11	8.7	282	6.2	128	--	11.6	75	45.7	60	2.69	<5	<8	0.103	<0.5	<0.5	<20	<4	<3	<0.005	--
5/24/11	16.7	9	7.15	308	--	4.3	150	137	320	2.28	<5	<0.8	<0.05	<0.5	<0.5	<20	<4	<3	<0.005	--
9/20/11	17.4	159	7.38	361	--	4.39	180	187	260	4.03	<5	<8	<0.05	<0.5	0.508	<20	<4	3.1	<0.005	--
12/13/11	7	171	7.71	257	6	10.69	140 J	122	160	3.44 J	6.3	<0.8	<0.05	<0.5 J	<0.5	<20	<4	<3	<0.005	<0.01 J
3/20/12	17.7	194	7.27	284	11	29.9	130 J	147	140	1.88 J	<5	<0.8 J	<0.05	<0.5	<0.5 J	<20	5 J	4.4	<0.005 J	<0.01
5/22/12	20	153	7.07	340	--	41.7	160	146	240	1.59	<5	<8	<0.05	<0.5	<0.5	<20	<4	<3	<0.005	--

Historical Water Quality Database - Towslee Landfill
Field and Inorganic Parameters
Well MW-3B - Bedrock

Analyte	Temp	Eh	pH	Sp. Conduct	Color	Turbidity	ALK as CaCO3	HARD as CaCO3	TDS	Chloride	Sulfate	Bromide	NO3 (As N)	NH4 (As N)	TKN (as N)	COD	BOD	TOC	Phenolics, Tot	Cyanide
Units	(oC)	(mV)	SU	(uS/ cm)	(SU)	(NTU)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Water Quality Standard	--	--	6.5 to 8.5	--	15	5	--	--	500	250	250	2	10	2 *	--	--	--	--	0.001	0.2
Aug-97	--	--	--	--	<5	--	235	280	349	32	13.8	<0.5	<0.1	<0.02	0.3	22	<2	7.9	2.3	--
Oct-97	--	--	--	--	<5	--	190	300	332	33.6	12.4	<0.5	<0.1	0.04	<0.2	<15	<2	3.7	1.1	--
9/20/11	17.1	158	7.68	494	--	25	240	274	310	23.7	7.9	<0.8	<0.05	<0.5	<0.5	<20	6	<3	<0.005	--
12/13/11	9.9	174	7.6	522	<5	7.59	240 J	264	260	27.7 J	11.5	<0.8	0.07	<0.5 J	<0.5	<20	<4	<3	<0.005	<0.01 J
3/20/12	15.8	203	7.04	482	<5	13.2	260 J	262	250	23.8 J	8.7	<0.8 J	<0.05	<0.5	<0.5 J	<20	<4 J	4.5	<0.005 J	<0.01
5/22/12	18.3	170	6.61	479	--	2.51	210	259	300	23.4	7.7	<0.8	0.07	<0.5	<0.5	<20	<4	<3	<0.005	--

Historical Water Quality Database - Towslee Landfill
Field and Inorganic Parameters
Well MW-4A - Bedrock

Analyte	Temp	Eh	pH	Sp. Conduct	Color	Turbidity	ALK as CaCO3	HARD as CaCO3	TDS	Chloride	Sulfate	Bromide	NO3 (As N)	NH4 (As N)	TKN (as N)	COD	BOD	TOC	Phenolics, Tot	Cyanide
Units	(oC)	(mV)	SU	(uS/ cm)	(SU)	(NTU)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Water Quality Standard	--	--	6.5 to 8.5	--	15	5	--	--	500	250	250	2	10	2 *	--	--	--	--	0.001	0.2
Aug-97	--	--	--	--	<5	--	253	308	550	79.1	9.8	<0.5	<0.1	<0.02	0.5	37	<2	7.7	1.8	--
Oct-97	--	--	--	--	<5	--	355	464	493	74.6	11.5	<0.5	<0.1	0.2	0.4	22	<2	5.6	<1.0	--
9/20/11	17.5	174	7.36	789	--	5.86	410	496	490	23.6	10.5	<0.8	<0.05	<0.5	<0.5	<20	5	4	<0.005	--
12/13/11	8.6	174	7.48	734	6	10.34	400 J	430	430	25.5 J	11.1	<0.8	<0.05	<0.5 J	<0.5	<20	<4	<3	<0.005	<0.01 J
3/20/12	14.6	193	7.1	762	<5	35	460 J	444	460	21.5 J	7	<0.8 J	<0.05	<0.5	<0.5 J	<20	<4 J	8.4	<0.005 J	<0.01
5/22/12	15.8	160	6.83	714	--	7.45	350	384	490	22.3	6.5	<8	<0.05	<0.5	<0.5	<20	<4	<3	<0.005	--

Historical Water Quality Database - Towslee Landfill
Field and Inorganic Parameters
Well MW-5A - Bedrock

Analyte	Temp	Eh	pH	Sp. Conduct	Color	Turbidity	ALK as CaCO3	HARD as CaCO3	TDS	Chloride	Sulfate	Bromide	NO3 (As N)	NH4 (As N)	TKN (as N)	COD	BOD	TOC	Phenolics, Tot	Cyanide
Units	(oC)	(mV)	SU	(uS/ cm)	(SU)	(NTU)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Water Quality Standard	--	--	6.5 to 8.5	--	15	5	--	--	500	250	250	2	10	2 *	--	--	--	--	0.001	0.2
Aug-97	--	--	--	--	20	--	130	250	116	44.5	22	<0.5	0.8	<0.02	0.4	16	<2	2.7	1.1	--
Oct-97	--	--	--	--	<5	--	115	140	156	10.1	11.5	<0.5	<0.1	0.18	0.24	<15	<2	<1.0	<1.0	--

Historical Water Quality Database - Towslee Landfill
Field and Inorganic Parameters
Well MW-6A - Overburden

Analyte	Temp	Eh	pH	Sp. Conduct	Color	Turbidity	ALK as CaCO3	HARD as CaCO3	TDS	Chloride	Sulfate	Bromide	NO3 (As N)	NH4 (As N)	TKN (as N)	COD	BOD	TOC	Phenolics, Tot	Cyanide
Units	(oC)	(mV)	SU	(uS/ cm)	(SU)	(NTU)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Water Quality Standard	--	--	6.5 to 8.5	--	15	5	--	--	500	250	250	2	10	2 *	--	--	--	--	0.001	0.2
Aug-97	--	--	--	--	60	--	357	650	595	79.1	13.8	0.9	<0.1	1.6	1.5	94	3	14	3	<10
Oct-97	--	--	--	--	80	--	325	550	472	71.8	30.6	1	<0.1	0.02	<0.2	82	6	10.6	1.8	<10
9/20/11	17.8	125	7.04	446	--	33.14	200	208	270	21.4	10.6	<0.8	<0.05	<0.5	<0.5	<20	<4	<3	<0.005	--
12/13/11	9.8	156	7.87	425	200	8.52	210 J	194	280	13.9 J	16.1	<0.8	<0.05	<0.5 J	1.12	<20	<4	<3	<0.005	<0.01 J
3/20/12	23.8	193	7.38	415	<5	922	200 J	197	230	8.86 J	13.8	<8 J	0.094	<0.5 J	1.16 J	<20	<6 R	5.6	<0.005 J	<0.01
5/22/12	18.9	133	7.35	408	--	241	130	169	310	20	13.6	<8	0.09	<0.5	1.89	<20	<4	<3	<0.005	--

Historical Water Quality Database - Towslee Landfill
Field and Inorganic Parameters
Well MW-6B - Bedrock

Analyte	Temp	Eh	pH	Sp. Conduct	Color	Turbidity	ALK as CaCO3	HARD as CaCO3	TDS	Chloride	Sulfate	Bromide	NO3 (As N)	NH4 (As N)	TKN (as N)	COD	BOD	TOC	Phenolics, Tot	Cyanide
Units	(oC)	(mV)	SU	(uS/ cm)	(SU)	(NTU)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Water Quality Standard	--	--	6.5 to 8.5	--	15	5	--	--	500	250	250	2	10	2 *	--	--	--	--	0.001	0.2
Aug-97	--	--	--	--	<5	--	240	300	98	38.2	27.1	<0.5	0.6	0.09	0.6	40	<2	6	0.0032	--
Oct-97	--	--	--	--	20	--	224	240	280	35	22.2	<0.5	<0.1	2.5	3.3	19	2	5.8	<0.001	--
3/22/06	7.9	250	6.7	347	--	40	131	135	209	21.1	13.8	< 0.1	< 0.1	0.0549	0.392	< 10	< 3	5.22	< 0.005	--
5/31/06	10.5	85	7.4	287	--	19.9	148	144	175	2.33	3.95	<0.1	<0.1	<0.02	0.904 H	<10	5.1	3.14	<0.005	--
8/9/06	12.2	225	7.52	304	<5	15.8	154	131	190	2.32	3.28	0.122	<0.1	0.096	0.214	11.6	3.2	<2	<0.005	<0.01
10/10/06	14.3	180	7.11	329	--	14.2	153	133	187	3.39	6.14	<0.1	<0.1	<0.1	0.279	<10	<3	<2	<0.005	--
3/20/07	9.7	82	8.04	220	--	68.9	180	156	127	11.6	8.54	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
4/26/07	7.4	-92	7.73	249	--	8.1	160	139	105	6.99	6.79	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
7/31/07	15.6	-105	7.85	236	--	9.48	150	138	220	13.8	17.3	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
10/10/07	14.8	-57	7.82	810	6	12.5	140	124	208	25.9	12.7	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	<0.01
2/1/08	3.7	121	8.55	199	7	13.6	140	136	198	16.7	18.1	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	<10
4/16/08	10.4	-71	8.25	360	--	11.6	140	142	225	16.9	16.5	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
7/23/08	16.1	-81	8.21	343	--	2.19	110	137	116	31.1	26.8	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
10/24/08	12.6	-54	7.96	355	--	5.24	120	134	168	28.6	17.2	<2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
3/12/09	6.5	-38	7.7	327	--	9.56	120	142	188	13.3	13.2	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
6/17/09	14.1	186	7.32	187	11	3.62	140	154	190 H	19.4	14.2	<2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	< 0.01
9/30/09	12.7	190	7.2	1999	--	5.13	140	148	170	19.7	10.3	<0.2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
12/1/09	9	180	7.09	1108	--	13.3	140	138	130	14.7	13.5	<2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
1/28/10	4.7	102	8.35	922	--	12.5	150	163	240	13.2	13.4	<2	<0.2	<0.5	<0.5	<20	<4	<3	<0.005	--
4/27/10	8.1	222	6.54	1673	--	43.6	150	147	220	12	7.57	<1	0.0804	<0.5	0.522	<20	<4	<3	<0.005	--
7/20/10	18.2	144	7.66	249	35	4.71	140	144	200	14	11	<0.8	0.092	<0.5	<0.5	<20	<4	<3	<0.005	<0.01
10/26/10	14.6	132	7.39	342	--	16	160	147	190	16	11.2	<1.6	0.051	<0.5	0.799	<20	<4	<3	<0.005	--
3/22/11	9.8	102	7.41	372	--	10.8	130	145	160	11.9	15	<0.8	0.47	<0.5	<0.5	<20	<4	<3	<0.005	--
5/24/11	15.7	88	7.75	399	--	7.65	150	153	250	16.4	19.2	<0.8	0.058	<0.5	<0.5	<20	<4	<3	<0.005	--
9/20/11	16.7	133	7.34	355	--	6.94	160	172	230	12.7	18.7	<0.8	0.056	<0.5	<0.5	<20	<4	<3	<0.005	--
12/13/11	10.6	153	8.25	387	5	4.1	180 J	166	200	19.4 J	18.6	<0.8	0.087	<0.5 J	0.546	<20	<4	<3	<0.005	<0.01 J
3/20/12	18.5	190	7.3	344	<5	6.83	140 J	146	170	16.2 J	21.5	<0.8 J	0.073	<0.5	<0.5 J	<20	<4 J	<3	<0.005 J	<0.01
5/22/12	17.7	139	7.29	363	--	17.1	190	150	240	10.1	17.9	<80	0.081	<0.5	<0.5	<20	<4	<3	<0.005	--

Historical Water Quality Database - Towslee Landfill
Field and Inorganic Parameters
Well MW-7A - Overburden

Analyte	Temp	Eh	pH	Sp. Conduct	Color	Turbidity	ALK as CaCO3	HARD as CaCO3	TDS	Chloride	Sulfate	Bromide	NO3 (As N)	NH4 (As N)	TKN (as N)	COD	BOD	TOC	Phenolics, Tot	Cyanide
Units	(oC)	(mV)	SU	(uS/ cm)	(SU)	(NTU)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
Water Quality Standard	--	--	6.5 to 8.5	--	15	5	--	--	500	250	250	2	10	2 *	--	--	--	--	0.001	0.2
Aug-97	--	--	--	--	20	--	569	1010	1220	300	27.4	0.6	<0.1	0.93	1.1	43	<2	10.1	0.0051	<0.01
10/1/97	--	--	--	--	5	--	660	1150	1240	276	20.2	<0.5	0.2	0.89	1.4	112	2	12.6	0.0027	<0.01
3/22/06	4.5	215	6.5	1360	--	214	648	627	981	144	20.6	0.753	< 0.1	0.34	1.5	21.2	< 3	12.8	< 0.005	--
5/31/06	11.6	120	6.4	1520	--	18	675	599	967	143	22.5	0.633	<0.1	<0.02	1.68 H	16.5	<3	8.19	0.007	--
8/9/06	17.4	245	6.34	1440	<5	13.6	595	531	963	119	19.7	0.822	<0.1	<0.02	0.75	26.4	<3	6.12	<0.005	<0.01
10/10/06	13.9	190	6.62	1480	--	42	635	526	949	85	14.1	0.483	<0.1	<0.1	1.11	20.5	<3	7.46	<0.005	--
3/20/07	9.3	77	7.04	893	--	45.3	640	529	753	145	16.5	0.6	<0.2	<0.5	1.47	27	<4	8.1	<0.005	--
4/26/07	7.8	-64	7.12	765	--	54.3	510	499	865	131	23.2	<0.2	<0.2	<0.5	3.6	<20	<4	6	0.006	--
7/31/07	18.8	-69	7.2	514	--	40.9	530	481	3000	145	22.7	<2	<0.2	<0.5	0.784	<20	<4	7.2	0.007	--
10/10/07	15.2	-24	7.11	972	85	48.1	540	459	752	141	17.8	<2	<0.2	<0.5	0.591	<20	<4	11.5	<0.005	<0.01
2/1/08	2	245	7.77	561	7	39.3	570	528	800	141	12.2	<2	<0.2	<0.5	0.522	<20	<4	69.9	<0.005	<10
4/16/08	9.8	-37	7.63	1174	--	44.4	560	506	1560	1260	<20	<200	0.25	<0.5	0.949	36	<4	17.8	<0.005	--
7/23/08	18.6	-42	7.73	618	--	41.6	600	538	668	136	21	<20	<0.2	<0.5	<0.5	22	<4	5.2	<0.005	--
10/24/08	11.1	-41	8.09	214	--	42.7	670	569	728	135	16.1	<20	<0.2	<0.5	<0.5	29	<4	6.1	<0.005	--
3/12/09	4.2	-19	7.35	1014	--	40.9	500	496	748	114	21	<0.2	<0.2	<0.5	1.92	<20	<4	5.1	<0.005	--
6/17/09	16	219	6.77	622	80	375	500	534	720	128	22.3	<0.2	<0.2	<0.5	0.851	38	<4	5.7	<0.005	< 0.01
9/30/09	12.6	194	7.12	644	--	33.5	480	499	620	120	19.5	<2	<0.2	<0.5	0.927	37	<4	5	<0.005	--
12/1/09	8.1	141	7.86	217	--	40.1	520	473	640	117	23.1	<2	<0.2	<0.5	0.599	21	<4	5.2	<0.005	--
1/28/10	5.2	192	6.73	260	--	23.6	600	508	520	104	19.2	<2	<0.2	<0.5	1.02	33	<4	4.9	<0.005	--
4/27/10	7.3	246	6.13	483	--	31.4	500	435	730	89.1	22.5	<1	<0.05	<0.5	1.4	28	<4	6.7	<0.005	--
7/20/10	19	149	7.89	412	8	20.1	510	520	690	128	25.2	<4	0.059	<0.5	1.27	31	<4	6	<0.005	<0.01
10/26/10	14.5	155	6.87	1133	--	328	520	507	710	115	23.9	<8	<0.05	<0.5	2.15	40	<4	6.1	<0.005	--
3/22/11	9	260	6.78	1184	--	20.7	600	484	660	95.7	21.7	<80	0.103	<0.5	0.639	28	<4	5.1	<0.005	--
5/24/11	18.3	135	7.02	1179	--	69.2	510	465	710	99	18.7	<8	<0.05	<0.5	<0.5	33	<4	4.8	<0.005	--
9/20/11	18	166	6.92	1236	--	169	560	585	750	100	18.8	<8	0.081	<0.5	1.03	29	<4	6.1	<0.005	--
12/13/11	8.6	185	7.26	1127	7	36.38	550 J	505	620	108 J	21.6	<8	0.063	<0.5 J	2.19	40	<4	4.1	<0.005	<0.01 J
3/21/12	18	172	6.74	1172	6	24.6	500 J	524	1000	99.4 J	21.9	<80 J	<0.05	<0.5	<0.5 J	22	<4 J	15.1	<0.005 J	<0.01
5/22/12	15.8	184	6.36	1085	--	>1000 E	520	449	630	99.5	20	<80	<0.05	<0.5	<0.5	22	<4	7.3	<0.005	--

Historical Water Quality Data - Towslee Landfill

CD-1 Total Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
9/20/11	--	--	--	--	--	--	<0.005	45.2	--	--	--	--	0.126	<0.003	9.04	0.18	--	--	<5	<5	--	--	--	--	--
12/13/11	0.383	<0.005 J	<0.005 J	0.077	<0.003	<0.5	<0.005	41.6	<0.01	<0.01	<0.02	<0.01	0.688	<0.003 J	10.1	0.256	<0.0002	<0.03	<5	<5	<0.003 J	<0.01	<0.003 J	<0.03	<0.01
3/20/12	1.32	<0.005	<0.005	0.106	<0.003	<0.5	<0.005	40.7	<0.01	<0.01	<0.02	<0.01	2.04 J	<0.003	10.3	1.62	<0.0002	<0.03	<5	<5	<0.003	<0.01 J	<0.003	<0.03	0.0119
5/22/12	--	--	--	--	--	--	<0.005	41.2	--	--	--	--	2.34	<0.003	10.5	1.3	--	--	<5	<5	--	--	--	--	--

Historical Water Quality Data - Towslee Landfill

CD-1RA Total Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	0.587	0.0035 B	0.0032 B	0.168 B	<0.0001	0.0227 B	<0.0003	41.5	0.0042 B	NA	<0.0011	0.004 B	1.01	0.0017 B	9.5	0.19	NA	<0.0013	1.01 B	5.41	NA	NA	<0.0026	<0.0012	0.024
Oct-97	5.24	0.0031 B	0.004 B	0.229	0.0011 B	0.0253 B	0.0011 B	45.7	0.0089 B	NA	0.0053 B	0.0085 B	10.3	0.0049	10.4	0.352	NA	0.0104 B	1.91 B	4.76 B	NA	NA	<0.0026	0.0086 B	0.0366
9/20/11	--	--	--	--	--	--	<0.005	41	--	--	--	--	0.662	<0.003	7.95	0.119	--	--	<5	<5	--	--	--	--	--
12/13/11	1.7	<0.005 J	<0.005 J	0.2	<0.003	<0.5	<0.005	44.1	<0.01	<0.01	<0.02	<0.01	2.75	<0.003 J	10.8	0.211	<0.0002	<0.03	<5	6.69	<0.003 J	<0.01	<0.003 J	<0.03	0.0146
3/20/12	0.145	<0.005	<0.005	0.243	<0.003	<0.5	<0.005	47.1	<0.01	<0.01	<0.02	<0.01	0.248 J	<0.003	11.4	0.188	<0.0002	<0.03	<5	6.24	<0.003	<0.01 J	<0.003	<0.03	<0.01
5/22/12	--	--	--	--	--	--	<0.005	43.1	--	--	--	--	0.509	<0.003	11.5	0.23	--	--	<5	5.26	--	--	--	--	--

Historical Water Quality Data - Towslee Landfill

MW-1A Total Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	724	<0.003	0.353	8.11	0.0287	0.0873 B	<0.0003	430	1.04	--	0.59	0.996	1550	0.454	309	24.6	0.0014	1.33	77.5	37.3	<0.028	<0.009	<0.026	0.856	3.36
Oct-97	16.9	<0.003	0.0134	0.258	0.00083 B	0.0665 B	<0.0003	48.6	0.0265	--	0.0168 B	0.0254	35.7	0.0123	15.6	0.783	<0.0001	0.0364 B	6.97	26	<0.0028	<0.0009	<0.0026	0.0243 B	0.0874
3/22/06	--	--	--	--	--	--	<0.005	46.2	--	--	--	--	19.4	0.00716	12.6	0.534	--	--	2.72	17.1	--	--	--	--	--
5/31/06	--	--	--	--	--	--	<0.005	41.8	--	--	--	--	2.99	0.007	8.67	0.194	--	--	1.6	13	--	--	--	--	--
8/9/06	2.96	<0.05	<0.025	0.104	<0.005	0.073	<0.005	43.2	<0.005	<0.02	<0.015	0.022	6.03	<0.005	9.7	0.38	<0.0004	<0.01	1.7	13.6	<0.02	<0.015	<0.03	<0.015	0.106
10/10/06	--	--	--	--	--	--	<0.005	43.9	--	--	--	--	2.11	<0.005	9.43	0.306	--	--	1.62	13.5	--	--	--	--	--
3/20/07	--	--	--	--	--	--	<0.005	39.2	--	--	--	--	1.67	<0.003	8.87	0.19	--	--	1.74	12.2	--	--	--	--	--
4/26/07	--	--	--	--	--	--	<0.005	44.5	--	--	--	--	2.14	<0.003	10.2	0.193	--	--	2.31	12.5	--	--	--	--	--
7/31/07	--	--	--	--	--	--	<0.005	43.5	--	--	--	--	1.21	<0.003	9.67	0.206	--	--	1.59	13	--	--	--	--	--
10/10/07	2.07	<0.015	<0.01	0.0917	<0.003	<0.5	<0.005	42.2	<0.005	<0.01	<0.02	<0.01	3.49	<0.003	9.8	0.203	<0.0002	<0.03	2.06	11.8	<0.005	<0.01	<0.01	<0.03	0.0235
4/16/08	--	--	--	--	--	--	<0.005	43.2	--	--	--	--	1.17	<0.003	10.6	0.157	--	--	1.65	12.5	--	--	--	--	--
7/23/08	--	--	--	--	--	--	<0.005	46.2	--	--	--	--	0.217	<0.003	10.7	0.135	--	--	1.51	13.8	--	--	--	--	--
10/24/08	--	--	--	--	--	--	<0.005	48.3	--	--	--	--	0.429	<0.003	10.8	0.151	--	--	1.69	13.2	--	--	--	--	--
3/12/09	--	--	--	--	--	--	<0.005	47.2	--	--	--	--	0.818	<0.003	10.6	0.0917	--	--	1.52	13.4	--	--	--	--	--
6/17/09	1.57	<0.015	<0.01	0.0732	<0.003	<0.5	<0.005	47	<0.005	<0.01	<0.02	<0.01	1.65	<0.003	11.1	0.169	<0.0002	<0.03	1.78	13.9	<0.005	<0.01	<0.01	<0.03	<0.01
9/30/09	--	--	--	--	--	--	<0.005	46.5	--	--	--	--	0.348	<0.003	10	0.155	--	--	<1	12.5	--	--	--	--	--
12/1/09	--	--	--	--	--	--	<0.005	45	--	--	--	--	6.19	<0.003	11.9	0.251	--	--	<5	12.6	--	--	--	--	--
4/27/10	--	--	--	--	--	--	<0.005	47	--	--	--	--	0.484	<0.003	10.5	0.118	--	--	<5	12.8	--	--	--	--	--
7/20/10	0.142	<0.005	<0.005	0.0757	<0.003	<0.5	<0.005	48.9	<0.01	<0.01	<0.02	<0.01	0.219	<0.003	10.8	0.156	<0.0002	<0.03	<5	13.2	<0.003	<0.01	<0.003	<0.03	<0.01
10/26/10	--	--	--	--	--	--	<0.005	49	--	--	--	--	1.99	<0.003	11.3	0.329	--	--	<5	15.3	--	--	--	--	--
3/22/11	--	--	--	--	--	--	<0.005	45.6	--	--	--	--	1.47	<0.003	11	0.236	--	--	<5	13.6	--	--	--	--	--
5/24/11	--	--	--	--	--	--	<0.005	46.9	--	--	--	--	3.13	<0.003	11.5	0.215	--	--	<5	13.1	--	--	--	--	--
9/20/11	--	--	--	--	--	--	<0.005	51.5	--	--	--	--	0.872	<0.003	10.5	0.139	--	--	<5	13.2	--	--	--	--	--
12/14/11	0.711	<0.005 J	<0.005 J	0.0774	<0.003	<0.5	<0.005	51	<0.01	<0.01	<0.02	<0.01	0.987	<0.003 J	12	0.119	<0.0002	<0.03	<5	14.9	<0.003 J	<0.01	<0.003 J	<0.03	<0.01
3/21/12	19.1	<0.005	0.0115 J	0.273	<0.003	<0.5	<0.005	58.2	0.0267	<0.01	<0.02	0.0218	33.7 J	0.0108	19.3	0.691	<0.0002	0.0409	<5	15.6	<0.003	<0.01 J	<0.003	<0.03	0.0792
5/22/12	--	--	--	--	--	--	<0.005	49.4	--	--	--	--	1.65	<0.003	12.6	0.121	--	--	<5	12.6	--	--	--	--	--

Historical Water Quality Data - Towslee Landfill

MW-1B Total Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	0.662	<0.003	<0.0024	0.168 B	0.0001 B	0.0197 B	<0.0003	26.7	0.002 B	--	<0.0011	0.004 B	1.33	<0.001	6.47	0.195	--	<0.0013	1.56 B	7.38	--	--	<0.0026	<0.0012	0.0351
Oct-97	0.134 B	<0.003	<0.0024	0.154 B	<0.0001	0.0247 B	<0.0003	24.7	<0.0004	--	<0.0011	0.0025 B	0.226	<0.001	5.84	0.146	--	<0.0013	0.529 B	6.18	--	--	<0.0026	<0.0012	0.0163 B
3/22/06	--	--	--	--	--	--	--	<0.005	26.8	--	--	--	--	9.42	<0.005	7.46	2.28	--	--	0.973	6.31	--	--	--	--	--
5/31/06	--	--	--	--	--	--	--	<0.005	23.9	--	--	--	--	1.48	<0.005	5.39	0.191	--	--	0.468	5.22	--	--	--	--	--
8/9/06	1.09	<0.05	<0.025	0.194	<0.005	<0.05	<0.005	25.8	<0.005	<0.02	<0.015	0.017	1.84	<0.005	6.05	0.251	<0.0004	<0.01	0.523	6.35	<0.02	<0.015	<0.03	<0.015	0.052
10/10/06	--	--	--	--	--	--	--	<0.005	24.1	--	--	--	--	0.273	<0.005	5.31	0.126	--	--	0.374	5.92	--	--	--	--	--
3/20/07	--	--	--	--	--	--	--	<0.005	23.7	--	--	--	--	2.39	0.00431	5.94	0.521	--	--	<1	5.22	--	--	--	--	--
4/26/07	--	--	--	--	--	--	--	<0.005	30	--	--	--	--	0.508	<0.003	7.4	0.169	--	--	<1	6.82	--	--	--	--	--
7/31/07	--	--	--	--	--	--	--	<0.005	29.9	--	--	--	--	0.465	<0.003	7.12	0.19	--	--	<1	7.1	--	--	--	--	--
10/10/07	0.537	<0.015	<0.01	0.172	<0.003	<0.5	<0.005	26	<0.005	<0.01	<0.02	<0.01	0.73	<0.003	6.28	0.176	<0.0002	<0.03	<1	5.84	<0.005	<0.01	<0.01	<0.03	0.0168
2/1/08	0.518	<0.015	<0.01	0.199	<0.003	<0.5	<0.005	25.1	<0.005	<0.01	<0.02	<0.01	1	<0.003	6.44	0.26	<0.0002	<0.03	<1	5.66	<0.005	<0.01	<0.01	<0.03	0.0112
4/16/08	--	--	--	--	--	--	--	<0.005	28.6	--	--	--	--	1.38	<0.003	7.58	0.198	--	--	<1	6.73	--	--	--	--	--
7/23/08	--	--	--	--	--	--	--	<0.005	30.2	--	--	--	--	0.185	<0.003	7.74	0.169	--	--	<1	7.29	--	--	--	--	--
10/24/08	--	--	--	--	--	--	--	<0.005	30	--	--	--	--	0.174	<0.003	7.28	0.153	--	--	<1	6.81	--	--	--	--	--
3/12/09	--	--	--	--	--	--	--	0.00542	27.7	--	--	--	--	2.92	<0.003	6.76	0.223	--	--	<1	6.37	--	--	--	--	--
6/17/09	0.255	<0.03	<0.01	0.232	<0.003	<0.5	<0.005	31.4	<0.01	<0.01	<0.02	<0.01	0.523	<0.003	7.83	0.25	<0.0002	<0.03	<1	8.15	<0.005	<0.01	<0.01	<0.03	<0.01
9/30/09	--	--	--	--	--	--	--	<0.005	31.1	--	--	--	--	0.115	<0.003	7.34	0.149	--	--	<1	7.32	--	--	--	--	--
12/1/09	--	--	--	--	--	--	--	<0.005	58.7	--	--	--	--	6.72	<0.003	14.4	9.34	--	--	8.56	14.9	--	--	--	--	--
4/27/10	--	--	--	--	--	--	--	<0.005	26.5	--	--	--	--	0.423	<0.003	6.49	0.13	--	--	<5	6.29	--	--	--	--	--
7/20/10	<0.1	<0.005	<0.005	0.204	<0.003	<0.5	<0.005	30.3	<0.01	<0.01	<0.02	<0.01	0.159	<0.003	7.27	0.188	<0.0002	<0.03	<5	7.12	<0.003	<0.01	<0.003	<0.03	<0.01
10/26/10	--	--	--	--	--	--	--	<0.005	29.7	--	--	--	--	1.02	<0.003	7.29	0.153	--	--	<5	8.95	--	--	--	--	--
3/22/11	--	--	--	--	--	--	--	<0.005	30.5	--	--	--	--	1.19	<0.003	7.75	0.269	--	--	<5	7.99	--	--	--	--	--
5/24/11	--	--	--	--	--	--	--	<0.005	24.9	--	--	--	--	<0.06	<0.003	6.14	0.24	--	--	<5	6.48	--	--	--	--	--
9/20/11	--	--	--	--	--	--	--	<0.005	34.3	--	--	--	--	0.121	<0.003	7.05	0.275	--	--	<5	27	--	--	--	--	--
12/14/11	0.305	<0.005 J	<0.005 J	0.185	<0.003	<0.5	<0.005	30.8	<0.01	<0.01	<0.02	<0.01	0.341	<0.003 J	7.66	0.0807	<0.0002	<0.03	<5	8.23	<0.003 J	<0.01	<0.003 J	<0.03	<0.01
3/21/12	0.141	<0.005	<0.005	0.222	<0.003	<0.5	<0.005	35	<0.01	<0.01	<0.02	<0.01	0.238 J	<0.003	8.85	0.223	<0.0002	<0.03	<5	9.91	<0.003	<0.01 J	<0.003	<0.03	<0.01
5/22/12	--	--	--	--	--	--	--	<0.005	30.4	--	--	--	--	3.2	0.00423	8.66	0.232	--	--	<5	7.92	--	--	--	--	--

Historical Water Quality Data - Towslee Landfill

MW-2A Total Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	79.3	0.0049 B	0.0631	1.75	0.0037 B	1.21	<0.0003	186	0.112	--	0.0719	0.104	154	0.0561	61.6	35.7	<0.0001	0.151	23.4	119	<0.0028	0.0024 B	0.004 B	0.102	0.4
Oct-97	59.1	<0.003	0.0537	1.49	0.0025 B	0.961	0.0016 B	172	0.0967	--	0.0628	0.0779	131	0.0436	53.6	31.6	<0.0001	0.132	17	102	<0.0028	0.0014 B	<0.0026	0.0866	0.278
3/22/06	--	--	--	--	--	--	<0.005	69.1	--	--	--	--	8.29	<0.005	16.6	12.2	--	--	9.29	26.3	--	--	--	--	--
5/31/06	--	--	--	--	--	--	<0.005	74.1	--	--	--	--	24	0.019	18.3	11.5	--	--	11.2	25.2	--	--	--	--	--
8/9/06	0.43	<0.05	<0.025	0.502	<0.005	0.584	<0.005	77.3	<0.005	<0.02	<0.015	0.012	6.5	<0.005	17.5	12	<0.0004	<0.01	12.3	31.4	<0.02	<0.015	<0.03	<0.015	<0.01
10/10/06	--	--	--	--	--	--	<0.005	88.5	--	--	--	--	10.1	0.006	19.4	13.6	--	--	12.7	31.4	--	--	--	--	--
3/20/07	--	--	--	--	--	--	<0.005	64.2	--	--	--	--	10.8	0.00524	15.7	9.93	--	--	9.02	19.5	--	--	--	--	--
4/26/07	--	--	--	--	--	--	<0.005	75.3	--	--	--	--	6.86	<0.003	17.9	11.7	--	--	10.8	22.9	--	--	--	--	--
7/31/07	--	--	--	--	--	--	<0.005	80.4	--	--	--	--	7.67	<0.003	18	12.7	--	--	13.3	26.1	--	--	--	--	--
10/10/07	0.444	<0.015	<0.01	0.265	<0.003	<0.5	<0.005	47.9	<0.005	<0.02	<0.02	<0.01	4.95	<0.003	11	7.05	<0.0002	<0.03	2.14	13.8	<0.005	<0.01	<0.01	<0.03	<0.01
2/1/08	1.98	<0.015	0.0145	0.377	<0.003	<0.5	<0.005	70.3	0.0177	<0.05	<0.02	<0.01	9.77	<0.003	17.1	11.2	<0.0002	<0.03	8.56	19.2	<0.005	<0.01	<0.01	<0.03	0.0101
4/16/08	--	--	--	--	--	--	<0.005	57.5	--	--	--	--	4.1	<0.003	14.3	9.3	--	--	7.56	16.5	--	--	--	--	--
7/23/08	--	--	--	--	--	--	<0.005	87.8	--	--	--	--	10.6	0.0039	20.3	13.8	--	--	12.3	25.6	--	--	--	--	--
10/24/08	--	--	--	--	--	--	<0.005	99	--	--	--	--	9.51	<0.003	23.1	15.1	--	--	15.1	25.9	--	--	--	--	--
3/12/09	--	--	--	--	--	--	<0.005	66.7	--	--	--	--	7.77	<0.003	15.1	10.7	--	--	7.48	17.8	--	--	--	--	--
6/17/09	<0.1	<0.03	<0.01	0.471	<0.003	<0.5	<0.005	87.1	<0.01	<0.01	<0.02	<0.01	8.28	<0.003	18.8	12.8	<0.0002	<0.03	12.4	23.8	<0.005	<0.01	<0.01	<0.03	<0.01
9/30/09	--	--	--	--	--	--	<0.005	78.6	--	--	--	--	5.21	<0.003	16.8	11.4	--	--	13.6	21.1	--	--	--	--	--
12/1/09	--	--	--	--	--	--	<0.005	26.5	--	--	--	--	0.827	<0.003	7.01	0.144	--	--	<5	6.59	--	--	--	--	--
1/28/10	--	--	--	--	--	--	<0.005	71.1	--	--	--	--	64.2	0.0187	27.6	11.6	--	--	12.8	15.5	--	--	--	--	--
4/27/10	--	--	--	--	--	--	<0.005	68.7	--	--	--	--	6.1	<0.003	15.4	9.79	--	--	9.42	16.3	--	--	--	--	--
7/20/10	3.37	<0.005	<0.005	0.545	<0.003	<0.5	<0.005	91.2	<0.01	<0.01	<0.02	<0.01	13	<0.003	20.6	12.2	<0.0002	<0.03	14.3	21.9	<0.003	<0.01	<0.003	<0.03	0.0269
11/12/10	--	--	--	--	--	--	<0.005	74.6	--	--	--	--	9.73	<0.003	17.9	11.1	--	--	11.9	19	--	--	--	--	--
3/22/11	--	--	--	--	--	--	<0.005	54.9	--	--	--	--	4.73	<0.003	12.9	8.18	--	--	7.2	13.5	--	--	--	--	--
5/24/11	--	--	--	--	--	--	<0.005	48.7	--	--	--	--	4.27	<0.003	11	7.05	--	--	7.47	12.5	--	--	--	--	--
3/22/11	--	--	--	--	--	--	<0.005	54.9	--	--	--	--	4.73	<0.003	12.9	8.18	--	--	7.2	13.5	--	--	--	--	--
5/24/11	--	--	--	--	--	--	<0.005	48.7	--	--	--	--	4.27	<0.003	11	7.05	--	--	7.47	12.5	--	--	--	--	--
9/20/11	--	--	--	--	--	--	<0.005	76.9	--	--	--	--	5.34	<0.003	14.8	9.08	--	--	11.4	22.1	--	--	--	--	--
12/14/11	0.317	<0.005 J	<0.005 J	0.269	<0.003	<0.5	<0.005	58.1	<0.01	<0.01	<0.02	<0.01	5.42	<0.003 J	13.1	7.78	<0.0002	<0.03	7.62	13.6	<0.003 J	<0.01	<0.003 J	<0.03	<0.01
3/21/12	0.323	<0.005	0.00679 BJ	0.259	<0.003	<0.5	<0.005	49.6	<0.01	<0.01	<0.02	<0.01	2.9 J	<0.003	11.2	6.81	<0.0002	<0.03	6.33	11	<0.003	<0.01 J	<0.003	<0.03	<0.01
5/23/12	--	--	--	--	--	--	<0.005	59.2	--	--	--	--	3.15	<0.003	14.4	8.49	--	--	8.15	11.9	--	--	--	--	--

Historical Water Quality Data - Towslee Landfill

MW-2B Total Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	2.03	<0.003	0.007 B	1.59	0.00023 B	0.355	0.0003 B	288	0.004 B	--	0.0091 B	0.0069 B	4.3	0.0044	61.7	8.24	--	0.0129 B	3 B	64.1	--	--	0.0037 B	0.0029 B	0.103
Oct-97	5.31	<0.003	0.0083 B	1.36	0.00037 B	0.292	<0.0003	245	0.0086 B	--	0.0141 B	0.0118 B	10.7	0.0058	49.9	7.43	--	0.0188 B	2.9 B	53.9	--	--	<0.0026	0.0075 B	0.0484
3/22/06	--	--	--	--	--	--	<0.005	203	--	--	--	--	0.913	<0.005	46.1	6.98	--	--	2.42	53.8	--	--	--	--	--
5/31/06	--	--	--	--	--	--	<0.005	216 E	--	--	--	--	0.836	0.009	45.3	6.8	--	--	2.25	49.7	--	--	--	--	--
8/9/06	0.18	<0.05	<0.025	1.22	<0.005	0.256	<0.005	203 E	<0.005	<0.02	<0.015	0.017	1.2	<0.005	43.5	6.63	<0.0004	<0.01	2.28	51.1	<0.02	<0.015	<0.03	<0.015	<0.01
10/10/06	--	--	--	--	--	--	<0.005	200	--	--	--	--	1.07	<0.005	42.7	6.46	--	--	2.38	51	--	--	--	--	--
3/20/07	--	--	--	--	--	--	<0.005	216	--	--	--	--	0.637	<0.003	44.8	6.42	--	--	2.74	50.9	--	--	--	--	--
4/26/07	--	--	--	--	--	--	<0.005	170	--	--	--	--	0.469	<0.003	36.3	4.93	--	--	2.14	40.8	--	--	--	--	--
7/31/07	--	--	--	--	--	--	<0.005	214	--	--	--	--	0.468	<0.003	44.1	6.6	--	--	2.44	52.3	--	--	--	--	--
10/10/07	<0.1	<0.015	<0.01	1.09	<0.003	<0.5	<0.005	195	<0.005	<0.01	<0.02	<0.01	0.323	<0.003	39.9	5.7	<0.0002	<0.03	<1	48.2	<0.005	<0.01	<0.01	<0.03	0.0469
2/1/08	0.168	<0.015	<0.01	1.18	<0.003	<0.5	<0.005	201	0.00816	<0.01	<0.02	<0.01	0.439	<0.003	42.8	6.21	<0.0002	<0.03	2.44	50.6	<0.005	<0.01	<0.01	<0.03	<0.01
4/16/08	--	--	--	--	--	--	<0.005	192	--	--	--	--	0.56	<0.003	42.4	5.96	--	--	2.2	47.4	--	--	--	--	--
7/23/08	--	--	--	--	--	--	<0.005	214	--	--	--	--	0.236	<0.003	47.1	6.49	--	--	2.23	51.4	--	--	--	--	--
10/24/08	--	--	--	--	--	--	<0.005	235	--	--	--	--	0.28	<0.003	49.1	6.84	--	--	3.13	58.2	--	--	--	--	--
3/12/09	--	--	--	--	--	--	<0.005	201	--	--	--	--	0.466	<0.003	42.9	6.5	--	--	2.44	49.3	--	--	--	--	--
6/17/09	0.235	<0.03	<0.01	1.43	<0.003	<0.5	<0.005	237	<0.01	<0.01	<0.02	<0.01	0.464	<0.003	45.9	6.63	<0.0002	<0.03	2.71	55.4	<0.005	<0.01	<0.01	<0.03	<0.01
9/30/09	--	--	--	--	--	--	<0.005	227	--	--	--	--	0.222	<0.003	45.6	6.31	--	--	<1	58.6	--	--	--	--	--
12/1/09	--	--	--	--	--	--	<0.005	178	--	--	--	--	0.235	<0.003	39.7	5.63	--	--	<5	49	--	--	--	--	--
1/28/10	--	--	--	--	--	--	<0.005	177	--	--	--	--	0.451	<0.003	40.4	5.48	--	--	<5	48.9	--	--	--	--	--
4/27/10	--	--	--	--	--	--	<0.005	202	--	--	--	--	0.329	<0.003	43.1	6.2	--	--	<5	53.1	--	--	--	--	--
7/20/10	<0.1	<0.005	<0.005	1.37	<0.003	<0.5	<0.005	216	<0.01	<0.01	<0.02	<0.01	0.149	<0.003	46.2	6.35	<0.0002	<0.03	<5	56.9	0.004	<0.01	<0.003	<0.03	<0.01
10/26/10	--	--	--	--	--	--	<0.005	207	--	--	--	--	0.273	<0.003	43	6.82	--	--	<5	65.4	--	--	--	--	--
3/22/11	--	--	--	--	--	--	<0.005	200	--	--	--	--	0.345	<0.003	42.8	6.23	--	--	<5	56.7	--	--	--	--	--
5/24/11	--	--	--	--	--	--	<0.005	172	--	--	--	--	0.312	<0.003	38.8	5.23	--	--	<5	51	--	--	--	--	--
3/22/11	--	--	--	--	--	--	<0.005	200	--	--	--	--	0.345	<0.003	42.8	6.23	--	--	<5	56.7	--	--	--	--	--
5/24/11	--	--	--	--	--	--	<0.005	172	--	--	--	--	0.312	<0.003	38.8	5.23	--	--	<5	51	--	--	--	--	--
9/20/11	--	--	--	--	--	--	<0.005	237	--	--	--	--	0.276	<0.003	43.9	5.99	--	--	<5	55.3	--	--	--	--	--
12/14/11	0.175	<0.005 J	<0.005 J	1.31	<0.003	<0.5	<0.005	212	<0.01	<0.01	<0.02	<0.01	0.333	<0.003 J	44.7	5.93	<0.0002	<0.03	<5	57.7	<0.003 J	<0.01	<0.003 J	<0.03	0.0118
3/21/12	0.536	<0.005	<0.005	1.4	<0.003	<0.5	<0.005	208	<0.01	<0.01	<0.02	<0.01	1.11 J	<0.003	46.6	6.23	<0.0002	<0.03	<5	58.5	<0.003	<0.01 J	<0.003	<0.03	0.0177
5/23/12	--	--	--	--	--	--	<0.005	184	--	--	--	--	0.337	<0.003	44.9	6.4	--	--	<5	47.4	--	--	--	--	--

Historical Water Quality Data - Towslee Landfill

MW-3A Total Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	21.7	<0.003	0.0127	0.567	0.001 B	<0.0709	<0.0003	57.8	0.0249	--	0.0121 B	0.0315	26.6	0.0077	17	0.732	--	0.0248 B	7.43	10.4	--	--	<0.0026	0.0296 B	0.112
Oct-97	2.39	0.0034 B	<0.0024	0.343	0.00013 B	0.0286 B	<0.0003	53.7	0.0022 B	--	0.0019 B	0.0076 B	3.58	<0.001	11	0.174	--	0.0038 B	1.87 B	6.54	--	--	<0.0026	0.0039 B	0.0265
3/22/06	--	--	--	--	--	--	<0.005	46.3	--	--	--	--	1.88	<0.005	9.13	0.208	--	--	0.938	5.66	--	--	--	--	--
5/31/06	--	--	--	--	--	--	<0.005	55.3	--	--	--	--	0.626	0.005	10	0.175	--	--	0.829	6.4	--	--	--	--	--
8/9/06	0.078	<0.05	<0.025	0.41	<0.005	0.063	<0.005	57.9	<0.005	<0.02	<0.015	0.023	0.104	0.005	11.2	0.416	<0.0004	<0.01	1.09	8.92	<0.02	<0.015	<0.03	<0.015	0.025
10/10/06	--	--	--	--	--	--	<0.005	48.3	--	--	--	--	0.283	<0.005	9.2	0.176	--	--	0.937	6.03	--	--	--	--	--
3/20/07	--	--	--	--	--	--	<0.005	23	--	--	--	--	1.18	<0.003	4.04	0.415	--	--	<1	2.11	--	--	--	--	--
4/26/07	--	--	--	--	--	--	<0.005	18.1	--	--	--	--	0.599	<0.003	3.1	0.501	--	--	<1	1.14	--	--	--	--	--
7/31/07	--	--	--	--	--	--	<0.005	45.1	--	--	--	--	0.231	<0.003	9.15	0.116	--	--	<1	5.1	--	--	--	--	--
10/10/07	0.33	<0.015	<0.01	0.332	<0.003	<0.5	<0.005	27.5	<0.005	<0.01	<0.02	<0.01	0.537	<0.003	4.26	0.287	<0.0002	<0.03	<1	2.64	<0.005	<0.01	<0.01	<0.03	0.0106
2/1/08	0.23	<0.015	<0.01	0.441	<0.003	<0.5	<0.005	30.2	<0.005	<0.01	<0.02	<0.01	0.451	<0.003	5.42	0.0373	<0.0002	<0.03	<1	2.9	<0.005	<0.01	<0.01	<0.03	<0.01
4/16/08	--	--	--	--	--	--	<0.005	37.6	--	--	--	--	0.574	<0.003	7.04	0.141	--	--	<1	3.52	--	--	--	--	--
7/23/08	--	--	--	--	--	--	<0.005	24.4	--	--	--	--	0.508	<0.003	3.83	0.618	--	--	1.06	2.77	--	--	--	--	--
10/24/08	--	--	--	--	--	--	<0.005	31.3	--	--	--	--	0.177	<0.003	4.8	0.0424	--	--	<1	2.69	--	--	--	--	--
3/12/09	--	--	--	--	--	--	<0.005	12.3	--	--	--	--	0.6	<0.003	1.82	0.294	--	--	<1	<1	--	--	--	--	--
6/17/09	<0.1	<0.015	<0.01	0.458	<0.003	<0.5	<0.005	59.5	<0.01	<0.01	<0.02	<0.01	0.155	<0.003	11.6	0.164	<0.0002	<0.03	<1	6.81	<0.005	<0.01	<0.01	<0.03	<0.01
9/30/09	--	--	--	--	--	--	<0.005	15.2	--	--	--	--	0.534	<0.003	<1	0.331	--	--	<1	<1	--	--	--	--	--
12/1/09	--	--	--	--	--	--	<0.005	26.2	--	--	--	--	1.44	<0.003	<5	0.597	--	--	<5	<5	--	--	--	--	--
1/28/10	--	--	--	--	--	--	<0.005	28.8	--	--	--	--	0.366	<0.003	5.17	0.568	--	--	<5	<5	--	--	--	--	--
4/27/10	--	--	--	--	--	--	<0.005	23.2	--	--	--	--	0.291	<0.003	<5	0.218	--	--	<5	<5	--	--	--	--	--
7/20/10	5.32	<0.005	<0.005	0.627	<0.003	<0.5	<0.005	57.3	<0.01	<0.01	<0.02	<0.01	6.97	<0.003	12.5	0.282	<0.0002	<0.03	<5	6.53	<0.003	<0.01	<0.003	<0.03	0.0285
10/26/10	--	--	--	--	--	--	<0.005	26.8	--	--	--	--	2.42	<0.003	<5	0.471	--	--	<5	<5	--	--	--	--	--
3/22/11	--	--	--	--	--	--	<0.005	18.3	--	--	--	--	0.232	<0.003	<5	0.575	--	--	<5	<5	--	--	--	--	--
5/24/11	--	--	--	--	--	--	<0.005	42.9	--	--	--	--	0.121	<0.003	7.25	0.704	--	--	<5	<5	--	--	--	--	--
9/20/11	--	--	--	--	--	--	<0.005	58.9	--	--	--	--	0.121	<0.003	9.72	0.635	--	--	<5	5.9	--	--	--	--	--
12/13/11	0.107	<0.005 J	<0.005 J	0.498	<0.003	<0.5	<0.005	38.6	<0.01	<0.01	<0.02	<0.01	0.345	<0.003 J	6.31	0.726	<0.0002	<0.03	<5	<5	<0.003 J	<0.01	<0.003 J	<0.03	<0.01
3/20/12	1.33	<0.005	<0.005	0.627	<0.003	<0.5	<0.005	44.9	<0.01	<0.01	<0.02	<0.01	1.77 J	<0.003	8.39	0.802	<0.0002	<0.03	<5	<5	<0.003	<0.01 J	<0.003	<0.03	0.0106
5/22/12	--	--	--	--	--	--	<0.005	43.6	--	--	--	--	0.451	<0.003	9.02	0.926	--	--	<5	<5	--	--	--	--	--

Historical Water Quality Data - Towslee Landfill

MW-3B Total Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	2.01	<0.003	<0.0024	0.402	0.0001 B	0.0662 B	<0.0003	73.8	0.0032 B	NA	0.002 B	0.0051 B	3.04	0.0013 B	22.8	0.12	NA	0.0036 B	2.05 B	11.2	NA	NA	<0.0026	0.003 B	0.0621
Oct-97	0.184	<0.003	<0.0024	0.291	0.00013 B	0.0626 B	<0.0003	74.4	<0.0004	NA	0.0014 B	0.0018 B	0.372	<0.001	21.5	0.0697	NA	0.0018 B	1.2 B	9.78	NA	NA	<0.0026	<0.0012	0.0155 B
9/20/11	--	--	--	--	--	--	<0.005	75.8	--	--	--	--	0.578	<0.003	20.5	0.184	--	--	<5	11.1	--	--	--	--	--
12/13/11	0.253	<0.005 J	<0.005 J	0.294	<0.003	<0.5	<0.005	70	<0.01	<0.01	<0.02	<0.01	0.344	<0.003 J	21.6	0.125	<0.0002	<0.03	<5	12.5	<0.003 J	<0.01	<0.003 J	<0.03	0.0114
3/20/12	0.148	<0.005	<0.005	0.339	<0.003	<0.5	<0.005	69	<0.01	<0.01	<0.02	<0.01	0.386 J	<0.003	21.6	0.102	<0.0002	<0.03	<5	11.9	<0.003	<0.01 J	<0.003	<0.03	0.017
5/22/12	--	--	--	--	--	--	<0.005	66.6	--	--	--	--	0.0945	<0.003	22.4	0.1	--	--	<5	10.4	--	--	--	--	--

Historical Water Quality Data - Towslee Landfill

MW-4A Total Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	1.61	<0.003	<0.0024	0.803	0.0001 B	0.0765 B	<0.0003	110	0.0015 B	NA	0.0036 B	0.0066 B	2.2	0.0031	24.3	1.14	NA	0.0044 B	2.01 B	13.3	NA	NA	<0.0026	0.0016 B	0.0501
Oct-97	1.32	<0.003	<0.0024	1.26	0.00013 B	0.124	0.0004 B	127	0.00093 B	NA	0.0035 B	0.0076 B	1.99	0.0024 B	26	2.15	NA	0.0063 B	2.02 B	15.7	NA	NA	<0.0026	0.0019 B	0.0238
9/20/11	--	--	--	--	--	--	<0.005	153	--	--	--	--	0.261	<0.003	27.3	1.91	--	--	<5	16.7	--	--	--	--	--
12/13/11	0.153	<0.005 J	<0.005 J	1.16	<0.003	<0.5	<0.005	128	<0.01	<0.01	<0.02	<0.01	0.174	<0.003 J	26.8	1.73	<0.0002	<0.03	<5	17.8	<0.003 J	<0.01	<0.003 J	<0.03	0.013
3/20/12	0.39	<0.005	<0.005	1.3	<0.003	<0.5	<0.005	131	<0.01	<0.01	<0.02	0.0224	0.427 J	<0.003	28.3	1.75	<0.0002	<0.03	<5	17.7	<0.003	<0.01 J	<0.003	<0.03	0.0154
5/22/12	--	--	--	--	--	--	<0.005	110	--	--	--	--	0.146	<0.003	26.5	1.44	--	--	<5	14.2	--	--	--	--	--

Historical Water Quality Data - Towslee Landfill

MW-5A Total Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	10.1	0.0045 B	0.0061 B	1.58	0.00063 B	0.0348 B	0.0042 B	45.8	0.0092	NA	0.0105 B	0.0181 B	11.5	0.0114	14.8	0.485	NA	0.011 B	3.03 B	31.6	NA	NA	<0.0026	0.0102 B	0.105
Oct-97	0.228	<0.003	<0.0024	0.502	<0.0001	0.021 B	<0.0003	32.1	<0.0004	NA	<0.0011	0.0037 B	0.46	<0.001	9.45	0.0661	NA	<0.0013	0.897 B	9.53	NA	NA	<0.0026	0.0012 B	0.0212

Historical Water Quality Data - Towslee Landfill

MW-6A Total Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	59.1	0.0036 B	0.0476	1.79	0.0023 B	0.282	<0.0003	99.1	0.0859	NA	0.056	0.0973	111	0.0168	37.6	14.5	<0.0001	0.112	14.4	53.3	<0.0028	0.0013 B	<0.0026	0.0726	0.271
Oct-97	38.6	NA	0.0404	1.63	0.0017 B	0.32	0.0011 B	82.2	0.0705	NA	0.0463 B	0.0689	85.5	0.0113	28.8	12.7	<0.0001	0.0963	10.1	46.8	<0.0028	<0.0009	<0.0026	0.053	0.177
9/20/11	--	--	--	--	--	--	<0.005	66.6	--	--	--	--	0.835	<0.003	10.2	1.33	--	--	<5	19.5	--	--	--	--	--
12/13/11	0.683	<0.005 J	<0.005 J	0.327	<0.003	<0.5	<0.005	59.7	<0.01	<0.01	<0.02	<0.01	1.32	<0.003 J	10.8	1.78	<0.0002	<0.03	<5	19.8	<0.003 J	<0.01	<0.003 J	<0.03	<0.01
3/20/12	3.91	<0.005	0.00689 BJ	0.343	<0.003	<0.5	<0.005	58.8	<0.01	<0.01	<0.02	<0.01	7.22 J	<0.003	12.2	1.63	<0.0002	<0.03	<5	19	<0.003	<0.01 J	<0.003	<0.03	0.0235
5/22/12	--	--	--	--	--	--	<0.005	50.9	--	--	--	--	0.98	<0.003	10.3	2.16	--	--	<5	14.8	--	--	--	--	--

Historical Water Quality Data - Towslee Landfill

MW-6B Total Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	8.59	<0.003	0.009 B	0.521	0.0004 B	0.145	<0.0003	70.5	0.0092 B	--	0.0112 B	0.0116 B	10.6	0.0044	19	3.43	--	0.0144 B	4.08 B	38	--	--	<0.0026	0.0083 B	0.0894
Oct-97	0.642	<0.003	0.0084 B	0.48	0.0001 B	0.145	<0.0003	55.6	0.0017 B	--	0.0056 B	0.0051 B	3	<0.001	12.7	4.17	--	0.0059 B	2.72 B	31.4	--	--	<0.0026	0.0012 B	0.0248
3/22/06	--	--	--	--	--	--	<0.005	39.3	--	--	--	--	1.09	<0.005	8.94	0.559	--	--	1.15	14.9	--	--	--	--	--
5/31/06	--	--	--	--	--	--	<0.005	39.6	--	--	--	--	0.511	<0.005	10.9	0.12	--	--	0.825	9.93	--	--	--	--	--
8/9/06	0.115	<0.05	<0.025	0.313	<0.005	<0.05	<0.005	36.1	<0.005	<0.02	<0.015	0.016	0.306	<0.005	9.86	0.297	<0.0004	<0.01	0.634	10.1	<0.02	<0.015	<0.03	<0.015	0.014
10/10/06	--	--	--	--	--	--	<0.005	37.4	--	--	--	--	0.195	<0.005	9.71	0.185	--	--	0.69	10.7	--	--	--	--	--
3/20/07	--	--	--	--	--	--	<0.005	45.6	--	--	--	--	1.87	<0.003	10.2	0.331	--	--	1.05	11.2	--	--	--	--	--
4/26/07	--	--	--	--	--	--	<0.005	39.9	--	--	--	--	0.486	<0.003	9.68	0.0908	--	--	<1	10.2	--	--	--	--	--
7/31/07	--	--	--	--	--	--	<0.005	40.2	--	--	--	--	0.163	<0.003	9.12	0.671	--	--	<1	15	--	--	--	--	--
10/10/07	0.102	<0.015	<0.01	0.301	<0.003	<0.5	<0.005	36.7	<0.005	<0.01	<0.02	<0.01	0.216	<0.003	7.81	0.712	<0.0002	<0.03	<1	14.7	<0.005	<0.01	<0.01	<0.03	0.0213
2/1/08	0.134	<0.015	<0.01	0.337	<0.003	<0.5	<0.005	39.2	<0.005	<0.01	<0.02	<0.01	0.229	<0.003	9.37	0.327	<0.0002	<0.03	<1	13.8	<0.005	<0.01	<0.01	<0.03	0.0103
4/16/08	--	--	--	--	--	--	<0.005	39.5	--	--	--	--	0.33	<0.003	10.4	0.102	--	--	<1	12.7	--	--	--	--	--
7/23/08	--	--	--	--	--	--	<0.005	39	--	--	--	--	<0.06	<0.003	9.61	0.666	--	--	<1	18.1	--	--	--	--	--
10/24/08	--	--	--	--	--	--	<0.005	38.7	--	--	--	--	<0.06	<0.003	9.13	0.619	--	--	1.4	17.6	--	--	--	--	--
3/12/09	--	--	--	--	--	--	<0.005	39.6	--	--	--	--	0.268	<0.003	10.5	0.0257	--	--	1.01	13.1	--	--	--	--	--
6/17/09	<0.1	<0.03	<0.01	0.404	<0.003	<0.5	<0.005	42.9	<0.01	<0.01	<0.02	<0.01	0.104	<0.003	11.4	0.0585	<0.0002	<0.03	1.03	17.9	<0.005	<0.01	<0.01	<0.03	<0.01
9/30/09	--	--	--	--	--	--	<0.005	42	--	--	--	--	0.0703	<0.003	10.4	0.255	--	--	<1	18.5	--	--	--	--	--
12/1/09	--	--	--	--	--	--	<0.005	38.2	--	--	--	--	0.417	<0.003	10.4	0.167	--	--	<5	15.8	--	--	--	--	--
1/28/10	--	--	--	--	--	--	<0.005	45	--	--	--	--	0.448	<0.003	12.3	0.0606	--	--	<5	16.8	--	--	--	--	--
4/27/10	--	--	--	--	--	--	<0.005	40.6	--	--	--	--	0.226	<0.003	11	0.027	--	--	<5	14.2	--	--	--	--	--
7/20/10	<0.1	<0.005	<0.005	0.348	<0.003	<0.5	<0.005	39.9	<0.01	<0.01	<0.02	<0.01	<0.06	<0.003	10.7	0.087	<0.0002	<0.03	<5	15	<0.003	<0.01	<0.003	<0.03	<0.01
10/26/10	--	--	--	--	--	--	<0.005	40.9	--	--	--	--	0.337	<0.003	10.9	0.242	--	--	<5	17.8	--	--	--	--	--
3/22/11	--	--	--	--	--	--	<0.005	40.1	--	--	--	--	0.114	<0.003	10.8	0.0452	--	--	<5	14.1	--	--	--	--	--
5/24/11	--	--	--	--	--	--	<0.005	43.3	--	--	--	--	0.235	<0.003	10.8	0.0213	--	--	<5	17	--	--	--	--	--
9/20/11	--	--	--	--	--	--	<0.005	49.7	--	--	--	--	0.835	<0.003	11.7	0.166	--	--	<5	18.3	--	--	--	--	--
12/13/11	<0.1	<0.005 J	<0.005 J	0.414	<0.003	<0.5	<0.005	48.1	<0.01	<0.01	<0.02	<0.01	0.0989	<0.003 J	11.3	0.231	<0.0002	<0.03	<5	21.7	<0.003 J	<0.01	<0.003 J	<0.03	0.0159
3/20/12	<0.1	<0.005	<0.005	0.354	<0.003	<0.5	<0.005	40.8	<0.01	<0.01	<0.02	<0.01	1.05 J	<0.003	10.8	0.0335	<0.0002	<0.03	<5	16.5	<0.003	<0.01 J	<0.003	<0.03	<0.01
5/22/12	--	--	--	--	--	--	<0.005	39.8	--	--	--	--	7.38	<0.015	12.4	0.781	--	--	<5	14.6	--	--	--	--	--

Historical Water Quality Data - Towslee Landfill

MW-7A Total Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	40	<0.003	0.0176	1.36	0.0015 B	0.332	0.00047 B	234	0.0556	--	0.0311	0.0637	65.9	0.0251	67	5.87	<0.0001	0.0783	10.4	118	0.0041 B	<0.0009	<0.0026	0.0487 B	0.2
Oct-97	88.4	<0.003	0.0459	1.99	0.0037 B	0.41	0.002 B	271	0.146	--	0.0791	0.129	174	0.0585	88.3	9.55	<0.0001	0.192	13.5	113	0.0047 B	<0.0009	<0.0026	0.127	0.408
3/22/06	--	--	--	--	--	--	<0.005	171	--	--	--	--	14.5	0.0175	48.6	6.08	--	--	3.06	134	--	--	--	--	--
5/31/06	--	--	--	--	--	--	<0.005	165	--	--	--	--	1.33	0.009	45.5	5.69	--	--	1.91	129	--	--	--	--	--
8/9/06	0.415	<0.05	<0.025	0.684	<0.005	0.55	<0.005	150	<0.005	<0.02	<0.015	0.013	0.722	0.006	38	4.4	<0.0004	0.013	1.81	124	<0.02	<0.015	<0.03	<0.015	<0.01
10/10/06	--	--	--	--	--	--	<0.005	148	--	--	--	--	2.78	<0.005	38	4.85	--	--	2.03	128	--	--	--	--	--
3/20/07	--	--	--	--	--	--	<0.005	149	--	--	--	--	1.68	<0.003	38.4	4.51	--	--	2.03	112	--	--	--	--	--
4/26/07	--	--	--	--	--	--	<0.005	140	--	--	--	--	1.52	<0.003	36.4	4.18	--	--	1.95	104	--	--	--	--	--
7/31/07	--	--	--	--	--	--	<0.005	135	--	--	--	--	9.97	0.00656	35	3.98	--	--	2.87	95.8	--	--	--	--	--
10/10/07	2.43	<0.015	<0.01	0.576	<0.003	0.65	<0.005	131	<0.005	<0.01	<0.02	<0.01	3.65	<0.003	32.1	3.47	<0.0002	<0.03	<1	95.2	<0.005	<0.01	<0.01	<0.03	0.0263
2/1/08	0.919	<0.015	<0.01	0.68	<0.003	0.588	<0.005	148	0.00667	<0.05	<0.02	<0.01	1.68	<0.003	38.4	4.17	<0.0002	<0.03	1.85	104	<0.005	<0.01	<0.01	<0.03	0.0102
4/16/08	--	--	--	--	--	--	<0.005	139	--	--	--	--	1.99	<0.003	38.5	4.34	--	--	1.98	99.6	--	--	--	--	--
7/23/08	--	--	--	--	--	--	<0.005	150	--	--	--	--	0.342	<0.003	39.5	4.82	--	--	1.82	113	--	--	--	--	--
10/24/08	--	--	--	--	--	--	<0.005	162	--	--	--	--	1.16	<0.003	39.8	4.57	--	--	2.41	116	--	--	--	--	--
3/12/09	--	--	--	--	--	--	<0.005	140	--	--	--	--	0.322	<0.003	35.8	4.31	--	--	1.62	97	--	--	--	--	--
6/17/09	9.56	<0.03	<0.01	0.714	<0.003	<0.5	<0.005	150	<0.01	<0.01	<0.02	<0.01	10.1	<0.003	38.7	4.21	<0.0002	<0.03	3.58	103	<0.005	<0.01	<0.01	<0.03	0.0297
9/30/09	--	--	--	--	--	--	<0.005	144	--	--	--	--	0.108	<0.003	34	3.8	--	--	<1	110	--	--	--	--	--
12/1/09	--	--	--	--	--	--	<0.005	131	--	--	--	--	1.19	<0.003	35.3	3.68	--	--	<5	105	--	--	--	--	--
1/28/10	--	--	--	--	--	--	<0.005	139	--	--	--	--	3.95	<0.003	38.8	3.87	--	--	<5	112	--	--	--	--	--
4/27/10	--	--	--	--	--	--	<0.005	122	--	--	--	--	0.469	<0.003	31.4	3.85	--	--	<5	109	--	--	--	--	--
7/20/10	1.52	<0.005	<0.005	0.556	<0.003	<0.5	<0.005	147	<0.01	<0.01	<0.02	<0.01	1.71	<0.003	36.9	3.82	<0.0002	<0.03	<5	110	<0.003	<0.01	<0.003	<0.03	<0.01
10/26/10	--	--	--	--	--	--	<0.005	143	--	--	--	--	3.06	<0.003	36.4	4.5	--	--	<5	127	--	--	--	--	--
3/22/11	--	--	--	--	--	--	<0.005	136	--	--	--	--	0.162	<0.003	35	4.33	--	--	<5	110	--	--	--	--	--
5/24/11	--	--	--	--	--	--	<0.005	130	--	--	--	--	0.418	<0.003	34.4	3.8	--	--	<5	114	--	--	--	--	--
9/20/11	--	--	--	--	--	--	0.258	173	--	--	--	--	4.66	0.00321	37.2	4.86	--	--	<5	114	--	--	--	--	--
12/13/11	2.12	<0.005 J	<0.005 J	0.601	<0.003	0.53	<0.005	146	<0.01	<0.01	<0.02	<0.01	3.03	<0.003 J	33.9	3.57	<0.0002	<0.03	<5	104	<0.003 J	<0.01	<0.003 J	<0.03	0.0156
3/21/12	0.709	<0.005	0.00582 BJ	0.59	<0.003	<0.5	<0.005	149	<0.01	<0.01	<0.02	<0.01	0.931 J	<0.003	36.8	1.62	<0.0002	<0.03	<5	108	<0.003	<0.01 J	<0.003	<0.03	<0.01
5/22/12	--	--	--	--	--	--	<0.005	123	--	--	--	--	2.9	0.00328	34.8	3.27	--	--	<5	91	--	--	--	--	--

Historical Water Quality Database - Towslee Landfill

CD-1 - Dissolved Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5

No dissolved metals data to date

Historical Water Quality Database - Towslee Landfill

CD-1RA - Dissolved Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	0.0198 B	<0.003	<0.0024	0.163 B	<0.0001	0.0199 B	<0.0003	40.7	<0.0004	--	<0.0011	0.0026 B	0.0238 B	--	9.65	0.168	--	<0.0013	0.911 B	5.5	--	--	--	--	0.0825
Oct-97	0.0442 B	<0.003	<0.0024	0.173 B	0.00067 B	0.0285 B	0.00063 B	39.5	<0.0012	--	<0.0011	0.0012 B	0.0394 B	--	8.3	0.148	--	<0.0013	0.951 B	5.29	--	--	--	--	0.0148 B
9/20/11	--	--	--	--	--	--	<0.005	41	--	--	--	--	0.0795	<0.003	7.56	0.0636	--	--	<5	5.23	--	--	--	--	--

Historical Water Quality Database - Towslee Landfill

MW-1A - Dissolved Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	0.0163 B	--	<0.0024	0.137 B	<0.0001	0.0631 B	<0.0003	67.6	<0.0004	--	<0.0011	0.0008 B	0.0348 B	0.0052	15.4	0.22	0.0014	<0.0013	10.6	59.3	--	--	<0.0026	<0.0012	0.12
Oct-97	0.0407 B	--	<0.0024	0.068 B	<0.0001	0.0561 B	<0.0003	40.3	<0.0004	--	<0.0011	<0.0007	0.0471 B	<0.001	8.69	0.174	<0.0001	<0.0013	4.92 B	27.1	--	--	<0.0026	<0.0012	0.0161 B
3/22/06	--	--	--	--	--	--	<0.005	40.7	--	--	--	--	13.5	<0.005	10.4	0.238	--	--	2.52	14.7	--	--	--	--	--
5/31/06	--	--	--	--	--	--	<0.005	38.9	--	--	--	--	0.315	0.005	8.12	0.127	--	--	1.38	12.3	--	--	--	--	--
8/9/06	0.066	<0.05	<0.025	0.066	<0.005	<0.07	<0.005	38.6	<0.005	--	<0.015	0.013	0.125	<0.005	8.18	0.248	<0.0004	<0.01	1.31	13	<0.02	<0.015	<0.03	<0.015	0.033
3/20/07	--	--	--	--	--	--	<0.005	40.3	--	--	--	--	<0.06	<0.003	8.83	<0.01	--	--	1.72	12.3	--	--	--	--	--
3/21/12	<0.1	<0.005	<0.005	0.0742	<0.003	--	<0.005	47.8	<0.01	--	<0.02	<0.01	0.102 J	<0.003	11.3	0.0327	<0.0002	<0.03	<5	14.3	<0.003	<0.01 J	<0.003	<0.03	0.0107

Historical Water Quality Database - Towslee Landfill

MW-1B - Dissolved Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	0.0146 B	<0.003	<0.0024	0.151 B	<0.0001	0.0195 B	<0.0003	24.8	0.0008 B	--	<0.0011	<0.0007	0.0172 B	--	6.62	0.141	--	<0.0013	1.63 B	7.53	--	--	--	--	0.0396
Oct-97	0.0209 B	<0.003	<0.0024	0.155 B	<0.0001	0.0162 B	<0.0003	24.5	0.00073 B	--	<0.0011	<0.0007	0.0141 B	--	5.88	0.134	--	<0.0013	0.514 B	6.59	--	--	--	--	0.0152 B
3/22/06	--	--	--	--	--	--	<0.005	22.8	--	--	--	--	0.339	<0.005	5.15	0.0136	--	--	0.487	4.75	--	--	--	--	--
8/9/06	0.195	<0.05	<0.025	0.162	<0.005	<0.07	<0.005	24.4	<0.005	--	<0.015	0.013	0.339	<0.005	5.54	0.135	<0.0004	<0.01	0.403	5.31	<0.02	<0.015	<0.03	<0.015	0.029
3/20/07	--	--	--	--	--	--	<0.005	24.5	--	--	--	--	<0.06	<0.003	5.88	<0.01	--	--	<1	5.73	--	--	--	--	--

Historical Water Quality Database - Towslee Landfill

MW-2A - Dissolved Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	<0.0083	--	0.0123	0.787	0.00017 B	1.21	0.00053 B	183	0.0035 B	--	0.0107 B	0.0162 B	5.4	<0.001	41	30.4	<0.0001	0.0179 B	17.5	121	--	--	0.003 B	<0.0012	0.117
Oct-97	0.0482 B	--	0.0139	0.786	0.0001 B	0.992	<0.0003	183	0.0057 B	--	0.0095 B	<0.0007	11.5	0.0011 B	38.5	30.9	<0.0001	0.0162 B	14.2	115	--	--	<0.0026	<0.0012	0.0207
8/9/06	0.044	<0.05	<0.025	0.427	<0.005	0.562	<0.005	77.6	<0.005	--	<0.015	0.015	0.204	<0.005	17.1	12.1	<0.0004	<0.01	12.5	29.6	<0.02	<0.015	<0.03	<0.015	0.013

Historical Water Quality Database - Towslee Landfill

MW-2B - Dissolved Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	0.0179 B	<0.003	0.0036 B	1.55	<0.0001	0.334	<0.0003	281	0.0009 B	--	0.0067 B	0.0022 B	0.582	--	61.7	8.07	--	0.0093 B	2.8 B	62.5	--	--	--	--	0.0635
Oct-97	0.0154 B	<0.003	<0.0024	1.45	<0.0001	0.321	<0.0003	274	0.0014 B	--	0.0061 B	<0.0007	0.595	--	55	8	--	0.0097 B	2.34 B	62.8	--	--	--	--	0.023

Historical Water Quality Database - Towslee Landfill

MW-3A - Dissolved Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	<0.0083	0.0038 B	<0.0024	0.242	<0.0001	0.0324 B	<0.0003	57.9	<0.0004	--	<0.0011	0.0024 B	0.0061 B	--	12.9	0.123	--	<0.0013	2.75 B	10.2	--	--	--	--	0.0249
Oct-97	0.0158	<0.003	<0.0024	0.276	<0.0001	0.0275 B	<0.0003	54.6	<0.0004	--	<0.0011	0.00083 B	0.0114 B	--	10.9	0.0941	--	0.0017 B	1.42 B	7.98	--	--	--	--	0.0387
3/22/06	--	--	--	--	--	--	<0.005	44.3	--	--	--	--	0.168	<0.005	8.7	0.0963	--	--	0.803	4.83	--	--	--	--	--

Historical Water Quality Database - Towslee Landfill

MW-3B - Dissolved Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	0.016 B	<0.003	<0.0024	0.257	0.0001 B	0.0531 B	<0.0003	73.2	<0.0004	--	<0.0011	0.0024 B	0.0091 B	--	23	0.0617	--	<0.0013	1.62 B	11.1	--	--	--	--	0.0375
Oct-97	0.0273 B	<0.003	<0.0024	0.271	<0.0001	0.0559 B	<0.0003	71.9	<0.0004	--	<0.0011	0.0007 B	0.0191 B	--	20.9	0.0553	--	0.0014 B	1.27 B	10.2	--	--	--	--	0.0155 B

Historical Water Quality Database - Towslee Landfill

MW-4A - Dissolved Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	0.0173 B	<0.003	<0.0024	0.686	0.0001 B	0.073 B	<0.0003	112	<0.0004	--	0.0024 B	0.0069 B	0.005 B	--	25.2	1.08	--	0.0021 B	1.71 B	13.5	--	--	--	--	0.0393
Oct-97	0.0228 B	<0.003	<0.0024	1.06	<0.0001	0.12	<0.0003	129	<0.0004	--	0.0022 B	0.0011 B	0.0372 B	--	26.1	2.08	--	0.0051 B	1.93 B	16.1	--	--	--	--	0.0166 B

Historical Water Quality Database - Towslee Landfill

MW-5A - Dissolved Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	<0.0083	0.0059 B	<0.0024	0.267	<0.0001	0.028 B	<0.0003	41.2	<0.0004	--	0.0014 B	0.0057 B	0.0081 B	--	12.6	0.0951	--	<0.0013	1.19 B	31.9	--	--	--	--	0.0262
Oct-97	0.019 B	<0.003	<0.0024	0.396	<0.0001	0.0218 B	<0.0003	34.1	0.0004 B	--	<0.0011	<0.0007	0.0117 B	--	10.2	0.0433	--	<0.0013	0.84 B	10.3	--	--	--	--	0.0182 B

Historical Water Quality Database - Towslee Landfill

MW-6A - Dissolved Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	0.0142 B	--	0.0198	0.847	0.0001 B	0.284	<0.0003	104	0.0019 B	--	0.0063 B	0.0014 B	7.81	<0.001	21	14.1	--	0.0096 B	7.64	55.4	--	--	<0.0026	<0.0012	0.047
Oct-97	0.0382 B	--	0.0189	0.88	--	0.333	<0.0003	88.7	0.0027 B	--	0.006 B	0.00077 B	8.07	<0.001	17.3	12.9	--	0.0108 B	7.4	55	--	--	<0.0026	<0.0012	0.0219
3/20/12	<0.1	<0.005	<0.005	0.246	<0.003	--	<0.005	53.7	<0.01	--	<0.02	<0.01	<0.06 J	<0.003	9.95	0.836	<0.0002	<0.03	<5	18	<0.003	<0.01 J	<0.003	<0.03	0.0132
5/22/12	--	--	--	--	--	--	<0.005	45.4	--	--	--	--	0.149	<0.003	9.33	0.213	--	--	<5	14	--	--	--	--	--

Historical Water Quality Database - Towslee Landfill

MW-6B - Dissolved Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	<0.0083	<0.003	0.0048 B	0.396	<0.0001	0.125	<0.0003	67.7	<0.0004	--	0.0052 B	0.0011 B	0.346	--	17.3	3.3	--	0.0046 B	2.97 B	38.2	--	--	--	--	0.0651
Oct-97	0.0132 B	<0.003	0.0073 B	0.478	<0.0001	0.14	<0.0003	56.3	0.00087 B	--	0.0041 B	<0.0007	1.42	--	12.9	3.99	--	0.0048 B	2.77 B	33.3	--	--	--	--	0.0207
3/20/07	--	--	--	--	--	--	<0.005	45.6	--	--	--	--	<0.06	<0.003	10.6	0.137	--	--	1.19	12.1	--	--	--	--	--

Historical Water Quality Database - Towslee Landfill

MW-7A - Dissolved Metals (all values in mg/l)

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Chromium, Hex	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Sodium	Selenium	Silver	Thallium	Vanadium	Zinc
Water Quality Stand.	--	0.003	0.025	1	0.004	1	0.005	--	0.05	0.05	--	0.2	0.3	0.015	--	0.3	0.0007	0.1	--	20	0.01	0.05	0.002	--	5
Aug-97	<0.0083	--	<0.0024	0.822	0.0001 B	0.331	0.0003 B	220	0.0008 B	--	0.0017 B	0.0086 B	0.009 B	<0.001	56.2	4.53	<0.0001	0.0129 B	5.28	120	--	--	<0.0026	<0.0012	0.0455
Oct-97	0.0755 B	--	<0.0024	0.887	<0.0001	0.396	<0.0003	255	0.0011 B	--	0.0031 B	<0.0007	0.753	<0.001	59.9	7.12	<0.0001	0.0196 B	3.98 B	129	--	--	<0.0026	<0.0012	0.0186
3/22/06	--	--	--	--	--	--	<0.005	158	--	--	--	--	0.0637	<0.005	43.6	5.35	--	--	1.9	126	--	--	--	--	--
6/17/09	<0.1	<0.03	<0.01	0.599	<0.003	--	<0.005	140	<0.01	--	<0.02	<0.01	<0.06	<0.003	34.1	3.78	<0.0002	<0.03	1.82	97.2	<0.005	<0.01	<0.01	<0.03	0.0228
7/20/10	<0.1	<0.005	<0.005	0.477	<0.003	--	<0.005	129	<0.01	--	<0.02	<0.01	<0.06	<0.003	31.6	2.57	<0.0002	<0.03	<5	91.6	<0.003	<0.01	<0.003	<0.03	0.0102
10/26/10	--	--	--	--	--	--	<0.005	120	--	--	--	--	0.0978	<0.003	31.5	3.26	--	--	<5	105	--	--	--	--	--
5/24/11	--	--	--	--	--	--	<0.005	126	--	--	--	--	<0.06	<0.003	33.6	3.04	--	--	<5	113	--	--	--	--	--
9/20/11	--	--	--	--	--	--	<0.005	172	--	--	--	--	<0.06	<0.003	34.3	4.39	--	--	<5	104	--	--	--	--	--
5/22/12	--	--	--	--	--	--	<0.005	115	--	--	--	--	<0.06	<0.003	32.1	2.64	--	--	<5	81.6	--	--	--	--	--

Historical Water Quality Database - Towslee Landfill

Organics (ug/l) (includes only detected compounds)

Well CD-1 - Overburden

	Vinyl Chloride	Chloroethane	Acetone	Methylene Chloride	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	Benzene	Toluene	Chlorobenzene	Ethylbenzene	Xylenes(total)	1,4-Dichlorobenzene
Water Quality Standard	2	5	50	5	5	5	5	1	5	5	5	5	5
Aug-97	<10	<10	10	2JB	<10	<10	<10	<10	<10	<10	<10	<10	<10
Oct-97	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
12/12/11	<5	<5	<10 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
3/19/12	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Historical Water Quality Database - Towslee Landfill

Organics (ug/l) (includes only detected compounds)

Well CD-1RA - Bedrock

	Vinyl Chloride	Chloroethane	Acetone	Methylene Chloride	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	Benzene	Toluene	Chlorobenzene	Ethylbenzene	Xylenes(total)	1,4-Dichlorobenzene
Water Quality Standard	2	5	50	5	5	5	5	1	5	5	5	5	5
Aug-97	<10	<10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Oct-97	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
12/12/11	<5	<5	<10 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
3/19/12	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Historical Water Quality Database - Towslee Landfill

Organics (ug/l) (includes only detected compounds)

Well MW-1A - Overburden

	Vinyl Chloride	Chloroethane	Acetone	Methylene Chloride	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	Benzene	Toluene	Chlorobenzene	Ethylbenzene	Xylenes(total)	1,4-Dichlorobenzene
Water Quality Standard	2	5	50	5	5	5	5	1	5	5	5	5	5
Aug-97	<10	<10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Oct-97	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8/9/06	<5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5
10/9/07	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
6/17/09	< 5	< 5	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
7/20/10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
12/13/11	<5	<5	<10 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
3/21/12	<5 J	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Historical Water Quality Database - Towslee Landfill

Organics (ug/l) (includes only detected compounds)

Well MW-1B - Bedrock

	Vinyl Chloride	Chloroethane	Acetone	Methylene Chloride	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	Benzene	Toluene	Chlorobenzene	Ethylbenzene	Xylenes(total)	1,4-Dichlorobenzene
Water Quality Standard	2	5	50	5	5	5	5	1	5	5	5	5	5
Aug-97	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Oct-97	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8/9/06	<5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5
10/9/07	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2/1/08	<5	<5	<10	13 B	<5	<5	<5	<5	<5	<5	<5	<5	<5
6/17/09	< 5	< 5	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
7/20/10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
12/13/11	<5	<5	<10 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
3/21/12	<5 J	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Historical Water Quality Database - Towslee Landfill

Organics (ug/l) (includes only detected compounds)

Well MW-2A - Overburden

	Vinyl Chloride	Chloroethane	Acetone	Methylene Chloride	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	Benzene	Toluene	Chlorobenzene	Ethylbenzene	Xylenes(total)	1,4-Dichlorobenzene
Water Quality Standard	2	5	50	5	5	5	5	1	5	5	5	5	5
Aug-97	<10	**5 J**	<10	**1 JB**	<10	<10	<10	**5 J**	**1 J**	**5 J**	**2 J**	**5 J**	**1 J**
Oct-97	<10	**4 J**	<10	<10	<10	<10	<10	**6 J**	<10	<10	<10	<10	**2 J**
8/9/06	<5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5
10/9/07	<5	<5	<10	<5	<5	<5	<5	<5	<5	4 J	<5	<5	<5
2/1/08	<5	<5	<10	12 B	<5	<5	<5	<5	<5	<5	<5	<5	<5
6/17/09	< 5	< 5	< 10	< 5	< 5	< 5	< 5	< 5	< 5	3 J	< 5	< 5	< 5
7/20/10	<5	<5	<10	<5	<5	<5	<5	<5	<5	3 J	<5	<5	<5
12/13/11	<5	<5	<10 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
3/21/12	<5 J	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Historical Water Quality Database - Towslee Landfill

Organics (ug/l) (includes only detected compounds)

Well MW-2B - Bedrock

	Vinyl Chloride	Chloroethane	Acetone	Methylene Chloride	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	Benzene	Toluene	Chlorobenzene	Ethylbenzene	Xylenes(total)	1,4-Dichlorobenzene
Water Quality Standard	2	5	50	5	5	5	5	1	5	5	5	5	5
Aug-97	<10	**4 J**	<10	**1 JB**	**1 J**	**1 J**	**1 J**	<10	<10	<10	<10	<10	<10
Oct-97	<10	**3 J**	<10	<10	<10	<10	**1 J**	**2 J**	<10	**1 J**	<10	<10	<10
8/9/06	<5	<5	<25	<5	<5	**6.2**	<5	<5	<5	<5	<5	<10	<5
10/9/07	5.8	4 J	<10	<5	<5	**9.2**	<5	<5	<5	<5	<5	<5	<5
2/1/08	<5	<5	<10	11 B	<5	**9.4**	<5	<5	<5	<5	<5	<5	<5
6/17/09	12	5.9	< 10	< 5	< 5	**19**	< 5	< 5	< 5	< 5	< 5	< 5	< 5
7/20/10	13	7	<10	<5	<5	**19**	<5	<5	<5	<5	<5	<5	<5
12/13/11	<5	3 J	<10 J	<5	<5	**16**	<5	<5	<5	<5	<5	<5	<5
3/21/12	8 J	4 J	<10	<5	<5	**15**	<5	<5	<5	<5	<5	<5	<5

Historical Water Quality Database - Towslee Landfill

Organics (ug/l) (includes only detected compounds)

Well MW-3A - Bedrock

	Vinyl Chloride	Chloroethane	Acetone	Methylene Chloride	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	Benzene	Toluene	Chlorobenzene	Ethylbenzene	Xylenes(total)	1,4-Dichlorobenzene
Water Quality Standard	2	5	50	5	5	5	5	1	5	5	5	5	5
Aug-97	<10	<10	**2 J**	**5 JB**	<10	<10	<10	<10	<10	<10	<10	<10	<10
Oct-97	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8/9/06	<5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5
10/9/07	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2/1/08	<5	<5	<10	11 B	<5	<5	<5	<5	<5	<5	<5	<5	<5
6/17/09	< 5	< 5	24	< 5	< 5	< 5	< 5	< 5	82	< 5	< 5	< 5	< 5
7/20/10	<5	<5	<10	<5	<5	<5	<5	<5	77 J	<5	<5	<5	<5
12/12/11	<5	<5	<10 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
3/19/12	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Historical Water Quality Database - Towslee Landfill

Organics (ug/l) (includes only detected compounds)

Well MW-3B - Bedrock

	Vinyl Chloride	Chloroethane	Acetone	Methylene Chloride	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	Benzene	Toluene	Chlorobenzene	Ethylbenzene	Xylenes(total)	1,4-Dichlorobenzene
Water Quality Standard	2	5	50	5	5	5	5	1	5	5	5	5	5
Aug-97	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Oct-97	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
12/12/11	<5	<5	<10 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
3/19/12	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Historical Water Quality Database - Towslee Landfill

Organics (ug/l) (includes only detected compounds)

Well MW-4A - Bedrock

	Vinyl Chloride	Chloroethane	Acetone	Methylene Chloride	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	Benzene	Toluene	Chlorobenzene	Ethylbenzene	Xylenes(total)	1,4-Dichlorobenzene
Water Quality Standard	2	5	50	5	5	5	5	1	5	5	5	5	5
Aug-97	<10	<10	<10	6JB	<10	<10	<10	<10	<10	<10	<10	<10	<10
Oct-97	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
12/12/11	<5	<5	<10 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
3/19/12	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Historical Water Quality Database - Towslee Landfill

Organics (ug/l) (includes only detected compounds)

Well MW-5A - Bedrock

	Vinyl Chloride	Chloroethane	Acetone	Methylene Chloride	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	Benzene	Toluene	Chlorobenzene	Ethylbenzene	Xylenes(total)	1,4-Dichlorobenzene
Water Quality Standard	2	5	50	5	5	5	5	1	5	5	5	5	5
Aug-97	<10	<10	<10	7JB	<10	<10	<10	<10	<10	<10	<10	<10	<10
Oct-97	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Historical Water Quality Database - Towslee Landfill

Organics (ug/l) (includes only detected compounds)

Well MW-6A - Overburden

	Vinyl Chloride	Chloroethane	Acetone	Methylene Chloride	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	Benzene	Toluene	Chlorobenzene	Ethylbenzene	Xylenes(total)	1,4-Dichlorobenzene
Water Quality Standard	2	5	50	5	5	5	5	1	5	5	5	5	5
Aug-97	<10	<10	<10	<10	<10	<10	1J	<10	<10	<10	<10	<10	<10
Oct-97	<10	1J	<10	<10	<10	<10	1J	<10	<10	<10	<10	<10	<10
12/12/11	<5	<5	<10 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
3/19/12	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Historical Water Quality Database - Towslee Landfill

Organics (ug/l) (includes only detected compounds)

Well MW-6B - Bedrock

	Vinyl Chloride	Chloroethane	Acetone	Methylene Chloride	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	Benzene	Toluene	Chlorobenzene	Ethylbenzene	Xylenes(total)	1,4-Dichlorobenzene
Water Quality Standard	2	5	50	5	5	5	5	1	5	5	5	5	5
Aug-97	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Oct-97	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8/9/06	<5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5
10/9/07	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2/1/08	<5	<5	<10	12 B	<5	<5	<5	<5	<5	<5	<5	<5	<5
6/17/09	< 5	< 5	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
7/20/10	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
12/12/11	<5	<5	<10 J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
3/19/12	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Historical Water Quality Database - Towslee Landfill

Organics (ug/l) (includes only detected compounds)

Well MW-7A - Overburden

	Vinyl Chloride	Chloroethane	Acetone	Methylene Chloride	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	Benzene	Toluene	Chlorobenzene	Ethylbenzene	Xylenes(total)	1,4-Dichlorobenzene
Water Quality Standard	2	5	50	5	5	5	5	1	5	5	5	5	5
Aug-97	**2 J**	<10	<10	**1 JB**	**1 J**	**1 J**	**3 J**	<10	<10	<10	<10	<10	<10
Oct-97	**5 J**	**1 J**	<10	<10	**2 J**	**2 J**	**4 J**	<10	<10	<10	<10	<10	<10
8/9/06	<5	<5	<25	<5	<5	**7.1**	**6.1**	<5	<5	<5	<5	<10	<5
10/9/07	4 J	<5	<10	<5	<5	**6.1**	**5 J**	<5	<5	<5	<5	<5	<5
2/1/08	8.2	<5	<10	<5	<5	**9**	**7.9**	<5	<5	<5	<5	<5	<5
6/17/09	5.7	< 5	< 10	< 5	< 5	**5.4**	**5 J**	< 5	< 5	< 5	< 5	< 5	< 5
7/20/10	4 J	<5	11	<5	<5	**5 J**	**4 J**	<5	<5	<5	<5	<5	<5
12/12/11	4 J	<5	<10 J	<5	<5	**5 J**	**4 J**	<5	<5	<5	<5	<5	<5
3/20/12	<5	<5	<10	<5	<5	**3 J**	**3 J**	<5	<5	<5	<5	<5	<5

Appendix C

Historical Summary of Parameters Identified by B&L in 1997 that are Suggestive of Mild Leachate Contamination

Cortland County Towslee Landfill

Conventionals	Metals
Alkalinity	Aluminum
Hardness	Arsenic
Chloride	Calcium
Ammonia	Chromium
TKN	Cobalt
COD	Copper
TOC	Iron
	Lead
	Magnesium
	Manganese
	Potassium
	Sodium
	Vanadium
	Zinc

Historical Summary of Parameters Identified by B&L in 1997 that are Indicative of Mild Leachate

Conventionals

(Note: Qualifiers are not included in these tables, except"<")

Analyte	Year/ Quarter	CD-1	CD-1RA	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-5A	MW-6A	MW-6B	MW-7A
Alkalinity	1997_Q3	--	134	160	94.8	702	577	145	235	253	130	357	240	569
mg/L	1997_Q4	--	132	145	93.6	784	673	146	190	355	115	325	224	660
	2006_Q1	--	--	127	92	330	652	162	--	--	--	--	131	648
	2006_Q2	--	--	139	94	355	670	170	--	--	--	--	148	675
	2006_Q3	--	--	122	91	384	612	140	--	--	--	--	154	595
	2006_Q4	--	--	132	89	423	646	152	--	--	--	--	153	635
	2007_Q1	--	--	140	99	380	650	82	--	--	--	--	180	640
	2007_Q2	--	--	120	96	320	480	59	--	--	--	--	160	510
	2007_Q3	--	--	120	100	420	600	170	--	--	--	--	150	530
	2007_Q4	--	--	130	100	290	640	130	--	--	--	--	140	540
	2008_Q1	--	--	--	100	360	640	110	--	--	--	--	140	570
	2008_Q2	--	--	120	100	290	620	170	--	--	--	--	140	560
	2008_Q3	--	--	120	100	380	640	91	--	--	--	--	110	600
	2008_Q4	--	--	120	99	360	680	97	--	--	--	--	120	670
	2009_Q1	--	--	130	92	320	650	18	--	--	--	--	120	500
	2009_Q2	--	--	100	100	360	580	160	--	--	--	--	140	500
	2009_Q3	--	--	120	98	340	650	50	--	--	--	--	140	480
	2009_Q4	--	--	120	86	280	610	79	--	--	--	--	140	520
	2010_Q1	--	--	--	--	310	600	180	--	--	--	--	150	600
	2010_Q2	--	--	140	100	300	610	93	--	--	--	--	150	500
	2010_Q3	--	--	120	91	360	630	160	--	--	--	--	140	510
	2010_Q4	--	--	120	90	310	600	130	--	--	--	--	160	520
	2011_Q1	--	--	130	100	260	710	75	--	--	--	--	130	600
	2011_Q2	--	--	120	93	250	540	150	--	--	--	--	150	510
	2011_Q3	130	120	130	100	300	630	180	240	410	--	200	160	560
	2011_Q4	140	150	150	120	270	570	140	240	400	--	210	180	550
	2012_Q1	130	140	130	110	260	490	130	260	460	--	200	140	500
	2012_Q2	120	140	140	100	250	790	160	210	350	--	130	190	520

Historical Summary of Parameters Identified by B&L in 1997 that are Indicative of Mild Leachate

Conventionals

(Note: Qualifiers are not included in these tables, except"<")

Analyte	Year/ Quarter	CD-1	CD-1RA	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-5A	MW-6A	MW-6B	MW-7A
Hardness	1997_Q3	--	160	4000	88	1300	960	1250	280	308	250	650	300	1010
mg/L	1997_Q4	--	160	240	140	720	900	200	300	464	140	550	240	1150
	2006_Q1	--	--	167	97.6	241	697	153	--	--	--	--	135	627
	2006_Q2	--	--	140	81.9	260	726	179	--	--	--	--	144	599
	2006_Q3	--	--	148	89	265	686	191	--	--	--	--	131	531
	2006_Q4	--	--	148	82	301	675	158	--	--	--	--	133	526
	2007_Q1	--	--	134	83.6	225	723	74	--	--	--	--	156	529
	2007_Q2	--	--	153	105	262	575	58.1	--	--	--	--	139	499
	2007_Q3	--	--	148	104	275	716	150	--	--	--	--	138	481
	2007_Q4	--	--	146	90.8	165	652	86.2	--	--	--	--	124	459
	2008_Q1	--	--	--	89.3	246	678	97.7	--	--	--	--	136	528
	2008_Q2	--	--	151	103	203	654	123	--	--	--	--	142	506
	2008_Q3	--	--	159	107	303	728	76.7	--	--	--	--	137	538
	2008_Q4	--	--	165	105	343	788	97.9	--	--	--	--	134	569
	2009_Q1	--	--	161	97.1	229	678	38.1	--	--	--	--	142	496
	2009_Q2	--	--	163	111	295	782	196	--	--	--	--	154	534
	2009_Q3	--	--	158	108	265	755	37.8	--	--	--	--	148	499
	2009_Q4	--	--	161	206	95	608	65.4	--	--	--	--	138	473
	2010_Q1	--	--	--	--	291	609	93.2	--	--	--	--	163	508
	2010_Q2	--	--	161	92.9	235	681	58	--	--	--	--	147	435
	2010_Q3	--	--	167	106	313	730	194	--	--	--	--	144	520
	2010_Q4	--	--	169	104	260	693	66.9	--	--	--	--	147	507
	2011_Q1	--	--	159	108	190	677	45.7	--	--	--	--	145	484
	2011_Q2	--	--	164	87.4	167	589	137	--	--	--	--	153	465
	2011_Q3	150	135	172	115	253	773	187	274	496	--	208	172	585
	2011_Q4	145	155	177	108	199	713	122	264	430	--	194	166	505
	2012_Q1	144	164	225	124	170	712	147	262	444	--	197	146	524
	2012_Q2	146	155	175	111	207	643	146	259	384	--	169	150	449

Historical Summary of Parameters Identified by B&L in 1997 that are Indicative of Mild Leachate

Conventionals

(Note: Qualifiers are not included in these tables, except"<")

Analyte	Year/ Quarter	CD-1	CD-1RA	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-5A	MW-6A	MW-6B	MW-7A
Chloride	1997_Q3	--	<2	152	<2	156	267	31.4	32	79.1	44.5	79.1	38.2	300
mg/L	1997_Q4	--	2.5	46	<2	149	238	28.7	33.6	74.6	10.1	71.8	35	276
	2006_Q1	--	--	21.3	2.55	23.3	145	14	--	--	--	--	21.1	144
	2006_Q2	--	--	22.2	2.28	25.7	154	12.7	--	--	--	--	2.33	143
	2006_Q3	--	--	34.2	3.47	23.5	122	13.5	--	--	--	--	2.32	119
	2006_Q4	--	--	26.7	0.611	25.7	121	12.7	--	--	--	--	3.39	85
	2007_Q1	--	--	28.7	3.24	21.2	167	3.37	--	--	--	--	11.6	145
	2007_Q2	--	--	27	4.45	14.7	131	1.8	--	--	--	--	6.99	131
	2007_Q3	--	--	27	3.16	24.4	163	12	--	--	--	--	13.8	145
	2007_Q4	--	--	27.9	6.44	10.6	161	5.73	--	--	--	--	25.9	141
	2008_Q1	--	--	--	3.15	21	160	2.43	--	--	--	--	16.7	141
	2008_Q2	--	--	28	5.95	13.5	132	10.5	--	--	--	--	16.9	1260
	2008_Q3	--	--	25.9	5.61	20.2	148	1.1	--	--	--	--	31.1	136
	2008_Q4	--	--	29.7	6.03	15.5	162	1.75	--	--	--	--	28.6	135
	2009_Q1	--	--	30.4	2.86	13.7	118	1.85	--	--	--	--	13.3	114
	2009_Q2	--	--	30.7	4.74	20.5	159	9.25	--	--	--	--	19.4	128
	2009_Q3	--	--	29.5	6.86	17.7	150	<1	--	--	--	--	19.7	120
	2009_Q4	--	--	30	4.71	12.5	140	<1	--	--	--	--	14.7	117
	2010_Q1	--	--	--	--	12.4	112	14.8	--	--	--	--	13.2	104
	2010_Q2	--	--	31.7	3.54	14.5	130	1.31	--	--	--	--	12	89.1
	2010_Q3	--	--	33	3.63	22.5	139	7.44	--	--	--	--	14	128
	2010_Q4	--	--	31.4	6.11	17.1	127	3.3	--	--	--	--	16	115
	2011_Q1	--	--	32	4.07	11.2	124	2.69	--	--	--	--	11.9	95.7
	2011_Q2	--	--	30.5	1.7	8.33	104	2.28	--	--	--	--	16.4	99
	2011_Q3	1.41	2.2	32.1	3.4	16.2	108	4.03	23.7	23.6	--	21.4	12.7	100
	2011_Q4	6.88	3.67	28.5	1.69	10.2	102	3.44	27.7	25.5	--	13.9	19.4	108
	2012_Q1	<1	1.43	33.9	6.68	8.96	123	1.88	23.8	21.5	--	8.86	16.2	99.4
	2012_Q2	1.2	1.46	33.1	2.47	11.6	124	1.59	23.4	22.3	--	20	10.1	99.5

Historical Summary of Parameters Identified by B&L in 1997 that are Indicative of Mild Leachate

Conventionals

(Note: Qualifiers are not included in these tables, except"<")

Analyte	Year/ Quarter	CD-1	CD-1RA	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-5A	MW-6A	MW-6B	MW-7A
Ammonia	1997_Q3	--	0.04	6	<0.02	23	0.95	<0.02	<0.02	<0.02	<0.02	1.6	0.09	0.93
mg/L	1997_Q4	--	0.11	2.6	0.04	9.1	1.3	0.09	0.04	0.2	0.18	0.02	2.5	0.89
	2006_Q1	--	--	0.276	0.0938	10.6	0.389	0.0969	--	--	--	--	0.0549	0.34
	2006_Q2	--	--	<0.02	<0.02	18.4	0.824	<0.02	--	--	--	--	<0.02	<0.02
	2006_Q3	--	--	0.161	<0.02	16	0.786	<0.02	--	--	--	--	0.096	<0.02
	2006_Q4	--	--	<0.1	<0.1	15.1	0.282	<0.1	--	--	--	--	<0.1	<0.1
	2007_Q1	--	--	<0.5	<0.5	10.2	0.921	1.45	--	--	--	--	<0.5	<0.5
	2007_Q2	--	--	<0.5	<0.5	9.89	0.844	<0.5	--	--	--	--	<0.5	<0.5
	2007_Q3	--	--	<0.5	<0.5	14.1	1.31	<0.5	--	--	--	--	<0.5	<0.5
	2007_Q4	--	--	<0.5	<0.5	13.5	1.22	<0.5	--	--	--	--	<0.5	<0.5
	2008_Q1	--	--	--	<0.5	8.78	0.785	<0.5	--	--	--	--	<0.5	<0.5
	2008_Q2	--	--	<0.5	<0.5	8.2	0.572	<0.5	--	--	--	--	<0.5	<0.5
	2008_Q3	--	--	<0.5	<0.5	11.9	1.01	<0.5	--	--	--	--	<0.5	<0.5
	2008_Q4	--	--	<0.5	<0.5	10.8	0.504	<0.5	--	--	--	--	<0.5	<0.5
	2009_Q1	--	--	<0.5	<0.5	8.43	0.642	<0.5	--	--	--	--	<0.5	<0.5
	2009_Q2	--	--	<0.5	<0.5	11.8	0.665	<0.5	--	--	--	--	<0.5	<0.5
	2009_Q3	--	--	<0.5	<0.5	10.3	0.73	<0.5	--	--	--	--	<0.5	<0.5
	2009_Q4	--	--	<0.5	<0.5	8.75	0.696	<0.5	--	--	--	--	<0.5	<0.5
	2010_Q1	--	--	--	--	8.45	0.69	<0.5	--	--	--	--	<0.5	<0.5
	2010_Q2	--	--	<0.5	<0.5	8.06	1.18	<0.5	--	--	--	--	<0.5	<0.5
	2010_Q3	--	--	<0.5	<0.5	10.1	0.812	<0.5	--	--	--	--	<0.5	<0.5
	2010_Q4	--	--	<0.5	<0.5	6.9	<0.5	<0.5	--	--	--	--	<0.5	<0.5
	2011_Q1	--	--	<0.5	<0.5	5.38	0.593	<0.5	--	--	--	--	<0.5	<0.5
	2011_Q2	--	--	<0.5	<0.5	7.03	0.752	<0.5	--	--	--	--	<0.5	<0.5
	2011_Q3	<0.5	<0.5	<0.5	<0.5	5.16	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5
	2011_Q4	<0.5	<0.5	<0.5	<0.5	5.24	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5
	2012_Q1	<0.5	<0.5	<0.5	<0.5	5.32	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5
	2012_Q2	<0.5	<0.5	<0.5	<0.5	5.9	0.76	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5

Historical Summary of Parameters Identified by B&L in 1997 that are Indicative of Mild Leachate

Conventionals

(Note: Qualifiers are not included in these tables, except"<")

Analyte	Year/ Quarter	CD-1	CD-1RA	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-5A	MW-6A	MW-6B	MW-7A
TKN	1997_Q3	--	0.2	18	<0.2	31.5	2.6	0.4	0.3	0.5	0.4	1.5	0.6	1.1
mg/L	1997_Q4	--	0.21	3.8	<0.2	21.2	2	0.24	<0.2	0.4	0.24	<0.2	3.3	1.4
	2006_Q1	--	--	23.3	0.54	10.6	1.31	0.455	--	--	--	--	0.392	1.5
	2006_Q2	--	--	0.529	0.755	14	1.78	1.09	--	--	--	--	0.904	1.68
	2006_Q3	--	--	0.366	0.497	16.5	1.64	0.239	--	--	--	--	0.214	0.75
	2006_Q4	--	--	<0.2	<0.2	15	1.9	0.266	--	--	--	--	0.279	1.11
	2007_Q1	--	--	2.2	<0.5	132	1.84	4.26	--	--	--	--	<0.5	1.47
	2007_Q2	--	--	<0.5	<0.5	12.5	1.62	1.47	--	--	--	--	<0.5	3.6
	2007_Q3	--	--	5.66	<0.5	16.1	1.67	<0.5	--	--	--	--	<0.5	0.784
	2007_Q4	--	--	<0.5	<0.5	12.6	1.53	<0.5	--	--	--	--	<0.5	0.591
	2008_Q1	--	--	--	<0.5	10.7	1.33	<0.5	--	--	--	--	<0.5	0.522
	2008_Q2	--	--	<0.5	<0.5	11.2	1.55	<0.5	--	--	--	--	<0.5	0.949
	2008_Q3	--	--	<0.5	<0.5	12.9	1.03	0.718	--	--	--	--	<0.5	<0.5
	2008_Q4	--	--	<0.5	<0.5	11.6	1.13	<0.5	--	--	--	--	<0.5	<0.5
	2009_Q1	--	--	<0.5	<0.5	10.3	1.22	<0.5	--	--	--	--	<0.5	1.92
	2009_Q2	--	--	<0.5	<0.5	13.5	1.19	<0.5	--	--	--	--	<0.5	0.851
	2009_Q3	--	--	<0.5	<0.5	13.1	1.07	0.786	--	--	--	--	<0.5	0.927
	2009_Q4	--	--	<0.5	<0.5	12.5	1.12	1.36	--	--	--	--	<0.5	0.599
	2010_Q1	--	--	--	--	11.6	1.28	<0.5	--	--	--	--	<0.5	1.02
	2010_Q2	--	--	<0.5	<0.5	11.9	1.55	1.14	--	--	--	--	0.522	1.4
	2010_Q3	--	--	<0.5	<0.5	16.5	1.37	1.26	--	--	--	--	<0.5	1.27
	2010_Q4	--	--	0.897	0.924	9.84	2.45	1.83	--	--	--	--	0.799	2.15
	2011_Q1	--	--	<0.5	<0.5	7.95	1.14	<0.5	--	--	--	--	<0.5	0.639
	2011_Q2	--	--	<0.5	<0.5	8.21	0.948	<0.5	--	--	--	--	<0.5	<0.5
	2011_Q3	<0.5	<0.5	<0.5	<0.5	9.52	1.95	0.508	<0.5	<0.5	--	<0.5	<0.5	1.03
	2011_Q4	<0.5	<0.5	<0.5	<0.5	6.86	1.46	<0.5	<0.5	<0.5	--	1.12	0.546	2.19
	2012_Q1	<0.5	<0.5	0.994	<0.5	4.95	<0.5	<0.5	<0.5	<0.5	--	1.16	<0.5	<0.5
	2012_Q2	<0.5	<0.5	<0.5	<0.5	6.56	0.811	<0.5	<0.5	<0.5	--	1.89	<0.5	<0.5

Historical Summary of Parameters Identified by B&L in 1997 that are Indicative of Mild Leachate

Conventionals

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Analyte	Year/ Quarter	CD-1	CD-1RA	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-5A	MW-6A	MW-6B	MW-7A
COD	1997_Q3	--	<15	305	<15	127	58	19	22	37	16	94	40	43
mg/L	1997_Q4	--	<15	64	<15	136	61	<15	<15	22	<15	82	19	112
	2006_Q1	--	--	<10	<10	<10	<10	<10	--	--	--	--	<10	21.2
	2006_Q2	--	--	<10	<10	13.8	17.2	<10	--	--	--	--	<10	16.5
	2006_Q3	--	--	<10	<10	27	24.6	13	--	--	--	--	11.6	26.4
	2006_Q4	--	--	<10	<10	15.6	27	<10	--	--	--	--	<10	20.5
	2007_Q1	--	--	<20	<20	<20	21	47	--	--	--	--	<20	27
	2007_Q2	--	--	<20	<20	<20	<20	<20	--	--	--	--	<20	<20
	2007_Q3	--	--	<20	<20	46	<20	<20	--	--	--	--	<20	<20
	2007_Q4	--	--	<20	<20	22	<20	<20	--	--	--	--	<20	<20
	2008_Q1	--	--	--	<20	23	24	23	--	--	--	--	<20	<20
	2008_Q2	--	--	<20	<20	21	<20	<20	--	--	--	--	<20	36
	2008_Q3	--	--	<20	<20	36	<20	34	--	--	--	--	<20	22
	2008_Q4	--	--	<20	<20	32	<20	<20	--	--	--	--	<20	29
	2009_Q1	--	--	<20	<20	<20	<20	<20	--	--	--	--	<20	<20
	2009_Q2	--	--	<20	<20	31	23	<20	--	--	--	--	<20	38
	2009_Q3	--	--	<20	<20	32	26	40	--	--	--	--	<20	37
	2009_Q4	--	--	<20	<20	26	<20	35	--	--	--	--	<20	21
	2010_Q1	--	--	--	--	41	22	<20	--	--	--	--	<20	33
	2010_Q2	--	--	<20	<20	23	<20	30	--	--	--	--	<20	28
	2010_Q3	--	--	<20	<20	50	<20	27	--	--	--	--	<20	31
	2010_Q4	--	--	<20	<20	20	25	29	--	--	--	--	<20	40
	2011_Q1	--	--	<20	<20	<20	<20	<20	--	--	--	--	<20	28
	2011_Q2	--	--	<20	<20	24	<20	<20	--	--	--	--	<20	33
	2011_Q3	<20	<20	<20	<20	<20	<20	<20	<20	<20	--	<20	<20	29
	2011_Q4	<20	<20	<20	<20	<20	25	<20	<20	<20	--	<20	<20	40
	2012_Q1	<20	<20	<20	<20	<20	<20	<20	<20	<20	--	<20	<20	22
	2012_Q2	<20	<20	<20	<20	36	<20	<20	<20	<20	--	<20	<20	22

Historical Summary of Parameters Identified by B&L in 1997 that are Indicative of Mild Leachate

Conventionals

(Note: Qualifiers are not included in these tables, except"<")

Analyte	Year/ Quarter	CD-1	CD-1RA	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-5A	MW-6A	MW-6B	MW-7A
TOC	1997_Q3	--	2.1	4.2	9.3	42.5	12.3	4.5	7.9	7.7	2.7	14	6	10.1
mg/L	1997_Q4	--	<1	1.6	<1	24.1	11.9	1.9	3.7	5.6	<1	10.6	5.8	12.6
	2006_Q1	--	--	4.76	5.41	10.1	<2	5.58	--	--	--	--	5.22	12.8
	2006_Q2	--	--	2.61	2.34	7.18	7.76	<2	--	--	--	--	3.14	8.19
	2006_Q3	--	--	<2	<2	5.67	4.82	<2	--	--	--	--	<2	6.12
	2006_Q4	--	--	<2	<2	5.68	7.49	<2	--	--	--	--	<2	7.46
	2007_Q1	--	--	<3	<3	6.7	6.4	<3	--	--	--	--	<3	8.1
	2007_Q2	--	--	<3	<3	4.8	3	<3	--	--	--	--	<3	6
	2007_Q3	--	--	<3	<3	7.3	5.7	<3	--	--	--	--	<3	7.2
	2007_Q4	--	--	<3	<3	6.3	17.2	3.7	--	--	--	--	<3	11.5
	2008_Q1	--	--	--	<3	21.8	82.6	<3	--	--	--	--	<3	69.9
	2008_Q2	--	--	<3	<3	5.2	23.2	<3	--	--	--	--	<3	17.8
	2008_Q3	--	--	<3	<3	6.3	4.7	7.3	--	--	--	--	<3	5.2
	2008_Q4	--	--	<3	<3	6	6.8	3.6	--	--	--	--	<3	6.1
	2009_Q1	--	--	<3	<3	4.8	4.5	<3	--	--	--	--	<3	5.1
	2009_Q2	--	--	<3	<3	7.2	5.5	<3	--	--	--	--	<3	5.7
	2009_Q3	--	--	<3	<3	5.9	4.6	9.2	--	--	--	--	<3	5
	2009_Q4	--	--	<3	<3	6.5	4.6	5.7	--	--	--	--	<3	5.2
	2010_Q1	--	--	--	--	5.2	3.5	<3	--	--	--	--	<3	4.9
	2010_Q2	--	--	<3	<3	6.7	5.8	9	--	--	--	--	<3	6.7
	2010_Q3	--	--	<3	<3	7.8	5.7	<3	--	--	--	--	<3	6
	2010_Q4	--	--	<3	<3	6	5.4	6.6	--	--	--	--	<3	6.1
	2011_Q1	--	--	<3	<3	4.4	4.2	<3	--	--	--	--	<3	5.1
	2011_Q2	--	--	<3	<3	<3	3.6	<3	--	--	--	--	<3	4.8
	2011_Q3	<3	<3	<3	<3	5.1	5.4	3.1	<3	4	--	<3	<3	6.1
	2011_Q4	<3	<3	<3	<3	3.4	3.4	<3	<3	<3	--	<3	<3	4.1
	2012_Q1	<3	<3	<3	<3	7.4	20.7	4.4	4.5	8.4	--	5.6	<3	15.1
	2012_Q2	<3	<3	<3	<3	5.5	14.4	<3	<3	<3	--	<3	<3	7.3

Historical Summary of Parameters Identified by B&L in 1997 that are Indicative of Mild Leachate Contamination

Total Metals (all values in mg/l)

(Note: Qualifiers are not included in these tables)

Analyte	Year/ Quarter	CD-1	CD-1RA	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-5A	MW-6A	MW-6B	MW-7A
Aluminum	1997_Q3	--	0.587	724	0.662	79.3	2.03	21.7	2.01	1.61	10.1	59.1	8.59	40
	1997_Q4	--	5.24	16.9	0.134	59.1	5.31	2.39	0.184	1.32	0.228	38.6	0.642	88.4
	2006_Q3	--	--	2.96	1.09	0.43	0.18	0.078	--	--	--	--	0.115	0.415
	2007_Q4	--	--	2.07	0.537	0.444	<0.1	0.33	--	--	--	--	0.102	2.43
	2008_Q1	--	--	--	0.518	1.98	0.168	0.23	--	--	--	--	0.134	0.919
	2009_Q2	--	--	1.57	0.255	<0.1	0.235	<0.1	--	--	--	--	<0.1	9.56
	2010_Q3	--	--	0.142	<0.1	3.37	<0.1	5.32	--	--	--	--	<0.1	1.52
	2011_Q4	0.383	1.7	0.711	0.305	0.317	0.175	0.107	0.253	0.153	--	0.683	<0.1	2.12
	2012_Q1	1.32	0.145	19.1	0.141	0.323	0.536	1.33	0.148	0.39	--	3.91	<0.1	0.709
Arsenic	1997_Q3	--	0.0032	0.353	<0.0024	0.0631	0.007	0.0127	<0.0024	<0.0024	0.0061	0.0476	0.009	0.0176
	1997_Q4	--	0.004	0.0134	<0.0024	0.0537	0.0083	<0.0024	<0.0024	<0.0024	<0.0024	0.0404	0.0084	0.0459
	2006_Q3	--	--	<0.025	<0.025	<0.025	<0.025	<0.025	--	--	--	--	<0.025	<0.025
	2007_Q4	--	--	<0.01	<0.01	<0.01	<0.01	<0.01	--	--	--	--	<0.01	<0.01
	2008_Q1	--	--	--	<0.01	0.0145	<0.01	<0.01	--	--	--	--	<0.01	<0.01
	2009_Q2	--	--	<0.01	<0.01	<0.01	<0.01	<0.01	--	--	--	--	<0.01	<0.01
	2010_Q3	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	<0.005	<0.005
	2011_Q4	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	<0.005
	2012_Q1	<0.005	<0.005	0.0115	<0.005	0.00679	<0.005	<0.005	<0.005	<0.005	--	0.00689	<0.005	0.00582
Calcium	1997_Q3	--	41.5	430	26.7	186	288	57.8	73.8	110	45.8	99.1	70.5	234
	1997_Q4	--	45.7	48.6	24.7	172	245	53.7	74.4	127	32.1	82.2	55.6	271
	2006_Q1	--	--	46.2	26.8	69.1	203	46.3	--	--	--	--	39.3	171
	2006_Q2	--	--	41.8	23.9	74.1	216	55.3	--	--	--	--	39.6	165
	2006_Q3	--	--	43.2	25.8	77.3	203	57.9	--	--	--	--	36.1	150
	2006_Q4	--	--	43.9	24.1	88.5	200	48.3	--	--	--	--	37.4	148
	2007_Q1	--	--	39.2	23.7	64.2	216	23	--	--	--	--	45.6	149
	2007_Q2	--	--	44.5	30	75.3	170	18.1	--	--	--	--	39.9	140
	2007_Q3	--	--	43.5	29.9	80.4	214	45.1	--	--	--	--	40.2	135
	2007_Q4	--	--	42.2	26	47.9	195	27.5	--	--	--	--	36.7	131
	2008_Q1	--	--	--	25.1	70.3	201	30.2	--	--	--	--	39.2	148
	2008_Q2	--	--	43.2	28.6	57.5	192	37.6	--	--	--	--	39.5	139
	2008_Q3	--	--	46.2	30.2	87.8	214	24.4	--	--	--	--	39	150
	2008_Q4	--	--	48.3	30	99	235	31.3	--	--	--	--	38.7	162
	2009_Q1	--	--	47.2	27.7	66.7	201	12.3	--	--	--	--	39.6	140
	2009_Q2	--	--	47	31.4	87.1	237	59.5	--	--	--	--	42.9	150
	2009_Q3	--	--	46.5	31.1	78.6	227	15.2	--	--	--	--	42	144
	2009_Q4	--	--	45	58.7	26.5	178	26.2	--	--	--	--	38.2	131
	2010_Q1	--	--	--	--	71.1	177	28.8	--	--	--	--	45	139
	2010_Q2	--	--	47	26.5	68.7	202	23.2	--	--	--	--	40.6	122
	2010_Q3	--	--	48.9	30.3	91.2	216	57.3	--	--	--	--	39.9	147
	2010_Q4	--	--	49	29.7	74.6	207	26.8	--	--	--	--	40.9	143
	2011_Q1	--	--	45.6	30.5	54.9	200	18.3	--	--	--	--	40.1	136
	2011_Q2	--	--	46.9	24.9	48.7	172	42.9	--	--	--	--	43.3	130
	2011_Q3	45.2	41	51.5	34.3	76.9	237	58.9	75.8	153	--	66.6	49.7	173
	2011_Q4	41.6	44.1	51	30.8	58.1	212	38.6	70	128	--	59.7	48.1	146
	2012_Q1	40.7	47.1	58.2	35	49.6	208	44.9	69	131	--	58.8	40.8	149
	2012_Q2	41.2	43.1	49.4	30.4	59.2	184	43.6	66.6	110	--	50.9	39.8	123
Chromium	1997_Q3	--	0.0042	1.04	0.002	0.112	0.004	0.0249	0.0032	0.0015	0.0092	0.0859	0.0092	0.0556
	1997_Q4	--	0.0089	0.0265	<0.0004	0.0967	0.0086	0.0022	<0.0004	0.00093	<0.0004	0.0705	0.0017	0.146
	2006_Q3	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	<0.005	<0.005
	2007_Q4	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	<0.005	<0.005
	2008_Q1	--	--	--	<0.005	0.0177	0.00816	<0.005	--	--	--	--	<0.005	0.00667
	2009_Q2	--	--	<0.005	<0.01	<0.01	<0.01	<0.01	--	--	--	--	<0.01	<0.01
	2010_Q3	--	--	<0.01	<0.01	<0.01	<0.01	<0.01	--	--	--	--	<0.01	<0.01
	2011_Q4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01
	2012_Q1	<0.01	<0.01	0.0267	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01

Historical Summary of Parameters Identified by B&L in 1997 that are Indicative of Mild Leachate Contamination

Total Metals (all values in mg/l)

(Note: Qualifiers are not included in these tables)

Analyte	Year/ Quarter	CD-1	CD-1RA	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-5A	MW-6A	MW-6B	MW-7A
Cobalt	1997_Q3	--	<0.0011	0.59	<0.0011	0.0719	0.0091	0.0121	0.002	0.0036	0.0105	0.056	0.0112	0.0311
	1997_Q4	--	0.0053	0.0168	<0.0011	0.0628	0.0141	0.0019	0.0014	0.0035	<0.0011	0.0463	0.0056	0.0791
	2006_Q3	--	--	<0.015	<0.015	<0.015	<0.015	<0.015	--	--	--	--	<0.015	<0.015
	2007_Q4	--	--	<0.02	<0.02	<0.02	<0.02	<0.02	--	--	--	--	<0.02	<0.02
	2008_Q1	--	--	--	<0.02	<0.02	<0.02	<0.02	--	--	--	--	<0.02	<0.02
	2009_Q2	--	--	<0.02	<0.02	<0.02	<0.02	<0.02	--	--	--	--	<0.02	<0.02
	2010_Q3	--	--	<0.02	<0.02	<0.02	<0.02	<0.02	--	--	--	--	<0.02	<0.02
	2011_Q4	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.02
	2012_Q1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.02
Copper	1997_Q3	--	0.004	0.996	0.004	0.104	0.0069	0.0315	0.0051	0.0066	0.0181	0.0973	0.0116	0.0637
	1997_Q4	--	0.0085	0.0254	0.0025	0.0779	0.0118	0.0076	0.0018	0.0076	0.0037	0.0689	0.0051	0.129
	2006_Q3	--	--	0.022	0.017	0.012	0.017	0.023	--	--	--	--	0.016	0.013
	2007_Q4	--	--	<0.01	<0.01	<0.01	<0.01	<0.01	--	--	--	--	<0.01	<0.01
	2008_Q1	--	--	--	<0.01	<0.01	<0.01	<0.01	--	--	--	--	<0.01	<0.01
	2009_Q2	--	--	<0.01	<0.01	<0.01	<0.01	<0.01	--	--	--	--	<0.01	<0.01
	2010_Q3	--	--	<0.01	<0.01	<0.01	<0.01	<0.01	--	--	--	--	<0.01	<0.01
	2011_Q4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01
	2012_Q1	<0.01	<0.01	0.0218	<0.01	<0.01	<0.01	<0.01	<0.01	0.0224	--	<0.01	<0.01	<0.01
Iron	1997_Q3	--	1.01	1550	1.33	154	4.3	26.6	3.04	2.2	11.5	111	10.6	65.9
	1997_Q4	--	10.3	35.7	0.226	131	10.7	3.58	0.372	1.99	0.46	85.5	3	174
	2006_Q1	--	--	19.4	9.42	8.29	0.913	1.88	--	--	--	--	1.09	14.5
	2006_Q2	--	--	2.99	1.48	24	0.836	0.626	--	--	--	--	0.511	1.33
	2006_Q3	--	--	6.03	1.84	6.5	1.2	0.104	--	--	--	--	0.306	0.722
	2006_Q4	--	--	2.11	0.273	10.1	1.07	0.283	--	--	--	--	0.195	2.78
	2007_Q1	--	--	1.67	2.39	10.8	0.637	1.18	--	--	--	--	1.87	1.68
	2007_Q2	--	--	2.14	0.508	6.86	0.469	0.599	--	--	--	--	0.486	1.52
	2007_Q3	--	--	1.21	0.465	7.67	0.468	0.231	--	--	--	--	0.163	9.97
	2007_Q4	--	--	3.49	0.73	4.95	0.323	0.537	--	--	--	--	0.216	3.65
	2008_Q1	--	--	--	1	9.77	0.439	0.451	--	--	--	--	0.229	1.68
	2008_Q2	--	--	1.17	1.38	4.1	0.56	0.574	--	--	--	--	0.33	1.99
	2008_Q3	--	--	0.217	0.185	10.6	0.236	0.508	--	--	--	--	<0.06	0.342
	2008_Q4	--	--	0.429	0.174	9.51	0.28	0.177	--	--	--	--	<0.06	1.16
	2009_Q1	--	--	0.818	2.92	7.77	0.466	0.6	--	--	--	--	0.268	0.322
	2009_Q2	--	--	1.65	0.523	8.28	0.464	0.155	--	--	--	--	0.104	10.1
	2009_Q3	--	--	0.348	0.115	5.21	0.222	0.534	--	--	--	--	0.0703	0.108
	2009_Q4	--	--	6.19	6.72	0.827	0.235	1.44	--	--	--	--	0.417	1.19
	2010_Q1	--	--	--	--	64.2	0.451	0.366	--	--	--	--	0.448	3.95
	2010_Q2	--	--	0.484	0.423	6.1	0.329	0.291	--	--	--	--	0.226	0.469
	2010_Q3	--	--	0.219	0.159	13	0.149	6.97	--	--	--	--	<0.06	1.71
	2010_Q4	--	--	1.99	1.02	9.73	0.273	2.42	--	--	--	--	0.337	3.06
	2011_Q1	--	--	1.47	1.19	4.73	0.345	0.232	--	--	--	--	0.114	0.162
	2011_Q2	--	--	3.13	<0.06	4.27	0.312	0.121	--	--	--	--	0.235	0.418
	2011_Q3	0.126	0.662	0.872	0.121	5.34	0.276	0.121	0.578	0.261	--	0.835	0.835	4.66
	2011_Q4	0.688	2.75	0.987	0.341	5.42	0.333	0.345	0.344	0.174	--	1.32	0.0989	3.03
	2012_Q1	2.04	0.248	33.7	0.238	2.9	1.11	1.77	0.386	0.427	--	7.22	1.05	0.931
	2012_Q2	2.34	0.509	1.65	3.2	3.15	0.337	0.451	0.0945	0.146	--	0.98	7.38	2.9

Historical Summary of Parameters Identified by B&L in 1997 that are Indicative of Mild Leachate Contamination

Total Metals (all values in mg/l)

(Note: Qualifiers are not included in these tables)

Analyte	Year/ Quarter	CD-1	CD-1RA	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-5A	MW-6A	MW-6B	MW-7A
Lead	1997_Q3	--	0.0017	0.454	<0.001	0.0561	0.0044	0.0077	0.0013	0.0031	0.0114	0.0168	0.0044	0.0251
	1997_Q4	--	0.0049	0.0123	<0.001	0.0436	0.0058	<0.001	<0.001	0.0024	<0.001	0.0113	<0.001	0.0585
	2006_Q1	--	--	0.00716	<0.005	<0.005	<0.005	<0.005	--	--	--	--	<0.005	0.0175
	2006_Q2	--	--	0.007	<0.005	0.019	0.009	0.005	--	--	--	--	<0.005	0.009
	2006_Q3	--	--	<0.005	<0.005	<0.005	<0.005	0.005	--	--	--	--	<0.005	0.006
	2006_Q4	--	--	<0.005	<0.005	0.006	<0.005	<0.005	--	--	--	--	<0.005	<0.005
	2007_Q1	--	--	<0.003	0.00431	0.00524	<0.003	<0.003	--	--	--	--	<0.003	<0.003
	2007_Q2	--	--	<0.003	<0.003	<0.003	<0.003	<0.003	--	--	--	--	<0.003	<0.003
	2007_Q3	--	--	<0.003	<0.003	<0.003	<0.003	<0.003	--	--	--	--	<0.003	0.00656
	2007_Q4	--	--	<0.003	<0.003	<0.003	<0.003	<0.003	--	--	--	--	<0.003	<0.003
	2008_Q1	--	--	--	<0.003	<0.003	<0.003	<0.003	--	--	--	--	<0.003	<0.003
	2008_Q2	--	--	<0.003	<0.003	<0.003	<0.003	<0.003	--	--	--	--	<0.003	<0.003
	2008_Q3	--	--	<0.003	<0.003	0.0039	<0.003	<0.003	--	--	--	--	<0.003	<0.003
	2008_Q4	--	--	<0.003	<0.003	<0.003	<0.003	<0.003	--	--	--	--	<0.003	<0.003
	2009_Q1	--	--	<0.003	<0.003	<0.003	<0.003	<0.003	--	--	--	--	<0.003	<0.003
	2009_Q2	--	--	<0.003	<0.003	<0.003	<0.003	<0.003	--	--	--	--	<0.003	<0.003
	2009_Q3	--	--	<0.003	<0.003	<0.003	<0.003	<0.003	--	--	--	--	<0.003	<0.003
	2009_Q4	--	--	<0.003	<0.003	<0.003	<0.003	<0.003	--	--	--	--	<0.003	<0.003
	2010_Q1	--	--	--	--	0.0187	<0.003	<0.003	--	--	--	--	<0.003	<0.003
	2010_Q2	--	--	<0.003	<0.003	<0.003	<0.003	<0.003	--	--	--	--	<0.003	<0.003
	2010_Q3	--	--	<0.003	<0.003	<0.003	<0.003	<0.003	--	--	--	--	<0.003	<0.003
	2010_Q4	--	--	<0.003	<0.003	<0.003	<0.003	<0.003	--	--	--	--	<0.003	<0.003
	2011_Q1	--	--	<0.003	<0.003	<0.003	<0.003	<0.003	--	--	--	--	<0.003	<0.003
	2011_Q2	--	--	<0.003	<0.003	<0.003	<0.003	<0.003	--	--	--	--	<0.003	<0.003
	2011_Q3	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	--	<0.003	<0.003	0.00321
	2011_Q4	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	--	<0.003	<0.003	<0.003
	2012_Q1	<0.003	<0.003	0.0108	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	--	<0.003	<0.003	<0.003
	2012_Q2	<0.003	<0.003	<0.003	0.00423	<0.003	<0.003	<0.003	<0.003	<0.003	--	<0.003	<0.015	0.00328
Magnesium	1997_Q3	--	9.5	309	6.47	61.6	61.7	17	22.8	24.3	14.8	37.6	19	67
	1997_Q4	--	10.4	15.6	5.84	53.6	49.9	11	21.5	26	9.45	28.8	12.7	88.3
	2006_Q1	--	--	12.6	7.46	16.6	46.1	9.13	--	--	--	--	8.94	48.6
	2006_Q2	--	--	8.67	5.39	18.3	45.3	10	--	--	--	--	10.9	45.5
	2006_Q3	--	--	9.7	6.05	17.5	43.5	11.2	--	--	--	--	9.86	38
	2006_Q4	--	--	9.43	5.31	19.4	42.7	9.2	--	--	--	--	9.71	38
	2007_Q1	--	--	8.87	5.94	15.7	44.8	4.04	--	--	--	--	10.2	38.4
	2007_Q2	--	--	10.2	7.4	17.9	36.3	3.1	--	--	--	--	9.68	36.4
	2007_Q3	--	--	9.67	7.12	18	44.1	9.15	--	--	--	--	9.12	35
	2007_Q4	--	--	9.8	6.28	11	39.9	4.26	--	--	--	--	7.81	32.1
	2008_Q1	--	--	--	6.44	17.1	42.8	5.42	--	--	--	--	9.37	38.4
	2008_Q2	--	--	10.6	7.58	14.3	42.4	7.04	--	--	--	--	10.4	38.5
	2008_Q3	--	--	10.7	7.74	20.3	47.1	3.83	--	--	--	--	9.61	39.5
	2008_Q4	--	--	10.8	7.28	23.1	49.1	4.8	--	--	--	--	9.13	39.8
	2009_Q1	--	--	10.6	6.76	15.1	42.9	1.82	--	--	--	--	10.5	35.8
	2009_Q2	--	--	11.1	7.83	18.8	45.9	11.6	--	--	--	--	11.4	38.7
	2009_Q3	--	--	10	7.34	16.8	45.6	<1	--	--	--	--	10.4	34
	2009_Q4	--	--	11.9	14.4	7.01	39.7	<5	--	--	--	--	10.4	35.3
	2010_Q1	--	--	--	--	27.6	40.4	5.17	--	--	--	--	12.3	38.8
	2010_Q2	--	--	10.5	6.49	15.4	43.1	<5	--	--	--	--	11	31.4
	2010_Q3	--	--	10.8	7.27	20.6	46.2	12.5	--	--	--	--	10.7	36.9
	2010_Q4	--	--	11.3	7.29	17.9	43	<5	--	--	--	--	10.9	36.4
	2011_Q1	--	--	11	7.75	12.9	42.8	<5	--	--	--	--	10.8	35
	2011_Q2	--	--	11.5	6.14	11	38.8	7.25	--	--	--	--	10.8	34.4
	2011_Q3	9.04	7.95	10.5	7.05	14.8	43.9	9.72	20.5	27.3	--	10.2	11.7	37.2
	2011_Q4	10.1	10.8	12	7.66	13.1	44.7	6.31	21.6	26.8	--	10.8	11.3	33.9
	2012_Q1	10.3	11.4	19.3	8.85	11.2	46.6	8.39	21.6	28.3	--	12.2	10.8	36.8
	2012_Q2	10.5	11.5	12.6	8.66	14.4	44.9	9.02	22.4	26.5	--	10.3	12.4	34.8

Historical Summary of Parameters Identified by B&L in 1997 that are Indicative of Mild Leachate Contamination

Total Metals (all values in mg/l)

(Note: Qualifiers are not included in these tables)

Analyte	Year/ Quarter	CD-1	CD-1RA	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-5A	MW-6A	MW-6B	MW-7A
Manganese	1997_Q3	--	0.19	24.6	0.195	35.7	8.24	0.732	0.12	1.14	0.485	14.5	3.43	5.87
	1997_Q4	--	0.352	0.783	0.146	31.6	7.43	0.174	0.0697	2.15	0.0661	12.7	4.17	9.55
	2006_Q1	--	--	0.534	2.28	12.2	6.98	0.208	--	--	--	--	0.559	6.08
	2006_Q2	--	--	0.194	0.191	11.5	6.8	0.175	--	--	--	--	0.12	5.69
	2006_Q3	--	--	0.38	0.251	12	6.63	0.416	--	--	--	--	0.297	4.4
	2006_Q4	--	--	0.306	0.126	13.6	6.46	0.176	--	--	--	--	0.185	4.85
	2007_Q1	--	--	0.19	0.521	9.93	6.42	0.415	--	--	--	--	0.331	4.51
	2007_Q2	--	--	0.193	0.169	11.7	4.93	0.501	--	--	--	--	0.0908	4.18
	2007_Q3	--	--	0.206	0.19	12.7	6.6	0.116	--	--	--	--	0.671	3.98
	2007_Q4	--	--	0.203	0.176	7.05	5.7	0.287	--	--	--	--	0.712	3.47
	2008_Q1	--	--	--	0.26	11.2	6.21	0.0373	--	--	--	--	0.327	4.17
	2008_Q2	--	--	0.157	0.198	9.3	5.96	0.141	--	--	--	--	0.102	4.34
	2008_Q3	--	--	0.135	0.169	13.8	6.49	0.618	--	--	--	--	0.666	4.82
	2008_Q4	--	--	0.151	0.153	15.1	6.84	0.0424	--	--	--	--	0.619	4.57
	2009_Q1	--	--	0.0917	0.223	10.7	6.5	0.294	--	--	--	--	0.0257	4.31
	2009_Q2	--	--	0.169	0.25	12.8	6.63	0.164	--	--	--	--	0.0585	4.21
	2009_Q3	--	--	0.155	0.149	11.4	6.31	0.331	--	--	--	--	0.255	3.8
	2009_Q4	--	--	0.251	9.34	0.144	5.63	0.597	--	--	--	--	0.167	3.68
	2010_Q1	--	--	--	--	11.6	5.48	0.568	--	--	--	--	0.0606	3.87
	2010_Q2	--	--	0.118	0.13	9.79	6.2	0.218	--	--	--	--	0.027	3.85
	2010_Q3	--	--	0.156	0.188	12.2	6.35	0.282	--	--	--	--	0.087	3.82
	2010_Q4	--	--	0.329	0.153	11.1	6.82	0.471	--	--	--	--	0.242	4.5
	2011_Q1	--	--	0.236	0.269	8.18	6.23	0.575	--	--	--	--	0.0452	4.33
	2011_Q2	--	--	0.215	0.24	7.05	5.23	0.704	--	--	--	--	0.0213	3.8
	2011_Q3	0.18	0.119	0.139	0.275	9.08	5.99	0.635	0.184	1.91	--	1.33	0.166	4.86
	2011_Q4	0.256	0.211	0.119	0.0807	7.78	5.93	0.726	0.125	1.73	--	1.78	0.231	3.57
	2012_Q1	1.62	0.188	0.691	0.223	6.81	6.23	0.802	0.102	1.75	--	1.63	0.0335	1.62
	2012_Q2	1.3	0.23	0.121	0.232	8.49	6.4	0.926	0.1	1.44	--	2.16	0.781	3.27
Potassium	1997_Q3	--	1.01	77.5	1.56	23.4	3	7.43	2.05	2.01	3.03	14.4	4.08	10.4
	1997_Q4	--	1.91	6.97	0.529	17	2.9	1.87	1.2	2.02	0.897	10.1	2.72	13.5
	2006_Q1	--	--	2.72	0.973	9.29	2.42	0.938	--	--	--	--	1.15	3.06
	2006_Q2	--	--	1.6	0.468	11.2	2.25	0.829	--	--	--	--	0.825	1.91
	2006_Q3	--	--	1.7	0.523	12.3	2.28	1.09	--	--	--	--	0.634	1.81
	2006_Q4	--	--	1.62	0.374	12.7	2.38	0.937	--	--	--	--	0.69	2.03
	2007_Q1	--	--	1.74	<1	9.02	2.74	<1	--	--	--	--	1.05	2.03
	2007_Q2	--	--	2.31	<1	10.8	2.14	<1	--	--	--	--	<1	1.95
	2007_Q3	--	--	1.59	<1	13.3	2.44	<1	--	--	--	--	<1	2.87
	2007_Q4	--	--	2.06	<1	2.14	<1	<1	--	--	--	--	<1	<1
	2008_Q1	--	--	--	<1	8.56	2.44	<1	--	--	--	--	<1	1.85
	2008_Q2	--	--	1.65	<1	7.56	2.2	<1	--	--	--	--	<1	1.98
	2008_Q3	--	--	1.51	<1	12.3	2.23	1.06	--	--	--	--	<1	1.82
	2008_Q4	--	--	1.69	<1	15.1	3.13	<1	--	--	--	--	1.4	2.41
	2009_Q1	--	--	1.52	<1	7.48	2.44	<1	--	--	--	--	1.01	1.62
	2009_Q2	--	--	1.78	<1	12.4	2.71	<1	--	--	--	--	1.03	3.58
	2009_Q3	--	--	<1	<1	13.6	<1	<1	--	--	--	--	<1	<1
	2009_Q4	--	--	<5	8.56	<5	<5	<5	--	--	--	--	<5	<5
	2010_Q1	--	--	--	--	12.8	<5	<5	--	--	--	--	<5	<5
	2010_Q2	--	--	<5	<5	9.42	<5	<5	--	--	--	--	<5	<5
	2010_Q3	--	--	<5	<5	14.3	<5	<5	--	--	--	--	<5	<5
	2010_Q4	--	--	<5	<5	11.9	<5	<5	--	--	--	--	<5	<5
	2011_Q1	--	--	<5	<5	7.2	<5	<5	--	--	--	--	<5	<5
	2011_Q2	--	--	<5	<5	7.47	<5	<5	--	--	--	--	<5	<5
	2011_Q3	<5	<5	<5	<5	11.4	<5	<5	<5	<5	--	<5	<5	<5
	2011_Q4	<5	<5	<5	<5	7.62	<5	<5	<5	<5	--	<5	<5	<5
	2012_Q1	<5	<5	<5	<5	6.33	<5	<5	<5	<5	--	<5	<5	<5
	2012_Q2	<5	<5	<5	<5	8.15	<5	<5	<5	<5	--	<5	<5	<5

Historical Summary of Parameters Identified by B&L in 1997 that are Indicative of Mild Leachate Contamination

Total Metals (all values in mg/l)

(Note: Qualifiers are not included in these tables)

Analyte	Year/ Quarter	CD-1	CD-1RA	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-5A	MW-6A	MW-6B	MW-7A
Sodium	1997_Q3	--	5.41	37.3	7.38	119	64.1	10.4	11.2	13.3	31.6	53.3	38	118
	1997_Q4	--	4.76	26	6.18	102	53.9	6.54	9.78	15.7	9.53	46.8	31.4	113
	2006_Q1	--	--	17.1	6.31	26.3	53.8	5.66	--	--	--	--	14.9	134
	2006_Q2	--	--	13	5.22	25.2	49.7	6.4	--	--	--	--	9.93	129
	2006_Q3	--	--	13.6	6.35	31.4	51.1	8.92	--	--	--	--	10.1	124
	2006_Q4	--	--	13.5	5.92	31.4	51	6.03	--	--	--	--	10.7	128
	2007_Q1	--	--	12.2	5.22	19.5	50.9	2.11	--	--	--	--	11.2	112
	2007_Q2	--	--	12.5	6.82	22.9	40.8	1.14	--	--	--	--	10.2	104
	2007_Q3	--	--	13	7.1	26.1	52.3	5.1	--	--	--	--	15	95.8
	2007_Q4	--	--	11.8	5.84	13.8	48.2	2.64	--	--	--	--	14.7	95.2
	2008_Q1	--	--	--	5.66	19.2	50.6	2.9	--	--	--	--	13.8	104
	2008_Q2	--	--	12.5	6.73	16.5	47.4	3.52	--	--	--	--	12.7	99.6
	2008_Q3	--	--	13.8	7.29	25.6	51.4	2.77	--	--	--	--	18.1	113
	2008_Q4	--	--	13.2	6.81	25.9	58.2	2.69	--	--	--	--	17.6	116
	2009_Q1	--	--	13.4	6.37	17.8	49.3	<1	--	--	--	--	13.1	97
	2009_Q2	--	--	13.9	8.15	23.8	55.4	6.81	--	--	--	--	17.9	103
	2009_Q3	--	--	12.5	7.32	21.1	58.6	<1	--	--	--	--	18.5	110
	2009_Q4	--	--	12.6	14.9	6.59	49	<5	--	--	--	--	15.8	105
	2010_Q1	--	--	--	--	15.5	48.9	<5	--	--	--	--	16.8	112
	2010_Q2	--	--	12.8	6.29	16.3	53.1	<5	--	--	--	--	14.2	109
	2010_Q3	--	--	13.2	7.12	21.9	56.9	6.53	--	--	--	--	15	110
	2010_Q4	--	--	15.3	8.95	19	65.4	<5	--	--	--	--	17.8	127
	2011_Q1	--	--	13.6	7.99	13.5	56.7	<5	--	--	--	--	14.1	110
	2011_Q2	--	--	13.1	6.48	12.5	51	<5	--	--	--	--	17	114
	2011_Q3	<5	<5	13.2	27	22.1	55.3	5.9	11.1	16.7	--	19.5	18.3	114
	2011_Q4	<5	6.69	14.9	8.23	13.6	57.7	<5	12.5	17.8	--	19.8	21.7	104
	2012_Q1	<5	6.24	15.6	9.91	11	58.5	<5	11.9	17.7	--	19	16.5	108
	2012_Q2	<5	5.26	12.6	7.92	11.9	47.4	<5	10.4	14.2	--	14.8	14.6	91
Vanadium	1997_Q3	--	<0.0012	0.856	<0.0012	0.102	0.0029	0.0296	0.003	0.0016	0.0102	0.0726	0.0083	0.0487
	1997_Q4	--	0.0086	0.0243	<0.0012	0.0866	0.0075	0.0039	<0.0012	0.0019	0.0012	0.053	0.0012	0.127
	2006_Q3	--	--	<0.015	<0.015	<0.015	<0.015	<0.015	--	--	--	--	<0.015	<0.015
	2007_Q4	--	--	<0.03	<0.03	<0.03	<0.03	<0.03	--	--	--	--	<0.03	<0.03
	2008_Q1	--	--	--	<0.03	<0.03	<0.03	<0.03	--	--	--	--	<0.03	<0.03
	2009_Q2	--	--	<0.03	<0.03	<0.03	<0.03	<0.03	--	--	--	--	<0.03	<0.03
	2010_Q3	--	--	<0.03	<0.03	<0.03	<0.03	<0.03	--	--	--	--	<0.03	<0.03
	2011_Q4	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	--	<0.03	<0.03	<0.03
	2012_Q1	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	--	<0.03	<0.03	<0.03
Zinc	1997_Q3	--	0.024	3.36	0.0351	0.4	0.103	0.112	0.0621	0.0501	0.105	0.271	0.0894	0.2
	1997_Q4	--	0.0366	0.0874	0.0163	0.278	0.0484	0.0265	0.0155	0.0238	0.0212	0.177	0.0248	0.408
	2006_Q3	--	--	0.106	0.052	<0.01	<0.01	0.025	--	--	--	--	0.014	<0.01
	2007_Q4	--	--	0.0235	0.0168	<0.01	0.0469	0.0106	--	--	--	--	0.0213	0.0263
	2008_Q1	--	--	--	0.0112	0.0101	<0.01	<0.01	--	--	--	--	0.0103	0.0102
	2009_Q2	--	--	<0.01	<0.01	<0.01	<0.01	<0.01	--	--	--	--	<0.01	0.0297
	2010_Q3	--	--	<0.01	<0.01	0.0269	<0.01	0.0285	--	--	--	--	<0.01	<0.01
	2011_Q4	<0.01	0.0146	<0.01	<0.01	<0.01	0.0118	<0.01	0.0114	0.013	--	<0.01	0.0159	0.0156
	2012_Q1	0.0119	<0.01	0.0792	<0.01	<0.01	0.0177	0.0106	0.017	0.0154	--	0.0235	<0.01	<0.01

Appendix D

Landfill Gas Testing Results

Cortland County Towslee Landfill

Cortland County-West Side Extension

GAS MONITORING

Date: 5/29/2012

LOCATION	%O2	LEL (ppm)
AA-1	19.9	0
AA-2	19.7	0
AA-3	19.8	0
AA-4	19.8	0
AA-5	19.7	0
AA-6A	19.8	0
AA-7A	19.8	0
AA-8	19.8	0
AA-9	19.9	0
AA-10	20.1	0
AA-11	20.0	0
AA-12	19.8	0
AA-13	19.8	0
AA-14	19.8	0
AA-15	19.6	0
AA-16	20.1	0
AA-17	19.8	0
AA-6B	19.8	0
AA-7B	19.8	0
GW-1	19.7	0
GFD-1	19.8	0
GFD-2	19.7	0
GFLD-1	19.8	0
GFLD-2	19.7	0
GFLD-3	19.8	0
SH-At Door	20.1	0
SH-At Grate	20.3	0
MW-6A	19.9	0
MW-6B	19.9	0
MW-5A	20.0	0
MW-4A	19.7	0
MW-3A	19.7	0
MW-3B	19.7	0
MW-1A	19.9	1.0
MW-1B	19.9	1.0
MW-2A	19.8	0
MW-2B	19.8	0

Meter: GEM 2000
Recorded by: Dan Aumell