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Sterling Environmental Engineering, P.C.

July 29, 2010

Mr. Carl Hoffman, P.E.
Environmental Engineer II
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233-7013

Subject: Town of Ramapo Landfill
2010 Annual Post-Closure Monitoring Report
STERLING File #20010

Dear Mr. Hoffman,

This report provides groundwater, drinking water and air monitoring results for the 2010 Annual Post-Closure Monitoring (PCM) event conducted for the Town of Ramapo Landfill (Landfill), Rockland County, New York. The New York State Department of Environmental Conservation (NYSDEC) approved a variance request on October 27, 2003, reducing the monitoring frequency to annually and rotated quarterly.

Groundwater samples were collected on May 19 and 20, 2010 by Sterling Environmental Engineering, P.C. (STERLING) from monitoring well locations 1-OS/I, 2-OS, 3-OS/I, 4-OS, 5-OS, 7-OS, 8-OS, 8-I, 8-R, 9-OS, 9-I, 9-R, private water supply wells PW-1 and PW-2, and municipal water supply wells SVWC-93, SVWC-95 and SVWC-96. Municipal water supply well SVWC-94 was out of service during the monitoring event and no sample was collected. Static water level readings were obtained at all of the sampled monitoring well locations, and at monitoring wells 1-R, 2-R, 3-R, 4-R, 5-R, 6-I, 6-R, 7-I and 7-R. Sample locations are shown on Figure 1. A representative from United Water New York was present during the sampling of the SVWC water supply wells.

The 2010 air monitoring event was conducted on May 20, 2010. Air monitoring locations are shown on Figure 1 and results are summarized on Table 1.

Results for the 2010 PCM event are summarized below:

GROUNDWATER MONITORING

Water Level, Specific Conductivity, Temperature, pH and Oxidation Reduction Potential (ORP) readings were measured in the field and are presented on Table 2, "Field Parameters and Water Levels". All samples were analyzed for approved post-closure 6 NYCRR Part 360 Baseline and Site Related Parameters by Test America, Inc. laboratory, located in Amherst, New York, acccording to the United States Environmental Protection Agency (USEPA) methodologies and protocols. A copy of the laboratory report, prepared according to NYSDEC Analytical Services Protocol (ASP) Category A reporting requirements, is attached.

The 2010 analytical results are summarized on Table 3, "Post-Closure Groundwater Quality Monitoring Analytical Results." This table also includes analytical data for the previous three (3) sampling events.

24 Wade Road ✦ Latham, New York 12110 ✦ Tel: 518-456-4900 ✦ Fax: 518-456-3532
E-mail: sterling@sterlingenvironmental.com ✦ Web Site: www.sterlingenvironmental.com

Historic analytical data for Benzene, Chromium, Iron and Manganese are presented on Tables 3A through 3D.

A duplicate sample was collected from groundwater well 2-OS and labeled DUPLICATE.

A summary of the 2010 reported parameter concentrations for each sample location with respect to the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1, Ambient Water Quality Standards and Guidance Values (June 1998) (TOGS 1.1.1) and the United States Environmental Protection Agency (USEPA) Maximum Contaminant Levels (MCLs) for Drinking Water is provided below:

Well 1-OS/I:

Reported concentrations for Antimony, Chromium, Iron, Manganese, Nickel and Sodium exceed the applicable groundwater standards in TOGS 1.1.1. Reported concentrations for Aluminum, Arsenic and Lead exceed the USEPA MCLs. No detected Volatile Organic Compounds (VOCs) are reported for this sample.

Well 2-OS:

Reported concentrations for Chromium, Iron, Manganese and Nickel exceed the applicable groundwater standards in TOGS 1.1.1. The reported concentration for Aluminum exceeds the USEPA MCL. Vinyl Chloride is reported at 0.16 parts per billion (ppb), however does not exceed the groundwater standard of 2 ppb. No other VOCs are detected for this sample.

Well 3-OS/I:

Reported concentrations for Chromium, Iron, Manganese, Nickel, and Sodium exceed the applicable groundwater standards in TOGS 1.1.1. The reported concentration for Aluminum exceeds the USEPA MCL. No detected VOCs are reported for this sample.

Well 4-OS:

Reported concentrations for Chromium, Iron and Sodium exceed the applicable groundwater standards in TOGS 1.1.1. Reported concentrations for Aluminum and Manganese exceed the USEPA MCLs. No detected VOCs are reported for this sample.

Well 5-OS:

Reported concentrations for Beryllium, Chromium, Copper, Iron, Magnesium, Manganese and, Nickel exceed the applicable groundwater standards and guidance value in TOGS 1.1.1. Reported concentrations for Aluminum, Arsenic and Lead exceed the USEPA MCLs. No detected VOCs are reported for this sample.

The laboratory reporting limits for Antimony and Thallium for this sample are greater than the applicable groundwater standard/guidance value because dilution of the sample was required due to high concentration of dissolved solids.

Well 7-OS:

Reported concentrations for Chromium, Iron and Manganese exceed the applicable groundwater standards in TOGS 1.1.1. Also, the reported concentration for Aluminum exceeds the USEPA MCL. No detected VOCs are reported for this sample.

Well 8-OS:

Reported concentrations for Chromium, Iron, Manganese and Sodium exceed the applicable groundwater standards in TOGS 1.1.1. No detected VOCs are reported for this sample.

Well 8-I:

Reported concentrations for Iron, Manganese, and Sodium exceed the applicable groundwater standards in TOGS 1.1.1. Reported concentrations for Aluminum and Arsenic exceed the USEPA's applicable MCLs. The VOC Vinyl Chloride is reported at 0.37 ppb; however it does not exceed the groundwater standard of 2 ppb. No other detected VOCs are reported for this sample.

Well 8-R:

Reported concentrations for Iron, Magnesium, Manganese, and Sodium exceed the applicable groundwater standards in TOGS 1.1.1. Vinyl Chloride is reported at 2.2 ppb and exceeds the groundwater standard of 2 ppb. No other detected VOCs are reported for this sample.

Well 9-OS:

Reported concentrations for Chromium and Iron exceed the applicable groundwater standards in TOGS 1.1.1. Reported concentrations for Aluminum and Manganese exceed the USEPA MCL. No detected VOCs are reported for this sample.

Well 9-I:

Reported concentrations for Chromium, Iron and Manganese exceed the applicable groundwater standards in TOGS 1.1.1. Also, the reported concentration for Aluminum exceeds the USEPA MCL. No detected VOCs are reported for this sample.

Well 9-R:

Reported concentrations for Iron, Manganese and Sodium exceed the applicable groundwater standards in TOGS 1.1.1. Also, the reported concentration for Aluminum exceeds the USEPA MCL. Vinyl Chloride is reported at 0.19 ppb, however does not exceed the groundwater standard of 2 ppb. No other detected VOCs are reported for this sample.

Well PW-1:

Parameters reported at detectable concentrations do not exceed the applicable groundwater standards in TOGS 1.1.1 or the USEPA MCLs. No detected VOCs are reported for this sample.

Well PW-2:

Parameters reported at detectable concentrations do not exceed the applicable groundwater standards in TOGS 1.1.1 or the USEPA MCLs. No detected VOCs are reported for this sample.

Well SVWC-93:

The reported concentration for Sodium exceeds the applicable groundwater standard in TOGS 1.1.1. No detected VOCs are reported for this sample.

Well SVWC-94:

The SVWC-94 location was out of service during the time of the May 2010 monitoring event and a sample was not collected.

Well SVWC-95:

The reported concentration for Sodium exceeds the applicable groundwater standard in TOGS 1.1.1. No detected VOCs are reported for this sample.

Well SVWC-96:

The reported concentration for Sodium and Iron exceed the applicable groundwater standards in TOGS 1.1.1. This is the first time since data was recorded from 1990 to present that Iron (598 ug/L) is reported at a concentration that exceeds the standard (300 ug/L). No detected VOCs are reported for the 2006-2010 monitoring events.

AIR QUALITY MONITORING

Air quality monitoring consisted of surveying explosive gas (Lower Explosive Limit, or LEL), Hydrogen Sulfide (H_2S) and VOCs of the headspace of each monitoring well, the baler building, leachate Manhole A-5, lift stations A-10 and W-20, and breathing space of the Landfill perimeter at 100 foot intervals. Air sampling locations are shown on Figure 1 and results are summarized in Table 1. LEL and H_2S measurements were obtained with a QRAE Multi gas monitor, and VOC measurements were obtained with a Photovac 2020 photoionization detector (PID).

The 2010 air quality monitoring survey for explosive gas, H_2S, and VOCs reports no detected readings except for two (2) VOC readings, one detected at the headspace of Well 1-R (0.1 ppm) and the other located at the north perimeter of the Landfill (0.2 ppm), which are considered minor detections. Based on the 2010 air quality monitoring results, the Landfill is in compliance with the requirements of 6 NYCRR 360-2.15(k)(4).

CONCLUSIONS / RECOMMENDATIONS

During the Landfill inspection, STERLING observed one (1) gas vent on the north side of the Landfill is broken and laying on the ground, and another gas vent on the northwest side of the Landfill is bent. In order for the Landfill gas ventilation system to be fully operational, it is recommended the Town replace or repair these gas vents.

STERLING recommends an inventory of salt storage or dispensing areas located within one-half (1/2) mile radius of the SVWC wells be conducted. Monitoring wells 8-OS, 8-I, 8-R and 9-R also have reported Sodium concentrations that exceed the 20,000 ug/L groundwater standard.

The next sampling event is scheduled to occur in the third quarter of 2011. Please contact me should you have any questions or comments.

Very truly yours,

STERLING ENVIRONMENTAL ENGINEERING, P.C.

Elizabeth M. Davis

Elizabeth M. Davis
Hydrogeologist
liz.davis@sterlingenvironmental.com

EMD/bc
Email Only (NYSDEC)
Attachments (Figure 1, Tables 1-3, 3A through 3D, and Laboratory Report)

cc: George Jacob, USEPA
John Olm, NYDOH*
Ed Moran, Town of Ramapo*
Judy Hunderfund, Rockland County DOH*
Kathy Quinn, Rockland County DOH*
Chris Berke, United Water New York *
Tanyo Parashkevov, United Water New York*
John France, Torne Brook Farm **
Rosie Digianni, 20 Torne Brook Road **
Arlene Lapidos, Ramapo Land Co., Inc. *

* letter, figures and tables only.
** letter, figures, tables and partial lab report enclosure.

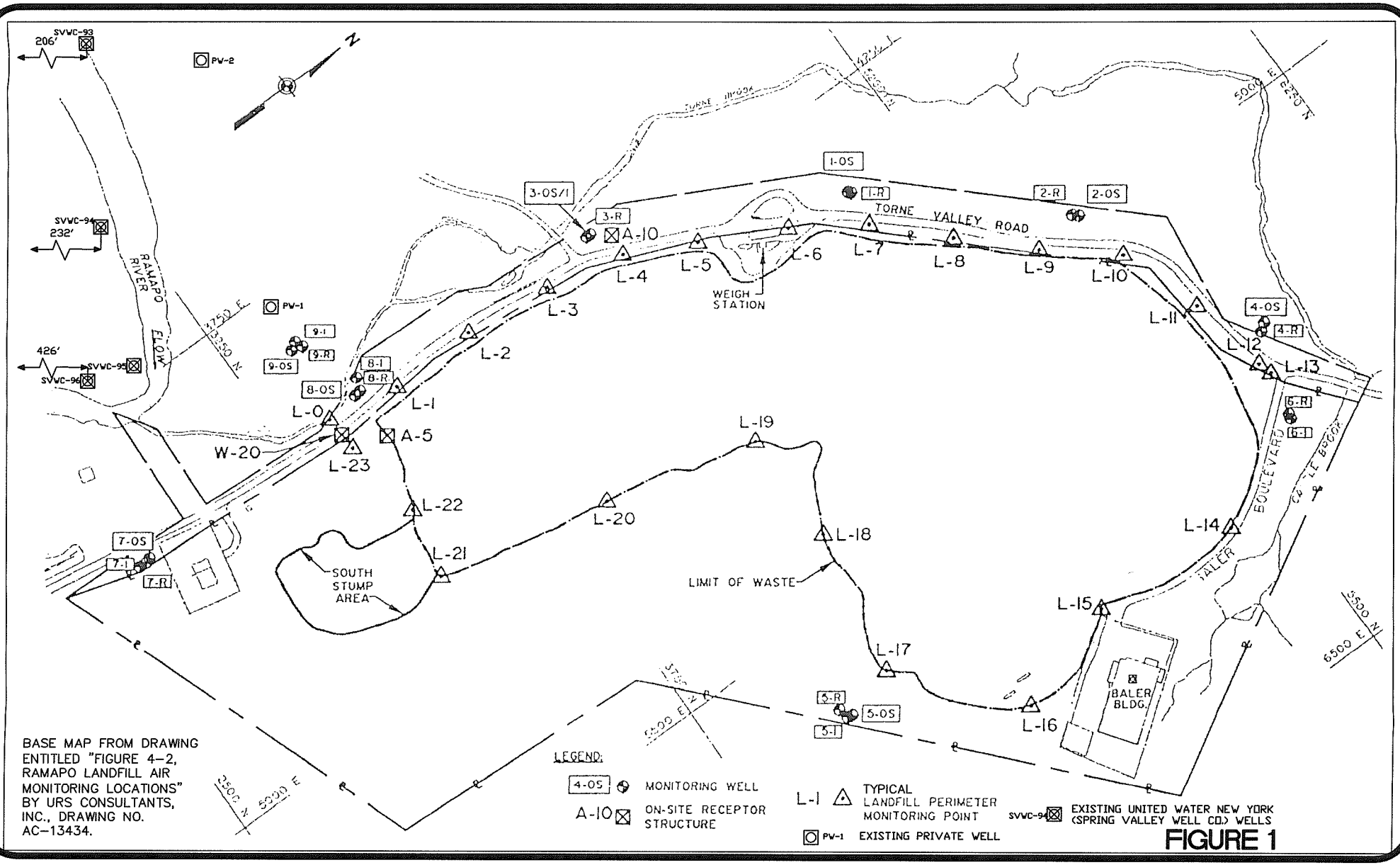

FIGURE 1

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2010 AIR QUALITY AND GROUNDWATER MONITORING LOCATIONS
TOWN OF RAMAPO
LANDFILL

TOWN OF RAMAPO ROCKLAND CO., N.Y.

PROJ. No.:	E20010	DATE:	5-26-10	SCALE:	1"=400'	DWG. NO.	20010015	FIGURE	1

TABLE 1

TOWN OF RAMAPO LANDFILL
AIR MONITORING RESULTS
MAY 19 & 20, 2010

Monitoring Location	Date	LEL Reading (%)	H2S Reading (ppm)	PID Reading (ppm)
Monitoring Wells:				
1-OS	5/19/2010	0	0.0	0.0
1-R	5/19/2010	0	0.0	0.1
2-OS	5/20/2010	0	0.0	0.0
2-R	5/20/2010	0	0.0	0.0
3-OS/I	5/19/2010	0	0.0	0.0
3-R	5/19/2010	0	0.0	0.0
4-OS	5/20/2010	0	0.0	0.0
4-R	5/20/2010	0	0.0	0.0
5-OS	5/20/2010	0	0.0	0.0
5-I	5/20/2010	0	0.0	0.0
5-R	5/20/2010	0	0.0	0.0
6-I	5/20/2010	0	0.0	0.0
6-R	5/20/2010	0	0.0	0.0
7-OS	5/19/2010	0	0.0	0.0
7-I	5/19/2010	0	0.0	0.0
7-R	5/19/2010	0	0.0	0.0
8-OS	5/19/2010	0	0.0	0.0
8-I	5/19/2010	0	0.0	0.0
8-R	5/19/2010	0	0.0	0.0
9-OS	5/19/2010	0	0.0	0.0
9-I	5/19/2010	0	0.0	0.0
9-R	5/19/2010	0	0.0	0.0
Baler Building (waist high)	5/20/2010	0	0.0	0.0
Manhole A-5	5/20/2010	0	0.0	0.0
Lift Station A-10	5/20/2010	0	0.0	0.0
Lift Station W-20	5/20/2010	0	0.0	0.0
Landfill Perimeter	5/20/2010	0	0.0	0.2 (1)

NOTES: LEL = Lower Explosive Limit (for Methane)
H2S = Hydrogen Sulfide
PID = Photoionization Detector, measures VOCs
ppm = parts per million
(1) PID measurements for locations L-4 to L-15 were 0.2 ppm
(see Figure 1 for locations)

TABLE 2

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING
FIELD PARAMETERS AND WATER LEVELS
MAY 19 & 20, 2010

Well I.D.	Date	Static Water Level [1] (feet)	pH [2] (pH units)	Specific Conductance (mmhos)	Temperature (degrees C)	ORP (mV)
1-OS	5/19/2010	16.88	**6.47**	0.896	11.46	133.8
1-R	5/19/2010	15.68	---	---	---	---
2-I	5/20/2010	---	---	---	---	---
2-OS	5/20/2010	13.00	7.17	0.558	11.75	243.7
2-R	5/20/2010	16.96	---	---	---	---
3-OS/I	5/19/2010	12.91	6.61	0.679	10.56	153.4
3-R	5/19/2010	13.05	---	---	---	---
4-I	5/20/2010	---	---	---	---	---
4-OS	5/20/2010	6.85	**6.09**	0.58	10.81	244.2
4-R	5/20/2010	8.68	---	---	---	---
5-OS	5/20/2010	7.42	**6.12**	0.062	11.18	221.6
5-I	5/20/2010	10.89	---	---	---	---
5-R	5/20/2010	25.00	---	---	---	---
6-I	5/20/2010	18.71	---	---	---	---
6-R	5/20/2010	30.36	---	---	---	---
7-OS	5/19/2010	12.97	**6.42**	0.389	11.88	201.4
7-I	5/19/2010	13.6	---	---	---	---
7-R	5/19/2010	14.4	---	---	---	---
8-OS	5/19/2010	13.82	**6.29**	0.364	10.68	225.0
8-I	5/19/2010	14.62	6.79	1.015	12.48	-67.2
8-R	5/19/2010	13.51	6.83	1.168	13.04	-2.6
9-OS	5/19/2010	8.15	**6.36**	0.111	9.97	162.4
9-I	5/19/2010	10.92	**6.22**	0.121	10.27	140.8
9-R	5/19/2010	11.41	6.84	0.781	12.33	-61.8
PW-1	5/19/2010	---	**6.11**	0.233	11.34	214.2
PW-2	5/19/2010	---	6.73	0.222	14.23	183.5
SVWC-93	5/19/2010	---	7.33	0.329	10.11	187.7
SVWC-94	NOT	SAMPLED [3]	---	---	---	---
SVWC-95	5/19/2010	---	6.98	0.383	9.80	110.6
SVWC-96	5/19/2010	---	7.01	0.426	14.15	109.2

NOTES: [1] Depth to water surface from top of PVC well riser, prior to purging and sampling.

[2] pH values in **BOLD** indicate an exceedance of the NYSDEC Water Quality Standard for pH: minimum 6.5 pH units, maximum 8.5 pH units (from T.O.G.S. 1.1.1, June 1998).

[3] SVWC-94 was out of service on May 19, 2010.

--- Not Measured, field parameter not required

ORP Oxidation Reduction Potential

TABLE 3

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING
ANALYTICAL RESULTS

Parameter	ARARs [1]	USEPA MCLS [2]	UNITS	WELL 1-OS/I Sep-06	Oct-07	Mar-09	May-10	WELL 2-OS Sep-06	Oct-07	Mar-09	May-10	DUPLICATE [6]
Leachate Indicator Parameters:												
Alkalinity	---	---	mg/L	210	170	140	157 D08,B	280	250	280	267 D08, B	300 D08, B
Chemical Oxygen Demand	---	---	mg/L	78	75	26	4.2 J	24	33	17	17.7	10 U
Total Hardness	---	---	mg/L	710	440	280	350	52	320	280	350	280
Total Kjeldhal Nitrogen	---	---	mg/L	0.4 U	1.7	0.31	1.16	0.4 U	0.32	0.1 J	0.59	0.34
TAL Metals:												
Aluminum	---	50 to 200 [3]	ug/L	**39,000**	**47,000**	**12,000**	**14,600**	**4,500**	**12,000**	**3,200**	**3,200**	**2,290**
Antimony	3	6	ug/L	3 U	**9.6**	60 U	**3.8**	3 U	2.4 J	60 U	3.0 U	3.0 U
Arsenic	25	10	ug/L	**43**	**31**	7.1 J	**11.2**	2.8 J	6.2	10 U	10.0 U	10.0 U
Barium	1,000	2,000	ug/L	440	450	150	192 B	50 J	110	44 J	64.7	32.9
Beryllium	3	4	ug/L	2.2 J	2.6 J	0.61 J	0.7 J	0.44 J	0.66 J	3 U	0.2 J	0.2 J
Cadmium	5	5	ug/L	4.3	1 U	5 U	1.0 U	1.6	1 U	5 U	1.0 U	1.0 U
Calcium	---	---	ug/L	140,000	80,000	82,000	91,000	87,000	97,000	99,000	92,800	89,800
Chromium	50	100	ug/L	**2,400**	**530**	**140**	**1,990**	**120**	**250**	**480**	**722**	**146**
Cobalt	---	---	ug/L	63	81	28 J	27.6	25	47	20 J	20.7	5.2
Copper	200	1,000 [3]	ug/L	130	140	33	57.6	15	35	21	36.0	11.0
Iron	300	300 [3]	ug/L	**120000**	**160,000**	**38,000**	**44,100** B	**12,000**	**31,000**	**12,000**	**22,700**	**5,510**
Lead	25	15 [4]	ug/L	**94**	**44**	6.3 J	**18.3**	9.1	22	5.7 J	4.9 J	5.0 U
Magnesium	35,000 GV	---	ug/L	28,000	30,000	20,000	22,600	18,000	22,000	18,000	14,800	14,200
Manganese	300	50 [3]	ug/L	**2,800**	**5,100**	**9,000**	**14,800** B	**1,900**	**3,500**	**2,200**	**1,680**	**425**
Mercury	0.7	2	ug/L	0.12	0.11 J	0.2 U	0.1 J	0.2 U	0.037 J	0.2 U	0.2 U	0.2 U
Nickel	100	---	ug/L	**270**	**750**	**640**	**527**	80	**150**	**490**	**236**	55.9
Potassium	---	---	ug/L	11,000	14,000	5,800	6,390	3,000 J	4,600 J	2,100 J	2,010	1,780
Selenium	10	50	ug/L	5 U	7.1	10 U	15.0 U	5 U	5 U	10 U	15.0 U	15.0 U
Silver	50	100 [3]	ug/L	10 U	10 U	10 U	3.0 U	10 U	10 U	10 U	3.0 U	3.0 U
Sodium	20,000	---	ug/L	**62,000**	**76,000**	**97,000**	**111,000**	11,000	12,000	11,000	9,300	9,200
Thallium	0.5 GV	2	ug/L	**20**	**9.9** J	20 U	0.5 U	**16**	10 U	20 U	0.5 U	0.5 U
Vanadium	---	---	ug/L	120	150	34 J	41.9	11 J	31 J	8.5 J	10.4	4.5 J
Zinc	2,000 GV	5,000 [3]	ug/L	220	210	46	62.6	41	53	16 J	14.3	7.9 J
VOCs by EPA Method 8260B [5]:												
1,1-Dichloroethane	5	---	ug/L	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.1 J	0.5 U	1.0 U	1.0 U
Vinyl Chloride	2	2	ug/L	1 U	1 U	1 U	1.0 U	1 U	1 U	1 U	0.16 J	1.0 U
Benzene	1	5	ug/L	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U
Chlorobenzene	5	100	ug/L	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U	1.0 U

NOTES:

Values in **BOLD** indicate an exceedance of applicable water quality standards or guidance values.
All samples were analyzed for NYCRR Part 360 Baseline Parameters and Site Specific Parameters.
Life Science Laboratories, Inc. performed analyses for the 2006 - 2009 samples. TestAmerica Laboratories, Inc. performed analyses for 2010.

[1] Applicable or Relevant and Appropriate Requirements (ARARs): NYSDEC Water Quality Standards and Guidance Values, T.O.G.S. 1.1.1 (June 1998).
[2] USEPA Maximum Contaminant Levels (MCLS) added for comparison starting May 2010.
[3] USEPA National Secondary Drinking Water Standard.
[4] USEPA Treatment Technique Action Level.
[5] VOCs analyzed by US EPA Methods 601/602 for May 2010 event.
[6] Duplicate sample obtained at well MW 2-OS.
[7] The parameters alkalinity, chemical oxygen demand, and total kjeldhal nitrogen were not analyzed due to insufficient water in monitoring well 3OS/I.
[8] SVWC-94 Out of Service during March 2009 and May 2010 Sampling Events.
NA Not Analyzed.
ND Not Detected.
TAL Total Analyte List.

Laboratory Qualifier Definitions:

TestAmerica Laboratories

B Analyte was detected in the associated Method Blank.
D02 Dilution required due to sample matrix effects.
D08 Dilution required due to high concentration of target analyte(s).
D14 Dilution required due to high concentration of dissolved solids known to cause failure of routine quality control. Analytical method recommends a five-fold dilution for samples that contain greater than 2000 mg/L of total solids.
J Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limits (MDL). Concentrations within this range are estimated.
U The compound was analyzed for but not detected at the detection limit listed.

Life Science Laboratories, Inc.

J Analyte detected below Practical Quantitation Limit (PQL).
U The compound was analyzed for but not detected at the detection limit listed.
E Value exceeds the instrument calibration range.

TABLE 3 (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING RESULTS
ANALYTICAL RESULTS

	ARARs [1]	USEPA MCLS [2]	UNITS	WELL 3-OS/I Sep-06	Oct-07	Mar-09 [7]	May-10	WELL 4-OS Sep-06	Oct-07	Mar-09	May-10
Leachate Indicator Parameters:											
Alkalinity	---	---	mg/L	280	270	NA	322 D08, B	82	130	60	53.1 B
Chemical Oxygen Demand	---	---	mg/L	31	10 U	NA	10.0 U	10 U	28	15	10.0 U
Total Hardness	---	---	mg/L	580	340	280	296 D08	92	230	110	150
Total Kjeldhal Nitrogen	---	---	mg/L	0.4 U	0.23	NA	0.56	0.4 U	0.25	0.2 U	0.20
TAL Metals:											
Aluminum	---	50 to 200 [3]	ug/L	**580**	**520**	**870**	**629**	**2,500**	**9,800**	**3,800**	**2,350**
Antimony	3	6	ug/L	3 U	**8.4**	60 U	3.0 U	3 U	1.8 J	60 U	3.0 U
Arsenic	25	10	ug/L	6.9	5 U	10 U	10.0 U	2.8 J	5 U	10 U	10.0 U
Barium	1,000	2,000	ug/L	69 J	34 J	130	30.8 B	40 J	84 J	44 J	37.6
Beryllium	3	4	ug/L	0.23 J	0.1 J	3 U	2.0 U	0.43 J	0.6 J	3 U	0.2 J
Cadmium	5	5	ug/L	3.2	1 U	5 U	1.0 U	2.2	1 U	5 U	1.0 U
Calcium	---	---	ug/L	98,000	110,000	100,000	96,600	53,000	58,000	23,000	33,900
Chromium	50	100	ug/L	**7,200**	**3,400**	**3,900**	**2,570**	**1,300**	**270**	**230**	**522**
Cobalt	---	---	ug/L	56	17	20 J	16.1	14	13	50 U	2.0 J
Copper	200	1,000 [3]	ug/L	69	27	44	21.1	10	23	11	7.4 J
Iron	300	300 [3]	ug/L	**77,000**	**25,000**	**30,000**	**24,000** B	**12,000**	**24,000**	**10,000**	**6,830**
Lead	25	15 [4]	ug/L	1.1 J	5 U	10 U	5.0 U	1.2 J	4.2 J	10 U	5.0
Magnesium	35,000 GV	---	ug/L	13,000	14,000	12,000	11,200	18,000	20,000	11,000	15,000
Manganese	300	50 [3]	ug/L	**9,200**	**4,400**	**14,000**	**2,460** B	**860**	**2,700**	**400**	**223**
Mercury	0.7	2	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	---	ug/L	**1,300**	**730**	**810**	**492**	40 J	68	44 J	61.5
Potassium	---	---	ug/L	3,900 J	3,200 J	3,100 J	3,040	2,400 J	4,100 J	1,800 J	1,630
Selenium	10	50	ug/L	5 U	5 U	20 U	15.0 U	5 U	5 U	10 U	15.0 U
Silver	50	100 [3]	ug/L	10 U	10 U	10 U	3.0 U	10 U	10 U	10 U	3.0 U
Sodium	20,000	---	ug/L	**29,000**	**23,000**	**36,000**	**36,900**	**33,000**	**24,000**	**48,000**	**47,900**
Thallium	0.5 GV	2	ug/L	**16**	10 U	40 U	0.50 J	**24**	10 U	20 U	0.50 J
Vanadium	---	---	ug/L	21 J	11 J	17 J	7.6	9.8 J	27 J	11 J	6.3
Zinc	2,000 GV	5,000 [3]	ug/L	33	6.5 J	6.6 J	10.0 U	44	36	17 J	9.1 J
VOCs by EPA Method 8260B [5]:											
1,1-Dichloroethane	5	---	ug/L	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.15 J	0.5 U	1.0 U
Vinyl Chloride	2	2	ug/L	1 U	1 U	1 U	1.0 U	1 U	1 U	1 U	1.0 U
Benzene	1	5	ug/L	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U
Chlorobenzene	5	100	ug/L	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U

NOTES:

Values in **BOLD** indicate an exceedance of applicable water quality standards or guidance values.
All samples were analyzed for NYCRR Part 360 Baseline Parameters and Site Specific Parameters.
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J Analyte detected below Practical Quantitation Limit (PQL).
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E Value exceeds the instrument calibration range.

TABLE 3 (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING RESULTS
ANALYTICAL RESULTS

	ARARs [1]	USEPA MCLS [2]	UNITS	WELL 5-OS Sep-06	Oct-07	Mar-09	May-10
Leachate Indicator Parameters:							
Alkalinity	---	---	mg/L	22	50	22	23.1 B
Chemical Oxygen Demand	---	---	mg/L	610	10 U	71	10.0 U
Total Hardness	---	---	mg/L	5,200	52	48	102 D08
Total Kjeldhal Nitrogen	---	---	mg/L	0.4 U	0.2 U	0.34	0.22
TAL Metals:							
Aluminum	---	50 to 200 [3]	ug/L	**230,000**	**370**	**65,000**	**115,000**
Antimony	3	6	ug/L	3 U	3 U	60 U	5.0 U, D14
Arsenic	25	10	ug/L	**33**	5 U	9.8 J	**15.5**
Barium	1,000	2,000	ug/L	**1,200**	7.6 J	290	536
Beryllium	3	4	ug/L	**13**	3 U	**3.2**	**5.5**
Cadmium	5	5	ug/L	**11**	1 U	5 U	5.0 U, D02
Calcium	---	---	ug/L	84,000	12,000	21,000	34,100
Chromium	50	100	ug/L	**690**	32	**170**	**278**
Cobalt	---	---	ug/L	210	10 U	46 J	80.0
Copper	200	1,000 [3]	ug/L	**500**	10 U	110	**202**
Iron	300	300 [3]	ug/L	**410,000**	**850**	**110,000**	**176,000**
Lead	25	15 [4]	ug/L	**67**	5 U	12	**23.3**
Magnesium	35,000 GV	---	ug/L	**80,000**	4,600	21,000	**36,500**
Manganese	300	50 [3]	ug/L	**5,100**	14 J	**1,100**	**2,230**
Mercury	0.7	2	ug/L	0.14	0.026 J	0.2 U	0.2 U
Nickel	100	---	ug/L	**370**	14 J	89	**147**
Potassium	---	---	ug/L	38,000	760 J	11,000	18,300
Selenium	10	50	ug/L	5 U	5 U	10 U	15.0 U
Silver	50	100 [3]	ug/L	8.1 J	10 U	10 U	1.9 J
Sodium	20,000	---	ug/L	14,000	4,100	8,100	8,000
Thallium	0.5 GV	2	ug/L	**7.8** J	10 U	20 U	2.5 U, D14
Vanadium	---	---	ug/L	620	4.7 J	170	279
Zinc	2,000 GV	5,000 [3]	ug/L	610	8.8 J	130	236
VOCs by EPA Method 8260B [5]:							
1,1-Dichloroethane	5	---	ug/L	0.5 U	0.5 U	0.5 U	1.0 U
Vinyl Chloride	2	2	ug/L	1 U	1 U	1 U	1.0 U
Benzene	1	5	ug/L	0.5 U	0.5 U	0.5 U	1.0 U
Chlorobenzene	5	100	ug/L	0.5 U	0.5 U	0.5 U	1.0 U

NOTES:

Values in **BOLD** indicate an exceedance of applicable water quality standards or guidance values.

All samples were analyzed for NYCRR Part 360 Baseline Parameters and Site Specific Parameters.

Life Science Laboratories, Inc. performed analyses for the 2006 - 2009 samples. TestAmerica Laboratories, Inc. performed analyses for 2010.

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E Value exceeds the instrument calibration range.

TABLE 3 (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING RESULTS
ANALYTICAL RESULTS

	ARARs [1]	USEPA MCLS [2]	UNITS	WELL 7-OS Sep-06	WELL 7-OS Oct-07	WELL 7-OS Mar-09 [DUP]	WELL 7-OS May-10	WELL 8-OS Sep-06	WELL 8-OS Oct-07	WELL 8-OS Mar-09	WELL 8-OS May-10
Leachate Indicator Parameters:											
Alkalinity	---	---	mg/L	98	110	98	133 D08, B	64	74	66	75.8 B
Chemical Oxygen Demand	---	---	mg/L	24	10 U	6 J	10.0 U	10 U	10 U	55	10.0 U
Total Hardness	---	---	mg/L	230	130	170	154 D08	130	80	140	82.0
Total Kjeldhal Nitrogen	---	---	mg/L	0.4 U	0.36	0.27	0.26	0.4 U	0.31	0.12 J	0.2 U
TAL Metals:											
Aluminum	---	50 to 200 [3]	ug/L	**11,000**	**7,900**	**4,000**	**15,000**	140	89	100 U	200 U
Antimony	3	6	ug/L	3 U	3 U	60 U	3.0 U	3 U	3 U	60 U	3.0 U
Arsenic	25	10	ug/L	4.7 J	5 U	10 U	10.0 U	5 U	5 U	10 U	10.0 U
Barium	1,000	2,000	ug/L	95 J	75 J	49 J	133 B	8.9 J	14 J	13 J	10.7 B
Beryllium	3	4	ug/L	0.73 J	0.51 J	0.24 J	0.7 J	0.16 J	3 U	3 U	2.0 U
Cadmium	5	5	ug/L	1	1 U	5 U	1.0 U	0.92 J	1 U	5 U	1.0 U
Calcium	---	---	ug/L	35,000	39,000	49,000	49,400	17,000	24,000	41,000	25,300
Chromium	50	100	ug/L	**87**	**96**	**61**	**158**	**140**	**85**	**680**	**152**
Cobalt	---	---	ug/L	34	110	7.4 J	15.8	4.2 J	10 U	50 U	4.0 U
Copper	200	1,000 [3]	ug/L	28	18	10	30.9	2 J	10 U	11	1.7 J
Iron	300	300 [3]	ug/L	**17,000**	**13,000**	**5,800**	**19,300** B	**1,200**	**780**	**3,800**	**1,070** B
Lead	25	15 [4]	ug/L	6.3	5 U	10 U	6.0	5 U	5 U	10 U	5.0 U
Magnesium	35,000 GV	---	ug/L	9,800	10,000	12,000	13,500	4,200	5,100	9,100	5,770
Manganese	300	50 [3]	ug/L	**1,300**	**920**	**450**	**1710** B	110	**2,000**	**610**	**399** B
Mercury	0.7	2	ug/L	0.2 U	0.049 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	---	ug/L	26 J	26 J	11 J	28.5	5.8 J	14 J	17 J	10.3
Potassium	---	---	ug/L	5,600	5,700	4,600 J	6,500	1,800 J	2,000 J	1,900 J	1,390
Selenium	10	50	ug/L	5 U	5 U	10 U	15.0 U	5 U	5 U	10 U	15.0 U
Silver	50	100 [3]	ug/L	10 U	10 U	10 U	3.0 U	10 U	10 U	10 U	3.0 U
Sodium	20,000	---	ug/L	7,000	7,700	9,700	11,700	**28,000**	15,000	**41,000**	**30,700**
Thallium	0.5 GV	2	ug/L	**7.6** J	10 U	20 U	0.5 U	**9.8** J	10 U	20 U	0.5 U
Vanadium	---	---	ug/L	21 J	17 J	8.3 J	28.0	50 U	50 U	3 J	5.0 U
Zinc	2,000 GV	5,000 [3]	ug/L	53	24	13 J	36.3	20	5.2 J	5.4 J	1.9 J
VOCs by EPA Method 8260B [5]:											
1,1-Dichloroethane	5	---	ug/L	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U
Vinyl Chloride	2	2	ug/L	1 U	1 U	1 U	1.0 U	1 U	1 U	1 U	1.0 U
Benzene	1	5	ug/L	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U
Chlorobenzene	5	100	ug/L	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U

NOTES:

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TABLE 3 (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING RESULTS
ANALYTICAL RESULTS

	ARARs [1]	USEPA MCLS [2]	UNITS	WELL 8-I Sep-06	WELL 8-I Oct-07	WELL 8-I Mar-09	WELL 8-I May-10	WELL 8-R Sep-06	WELL 8-R Oct-07	WELL 8-R Mar-09	WELL 8-R May-10
Leachate Indicator Parameters:											
Alkalinity	---	---	mg/L	260	230	190	219 D08, B	520	490	480	571 D08, B
Chemical Oxygen Demand	---	---	mg/L	41	53	44	10.0 U	14	11	10	6.7 J
Total Hardness	---	---	mg/L	460	190	170	340	460	570	560	525
Total Kjeldhal Nitrogen	---	---	mg/L	18 E	14	7.8	6.63 D08	1.6	3	1.7	2.99
TAL Metals:											
Aluminum	---	50 to 200 [3]	ug/L	**8,700**	**10,000**	**8,300**	**5970**	**1,200**	66	100 U	200 U
Antimony	3	6	ug/L	3 U	3 U	60 U	3.0 U	3 U	3 U	60 U	3.0 U
Arsenic	25	10	ug/L	**26**	15	12	**10.1**	3.1 J	5 U	10 U	10.0 U
Barium	1,000	2,000	ug/L	110	110	95 J	87.8 B	29 J	19 J	16 J	15.1 B
Beryllium	3	4	ug/L	0.66 J	0.67 J	0.46 J	0.4 J	0.28 J	3 U	3 U	2.0 U
Cadmium	5	5	ug/L	1.5	1 U	5 U	1.0 U	1.2	1 U	5 U	1.0 U
Calcium	---	---	ug/L	55,000	51,000	49,000	83,800	170,000	160,000	160,000	156,000
Chromium	50	100	ug/L	30	41	27	14.0	42	11	11	4.0 U
Cobalt	---	---	ug/L	19	15	9.5 J	8.3	26	9.3 J	6.7 J	9.8
Copper	200	1,000 [3]	ug/L	23	29	27	12.4	84	2.9 J	5 J	10.0 U
Iron	300	300 [3]	ug/L	**43,000**	**39,000**	**33,000**	**27,000** B	**4,700**	**1,300**	**1,300**	**563** B
Lead	25	15 [4]	ug/L	3.5 J	5 U	10 U	5.0 U	4 J	5 U	10 U	5.0 U
Magnesium	35,000 GV	---	ug/L	21,000	18,000	16,000	23,600	**44,000**	**39,000**	**40,000**	**40,700**
Manganese	300	50 [3]	ug/L	**1,900**	**2,200**	**3,100**	**4,590** B	**2,200**	**1,900**	**1,900**	**1,960** B
Mercury	0.7	2	ug/L	0.2 U	0.033 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	---	ug/L	20 J	24 J	18 J	13.7	36 J	15 J	15 J	10.6
Potassium	---	---	ug/L	31,000	23,000	17,000	18,800	5,700	5,600	4,400 J	4,070
Selenium	10	50	ug/L	5 U	5 U	10 U	15.0 U	5 U	5 U	10 U	15.0 U
Silver	50	100 [3]	ug/L	10 U	10 U	10 U	3.0 U	10 U	10 U	10 U	3.0 U
Sodium	20,000	---	ug/L	**73,000**	**55,000**	**50,000**	**75,600**	**46,000**	**48,000**	**42,000**	**41,400**
Thallium	0.5 GV	2	ug/L	**12**	10 U	20 U	0.5 J	**9.4 J**	10 U	20 U	0.5 J
Vanadium	---	---	ug/L	24 J	26 J	20 J	11.8	4.1 J	50 U	50 U	5.0 U
Zinc	2,000 GV	5,000 [3]	ug/L	55	35	32	14.3	31	10 U	20 U	10.0 U
VOCs by EPA Method 8260B [5]:											
1,1-Dichloroethane	5	---	ug/L	0.5 U	0.5 U	0.5 U	1.0 U	0.24	0.14 J	0.11 J	1.0 U
Vinyl Chloride	2	2	ug/L	1 U	1 U	1 U	0.37 J	1 U	1 U	1 U	**2.2**
Benzene	1	5	ug/L	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U
Chlorobenzene	5	100	ug/L	0.67	0.52	0.29 J	1.0 U	0.5 U	0.13 J	0.5 U	1.0 U

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ANALYTICAL RESULTS

	ARARs [1]	USEPA MCLS [2]	UNITS	WELL 9-OS Sep-06	WELL 9-OS Oct-07	WELL 9-OS Mar-09	WELL 9-OS May-10	WELL 9-I Sep-06	WELL 9-I Oct-07	WELL 9-I Mar-09	WELL 9-I May-10
Leachate Indicator Parameters:											
Alkalinity	---	---	mg/L	20	14	12	12.3 B	18	18	18	8.3 J,B
Chemical Oxygen Demand	---	---	mg/L	54	120	120	24.3	54	10 U	37	10.0 U
Total Hardness	---	---	mg/L	60	32	40	30.4	76	32	44	26.2 D08
Total Kjeldhal Nitrogen	---	---	mg/L	0.4 U	3.2	5.4	1.38	0.4 U	0.2 U	0.099 J	0.16 J
TAL Metals:											
Aluminum	---	50 to 200 [3]	ug/L	**1,000**	**4,000**	**3900**	**2,430**	**12,000**	**21,000**	**13,000**	**18,300**
Antimony	3	6	ug/L	3 U	2 J	60 U	3.0 U	3 U	3 U	60 U	3.0 U
Arsenic	25	10	ug/L	5 U	4.2 J	10 U	10.0 U	4.5 J	4.4 J	10 U	10.0 U
Barium	1,000	2,000	ug/L	17 J	33 J	37 J	22.9 B	110	180	120	159 B
Beryllium	3	4	ug/L	0.14 J	0.34 J	0.25 J	2.0 U	0.77 J	1.2 J	0.71 J	0.9 J
Cadmium	5	5	ug/L	0.67 J	1 U	5 U	1.0 U	0.73 J	1 U	5 U	1.0 U
Calcium	---	---	ug/L	7,600	8,100	9700	8,600	8,100	12,000	12,000	10,200
Chromium	50	100	ug/L	**55**	**330**	**300**	**176**	36	**150**	38	**53.9**
Cobalt	---	---	ug/L	2.2 J	10 U	50 U	1.6 J	14	27	11 J	14.3
Copper	200	1,000 [3]	ug/L	3.6 J	14	16	7.2 J	27	44	27	33.0 B
Iron	300	300 [3]	ug/L	**1,600**	**6,300**	**7800**	**4,640** B	**24,000**	**41,000**	**23,000**	**30,300** B
Lead	25	15 [4]	ug/L	1 J	6.1	10 U	5.0 U	3.5 J	4.8 J	10 U	3.6 J
Magnesium	35,000 GV	---	ug/L	2,000	2,500	3300	2,490	5,100	7,900	5,900	6,300
Manganese	300	50 [3]	ug/L	51	140	150	**90.1** B	290	**560**	290	**392** B
Mercury	0.7	2	ug/L	0.2 U	0.049 J	0.2 U	0.2 U	0.2 U	0.078 J	0.2 U	0.2 U
Nickel	100	---	ug/L	6.7 J	34 J	28 J	13.4	18 J	31 J	19 J	23.4
Potassium	---	---	ug/L	5,100	1,700 J	5700	1,800	3,900 J	6,200	3,900 J	5,440
Selenium	10	50	ug/L	5 U	5 U	10 U	15.0 U	5 U	5 U	10 U	15.0 U
Silver	50	100 [3]	ug/L	10 U	10 U	10 U	3.0 U	10 U	10 U	10 U	3.0 U
Sodium	20,000	---	ug/L	5.3	7,200	8300	8,200	9,400	9,800	15,000	14,200
Thallium	0.5 GV	2	ug/L	10 U	10 U	20 U	0.5 U	10 U	10 U	20 U	0.5 U
Vanadium	---	---	ug/L	2.7 J	8.6 J	10 J	5.9	25 J	43 J	24 J	32.6
Zinc	2,000 GV	5,000 [3]	ug/L	36	13	21	11.6	65	56	35	38.6
VOCs by EPA Method 8260B [5]:											
1,1-Dichloroethane	5	---	ug/L	0.5 U	0.5 U	0.50 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U
Vinyl Chloride	2	2	ug/L	1 U	1 U	1.00 U	1.0 U	1 U	1 U	1 U	1.0 U
Benzene	1	5	ug/L	0.5 U	0.5 U	0.50 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U
Chlorobenzene	5	100	ug/L	0.5 U	0.5 U	0.50 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U

NOTES:

Values in **BOLD** indicate an exceedance of applicable water quality standards or guidance values.
All samples were analyzed for NYCRR Part 360 Baseline Parameters and Site Specific Parameters.
Life Science Laboratories, Inc. performed analyses for the 2006 - 2009 samples. TestAmerica Laboratories, Inc. performed analyses for 2010.

[1] Applicable or Relevant and Appropriate Requirements (ARARs): NYSDEC Water Quality Standards and Guidance Values, T.O.G.S. 1.1.1 (June 1998).
[2] USEPA Maximum Contaminant Levels (MCLS) added for comparison starting May 2010.
[3] USEPA National Secondary Drinking Water Standard.
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[5] VOCs analyzed by US EPA Methods 601/602 for May 2010 event.
[6] Duplicate sample obtained at well MW 2-OS.
[7] The parameters alkalinity, chemical oxygen demand, and total kjeldhal nitrogen were not analyzed due to insufficient water in monitoring well 3OS/I.
[8] SVWC-94 Out of Service during March 2009 and May 2010 Sampling Events.
NA Not Analyzed.
ND Not Detected.
TAL Total Analyte List.

Laboratory Qualifier Definitions:

TestAmerica Laboratories

B Analyte was detected in the associated Method Blank.
D02 Dilution required due to sample matrix effects.
D08 Dilution required due to high concentration of target analyte(s).
D14 Dilution required due to high concentration of dissolved solids known to cause failure of routine quality control. Analytical method recommends a five-fold dilution for samples that contain greater than 2000 mg/L of total solids.
J Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limits (MDL). Concentrations within this range are estimated.
U The compound was analyzed for but not detected at the detection limit listed.

Life Science Laboratories, Inc.

J Analyte detected below Practical Quantitation Limit (PQL).
U The compound was analyzed for but not detected at the detection limit listed.
E Value exceeds the instrument calibration range.

TABLE 3 (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING RESULTS
ANALYTICAL RESULTS

	ARARs [1]	USEPA MCLS [2]	UNITS	WELL 9-R Sep-06 [DUP]	Oct-07 [DUP]	Mar-09	May-10
Leachate Indicator Parameters:							
Alkalinity	---	---	mg/L	110	130	150	159 D08, B
Chemical Oxygen Demand	---	---	mg/L	10 U	10 U	10 U	7.0 J
Total Hardness	---	---	mg/L	120	120	160	350
Total Kjeldhal Nitrogen	---	---	mg/L	4.9	5.9	5.6	6.23 D08
TAL Metals:							
Aluminum	---	50 to 200 [3]	ug/L	73	140	100 U	**495**
Antimony	3	6	ug/L	3 U	3 U	60 U	3.0 U
Arsenic	25	10	ug/L	5.9	6.1	5.7 J	8.4 J
Barium	1,000	2,000	ug/L	21 J	24 J	28 J	37.4 B
Beryllium	3	4	ug/L	1 U	0.1 J	3 U	2.0 U
Cadmium	5	5	ug/L	0.53 J	1 U	5 U	1.0 U
Calcium	---	---	ug/L	27,000	31,000	38000	47,300
Chromium	50	100	ug/L	4.1 J	4.3 J	10 U	2.5 J
Cobalt	---	---	ug/L	3.7 J	10 U	50 U	3.7 J
Copper	200	1,000 [3]	ug/L	10 U	10 U	10 U	10.0 U
Iron	300	300 [3]	ug/L	**7,000**	**8,500**	**9400**	**12,500** B
Lead	25	15 [4]	ug/L	5 U	5 U	10 U	5.0 U
Magnesium	35,000 GV	---	ug/L	8,300	9,300	11000	13,700
Manganese	300	50 [3]	ug/L	**2,800**	**2,900**	**3700**	**4,030** B
Mercury	0.7	2	ug/L	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	---	ug/L	1.8 J	3.2 J	2.5 J	3.4 J
Potassium	---	---	ug/L	11,000	11,000	12000	13,100
Selenium	10	50	ug/L	5 U	5 U	10 U	15.0 U
Silver	50	100 [3]	ug/L	10 U	10 U	10 U	3.0 U
Sodium	20,000	---	ug/L	**28,000**	**35,000**	**44,000**	**59,300**
Thallium	0.5 GV	2	ug/L	10 U	10 U	20 U	0.5 U
Vanadium	---	---	ug/L	50 U	50 U	50 U	1.4 J
Zinc	2,000 GV	5,000 [3]	ug/L	28	10 U	8.1 J	10.0 U
VOCs by EPA Method 8260B [5]:							
1,1-Dichloroethane	5	---	ug/L	0.5 U	0.5 U	0.5 U	1.0 U
Vinyl Chloride	2	2	ug/L	1 U	1 U	1.00 U	0.19 J
Benzene	1	5	ug/L	0.5 U	0.5 U	0.50 U	1.0 U
Chlorobenzene	5	100	ug/L	0.24	0.5 U	0.22 J	1.0 U

NOTES:

Values in **BOLD** indicate an exceedance of applicable water quality standards or guidance values.
All samples were analyzed for NYCRR Part 360 Baseline Parameters and Site Specific Parameters.
Life Science Laboratories, Inc. performed analyses for the 2006 - 2009 samples. TestAmerica Laboratories, Inc. performed analyses for 2010.

[1] Applicable or Relevant and Appropriate Requirements (ARARs): NYSDEC Water Quality Standards and Guidance Values, T.O.G.S. 1.1.1 (June 1998).
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[5] VOCs analyzed by US EPA Methods 601/602 for May 2010 event.
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TAL Total Analyte List.

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Life Science Laboratories, Inc.

J Analyte detected below Practical Quantitation Limit (PQL).
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E Value exceeds the instrument calibration range.

TABLE 3 (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING RESULTS
ANALYTICAL RESULTS

	ARARs [1]	USEPA MCLS [2]	UNITS	WELL PW-1 Sep-06	Oct-07	Mar-09	May-10	WELL PW-2 Sep-06	Oct-07	Mar-09	May-10
Leachate Indicator Parameters:											
Alkalinity	---	---	mg/L	24	20	18	22.0 B	58	50	46	64.8 B
Chemical Oxygen Demand	---	---	mg/L	10 U	55	10 U	10.0 U	10 U	10 U	10 U	10.0 U
Total Hardness	---	---	mg/L	48	32	40	49.6	92	64	60	76.4
Total Kjeldhal Nitrogen	---	---	mg/L	0.49 U	0.2 U	0.2 U	0.15 J	0.4 U	0.2 U	0.2 U	0.26
TAL Metals:											
Aluminum	---	50 to 200 [3]	ug/L	76	50 U	100 U	200 U	67	50 U	100 U	200 U
Antimony	3	6	ug/L	3 U	3 U	60 U	3.0 U	3 U	3 U	60 U	3.0 U
Arsenic	25	10	ug/L	5 U	5 U	100 U	10.0 U	5 U	5 U	10 U	10.0 U
Barium	1,000	2,000	ug/L	7.2 J	5.5 J	5.9 J	10.2 B	2.6 J	2.4 J	2.6 J	2.6 B
Beryllium	3	4	ug/L	3 U	3 U	3 U	2.0 U	0.12 J	3 U	3 U	2.0 U
Cadmium	5	5	ug/L	0.53 J	1 U	5 U	1.0 U	0.62 J	1 U	5 U	1.0 U
Calcium	---	---	ug/L	10,000	8,200	10,000	15,500	28,000	21,000	25,000	29,400
Chromium	50	100	ug/L	2.7 J	10 U	10 U	4.0 U	2.8 J	10 U	10 U	4.0 U
Cobalt	---	---	ug/L	2.1 J	10 U	50 U	4.0 U	2.4 J	10 U	50 U	4.0 U
Copper	200	1,000 [3]	ug/L	69	60	100	117	50	200	61	53.4
Iron	300	300 [3]	ug/L	15 J	17 J	12 J	23 J, B	34 J	130	140	71 B
Lead	25	15 [4]	ug/L	5 U	5 U	10 U	5.0 U	2.1 J	5 U	10 U	5.0 U
Magnesium	35,000 GV	---	ug/L	2,700	2,300	2,800	4,160	3,200	2,400	2,900	3,430
Manganese	300	50 [3]	ug/L	0.75 J	50 U	50 U	1.2 J, B	1.4 J	5.6 J	1.8 J	3.1 B
Mercury	0.7	2	ug/L	0.2 U	0.047 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	100	---	ug/L	50	50 U	50 U	10.0 U	50 U	7 J	50 U	10.0 U
Potassium	---	---	ug/L	1,200 J	910 J	880 J	1,120	1,100 J	880 J	960 J	1,060
Selenium	10	50	ug/L	3 J	5 U	10 U	15.0 U	5 U	5 U	10 U	15.0 U
Silver	50	100 [3]	ug/L	10 U	10 U	10 U	3.0 U	10 U	10 U	10 U	3.0 U
Sodium	20,000	---	ug/L	14,000	12,000	12,000	18,600	7,400	6,100	7,400	8,600
Thallium	0.5 GV	2	ug/L	10 U	10 U	20 U	0.5 U	**8.8** J	10 U	20 U	0.5 U
Vanadium	---	---	ug/L	50 U	50 U	50 U	5.0 U	50 U	50 U	50 U	5.0 U
Zinc	2,000 GV	5,000 [3]	ug/L	46	24	22	35.6	41	140	47	78.2
VOCs by EPA Method 8260B [5]:											
1,1-Dichloroethane	5	---	ug/L	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U
Vinyl Chloride	2	2	ug/L	1 U	1 U	1 U	1.0 U	1 U	1 U	1 U	1.0 U
Benzene	1	5	ug/L	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U
Chlorobenzene	5	100	ug/L	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U

NOTES:

Values in **BOLD** indicate an exceedance of applicable water quality standards or guidance values.
All samples were analyzed for NYCRR Part 360 Baseline Parameters and Site Specific Parameters.
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[1] Applicable or Relevant and Appropriate Requirements (ARARs): NYSDEC Water Quality Standards and Guidance Values, T.O.G.S. 1.1.1 (June 1998).
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[3] USEPA National Secondary Drinking Water Standard.
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[5] VOCs analyzed by US EPA Methods 601/602 for May 2010 event.
[6] Duplicate sample obtained at well MW 2-OS.
[7] The parameters alkalinity, chemical oxygen demand, and total kjeldhal nitrogen were not analyzed due to insufficient water in monitoring well 3OS/I.
[8] SVWC-94 Out of Service during March 2009 and May 2010 Sampling Events.
NA Not Analyzed.
ND Not Detected.
TAL Total Analyte List.

Laboratory Qualifier Definitions:

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E Value exceeds the instrument calibration range.

TABLE 3 (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING RESULTS
ANALYTICAL RESULTS

	ARARs [1]	USEPA MCLS [2]	SVWC-93 Sep-06	SVWC-93 Oct-07	SVWC-93 Mar-09	SVWC-93 May-10	SVWC-94 Sep-06	SVWC-94 Oct-07	SVWC-94 Mar-09 [6]	SVWC-94 May-10 [6]
Leachate Indicator Parameters:										
Alkalinity	---	---	46	58	40	42.1 B	44	52		
Chemical Oxygen Demand	---	---	10 U	10 U	10 U	10.0 U	10 U	10 U		
Total Hardness	---	---	76	88	76	57.5	72	92	N	N
Total Kjeldhal Nitrogen	---	---	0.4 U	0.2 U	0.2 U	0.20 U	0.4 U	0.2 U		
TAL Metals:									O	O
Aluminum	---	50 to 200 [3]	63	50 U	100 U	200 U	56	50 U		
Antimony	3	6	3 U	3 U	60 U	3.0 J	3 U	3 U	T	T
Arsenic	25	10	1.2 J	5 U	10 U	10.0 U	5 U	5 U		
Barium	1,000	2,000	9.6 J	11 J	8.8 J	7.4 B	13 J	14 J		
Beryllium	3	4	0.14 J	3 U	3 U	2.0 U	3 U	3 U		
Cadmium	5	5	0.59 J	1 U	5 U	1.0 U	1 U	1 U	S	S
Calcium	---	---	21,000	25,000	23,000	17,500	21,000	23,000		
Chromium	50	100	3.2 J	10 U	10 U	4.0 U	2 J	10 U	A	A
Cobalt	---	---	2.2 J	10 U	50 U	4.0 U	10 U	10 U		
Copper	200	1,000 [3]	7.6 J	8 J	3.9 J	19.3	7 J	12	M	M
Iron	300	300 [3]	21 J	46 J	29 J	50 U	50 U	12 J		
Lead	25	15 [4]	5 U	5 U	10 U	5.0 U	5 U	5 U	P	P
Magnesium	35,000 GV	---	5,200	6,100	5,900	4,560	5,300	5,900		
Manganese	300	50 [3]	0.62 J	50 U	50 U	0.3 J, B	3.2 J	3.8 J	L	L
Mercury	0.7	2	0.2 U	0.027 J	0.2 U	0.2 U	0.2 U	0.2 U		
Nickel	100	---	50 U	5.5 J	50 U	10.0 U	50 U	50 U	E	E
Potassium	---	---	2,000 J	2,000 J	1,500 J	1,330	1,700 J	1,600 J		
Selenium	10	50	5 U	5 U	10 U	15.0 U	5 U	5 U	D	D
Silver	50	100 [3]	10 U	10 U	10 U	3.0 U	10 U	10 U		
Sodium	20,000	---	**52,000**	**60,000**	**52,000**	**41,600**	**47,000**	**52,000**		
Thallium	0.5 GV	2	**7.6** J	10 U	20 U	0.5 U	10 U	10 U		
Vanadium	---	---	50 U	50 U	50 U	5.0 U	50 U	50 U		
Zinc	2,000 GV	5,000 [3]	36	13	12 J	5.7 J	36	10		
VOCs by EPA Method 8260B [5]:										
1,1-Dichloroethane	5	---	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U		
Vinyl Chloride	2	2	1 U	1 U	1 U	1.0 U	1 U	1 U		
Benzene	1	5	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U		
Chlorobenzene	5	100	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U		

NOTES:

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All samples were analyzed for NYCRR Part 360 Baseline Parameters and Site Specific Parameters.
Life Science Laboratories, Inc. performed analyses for the 2006 - 2009 samples. TestAmerica Laboratories, Inc. performed analyses for 2010.

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TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING RESULTS
ANALYTICAL RESULTS

	ARARs [1]	USEPA MCLS [2]	SVWC-95 Sep-06	SVWC-95 Oct-07	SVWC-95 Mar-09	SVWC-95 May-10	SVWC-96 Sep-06	SVWC-96 Oct-07	SVWC-96 Mar-09	SVWC-96 May-10
Leachate Indicator Parameters:										
Alkalinity	---	---	54	62	40	56.1 B	44	50	40	45.1 B
Chemical Oxygen Demand	---	---	0.1 U	10 U	10 U	10.0 U	0.1 U	10 U	10 U	10.0 U
Total Hardness	---	---	84	100	88	65.5	76	80	88	66.4
Total Kjeldhal Nitrogen	---	---	0.4 U	0.2 U	0.2 U	0.20 U	0.4 U	0.2 U	0.1 J	0.26
TAL Metals:										
Aluminum	---	50 to 200 [3]	37	50 U	100 U	105 J	14 J	50 U	100 U	200 U
Antimony	3	6	3 U	3 U	60 U	3.0 U	3 U	3 U	60 U	3.0 U
Arsenic	25	10	2 J	5 U	10 U	10.0 U	1.3 J	5 U	10 U	10.0 U
Barium	1,000	2,000	10 J	16 J	13 J	11.4 B	7.2 J	9.4 J	8.6 J	8.8 B
Beryllium	3	4	3 U	3 U	3 U	2.0 U	3 U	3 U	3 U	2.0 U
Cadmium	5	5	1 U	1 U	5 U	1.0 U	1 U	1 U	5 U	1.0 U
Calcium	---	---	20,000	25,000	24,000	20,300	18,000	22,000	23,000	19,700
Chromium	50	100	10 U	10 U	10 U	4.0 U	10 U	10 U	10 U	4.0 U
Cobalt	---	---	10 U	10 U	50 U	4.0 U	10 U	10 U	50 U	4.0 U
Copper	200	1,000 [3]	6.1 J	4.4 J	5.4 J	11.2	6.8 J	4.3 J	6.3 J	8.5 J
Iron	300	300 [3]	260	76	33 J	30 J,B	50 U	50 U	16 J	**598** B
Lead	25	15 [4]	5 U	5 U	10 U	5.0 U	5 U	5 U	10 U	5.0 U
Magnesium	35,000 GV	---	5,100	6,500	6,700	5,530	4,900	5,800	6,300	5,240
Manganese	300	50 [3]	25 J	96	140	110 B	50 U	50 U	50 U	22.0 B
Mercury	0.7	2	0.2 U	0.057 J	0.2 U	0.2 U	0.2 U	0.036 J	0.2 U	0.2 U
Nickel	100	---	1.4 J	1.2 J	50 U	10.0 U	50 U	50 U	50 U	7.5 J
Potassium	---	---	1,700 J	2,200 J	1,600 J	1,570	1,300 J	1,600 J	1,300 J	1,340
Selenium	10	50	5 U	5 U	10 U	15.0 U	5 U	5 U	10 U	15.0 U
Silver	50	100 [3]	1.5 J	10 U	10 U	3.0 U	10 U	10 U	10 U	3.0 U
Sodium	20,000	---	**36,000**	**53,000**	**49,000**	**47,200**	**47,000**	**56,000**	**54,000**	**48,600**
Thallium	0.5 GV	2	10 U	10 U	10 U	0.5 U	10 U	10 U	20 U	0.5 U
Vanadium	---	---	50 U	50 U	2 U	5.0 U	50 U	50 U	50 U	5.0 U
Zinc	2,000 GV	5,000 [3]	25	8.2 J	11 J	3.4 J	24	8.8 J	14 J	17.0
VOCs by EPA Method 8260B [5]:										
1,1-Dichloroethane	5	---	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U
Vinyl Chloride	2	2	1 U	1 U	1 U	0.13 J	1 U	1 U	1 U	1.0 U
Benzene	1	5	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U
Chlorobenzene	5	100	0.5 U	0.5 U	0.5 U	1.0 U	0.5 U	0.5 U	0.5 U	1.0 U

NOTES:

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[8] SVWC-94 Out of Service during March 2009 and May 2010 Sampling Events.
NA Not Analyzed.
ND Not Detected.
TAL Total Analyte List.

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D14 Dilution required due to high concentration of dissolved solids known to cause failure of routine quality control. Analytical method recommends a five-fold dilution for samples that contain greater than 2000 mg/L of total solids.
J Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limits (MDL). Concentrations within this range are estimated.
U The compound was analyzed for but not detected at the detection limit listed.

Life Science Laboratories, Inc.

J Analyte detected below Practical Quantitation Limit (PQL).
U The compound was analyzed for but not detected at the detection limit listed.
E Value exceeds the instrument calibration range.

TABLE 3A

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER MONITORING DATA
COMPOUND: Benzene

Sample ID	Sample Date															
	Jan-90	Sep-90	Jan-93	Apr-93	Sep-93	Dec-93	Mar-94	Jun-94	Sep-94	Dec-94	Mar-95	Jun-95	Sep-95	Dec-95	Mar-96	Jun-96
1-OS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
2-OS	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
3-OS/I	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
4-OS	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA
5-OS	**2.0**	ND	ND	ND	NA	NA	NA	ND	NA	NA	NA	ND	NA	NA	ND	NA
5-I	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	ND	NA	NA
7-OS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA
8-OS	**2.0**	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8-I	**2.0**	**2.9**	NA	ND	ND	ND	ND	ND	ND	**2.0**	ND	ND	ND	**1.2**	1.0	**2.0**
8-R	**3.0**	0.4	ND	0.9	ND	ND	ND	ND	ND	ND	**2.0**	0.9	ND	0.65	ND	ND
9-OS	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
9-I	NA	0.2	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-R	NA	0.9	ND	ND	ND	NA	ND	ND	ND	1.0	ND	ND	ND	ND	ND	ND
PW-1	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PW-2	NA	NA	ND	ND	ND	NA	NA	NA	ND	ND	NA	0.5	ND	ND	ND	ND
SVWC-93	NA	NA	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVWC-94	NA	NA	ND	ND	NA	NA	ND	ND	ND	1.0	ND	ND	ND	ND	ND	ND
SVWC-95	NA	NA	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVWC-96	NA	NA	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

Values in **BOLD** indicate an exceedance of groundwater quality standard for Benzene, 1.0 µg/L.

Concentrations reported in µg/L (ppb).
ND = Not Detected
NA = Not Analyzed

TABLE 3A (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER MONITORING DATA
COMPOUND: Benzene

Sample ID	Sample Date															
	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Mar-99	Jun-99	Sep-99	May-00	Sep-00	Dec-00	Mar-01
1-OS	ND	NA	ND	NA	ND	NA	ND	NA	ND	ND	NA	ND	ND	NA	ND	ND
2-OS	NA	NA	ND	NA	ND	NA	ND	NA	ND	ND	NA	ND	ND	NA	ND	ND
3-OS/I	ND	NA	ND	NA	ND	NA	ND	NA	ND	ND	NA	ND	ND	NA	ND	ND
4-OS	ND	NA	ND	NA	ND	NA	ND	NA	ND	ND	NA	ND	ND	NA	ND	ND
5-OS	NA	NA	ND	NA	NA	NA	NA	NA	NA	ND	NA	ND	ND	NA	ND	ND
5-I	ND	NA	NA	NA	ND	NA	ND	NA	ND	NA	NA	ND	NA	NA	NA	NA
7-OS	ND	NA	ND	NA	ND	NA	ND	NA	ND	ND	NA	ND	ND	NA	ND	ND
8-OS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8-I	**2.0**	**3.0**	ND	ND	**2.0**	ND	ND	ND	ND	NA	ND	ND	0.5 J	ND	ND	ND
8-R	ND	ND	ND	ND	ND	**2.0**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-OS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-I	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PW-1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PW-2	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVWC-93	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND
SVWC-94	ND	ND	ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND
SVWC-95	ND	ND	ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND
SVWC-96	ND	NA	NA	ND	ND	ND	ND	NA	ND	NA	ND	NA	ND	ND	ND	ND

NOTES:

Values in **BOLD** indicate an exceedance of groundwater quality standard for Benzene, 1.0 µg/L.

Concentrations reported in µg/L (ppb).

ND = Not Detected

NA = Not Analyzed

TABLE 3A (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING
COMPOUND: BENZENE

Sample ID	Sample Date													
	Oct-03		Mar-04		Jun-05		Sep-06		Oct-07		Mar-09		May-10	
1-OS/I	NA		NA		1.0	U	0.5	U	0.5	U	0.5	U	1.0	U
2-OS	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U	1.0	U
3-OS/I	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U	1.0	U
4-OS	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U	1.0	U
5-OS	NA		1.0	U	NA		0.5	U	0.5	U	0.5	U	1.0	U
5-I	1.0	U	NA		1.0	U	NA		NA		NA		NA	
7-OS	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U	1.0	U
8-OS	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U	1.0	U
8-I	1.0	U	0.6	J	1.0	U	0.5	U	0.5	U	0.5	U	1.0	U
8-R	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U	1.0	U
9-OS	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U	1.0	U
9-I	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U	1.0	U
9-R	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U	1.0	U
PW-1	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U	1.0	U
PW-2	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U	1.0	U
SVWC-93	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U	1.0	U
SVWC-94	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	NA		NA	
SVWC-95	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U	1.0	U
SVWC-96	1.0	U	1.0	U	1.0	U	0.5	U	0.5	U	0.5	U	1.0	U

NOTES:

Values in **BOLD** indicate an exceedance of groundwater quality standard for Benzene, 1.0 µg/L.
Concentrations reported in ug/L (ppb).
NA = Not Analyzed

Test America, Inc. performed analyses for the 2010 event. Life Science Laboratories, Inc., 2006-2009 events. STL Newburgh, 2003 - 2005 events.

Life Science Laboratories
U = Analyte not detected at listed detection limit.

STL Newburgh
J = Indicates an estimated value for Tentatively Identified Compounds.

Test America
U = The compound was analyzed for but not detected at the detection limit listed.

TABLE 3B

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER MONITORING DATA
COMPOUND: Chromium

Sample ID	Sample Date															
	Jan-90	Sep-90	Jan-93	Apr-93	Sep-93	Dec-93	Mar-94	Jun-94	Sep-94	Dec-94	Mar-95	Jun-95	Sep-95	Dec-95	Mar-96	Jun-96
1-OS	**153**	**57.3**	8	ND	**60**	**257**	**65.5**	7.2	**284**	**134**	**727**	17	**102**	**70.5**	**127**	NA
2-OS	**180**	**141**	NA	ND	**50.2**	**95.9**	11.8	**89.3**	45.9	25.1	39.7	34.1	**137**	**50.3**	**83.6**	NA
3-OS/I	**587**	**1,290**	**807**	40.4	**1,350**	**1,100**	**784**	**304**	**561**	**1,020**	**144**	**406**	**589**	**253**	**372**	NA
4-OS	**139**	40.1	5.8	ND	10.8	11.2	15.1	25.4	23.1	**53.1**	21.1	ND	38.8	12.2	11	NA
5-OS	**90**	35.6	48.8	ND	NA	NA	NA	NA	NA	NA	NA	39	NA	NA	**216**	NA
5-I	NA	NA	NA	NA	NA	**80**	30.2	7.2	40	**63.1**	**109**	NA	17.4	22.4	NA	NA
7-OS	33.5	40.1	24.2	13	**1,890**	**218**	31	**210**	**571**	**258**	**324**	NA	NA	37	**125**	NA
8-OS	34.8	16.7	ND	ND	ND	7.6	**86.6**	28.7	13.2	4.2	**129**	40.4	13.9	7.2	**62.2**	35.8
8-I	**215**	32.5	NA	ND	ND	ND	29	17	12.8	8.4	8	3.4	24.1	29.2	12.3	26.2
8-R	20	23.1	9.9	ND	17.7	18.2	7.5	17	10.4	6.8	6.3	10.1	13.4	8.5	6.7	23.8
9-OS	NA	6.8	ND	ND	ND	ND	22.9	27.1	14.8	2.9	6.6	7.6	NA	NA	9.8	11.2
9-I	NA	8.1	NA	NA	NA	NA	28	ND	2.4	5.8	3.9	8	34.6	25.3	8.1	11.4
9-R	NA	8.8	3.9	16.4	16.7	11.6	35.4	48.2	29.9	10.5	16.9	26.5	**66.7**	45.4	43.8	12.8
PW-1	NA	ND	ND	ND	ND	ND	ND	ND	0.6	ND	0.8	ND	ND	ND	ND	ND
PW-2	NA	ND	ND	ND	ND	4.9	NA	ND	ND	ND	NA	ND	ND	ND	ND	0.94
SVWC-93	NA	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
SVWC-94	NA	NA	ND	ND	NA	NA	ND	ND	ND	0.97	ND	ND	NA	ND	ND	ND
SVWC-95	NA	NA	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
SVWC-96	NA	NA	ND	ND	NA	ND	ND	ND	ND	0.87	ND	1.7	NA	ND	ND	ND

NOTES:

Values in **BOLD** indicate an exceedance of groundwater quality standard for Chromium, 50 µg/L.

Concentrations reported in µg/L (ppb).
ND = Not Detected
NA = Not Analyzed

TABLE 3B (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER MONITORING DATA
COMPOUND: Chromium

Sample ID	Sample Date															
	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Mar-99	Jun-99	Sep-99	May-00	Sep-00	Dec-00	Mar-01
1-OS	**102**	NA	**88**	NA	**220**	NA	**1,180**	NA	**52.1**	**496**	NA	**1,850**	**2,100**	NA	**405**	**253**
2-OS	NA	NA	ND	NA	ND	NA	**241**	NA	**121**	13.6	NA	**285**	**415**	NA	**120**	**128**
3-OS/I	29.7	NA	25	NA	**190**	NA	**433**	NA	**804**	**270**	NA	**321**	**687**	NA	**453**	**522**
4-OS	6.2	NA	ND	NA	ND	NA	34.7	NA	8.6	2.2	NA	**87.7**	36.8	NA	17.9	13.2
5-OS	NA	NA	19	NA	NA	NA	NA	NA	NA	15.3	NA	NA	**69.3**	NA	**165**	38.6
5-I	8	NA	NA	NA	ND	NA	2.3	NA	9.6	NA	NA	10.6	NA	NA	NA	NA
7-OS	4.4	NA	41	NA	**60**	NA	**188**	NA	**96.2**	48.1	NA	**59.2**	**200**	NA	34.7	**51.9**
8-OS	15.9	20	ND	ND	ND	ND	4	9.6	4.5	**79.4**	20.2	31	30.1	16.9	8.8	25.8
8-I	17.4	110	17	10	ND	20	4.6	4.8	**55.6**	NA	**56.8**	ND	10	17.3	22.9	49.9
8-R	20.4	ND	ND	20	20	ND	ND	5.2	6.3	3.4	2	ND	1.1	2.2	3.6	7.7
9-OS	5.2	ND	ND	10	ND	ND	ND	2.3	0.64	9.8	1.1	ND	34.5	7.4	20.1	17
9-I	4.8	ND	ND	ND	ND	ND	1.7	8	2.8	1.7	6.8	ND	10.8	5.0	4.1	28.8
9-R	23.8	**90**	ND	20	ND	ND	15.2	1.9	23.4	8.5	15	47.3	3	1.6	2.4	4.1
PW-1	0.43	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.75	ND	ND	ND
PW-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.69	ND	ND	ND	ND	ND	ND
SVWC-93	0.89	ND	ND	ND	ND	ND	ND	ND	0.78	NA	ND	NA	ND	ND	1.4	ND
SVWC-94	ND	ND	ND	ND	ND	NA	ND	ND	ND	NA	ND	NA	0.53	ND	ND	ND
SVWC-95	ND	ND	ND	ND	ND	NA	ND	ND	0.96	NA	ND	NA	ND	ND	ND	ND
SVWC-96	1.3	NA	NA	ND	ND	ND	ND	NA	ND	NA	ND	NA	ND	ND	ND	ND

NOTES:

Values in **BOLD** indicate an exceedance of groundwater quality standard for Chromium, 50 µg/L.

Concentrations reported in µg/L (ppb).
ND = Not Detected
NA = Not Analyzed

TABLE 3B (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING
COMPOUND: Chromium

Sample ID	Sample Date													
	Oct-03		Mar-04		Jun-05		Sep-06		Oct-07		Mar-09		May-10	
1-OS/I	NA		NA		31.4		**2,400**		**530**		**140**		**1,990**	
2-OS	**52.9**		**87.1**		**101**		**120**		**250**		**480**		**722**	
3-OS/I	**2,810**		**816**		**2,020**		**7,200**		**3,400**		**3,900**		**2,570**	
4-OS	5		9.4	B	**56.7**		**1,300**		**270**		**230**		**522**	
5-OS	NA		**237**		NA		**690**		32		**170**		**278**	
5-I	29.8		NA		5.6	B	NA		NA		NA		NA	
7-OS	2.4		**133**		5.7	B	**87**		**96**		**61**		**158**	
8-OS	2.2		10.3		29.6		**140**		**85**		**680**		**152**	
8-I	1.4		19.4		3.3	B	30		41		27		14	
8-R	10	U	2	B	2.5	B	42		11		11		4	U
9-OS	5		10.4		2.4	B	**55**		**330**		**300**		**176**	
9-I	2		2.8	B	1.4	B	36		**150**		38		**53.9**	
9-R	1.1		2.6	B	1.9	B	4.1	J	4.3	J	10	U	2.5	J
PW-1	0.73		1.3	B	10	U	2.7	J	10	U	10	U	4	U
PW-2	1.9		1.5	B	10	U	2.8	J	10	U	10	U	4	U
SVWC-93	1.3		1.4	B	10	U	3.2	J	10	U	10	U	4	U
SVWC-94	0.75		1.9	B	0.93	B	2	J	10	U	NA		NA	
SVWC-95	10	U	1.5	B	10	U	10	U	10	U	10	U	4	U
SVWC-96	10	U	1.2	B	0.94	B	10	U	10	U	10	U	4	U

NOTES:

Values in **BOLD** indicate an exceedance of groundwater quality standard for Chromium, 50 µg/L.

Concentrations reported in ug/L (ppb).
NA = Not Analyzed

Test America, Inc. performed analyses for the 2010 event. Life Science Laboratories, Inc., 2006-2009 events. STL Newburgh, 2003 - 2005 events.

Life Science Laboratories
J = Analyte detected below the Practical Quantitation Limit (PQL).
U = Analyte not detected at listed detection limit.

STL Newburgh
B = The reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit.

Test America
U = The compound was analyzed for but not detected at the detection limit listed.
J = Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.

TABLE 3C

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER MONITORING DATA
COMPOUND: Iron

Sample ID	Sample Date															
	Jan-90	Sep-90	Jan-93	Apr-93	Sep-93	Dec-93	Mar-94	Jun-94	Sep-94	Dec-94	Mar-95	Jun-95	Sep-95	Dec-95	Mar-96	Jun-96
1-OS	**45,000**	**17,500**	**1,870**	**884**	**32,300**	**162,000**	**12,200**	69.6	**4,950**	**47,700**	**5,970**	**2,820**	**27,900**	**23,400**	**21,700**	NA
2-OS	**912**	**41,800**	NA	186	**11,800**	**9,800**	**946**	**5,080**	**14,700**	**4,120**	**1,310**	**1,730**	**24,300**	**5,660**	**1,770**	NA
3-OS/I	**6,830**	**9,750**	**5,110**	**333**	**21,300**	**37,900**	**19,400**	**29,900**	**14,400**	**37,500**	**54,600**	**16,600**	**31,400**	**3,710**	**7,750**	NA
4-OS	**15,600**	**12,400**	**529**	**520**	**5,560**	**10,600**	**5,720**	**17,600**	**16,900**	**15,200**	**6,110**	**3,010**	**28,600**	**7,460**	**7,470**	NA
5-OS	**27,000**	**11,200**	**11,100**	**4,700**	NA	NA	NA	NA	NA	NA	NA	**17,100**	NA	NA	**60,000**	NA
5-I	NA	NA	NA	NA	NA	**2,030**	**2,080**	**2,380**	**8,990**	**30,700**	**56,200**	NA	**2,200**	**1,870**	NA	NA
7-OS	**981**	**24,500**	**1,250**	**521**	**619,000**	**2,200**	**2,340**	**15,600**	**14,500**	**14,400**	**12,200**	NA	NA	**1,870**	**11,400**	NA
8-OS	**229,000**	**43,800**	**3,230**	**2,080**	**6,180**	**12,000**	**20,300**	**6,240**	**7,490**	**6,740**	**13,500**	**5,760**	**46,900**	0.116	**4,870**	**4,370**
8-I	**15,700**	**30,500**	NA	ND	ND	ND	**22,300**	**41,200**	**24,200**	**18,200**	**24,300**	**21,100**	**32,300**	**28,500**	**27,300**	**38,700**
8-R	**1,360**	**2,940**	**11,600**	**2,590**	**9,160**	**4,710**	**2,510**	**11,100**	**22,000**	**10,200**	**24,900**	**25,700**	**26,600**	**124,000**	**18,400**	**14,300**
9-OS	NA	249	50.7	**1,200**	**383**	**393**	**2,210**	**1,040**	**1,020**	**1,490**	**1,340**	294	NA	NA	**2,330**	**1,350**
9-I	NA	145	NA	NA	NA	NA	**2,040**	62.3	84	260	**788**	**468**	**4,530**	**762**	232	**443**
9-R	NA	**20,200**	**2,680**	**8,250**	**11,500**	**10,800**	**8,850**	**19,400**	**9,110**	**2,700**	**1,080**	**2,230**	**4,080**	**1,370**	**2,060**	**2,270**
PW-1	NA	64	186	130	**1,260**	**916**	85.3	11.2	**561**	39.7	283	**400**	238	252	53.9	38.1
PW-2	NA	11	41.8	49.5	ND	22.7	NA	ND	53.5	13.6	NA	253	276	225	ND	ND
SVWC-93	NA	NA	32.6	10.6	NA	**553**	179	ND	17.2	20.7	19	154	NA	**585**	ND	ND
SVWC-94	NA	NA	40.3	19.1	NA	NA	49.4	ND	6.1	13.8	ND	143	NA	124	ND	ND
SVWC-95	NA	NA	51.7	74.4	ND	NA	45.5	ND	274	40.3	279	161	NA	148	ND	ND
SVWC-96	NA	NA	22.3	17.3	NA	22.6	14.9	ND	61.5	66.8	ND	173	NA	136	ND	ND

NOTES:

Values in **BOLD** indicate an exceedance of groundwater quality standard for Iron, 300 µg/L.

Concentrations reported in µg/L (ppb).
ND = Not Detected
NA = Not Analyzed

TABLE 3C (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER MONITORING DATA
COMPOUND: Iron

Sample ID	Sample Date															
	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Mar-99	Jun-99	Sep-99	May-00	Sep-00	Dec-00	Mar-01
1-OS	**48,000**	NA	**19,000**	NA	**49,000**	NA	**62,100**	NA	**3,150**	**74,400**	NA	**76,200**	**40,500**	NA	**43,800**	**54,100**
2-OS	NA	NA	140	NA	**900**	NA	**15,100**	NA	**24,900**	**536**	NA	**6,910**	**32,900**	NA	**32,800**	**37,700**
3-OS/I	**303**	NA	**1,500**	NA	**5,400**	NA	**29,800**	NA	**23,600**	**1,620**	NA	**1,990**	**3,310**	NA	**3,620**	**5,810**
4-OS	**1,300**	NA	**2,700**	NA	**600**	NA	**8,490**	NA	**6,840**	**1,100**	NA	**50,200**	**16,300**	NA	**11,300**	**7,690**
5-OS	NA	NA	**8,100**	NA	NA	NA	NA	NA	NA	**8,180**	NA	NA	**41,500**	NA	**101,000**	**22,800**
5-I	**2,170**	NA	NA	NA	**600**	NA	**3,150**	NA	**851**	NA	NA	**700**	NA	NA	NA	NA
7-OS	**305**	NA	**9,700**	NA	**9,700**	NA	**36,300**	NA	**21,900**	**1,950**	NA	**11,300**	**4,300**	NA	**12,400**	**4,170**
8-OS	**997**	**2,100**	ND	**1,500**	**1,800**	**2,800**	**795**	**1,820**	153	**1,000**	**473**	**747**	**1,200**	**8,900**	**4,450**	**6,020**
8-I	**26,400**	**80,000**	**18,000**	**26,000**	**14,000**	**15,000**	**15,700**	**6,000**	**37,200**	NA	**19,100**	**4,270**	**9,870**	**22,900**	**26,400**	**47,600**
8-R	**11,700**	**2,700**	**1,400**	**5,400**	**9,200**	**12,000**	**4,880**	**4,150**	**1,940**	**2,440**	**1,140**	**5,260**	**1,180**	**2,230**	**2,580**	**2,500**
9-OS	**1,030**	**460**	**1,400**	**6,500**	200	**300**	0.105	**392**	126	**912**	**515**	198	**1,880**	**2,230**	**2,640**	**3,660**
9-I	80.5	100	ND	ND	ND	ND	113	**400**	91.3	86.4	**949**	ND	**2,820**	**3,920**	**2,570**	**24,000**
9-R	**1,640**	**3,200**	**13,000**	**4,700**	**7,800**	**4,600**	**5,040**	**3,660**	**3,900**	**670**	**4,360**	**3,110**	**1,340**	**9,110**	**8,280**	**8,080**
PW-1	40.2	**30,000**	ND	ND	ND	ND	ND	94.4	38.8	42.2	163	ND	18	ND	4.5	15.3
PW-2	ND	ND	ND	ND	ND	ND	27.7	36.9	22.2	35.3	114	ND	59.4	36.8	62	10.8
SVWC-93	ND	ND	ND	ND	ND	ND	26.4	253	50.2	NA	169	NA	8.8	4.2	36.5	62.4
SVWC-94	ND	ND	ND	ND	ND	NA	ND	90.9	ND	NA	83.1	NA	3.9	ND	20.5	22.2
SVWC-95	98.8	ND	ND	ND	ND	NA	ND	61	27	NA	90.1	NA	23.2	ND	14.4	24.9
SVWC-96	147	NA	NA	ND	ND	ND	ND	NA	289	NA	67.8	NA	4.6	ND	52.9	27.8

NOTES:

Values in **BOLD** indicate an exceedance of groundwater quality standard for Iron, 300 µg/L.

Concentrations reported in µg/L (ppb).
ND = Not Detected
NA = Not Analyzed

TABLE 3C (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER MONITORING
COMPOUND: Iron

Sample ID	Sample Date													
	Oct-03		Mar-04		Jun-05		Sep-06		Oct-07		Mar-09		May-10	
1-OS/I	NA		NA		**54,200**	N	**120,000**		**160,000**		**38,000**		**44,100**	B
2-OS	**14,700**		**14,700**		144	N	**12,000**		**31,000**		**12,000**		**22,700**	
3-OS/I	**39,000**		**12,900**		**60,500**	N	**77,000**		**25,000**		**30,000**		**24,000**	B
4-OS	**2,470**		**3,050**		**3,050**		**12,000**		**24,000**		**10,000**		**6,830**	
5-OS	NA		**150,000**		NA		**410,000**		**850**		**110,000**		**176,000**	
5-I	**21,800**		NA		124		NA		NA		NA		NA	
7-OS	**633**		**38,500**		**1,310**		**17,000**		**13,000**		**5,800**		**19,300**	B
8-OS	**705**		**1,030**		**3,150**		**1,200**		**780**		**3,800**		**1,070**	B
8-I	**8,310**		**29,700**		**13,900**		**43,000**		**39,000**		**33,000**		**27,000**	B
8-R	**1,090**		**1,160**		**751**		**4,700**		**1,300**		**1,300**		**563**	B
9-OS	**656**		**506**		**453**		**1,600**		**6,300**		**7,800**		**4,640**	B
9-I	**514**		**1,630**		**318**		**24,000**		**41,000**		**23,000**		**30,300**	B
9-R	**4,660**		**4,890**		**6,430**		**7,000**		**8,500**		**9,400**		**12,500**	B
PW-1	50	U	20	B	18.6	B	15	J	17	J	12	J	23	J,B
PW-2	50	U	27.5	B	115		34	J	130		140		71	B
SVWC-93	50	U	203		14.4	B	21	J	46	J	29	J	50	U
SVWC-94	50	U	30.3	B	7.7	U	50	U	12	J	NA		NA	
SVWC-95	50	U	157		17.2	B	260		76		33	J	30	J,B
SVWC-96	50	U	16.8	U	7.7	U	50	U	50	U	16	J	**598**	B

NOTES:

Values in **BOLD** indicate an exceedance of groundwater quality standard for Iron, 300 ug/L.

Concentrations reported in ug/L (ppb).
NA = Not Analyzed

Test America, Inc. performed analyses for the 2010 event. Life Science Laboratories, Inc., 2006-2009 events. STL Newburgh, 2003 - 2005 events.

Life Science Laboratories
J = Analyte detected below the Practical Quantitation Limit (PQL).
U = Analyte not detected at listed detection limit.

STL Newburgh
B = The reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit.

Test America
U = The compound was analyzed for but not detected at the detection limit listed.
B = Analyte was detected in the associated Method Blank.
J = Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.

TABLE 3D

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER MONITORING DATA
COMPOUND: Manganese

Sample ID	Sample Date															
	Jan-90	Sep-90	Jan-93	Apr-93	Sep-93	Dec-93	Mar-94	Jun-94	Sep-94	Dec-94	Mar-95	Jun-95	Sep-95	Dec-95	Mar-96	Jun-96
1-OS	**3,790**	**3,700**	**809**	**1,410**	**4,010**	**5,590**	**3,510**	26.8	**5,150**	**4,770**	**2,950**	**2,010**	**4,930**	**3,130**	**2,020**	NA
2-OS	298	**4,770**	NA	27	**4,850**	**1,580**	92.5	**985**	**2,450**	**827**	221	**982**	**5,570**	**883**	280	NA
3-OS/I	**8,700**	**18,100**	**3,450**	**1,690**	**9,590**	**8,780**	**5,640**	**10,300**	**2,240**	**5,540**	**3,590**	**3,270**	**3,860**	**6,090**	**11,900**	NA
4-OS	**4,210**	**5,020**	**547**	**506**	**2,080**	**995**	**598**	**2,850**	**3,050**	**1,130**	**602**	**2,860**	**7,080**	**682**	**636**	NA
5-OS	**981**	**530**	192	43.2	NA	NA	NA	NA	NA	NA	**1410**	NA	49.5	NA	**616**	NA
5-I	NA	NA	NA	NA	NA	52.8	40.6	215	221	**474**	NA	248	NA	53.6	NA	NA
7-OS	**1,240**	**3,260**	48.3	46.1	**45,100**	122	67.4	**1,580**	**9,820**	**992**	**1,180**	NA	NA	56.8	**390**	NA
8-OS	**2,830**	**2,750**	**1,680**	**1,640**	**3,330**	**1,910**	**4,090**	**1,790**	**3,230**	**1,840**	**2,050**	**2,690**	**1,420**	**903**	**2,460**	**3,120**
8-I	**4,230**	**1,110**	NA	ND	ND	ND	**877**	**1,180**	**692**	**862**	**1,480**	**1,110**	**2,430**	**945**	**1,860**	**3,200**
8-R	**872**	181	**1,660**	**2,600**	**2,440**	**2,650**	**2,220**	**1,890**	**1,740**	**1,980**	**3,290**	**1,300**	**2,500**	**2,610**	**4,040**	**3,230**
9-OS	NA	14.6	ND	21.1	9.6	8.7	74.8	34.7	26.2	40.8	32.9	3.9	NA	NA	75.7	70.9
9-I	NA	**377**	NA	NA	NA	NA	40.6	3.2	21.7	9.8	40.5	10.9	129	15.9	5.2	13.1
9-R	NA	**3,270**	**2,320**		**2,540**	**1,890**	**1,660**	**1,830**	**1,650**	**1,460**	**1,590**	**1,790**	**1,810**	**1,070**	**738**	**1,840**
PW-1	NA	ND	1.2	1.8	ND	3.6	5.4	ND	5.1	15.3	18.1	5.2	83.1	57.7	83.7	25.7
PW-2	NA	ND	4.7	7.5	6.3	6.6	NA	2.4	8.7	6.1	NA	6.1	11.6	7.7	2.6	5
SVWC-93	NA	NA	ND	1.7	NA	72.2	ND	ND	2	0.37	9.6	0.95	NA	11.9	ND	3.4
SVWC-94	NA	NA	7.3	ND	NA	NA	6.3	ND	10.4	11.9	6.7	11.4	NA	ND	3.1	ND
SVWC-95	NA	NA	56.4	1.8	ND	NA	91.6	108	273	85.9	29	49.7	NA	22.1	47.4	67.4
SVWC-96	NA	NA	ND	ND	NA	ND	ND	ND	2.1	11.9	1.3	ND	NA	48	ND	ND

NOTES:

Values in **BOLD** indicate an exceedance of groundwater quality standard for Manganese, 300 µg/L.

Concentrations reported in µg/L (ppb).
ND = Not Detected
NA = Not Analyzed

TABLE 3D (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER MONITORING DATA
COMPOUND: Manganese

Sample ID	Sample Date															
	Sep-96	Dec-96	Mar-97	Jun-97	Sep-97	Dec-97	Mar-98	Jun-98	Sep-98	Mar-99	Jun-99	Sep-99	May-00	Sep-00	Dec-00	Mar-01
1-OS	**4,710**	NA	**2,200**	NA	**5,500**	NA	**4,530**	NA	**1,600**	**5,600**	NA	**9,830**	**5,740**	NA	**5,810**	**4,940**
2-OS	NA	NA	18	NA	**650**	NA	**1,060**	NA	**3,320**	69.6	NA	**936**	**4,110**	NA	**3,370**	**3,450**
3-OS/I	**4,880**	NA	**3,000**	NA	**4,500**	NA	**12,100**	NA	**8,880**	**948**	NA	**577**	**5,720**	NA	**5,070**	**3,750**
4-OS	59.6	NA	140	NA	**940**	NA	**430**	NA	**1,600**	220	NA	**1,720**	**1,340**	NA	**1,930**	**440**
5-OS	NA	NA	NA	NA	20	NA	57.8	NA	18.7	NA	NA	27.2	**533**	NA	**1,080**	**323**
5-I	77.7	NA	160	NA	NA	NA	NA	NA	NA	88.6	NA	NA	NA	NA	NA	NA
7-OS	43.1	NA	**1,400**	NA	**550**	NA	**2,480**	NA	**2,190**	211	NA	**755**	**305**	NA	**1,270**	**638**
8-OS	**679**	**2,200**	**570**	**670**	**830**	**570**	124	**466**	**2,640**	119	**1,400**	**860**	**525**	**3,820**	**2,410**	**6,760**
8-I	**2,100**	**3,100**	**1,200**	**1,800**	**910**	**840**	**937**	**692**	**1,500**	NA	**1,050**	**1,570**	**789**	**2,810**	**2,560**	**3,430**
8-R	**4,310**	**3,400**	**3,500**	**3,100**	**2,000**	**1,500**	**2,130**	**2,340**	**952**	NA	**1,900**	**2,780**	**2,640**	**2,390**	**2,120**	**2,250**
9-OS	43.3	20	49	170	ND	20	28	14.7	3.5	28.6	15.1	11.7	40.1	54.6	58.9	93.2
9-I	5.6	6	ND	ND	ND	ND	4.8	11.8	3.6	2.8	18	5.4	109	66.7	49.2	**561**
9-R	**1,930**	**2,200**	**2,600**	**2,400**	**2,000**	**1,500**	**1,650**	**1,150**	**1,810**	**771**	**1,620**	**1,320**	**1,500**	**3,020**	**3,100**	**2,860**
PW-1	4.4	80	ND	ND	ND	ND	9.4	0.99	7	1.4	1.9	ND	0.81	0.74	1.4	13.6
PW-2	3.8	ND	ND	ND	ND	ND	9.1	5.1	0.61	6.6	6.6	ND	1.8	2.5	3.9	6
SVWC-93	2	ND	ND	ND	ND	ND	12.8	0.79	3.6	NA	2.5	NA	0.49	2.1	ND	2.2
SVWC-94	5.3	6	ND	ND	10	NA	8.1	5.8	7.6	NA	4.3	NA	3.6	7.1	9.6	4.7
SVWC-95	26.4	70	82	80	130	NA	58.6	64.4	21	NA	40.6	NA	40.4	49.7	47.5	49.8
SVWC-96	10.1	NA	NA	ND	ND	ND	ND	NA	22	NA	1.6	NA	ND	<0.70	ND	ND

NOTES:

Values in **BOLD** indicate an exceedance of groundwater quality standard for Manganese, 300 µg/L.

Concentrations reported in µg/L (ppb).
ND = Not Detected
NA = Not Analyzed

TABLE 3D (Continued)

TOWN OF RAMAPO LANDFILL
POST-CLOSURE GROUNDWATER QUALITY MONITORING
COMPOUND: Manganese

Sample ID	Sample Date						
	Oct-03	Mar-04	Jun-05	Sep-06	Oct-07	Mar-09	May-10
1-OS/I	NA	NA	**4,720**	**2,800**	**5,100**	**9,000**	**14,800** B
2-OS	**1,310**	**2,300**	**778**	**1,900**	**3,500**	**2,200**	**1,680**
3-OS/I	**14,200**	**7,200**	**6,450**	**9,200**	**4,400**	**14,000**	**2,460** B
4-OS	**690**	**338**	**700**	**860**	**2,700**	**400**	223
5-OS	NA	**2,040**	NA	**5,100**	14 J	**1,100**	**2,230**
5-I	**577**	NA	13.6	NA	NA	NA	NA
7-OS	76.4	**2,140**	222	**1,300**	**920**	**450**	**1,710** B
8-OS	235	**1,590**	**691**	110	**2,000**	**610**	**399** B
8-I	**2,590**	**4,650**	**3,090**	**1,900**	**2,200**	**3,100**	**4,590** B
8-R	**2,040**	**2,150**	**2,190**	**2,200**	**1,900**	**1,900**	**1,960** B
9-OS	15.5	4.4 B	27.7	51	140	150	90.1 B
9-I	15.1	19	11.6	290	**560**	290	**392** B
9-R	**2,090**	**1,980**	**2,730**	**2,800**	**2,900**	**3,700**	**4,030** B
PW-1	0.69	0.9 U	2.1 U	0.75 J	50 U	50 U	1.2 J,B
PW-2	1.6	0.9 U	2.1 U	1.4 J	5.6 J	1.8 J	3.1 B
SVWC-93	0.65	0.9 U	2.1 U	0.62 J	50 U	50 U	0.3 J,B
SVWC-94	4.3	3.3 B	6.5 B	3.2 J	3.8 J	NA	NA
SVWC-95	84.6	88	86	25 J	96	140	110 B
SVWC-96	0.9 U	0.9 U	2.1 U	50 U	50 U	50 U	22 B

NOTES:

Values in **BOLD** indicate an exceedance of groundwater quality standard for Manganese, 300 ug/L.

Concentrations reported in ug/L (ppb).
NA = Not Analyzed

Test America, Inc. performed analyses for the 2010 event. Life Science Laboratories, Inc., 2006-2009 events. STL Newburgh, 2003 - 2005 events.

Life Science Laboratories
J = Analyte detected below the Practical Quantitation Limit (PQL).
U = Analyte not detected at listed detection limit.

STL Newburgh
B = The reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit.

Test America
B = Analyte was detected in the associated Method Blank.
J = Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Analytical Report

SDG Number: RTE1068

Project Description(s)

Ramapo Monitoring
Ramapo Monitoring

For:

Elizabeth Davis

Sterling Environmental Engineering

24 Wade Road

Latham, NY 12110

Melissa Deyo

Melissa Deyo For Paul Morrow

Project Manager

melissa.deyo@testamericainc.com

Friday, June 4, 2010

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

TestAmerica Buffalo
Current Certifications

As of 04/16/2010

STATE	Program	Cert # / Lab ID
Arkansas	CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP,SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA,CLP	10026
North Dakota	CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania*	NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
Texas*	NELAP CWA, RCRA	T104704412-08-TX
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington*	NELAP CWA,RCRA	C1677
Wisconsin	CWA, RCRA	998310390
West Virginia	CWA,RCRA	252

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

CASE NARRATIVE

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

There are pertinent documents appended to this report, 4 pages, are included and are an integral part of this report.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
D02	Dilution required due to sample matrix effects
D08	Dilution required due to high concentration of target analyte(s)
D14	Dilution required due to high concentration of dissolved solids known to cause failure of routine quality control. Analytical method recommends a five-fold dilution for samples that contain greater than 2000 mg/l of total solids.
J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
M1	The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M11	The MS and/or MSD were above the acceptance limits.
M15	The Matrix Spike Duplicate exhibited results outside of the quality control limits. However, the Matrix Spike and Blank Spike (LCS) were acceptable.
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS and /or MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
R2	The RPD exceeded the acceptance limit.
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
Z1	Surrogate recovery was above acceptance limits.
NR	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: 1-OS (RTE1068-14 - Water)						**Sampled: 05/19/10 17:25**		**Recvd: 05/20/10 09:00**		
Total Metals by EPA 200 Series Methods										
Antimony	**3.8**		3.0	NR	ug/L	1.00	05/24/10 17:40	AMH	10E1747	200.8
Total Metals by SW 846 Series Methods										
Aluminum	**14.6**		0.200	0.045	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Arsenic	**0.0112**		0.0100	0.0056	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Barium	**0.192**	B	0.0020	0.0003	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Beryllium	**0.0007**	J	0.0020	0.0002	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Calcium	**91.0**		0.5	0.1	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Chromium	**1.99**		0.0040	0.0009	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Cobalt	**0.0276**		0.0040	0.0006	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Copper	**0.0576**		0.0100	0.0015	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Iron	**44.1**	B	0.050	0.019	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Lead	**0.0183**		0.0050	0.0030	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Magnesium	**22.6**		0.200	0.043	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Manganese	**14.8**	B	0.0030	0.0002	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Nickel	**0.527**		0.0100	0.0013	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Potassium	**6.39**		0.500	0.050	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Sodium	**111**		1.0	0.3	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Vanadium	**0.0419**		0.0050	0.0011	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Zinc	**0.0626**		0.0100	0.0017	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Mercury	**0.0001**	J	0.0002	0.0001	mg/L	1.00	05/21/10 20:55	MXM	10E1712	7470A
General Chemistry Parameters										
Alkalinity, Total	**157**	D08, B	50.0	20.0	mg/L	5.00	05/21/10 11:24	RJF	10E1737	310.2
Chemical Oxygen Demand	**4.2**	J	10.0	2.5	mg/L	1.00	05/21/10 16:30	RMB	10E1767	410.4
Total Hardness	**350**		2.00	0.525	mg/L	1.00	05/27/10 13:30	LRM	10E2275	2340C
Total Kjeldahl Nitrogen	**1.16**		0.20	0.15	mg/L	1.00	05/26/10 12:03	KLD	10E2005	351.2
Client ID: 2-0S (RTE1133-01 - Water)						**Sampled: 05/20/10 09:15**		**Recvd: 05/21/10 08:30**		
Purgeable Halocarbons by EPA Method 601										
Vinyl chloride	**0.16**	J	1.0	0.12	ug/L	1.00	05/27/10 10:31	tchro	10E2104	601
Total Metals by SW 846 Series Methods										
Aluminum	**3.20**		0.200	0.045	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Barium	**0.0647**		0.0020	0.0003	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Beryllium	**0.0002**	J	0.0020	0.0002	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Calcium	**92.8**		0.5	0.1	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Chromium	**0.722**		0.0040	0.0009	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Cobalt	**0.0207**		0.0040	0.0006	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Copper	**0.0360**		0.0100	0.0015	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Iron	**22.7**		0.050	0.019	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Lead	**0.0049**	J	0.0050	0.0030	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Magnesium	**14.8**		0.200	0.043	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Manganese	**1.68**		0.0030	0.0002	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Nickel	**0.236**		0.0100	0.0013	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Potassium	**2.01**		0.500	0.050	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: 2-0S (RTE1133-01 - Water) - cont.						**Sampled: 05/20/10 09:15**		**Recvd: 05/21/10 08:30**		
Total Metals by SW 846 Series Methods - cont.										
Sodium	**9.3**		1.0	0.3	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Vanadium	**0.0104**		0.0050	0.0011	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Zinc	**0.0143**		0.0100	0.0017	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
General Chemistry Parameters										
Alkalinity, Total	**267**	D08, B	100	40.0	mg/L	10.0	05/27/10 10:28	RJF	10E2261	310.2
Chemical Oxygen Demand	**17.7**		10.0	2.5	mg/L	1.00	05/22/10 12:00	RMB	10E1805	410.4
Total Hardness	**350**		2.00	0.525	mg/L	1.00	05/27/10 13:30	LRM	10E2275	2340C
Total Kjeldahl Nitrogen	**0.59**		0.20	0.15	mg/L	1.00	05/26/10 12:09	KLD	10E2005	351.2
Client ID: 3OS/I (RTE1068-10 - Water)						**Sampled: 05/19/10 16:40**		**Recvd: 05/20/10 09:00**		
Total Metals by SW 846 Series Methods										
Aluminum	**0.629**		0.200	0.045	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Barium	**0.0308**	B	0.0020	0.0003	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Calcium	**96.6**		0.5	0.1	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Chromium	**2.57**		0.0040	0.0009	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Cobalt	**0.0161**		0.0040	0.0006	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Copper	**0.0211**		0.0100	0.0015	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Iron	**24.0**	B	0.050	0.019	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Magnesium	**11.2**		0.200	0.043	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Manganese	**2.46**	B	0.0030	0.0002	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Nickel	**0.492**		0.0100	0.0013	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Potassium	**3.04**		0.500	0.050	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Sodium	**36.9**		1.0	0.3	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Vanadium	**0.0076**		0.0050	0.0011	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
General Chemistry Parameters										
Alkalinity, Total	**322**	D08, B	50.0	20.0	mg/L	5.00	05/21/10 11:24	RJF	10E1737	310.2
Total Hardness	**296**	D08	20.0	5.25	mg/L	10.0	05/22/10 10:09	JME	10E1804	2340C
Total Kjeldahl Nitrogen	**0.56**		0.20	0.15	mg/L	1.00	05/26/10 12:36	KLD	10E2005	351.2
Client ID: 4-0S (RTE1133-04 - Water)						**Sampled: 05/20/10 10:00**		**Recvd: 05/21/10 08:30**		
Total Metals by SW 846 Series Methods										
Aluminum	**2.35**		0.200	0.045	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Barium	**0.0376**		0.0020	0.0003	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Beryllium	**0.0002**	J	0.0020	0.0002	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Calcium	**33.9**		0.5	0.1	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Chromium	**0.522**		0.0040	0.0009	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Cobalt	**0.0020**	J	0.0040	0.0006	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Copper	**0.0074**	J	0.0100	0.0015	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Iron	**6.83**		0.050	0.019	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Magnesium	**15.0**		0.200	0.043	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Manganese	**0.223**		0.0030	0.0002	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Nickel	**0.0615**		0.0100	0.0013	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Potassium	**1.63**		0.500	0.050	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Sodium	**47.9**		1.0	0.3	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: 4-0S (RTE1133-04 - Water) - cont.						**Sampled: 05/20/10 10:00**		**Recvd: 05/21/10 08:30**		
Total Metals by SW 846 Series Methods - cont.										
Vanadium	**0.0063**		0.0050	0.0011	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Zinc	**0.0091**	J	0.0100	0.0017	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
General Chemistry Parameters										
Alkalinity, Total	**53.1**	B	10.0	4.0	mg/L	1.00	05/27/10 18:49	JFR	10E2299	310.2
Total Hardness	**150**		2.00	0.525	mg/L	1.00	05/27/10 13:30	LRM	10E2275	2340C
Total Kjeldahl Nitrogen	**0.20**		0.20	0.15	mg/L	1.00	05/26/10 12:16	KLD	10E2005	351.2
Client ID: 5-0S (RTE1133-05 - Water)						**Sampled: 05/20/10 12:15**		**Recvd: 05/21/10 08:30**		
Total Metals by SW 846 Series Methods										
Aluminum	**115**		0.200	0.045	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Arsenic	**0.0155**		0.0100	0.0056	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Barium	**0.536**		0.0020	0.0003	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Beryllium	**0.0055**		0.0020	0.0002	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Calcium	**34.1**		0.5	0.1	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Chromium	**0.278**		0.0040	0.0009	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Cobalt	**0.0800**		0.0040	0.0006	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Copper	**0.202**		0.0100	0.0015	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Iron	**176**		0.050	0.019	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Lead	**0.0233**		0.0050	0.0030	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Magnesium	**36.5**		0.200	0.043	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Manganese	**2.23**		0.0030	0.0002	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Nickel	**0.147**		0.0100	0.0013	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Potassium	**18.3**		0.500	0.050	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Silver	**0.0019**	J	0.0030	0.0012	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Sodium	**8.0**		1.0	0.3	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Vanadium	**0.279**		0.0050	0.0011	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Zinc	**0.236**		0.0100	0.0017	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
General Chemistry Parameters										
Alkalinity, Total	**23.1**	B	10.0	4.0	mg/L	1.00	05/27/10 18:50	JFR	10E2299	310.2
Total Hardness	**102**	D08	20.0	5.25	mg/L	10.0	05/25/10 13:57	KLD	10E1998	2340C
Total Kjeldahl Nitrogen	**0.22**		0.20	0.15	mg/L	1.00	05/26/10 12:16	KLD	10E2005	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: 7-OS (RTE1068-07 - Water)						**Sampled: 05/19/10 13:15**			**Recvd: 05/20/10 09:00**	
Total Metals by SW 846 Series Methods										
Aluminum	**15.0**		0.200	0.045	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Barium	**0.133**	B	0.0020	0.0003	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Beryllium	**0.0007**	J	0.0020	0.0002	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Calcium	**49.4**		0.5	0.1	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Chromium	**0.158**		0.0040	0.0009	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Cobalt	**0.0158**		0.0040	0.0006	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Copper	**0.0309**		0.0100	0.0015	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Iron	**19.3**	B	0.050	0.019	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Lead	**0.0060**		0.0050	0.0030	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Magnesium	**13.5**		0.200	0.043	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Manganese	**1.71**	B	0.0030	0.0002	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Nickel	**0.0285**		0.0100	0.0013	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Potassium	**6.50**		0.500	0.050	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Sodium	**11.7**		1.0	0.3	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Vanadium	**0.0280**		0.0050	0.0011	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Zinc	**0.0363**		0.0100	0.0017	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
General Chemistry Parameters										
Alkalinity, Total	**133**	D08, B	50.0	20.0	mg/L	5.00	05/21/10 11:24	RJF	10E1737	310.2
Total Hardness	**154**	D08	4.00	1.05	mg/L	2.00	05/22/10 10:09	JME	10E1804	2340C
Total Kjeldahl Nitrogen	**0.26**		0.20	0.15	mg/L	1.00	05/24/10 10:27	JME	10E1702	351.2
Client ID: 8-I (RTE1068-04 - Water)						**Sampled: 05/19/10 14:20**			**Recvd: 05/20/10 09:00**	
Purgeable Halocarbons by EPA Method 601										
Vinyl chloride	**0.37**	J	1.0	0.12	ug/L	1.00	05/25/10 14:21	DGB	10E1956	601
Total Metals by SW 846 Series Methods										
Aluminum	**5.97**		0.200	0.045	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Arsenic	**0.0101**		0.0100	0.0056	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Barium	**0.0878**	B	0.0020	0.0003	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Beryllium	**0.0004**	J	0.0020	0.0002	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Calcium	**83.8**		0.5	0.1	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Chromium	**0.0140**		0.0040	0.0009	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Cobalt	**0.0083**		0.0040	0.0006	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Copper	**0.0124**		0.0100	0.0015	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Iron	**27.0**	B	0.050	0.019	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Magnesium	**23.6**		0.200	0.043	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Manganese	**4.59**	B	0.0030	0.0002	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Nickel	**0.0137**		0.0100	0.0013	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Potassium	**18.8**		0.500	0.050	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Sodium	**75.6**		1.0	0.3	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Vanadium	**0.0118**		0.0050	0.0011	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Zinc	**0.0143**		0.0100	0.0017	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
General Chemistry Parameters										
Alkalinity, Total	**219**	D08, B	50.0	20.0	mg/L	5.00	05/21/10 11:22	RJF	10E1737	310.2
Total Hardness	**340**		2.00	0.525	mg/L	1.00	05/27/10 13:30	LRM	10E2275	2340C

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: 8-I (RTE1068-04 - Water) - cont.						**Sampled: 05/19/10 14:20**		**Recvd: 05/20/10 09:00**		
General Chemistry Parameters - cont.										
Total Kjeldahl Nitrogen	**6.63**	D08	0.40	0.30	mg/L	2.00	05/24/10 11:34	JME	10E1702	351.2
Client ID: 8-OS (RTE1068-05 - Water)						**Sampled: 05/19/10 14:05**		**Recvd: 05/20/10 09:00**		
Total Metals by SW 846 Series Methods										
Barium	**0.0107**	B	0.0020	0.0003	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Calcium	**25.3**		0.5	0.1	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Chromium	**0.152**		0.0040	0.0009	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Copper	**0.0017**	J	0.0100	0.0015	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Iron	**1.07**	B	0.050	0.019	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Magnesium	**5.77**		0.200	0.043	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Manganese	**0.399**	B	0.0030	0.0002	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Nickel	**0.0103**		0.0100	0.0013	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Potassium	**1.39**		0.500	0.050	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Sodium	**30.7**		1.0	0.3	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Zinc	**0.0019**	J	0.0100	0.0017	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
General Chemistry Parameters										
Alkalinity, Total	**75.8**	B	10.0	4.0	mg/L	1.00	05/21/10 11:09	RJF	10E1735	310.2
Total Hardness	**82.0**		2.00	0.525	mg/L	1.00	05/22/10 10:09	JME	10E1804	2340C
Client ID: 8-R (RTE1068-06 - Water)						**Sampled: 05/19/10 14:40**		**Recvd: 05/20/10 09:00**		
Purgeable Halocarbons by EPA Method 601										
Vinyl chloride	**2.2**		1.0	0.12	ug/L	1.00	05/25/10 15:40	DGB	10E1956	601
Total Metals by SW 846 Series Methods										
Barium	**0.0151**	B	0.0020	0.0003	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Calcium	**156**		0.5	0.1	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Cobalt	**0.0098**		0.0040	0.0006	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Iron	**0.563**	B	0.050	0.019	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Magnesium	**40.7**		0.200	0.043	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Manganese	**1.96**	B	0.0030	0.0002	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Nickel	**0.0106**		0.0100	0.0013	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Potassium	**4.07**		0.500	0.050	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Sodium	**41.4**		1.0	0.3	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
General Chemistry Parameters										
Alkalinity, Total	**571**	D08, B	100	40.0	mg/L	10.0	05/21/10 12:02	RJF	10E1738	310.2
Chemical Oxygen Demand	**6.7**	J	10.0	2.5	mg/L	1.00	05/21/10 16:30	RMB	10E1889	410.4
Total Hardness	**525**		2.00	0.525	mg/L	1.00	05/22/10 10:09	JME	10E1804	2340C
Total Kjeldahl Nitrogen	**2.99**		0.20	0.15	mg/L	1.00	05/24/10 10:27	JME	10E1702	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: 9-I (RTE1068-11 - Water)						**Sampled: 05/19/10 15:50**		**Recvd: 05/20/10 09:00**		
Total Metals by SW 846 Series Methods										
Aluminum	**18.3**		0.200	0.045	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Barium	**0.159**	B	0.0020	0.0003	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Beryllium	**0.0009**	J	0.0020	0.0002	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Calcium	**10.2**		0.5	0.1	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Chromium	**0.0539**		0.0040	0.0009	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Cobalt	**0.0143**		0.0040	0.0006	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Copper	**0.0330**		0.0100	0.0015	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Iron	**30.3**	B	0.050	0.019	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Lead	**0.0036**	J	0.0050	0.0030	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Magnesium	**6.30**		0.200	0.043	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Manganese	**0.392**	B	0.0030	0.0002	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Nickel	**0.0234**		0.0100	0.0013	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Potassium	**5.44**		0.500	0.050	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Sodium	**14.2**		1.0	0.3	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Vanadium	**0.0326**		0.0050	0.0011	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Zinc	**0.0386**		0.0100	0.0017	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
General Chemistry Parameters										
Alkalinity, Total	**8.3**	J, B	10.0	4.0	mg/L	1.00	05/21/10 11:10	RJF	10E1737	310.2
Total Hardness	**26.2**	D08	4.00	1.05	mg/L	2.00	05/22/10 10:09	JME	10E1804	2340C
Total Kjeldahl Nitrogen	**0.16**	J	0.20	0.15	mg/L	1.00	05/26/10 12:36	KLD	10E2005	351.2
Client ID: 9-OS (RTE1068-13 - Water)						**Sampled: 05/19/10 15:25**		**Recvd: 05/20/10 09:00**		
Total Metals by SW 846 Series Methods										
Aluminum	**2.43**		0.200	0.045	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Barium	**0.0229**	B	0.0020	0.0003	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Calcium	**8.6**		0.5	0.1	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Chromium	**0.176**		0.0040	0.0009	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Cobalt	**0.0016**	J	0.0040	0.0006	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Copper	**0.0072**	J	0.0100	0.0015	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Iron	**4.64**	B	0.050	0.019	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Magnesium	**2.49**		0.200	0.043	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Manganese	**0.0901**	B	0.0030	0.0002	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Nickel	**0.0134**		0.0100	0.0013	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Potassium	**1.80**		0.500	0.050	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Sodium	**8.2**		1.0	0.3	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Vanadium	**0.0059**		0.0050	0.0011	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Zinc	**0.0116**		0.0100	0.0017	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
General Chemistry Parameters										
Alkalinity, Total	**12.3**	B	10.0	4.0	mg/L	1.00	05/21/10 11:10	RJF	10E1737	310.2
Chemical Oxygen Demand	**24.3**		10.0	2.5	mg/L	1.00	05/21/10 16:30	RMB	10E1767	410.4
Total Hardness	**30.4**		2.00	0.525	mg/L	1.00	05/22/10 10:09	JME	10E1804	2340C
Total Kjeldahl Nitrogen	**1.38**		0.20	0.15	mg/L	1.00	05/26/10 12:03	KLD	10E2005	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: 9-R (RTE1068-12 - Water)						**Sampled: 05/19/10 15:40**		**Recvd: 05/20/10 09:00**		
Purgeable Halocarbons by EPA Method 601										
Vinyl chloride	**0.19**	J	1.0	0.12	ug/L	1.00	05/25/10 22:13	DGB	10E1963	601
Total Metals by SW 846 Series Methods										
Aluminum	**0.495**		0.200	0.045	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Arsenic	**0.0084**	J	0.0100	0.0056	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Barium	**0.0374**	B	0.0020	0.0003	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Calcium	**47.3**		0.5	0.1	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Chromium	**0.0025**	J	0.0040	0.0009	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Cobalt	**0.0037**	J	0.0040	0.0006	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Iron	**12.5**	B	0.050	0.019	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Magnesium	**13.7**		0.200	0.043	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Manganese	**4.03**	B	0.0030	0.0002	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Nickel	**0.0034**	J	0.0100	0.0013	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Potassium	**13.1**		0.500	0.050	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Sodium	**59.3**		1.0	0.3	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Vanadium	**0.0014**	J	0.0050	0.0011	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
General Chemistry Parameters										
Alkalinity, Total	**159**	D08, B	50.0	20.0	mg/L	5.00	05/21/10 11:24	RJF	10E1737	310.2
Chemical Oxygen Demand	**7.0**	J	10.0	2.5	mg/L	1.00	05/21/10 16:30	RMB	10E1767	410.4
Total Hardness	**350**		2.00	0.525	mg/L	1.00	05/27/10 13:30	LRM	10E2275	2340C
Total Kjeldahl Nitrogen	**6.23**	D08	0.40	0.30	mg/L	2.00	05/26/10 12:49	KLD	10E2005	351.2
Client ID: DUPLICATE (RTE1133-06 - Water)						**Sampled: 05/20/10 09:30**		**Recvd: 05/21/10 08:30**		
Total Metals by SW 846 Series Methods										
Aluminum	**2.29**		0.200	0.045	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Barium	**0.0329**		0.0020	0.0003	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Beryllium	**0.0002**	J	0.0020	0.0002	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Calcium	**89.8**		0.5	0.1	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Chromium	**0.146**		0.0040	0.0009	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Cobalt	**0.0052**		0.0040	0.0006	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Copper	**0.0110**		0.0100	0.0015	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Iron	**5.51**		0.050	0.019	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Magnesium	**14.2**		0.200	0.043	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Manganese	**0.425**		0.0030	0.0002	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Nickel	**0.0559**		0.0100	0.0013	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Potassium	**1.78**		0.500	0.050	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Sodium	**9.2**		1.0	0.3	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Vanadium	**0.0045**	J	0.0050	0.0011	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Zinc	**0.0079**	J	0.0100	0.0017	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
General Chemistry Parameters										
Alkalinity, Total	**300**	D08, B	50.0	20.0	mg/L	5.00	05/27/10 19:19	JFR	10E2299	310.2
Total Hardness	**280**		2.00	0.525	mg/L	1.00	05/27/10 13:30	LRM	10E2275	2340C
Total Kjeldahl Nitrogen	**0.34**		0.20	0.15	mg/L	1.00	05/26/10 12:16	KLD	10E2005	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: PW-1 (RTE1068-08 - Water)						**Sampled: 05/19/10 16:00**		**Recvd: 05/20/10 09:00**		
Total Metals by SW 846 Series Methods										
Barium	**0.0102**	B	0.0020	0.0003	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Calcium	**15.5**		0.5	0.1	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Copper	**0.117**		0.0100	0.0015	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Iron	**0.023**	J, B	0.050	0.019	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Magnesium	**4.16**		0.200	0.043	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Manganese	**0.0012**	J, B	0.0030	0.0002	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Potassium	**1.12**		0.500	0.050	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Sodium	**18.6**		1.0	0.3	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Zinc	**0.0356**		0.0100	0.0017	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
General Chemistry Parameters										
Alkalinity, Total	**22.0**	B	10.0	4.0	mg/L	1.00	05/21/10 11:10	RJF	10E1737	310.2
Total Hardness	**49.6**		2.00	0.525	mg/L	1.00	05/22/10 10:09	JME	10E1804	2340C
Total Kjeldahl Nitrogen	**0.15**	J	0.20	0.15	mg/L	1.00	05/26/10 12:29	KLD	10E2005	351.2
Client ID: PW-2 (RTE1068-09 - Water)						**Sampled: 05/19/10 16:15**		**Recvd: 05/20/10 09:00**		
Total Metals by SW 846 Series Methods										
Barium	**0.0026**	B	0.0020	0.0003	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Calcium	**29.4**		0.5	0.1	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Copper	**0.0534**		0.0100	0.0015	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Iron	**0.071**	B	0.050	0.019	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Magnesium	**3.43**		0.200	0.043	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Manganese	**0.0031**	B	0.0030	0.0002	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Potassium	**1.06**		0.500	0.050	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Sodium	**8.6**		1.0	0.3	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Zinc	**0.0782**		0.0100	0.0017	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
General Chemistry Parameters										
Alkalinity, Total	**64.8**	B	10.0	4.0	mg/L	1.00	05/21/10 11:10	RJF	10E1737	310.2
Total Hardness	**76.4**		2.00	0.525	mg/L	1.00	05/22/10 10:09	JME	10E1804	2340C
Total Kjeldahl Nitrogen	**0.26**		0.20	0.15	mg/L	1.00	05/26/10 12:36	KLD	10E2005	351.2
Client ID: SVWC No.93 (RTE1068-01 - Water)						**Sampled: 05/19/10 12:00**		**Recvd: 05/20/10 09:00**		
Total Metals by SW 846 Series Methods										
Barium	**0.0074**	B	0.0020	0.0003	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Calcium	**17.5**		0.5	0.1	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Copper	**0.0193**		0.0100	0.0015	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Magnesium	**4.56**		0.200	0.043	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Manganese	**0.0003**	J, B	0.0030	0.0002	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Potassium	**1.33**		0.500	0.050	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Sodium	**41.6**		1.0	0.3	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Zinc	**0.0057**	J	0.0100	0.0017	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
General Chemistry Parameters										
Alkalinity, Total	**42.1**	B	10.0	4.0	mg/L	1.00	05/21/10 11:09	RJF	10E1735	310.2
Total Hardness	**57.5**		2.00	0.525	mg/L	1.00	05/22/10 10:09	JME	10E1804	2340C

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: SVWC No.95 (RTE1068-02 - Water)						**Sampled: 05/19/10 12:27**			**Recvd: 05/20/10 09:00**	
Purgeable Halocarbons by EPA Method 601										
Vinyl chloride	**0.13**	J	1.0	0.12	ug/L	1.00	05/25/10 13:03	DGB	10E1956	601
Total Metals by SW 846 Series Methods										
Aluminum	**0.105**	J	0.200	0.045	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Barium	**0.0114**	B	0.0020	0.0003	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Calcium	**20.3**		0.5	0.1	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Copper	**0.0112**		0.0100	0.0015	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Iron	**0.030**	J, B	0.050	0.019	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Magnesium	**5.53**		0.200	0.043	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Manganese	**0.110**	B	0.0030	0.0002	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Potassium	**1.57**		0.500	0.050	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Sodium	**47.2**		1.0	0.3	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Zinc	**0.0034**	J	0.0100	0.0017	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
General Chemistry Parameters										
Alkalinity, Total	**56.1**	B	10.0	4.0	mg/L	1.00	05/21/10 11:09	RJF	10E1735	310.2
Total Hardness	**65.5**		2.00	0.525	mg/L	1.00	05/22/10 10:09	JME	10E1804	2340C
Client ID: SVWC No.96 (RTE1068-03 - Water)						**Sampled: 05/19/10 12:14**			**Recvd: 05/20/10 09:00**	
Total Metals by SW 846 Series Methods										
Barium	**0.0088**	B	0.0020	0.0003	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Calcium	**19.7**		0.5	0.1	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Copper	**0.0085**	J	0.0100	0.0015	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Iron	**0.598**	B	0.050	0.019	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Magnesium	**5.24**		0.200	0.043	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Manganese	**0.0220**	B	0.0030	0.0002	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Nickel	**0.0075**	J	0.0100	0.0013	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Potassium	**1.34**		0.500	0.050	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Sodium	**48.6**		1.0	0.3	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Zinc	**0.0170**		0.0100	0.0017	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
General Chemistry Parameters										
Alkalinity, Total	**45.1**	B	10.0	4.0	mg/L	1.00	05/21/10 11:09	RJF	10E1735	310.2
Total Hardness	**66.4**		2.00	0.525	mg/L	1.00	05/22/10 10:09	JME	10E1804	2340C
Total Kjeldahl Nitrogen	**0.26**		0.20	0.15	mg/L	1.00	05/24/10 11:04	JME	10E1702	351.2
Client ID: TRIP BLANK (RTE1133-07 - Water)						**Sampled: 05/20/10**			**Recvd: 05/21/10 08:30**	
Purgeable Halocarbons by EPA Method 601										
Vinyl chloride	**0.18**	J, B	1.0	0.12	ug/L	1.00	05/25/10 13:30	tchro	10E1976	601

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
1-OS	RTE1068-14	Water	05/19/10 17:25	05/20/10 09:00	
2-0S	RTE1133-01	Water	05/20/10 09:15	05/21/10 08:30	
3OS/I	RTE1068-10	Water	05/19/10 16:40	05/20/10 09:00	
4-0S	RTE1133-04	Water	05/20/10 10:00	05/21/10 08:30	
5-0S	RTE1133-05	Water	05/20/10 12:15	05/21/10 08:30	
7-OS	RTE1068-07	Water	05/19/10 13:15	05/20/10 09:00	
8-I	RTE1068-04	Water	05/19/10 14:20	05/20/10 09:00	
8-OS	RTE1068-05	Water	05/19/10 14:05	05/20/10 09:00	
8-R	RTE1068-06	Water	05/19/10 14:40	05/20/10 09:00	
9-I	RTE1068-11	Water	05/19/10 15:50	05/20/10 09:00	
9-OS	RTE1068-13	Water	05/19/10 15:25	05/20/10 09:00	
9-R	RTE1068-12	Water	05/19/10 15:40	05/20/10 09:00	
DUPLICATE	RTE1133-06	Water	05/20/10 09:30	05/21/10 08:30	
PW-1	RTE1068-08	Water	05/19/10 16:00	05/20/10 09:00	
PW-2	RTE1068-09	Water	05/19/10 16:15	05/20/10 09:00	
SVWC No.93	RTE1068-01	Water	05/19/10 12:00	05/20/10 09:00	
SVWC No.95	RTE1068-02	Water	05/19/10 12:27	05/20/10 09:00	
SVWC No.96	RTE1068-03	Water	05/19/10 12:14	05/20/10 09:00	
TRIP BLANK	RTE1068-15	Water	05/19/10	05/20/10 09:00	
TRIP BLANK	RTE1133-07	Water	05/20/10	05/21/10 08:30	

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: 1-OS (RTE1068-14 - Water)						**Sampled: 05/19/10 17:25**		**Recvd: 05/20/10 09:00**		
Purgeable Halocarbons by EPA Method 601										
1,1-Dichloroethane	ND		1.0	0.26	ug/L	1.00	05/25/10 23:32	DGB	10E1963	601
Vinyl chloride	ND		1.0	0.12	ug/L	1.00	05/25/10 23:32	DGB	10E1963	601
2-Bromochlorobenzene	*94 %*		*Surr Limits: (71-129%)*				*05/25/10 23:32*	*DGB*	*10E1963*	*601*
4-Bromofluorobenzene	*95 %*		*Surr Limits: (68-131%)*				*05/25/10 23:32*	*DGB*	*10E1963*	*601*
Bromochloromethane	*92 %*		*Surr Limits: (68-147%)*				*05/25/10 23:32*	*DGB*	*10E1963*	*601*
Purgeable Aromatics by EPA Method 602										
Benzene	ND		1.0	0.35	ug/L	1.00	05/25/10 23:32	DGB	10E1963	602
Chlorobenzene	ND		1.0	0.29	ug/L	1.00	05/25/10 23:32	DGB	10E1963	602
a,a,a-Trifluorotoluene	*84 %*		*Surr Limits: (72-132%)*				*05/25/10 23:32*	*DGB*	*10E1963*	*602*
Total Metals by EPA 200 Series Methods										
Antimony	**3.8**		3.0	NR	ug/L	1.00	05/24/10 17:40	AMH	10E1747	200.8
Thallium	ND		0.5	NR	ug/L	1.00	05/24/10 17:40	AMH	10E1747	200.8
Total Metals by SW 846 Series Methods										
Aluminum	**14.6**		0.200	0.045	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Arsenic	**0.0112**		0.0100	0.0056	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Barium	**0.192**	B	0.0020	0.0003	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Beryllium	**0.0007**	J	0.0020	0.0002	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Calcium	**91.0**		0.5	0.1	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Chromium	**1.99**		0.0040	0.0009	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Cobalt	**0.0276**		0.0040	0.0006	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Copper	**0.0576**		0.0100	0.0015	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Iron	**44.1**	B	0.050	0.019	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Lead	**0.0183**		0.0050	0.0030	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Magnesium	**22.6**		0.200	0.043	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Manganese	**14.8**	B	0.0030	0.0002	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Nickel	**0.527**		0.0100	0.0013	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Potassium	**6.39**		0.500	0.050	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Sodium	**111**		1.0	0.3	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Vanadium	**0.0419**		0.0050	0.0011	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Zinc	**0.0626**		0.0100	0.0017	mg/L	1.00	05/24/10 19:13	DAN	10E1745	6010B
Mercury	**0.0001**	J	0.0002	0.0001	mg/L	1.00	05/21/10 20:55	MXM	10E1712	7470A
General Chemistry Parameters										
Alkalinity, Total	**157**	D08, B	50.0	20.0	mg/L	5.00	05/21/10 11:24	RJF	10E1737	310.2
Chemical Oxygen Demand	**4.2**	J	10.0	2.5	mg/L	1.00	05/21/10 16:30	RMB	10E1767	410.4
Total Hardness	**350**		2.00	0.525	mg/L	1.00	05/27/10 13:30	LRM	10E2275	2340C
Total Kjeldahl Nitrogen	**1.16**		0.20	0.15	mg/L	1.00	05/26/10 12:03	KLD	10E2005	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: 2-0S (RTE1133-01 - Water)						**Sampled: 05/20/10 09:15**		**Recvd: 05/21/10 08:30**		
Purgeable Halocarbons by EPA Method 601										
1,1-Dichloroethane	ND		1.0	0.26	ug/L	1.00	05/27/10 10:31	tchro	10E2104	601
Vinyl chloride	**0.16**	J	1.0	0.12	ug/L	1.00	05/27/10 10:31	tchro	10E2104	601
2-Bromochlorobenzene	*140 %*	*Z1*	*Surr Limits: (71-129%)*				*05/27/10 10:31*	*tchro*	*10E2104*	*601*
4-Bromofluorobenzene	*136 %*	*Z1*	*Surr Limits: (68-131%)*				*05/27/10 10:31*	*tchro*	*10E2104*	*601*
Bromochloromethane	*137 %*		*Surr Limits: (68-147%)*				*05/27/10 10:31*	*tchro*	*10E2104*	*601*
Purgeable Aromatics by EPA Method 602										
Benzene	ND		1.0	0.35	ug/L	1.00	05/27/10 10:31	tchro	10E2104	602
Chlorobenzene	ND		1.0	0.29	ug/L	1.00	05/27/10 10:31	tchro	10E2104	602
a,a,a-Trifluorotoluene	*96 %*		*Surr Limits: (72-132%)*				*05/27/10 10:31*	*tchro*	*10E2104*	*602*
Total Metals by EPA 200 Series Methods										
Antimony	ND		3.0	NR	ug/L	1.00	05/25/10 21:20	AMH	10E1869	200.8
Thallium	ND		0.5	NR	ug/L	1.00	05/27/10 17:08	AMH	10E1869	200.8
Total Metals by SW 846 Series Methods										
Aluminum	**3.20**		0.200	0.045	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Arsenic	ND		0.0100	0.0056	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Barium	**0.0647**		0.0020	0.0003	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Beryllium	**0.0002**	J	0.0020	0.0002	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Calcium	**92.8**		0.5	0.1	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Chromium	**0.722**		0.0040	0.0009	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Cobalt	**0.0207**		0.0040	0.0006	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Copper	**0.0360**		0.0100	0.0015	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Iron	**22.7**		0.050	0.019	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Lead	**0.0049**	J	0.0050	0.0030	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Magnesium	**14.8**		0.200	0.043	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Manganese	**1.68**		0.0030	0.0002	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Nickel	**0.236**		0.0100	0.0013	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Potassium	**2.01**		0.500	0.050	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Sodium	**9.3**		1.0	0.3	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Vanadium	**0.0104**		0.0050	0.0011	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Zinc	**0.0143**		0.0100	0.0017	mg/L	1.00	05/25/10 05:24	DAN	10E1866	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	05/24/10 23:15	MXM	10E1850	7470A
General Chemistry Parameters										
Alkalinity, Total	**267**	D08, B	100	40.0	mg/L	10.0	05/27/10 10:28	RJF	10E2261	310.2
Chemical Oxygen Demand	**17.7**		10.0	2.5	mg/L	1.00	05/22/10 12:00	RMB	10E1805	410.4
Total Hardness	**350**		2.00	0.525	mg/L	1.00	05/27/10 13:30	LRM	10E2275	2340C
Total Kjeldahl Nitrogen	**0.59**		0.20	0.15	mg/L	1.00	05/26/10 12:09	KLD	10E2005	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: 3OS/I (RTE1068-10 - Water)						**Sampled: 05/19/10 16:40**		**Recvd: 05/20/10 09:00**		
Purgeable Halocarbons by EPA Method 601										
1,1-Dichloroethane	ND		1.0	0.26	ug/L	1.00	05/25/10 20:55	DGB	10E1963	601
Vinyl chloride	ND		1.0	0.12	ug/L	1.00	05/25/10 20:55	DGB	10E1963	601
2-Bromochlorobenzene	*95 %*		*Surr Limits: (71-129%)*				*05/25/10 20:55*	*DGB*	*10E1963*	*601*
4-Bromofluorobenzene	*99 %*		*Surr Limits: (68-131%)*				*05/25/10 20:55*	*DGB*	*10E1963*	*601*
Bromochloromethane	*96 %*		*Surr Limits: (68-147%)*				*05/25/10 20:55*	*DGB*	*10E1963*	*601*
Purgeable Aromatics by EPA Method 602										
Benzene	ND		1.0	0.35	ug/L	1.00	05/25/10 20:55	DGB	10E1963	602
Chlorobenzene	ND		1.0	0.29	ug/L	1.00	05/25/10 20:55	DGB	10E1963	602
a,a,a-Trifluorotoluene	*87 %*		*Surr Limits: (72-132%)*				*05/25/10 20:55*	*DGB*	*10E1963*	*602*
Total Metals by EPA 200 Series Methods										
Antimony	ND		3.0	NR	ug/L	1.00	05/24/10 17:11	AMH	10E1747	200.8
Thallium	ND		0.5	NR	ug/L	1.00	05/24/10 17:11	AMH	10E1747	200.8
Total Metals by SW 846 Series Methods										
Aluminum	**0.629**		0.200	0.045	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Arsenic	ND		0.0100	0.0056	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Barium	**0.0308**	B	0.0020	0.0003	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Beryllium	ND		0.0020	0.0002	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Calcium	**96.6**		0.5	0.1	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Chromium	**2.57**		0.0040	0.0009	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Cobalt	**0.0161**		0.0040	0.0006	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Copper	**0.0211**		0.0100	0.0015	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Iron	**24.0**	B	0.050	0.019	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Magnesium	**11.2**		0.200	0.043	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Manganese	**2.46**	B	0.0030	0.0002	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Nickel	**0.492**		0.0100	0.0013	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Potassium	**3.04**		0.500	0.050	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Sodium	**36.9**		1.0	0.3	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Vanadium	**0.0076**		0.0050	0.0011	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Zinc	ND		0.0100	0.0017	mg/L	1.00	05/24/10 18:53	DAN	10E1745	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	05/21/10 20:44	MXM	10E1712	7470A
General Chemistry Parameters										
Alkalinity, Total	**322**	D08, B	50.0	20.0	mg/L	5.00	05/21/10 11:24	RJF	10E1737	310.2
Chemical Oxygen Demand	ND		10.0	2.5	mg/L	1.00	05/21/10 16:30	RMB	10E1889	410.4
Total Hardness	**296**	D08	20.0	5.25	mg/L	10.0	05/22/10 10:09	JME	10E1804	2340C
Total Kjeldahl Nitrogen	**0.56**		0.20	0.15	mg/L	1.00	05/26/10 12:36	KLD	10E2005	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: 4-0S (RTE1133-04 - Water)						**Sampled: 05/20/10 10:00**		**Recvd: 05/21/10 08:30**		
Purgeable Halocarbons by EPA Method 601										
1,1-Dichloroethane	ND		1.0	0.26	ug/L	1.00	05/25/10 14:07	tchro	10E1976	601
Vinyl chloride	ND		1.0	0.12	ug/L	1.00	05/25/10 14:07	tchro	10E1976	601
2-Bromochlorobenzene	*139 %*	*Z1*	*Surr Limits: (71-129%)*				*05/25/10 14:07*	*tchro*	*10E1976*	*601*
4-Bromofluorobenzene	*134 %*	*Z1*	*Surr Limits: (68-131%)*				*05/25/10 14:07*	*tchro*	*10E1976*	*601*
Bromochloromethane	*141 %*		*Surr Limits: (68-147%)*				*05/25/10 14:07*	*tchro*	*10E1976*	*601*
Purgeable Aromatics by EPA Method 602										
Benzene	ND		1.0	0.35	ug/L	1.00	05/25/10 14:07	tchro	10E1976	602
Chlorobenzene	ND		1.0	0.29	ug/L	1.00	05/25/10 14:07	tchro	10E1976	602
a,a,a-Trifluorotoluene	*107 %*		*Surr Limits: (72-132%)*				*05/25/10 14:07*	*tchro*	*10E1976*	*602*
Total Metals by EPA 200 Series Methods										
Antimony	ND		3.0	NR	ug/L	1.00	05/25/10 23:04	AMH	10E1869	200.8
Thallium	ND		0.5	NR	ug/L	1.00	05/26/10 16:00	AMH	10E1869	200.8
Total Metals by SW 846 Series Methods										
Aluminum	**2.35**		0.200	0.045	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Arsenic	ND		0.0100	0.0056	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Barium	**0.0376**		0.0020	0.0003	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Beryllium	**0.0002**	J	0.0020	0.0002	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Calcium	**33.9**		0.5	0.1	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Chromium	**0.522**		0.0040	0.0009	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Cobalt	**0.0020**	J	0.0040	0.0006	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Copper	**0.0074**	J	0.0100	0.0015	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Iron	**6.83**		0.050	0.019	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Magnesium	**15.0**		0.200	0.043	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Manganese	**0.223**		0.0030	0.0002	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Nickel	**0.0615**		0.0100	0.0013	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Potassium	**1.63**		0.500	0.050	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Sodium	**47.9**		1.0	0.3	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Vanadium	**0.0063**		0.0050	0.0011	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Zinc	**0.0091**	J	0.0100	0.0017	mg/L	1.00	05/25/10 06:02	DAN	10E1866	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	05/24/10 23:26	MXM	10E1850	7470A
General Chemistry Parameters										
Alkalinity, Total	**53.1**	B	10.0	4.0	mg/L	1.00	05/27/10 18:49	JFR	10E2299	310.2
Chemical Oxygen Demand	ND		10.0	2.5	mg/L	1.00	05/22/10 12:00	RMB	10E1805	410.4
Total Hardness	**150**		2.00	0.525	mg/L	1.00	05/27/10 13:30	LRM	10E2275	2340C
Total Kjeldahl Nitrogen	**0.20**		0.20	0.15	mg/L	1.00	05/26/10 12:16	KLD	10E2005	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: 5-0S (RTE1133-05 - Water)						**Sampled: 05/20/10 12:15**		**Recvd: 05/21/10 08:30**		
Purgeable Halocarbons by EPA Method 601										
1,1-Dichloroethane	ND		1.0	0.26	ug/L	1.00	05/25/10 14:45	tchro	10E1976	601
Vinyl chloride	ND		1.0	0.12	ug/L	1.00	05/25/10 14:45	tchro	10E1976	601
2-Bromochlorobenzene	*138 %*	*Z1*	*Surr Limits: (71-129%)*				*05/25/10 14:45*	*tchro*	*10E1976*	*601*
4-Bromofluorobenzene	*128 %*		*Surr Limits: (68-131%)*				*05/25/10 14:45*	*tchro*	*10E1976*	*601*
Bromochloromethane	*141 %*		*Surr Limits: (68-147%)*				*05/25/10 14:45*	*tchro*	*10E1976*	*601*
Purgeable Aromatics by EPA Method 602										
Benzene	ND		1.0	0.35	ug/L	1.00	05/25/10 14:45	tchro	10E1976	602
Chlorobenzene	ND		1.0	0.29	ug/L	1.00	05/25/10 14:45	tchro	10E1976	602
a,a,a-Trifluorotoluene	*106 %*		*Surr Limits: (72-132%)*				*05/25/10 14:45*	*tchro*	*10E1976*	*602*
Total Metals by EPA 200 Series Methods										
Antimony	ND	D14	5.0	NR	ug/L	5.00	05/25/10 23:08	AMH	10E1869	200.8
Thallium	ND	D14	2.5	NR	ug/L	5.00	05/26/10 16:05	AMH	10E1869	200.8
Total Metals by SW 846 Series Methods										
Aluminum	**115**		0.200	0.045	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Arsenic	**0.0155**		0.0100	0.0056	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Barium	**0.536**		0.0020	0.0003	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Beryllium	**0.0055**		0.0020	0.0002	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Cadmium	ND	D02	0.0050	0.0016	mg/L	5.00	05/25/10 11:45	DAN	10E1866	6010B
Calcium	**34.1**		0.5	0.1	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Chromium	**0.278**		0.0040	0.0009	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Cobalt	**0.0800**		0.0040	0.0006	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Copper	**0.202**		0.0100	0.0015	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Iron	**176**		0.050	0.019	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Lead	**0.0233**		0.0050	0.0030	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Magnesium	**36.5**		0.200	0.043	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Manganese	**2.23**		0.0030	0.0002	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Nickel	**0.147**		0.0100	0.0013	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Potassium	**18.3**		0.500	0.050	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Silver	**0.0019**	J	0.0030	0.0012	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Sodium	**8.0**		1.0	0.3	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Vanadium	**0.279**		0.0050	0.0011	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Zinc	**0.236**		0.0100	0.0017	mg/L	1.00	05/25/10 06:07	DAN	10E1866	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	05/24/10 23:28	MXM	10E1850	7470A
General Chemistry Parameters										
Alkalinity, Total	**23.1**	B	10.0	4.0	mg/L	1.00	05/27/10 18:50	JFR	10E2299	310.2
Chemical Oxygen Demand	ND		10.0	2.5	mg/L	1.00	05/22/10 12:00	RMB	10E1805	410.4
Total Hardness	**102**	D08	20.0	5.25	mg/L	10.0	05/25/10 13:57	KLD	10E1998	2340C
Total Kjeldahl Nitrogen	**0.22**		0.20	0.15	mg/L	1.00	05/26/10 12:16	KLD	10E2005	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: 7-OS (RTE1068-07 - Water)						**Sampled: 05/19/10 13:15**		**Recvd: 05/20/10 09:00**		
Purgeable Halocarbons by EPA Method 601										
1,1-Dichloroethane	ND		1.0	0.26	ug/L	1.00	05/25/10 16:20	DGB	10E1956	601
Vinyl chloride	ND		1.0	0.12	ug/L	1.00	05/25/10 16:20	DGB	10E1956	601
2-Bromochlorobenzene	*101 %*		*Surr Limits: (71-129%)*				*05/25/10 16:20*	*DGB*	*10E1956*	*601*
4-Bromofluorobenzene	*103 %*		*Surr Limits: (68-131%)*				*05/25/10 16:20*	*DGB*	*10E1956*	*601*
Bromochloromethane	*98 %*		*Surr Limits: (68-147%)*				*05/25/10 16:20*	*DGB*	*10E1956*	*601*
Purgeable Aromatics by EPA Method 602										
Benzene	ND		1.0	0.35	ug/L	1.00	05/25/10 16:20	DGB	10E1956	602
Chlorobenzene	ND		1.0	0.29	ug/L	1.00	05/25/10 16:20	DGB	10E1956	602
a,a,a-Trifluorotoluene	*86 %*		*Surr Limits: (72-132%)*				*05/25/10 16:20*	*DGB*	*10E1956*	*602*
Total Metals by EPA 200 Series Methods										
Antimony	ND		3.0	NR	ug/L	1.00	05/24/10 16:57	AMH	10E1747	200.8
Thallium	ND		0.5	NR	ug/L	1.00	05/24/10 16:57	AMH	10E1747	200.8
Total Metals by SW 846 Series Methods										
Aluminum	**15.0**		0.200	0.045	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Arsenic	ND		0.0100	0.0056	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Barium	**0.133**	B	0.0020	0.0003	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Beryllium	**0.0007**	J	0.0020	0.0002	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Calcium	**49.4**		0.5	0.1	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Chromium	**0.158**		0.0040	0.0009	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Cobalt	**0.0158**		0.0040	0.0006	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Copper	**0.0309**		0.0100	0.0015	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Iron	**19.3**	B	0.050	0.019	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Lead	**0.0060**		0.0050	0.0030	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Magnesium	**13.5**		0.200	0.043	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Manganese	**1.71**	B	0.0030	0.0002	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Nickel	**0.0285**		0.0100	0.0013	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Potassium	**6.50**		0.500	0.050	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Sodium	**11.7**		1.0	0.3	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Vanadium	**0.0280**		0.0050	0.0011	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Zinc	**0.0363**		0.0100	0.0017	mg/L	1.00	05/24/10 18:38	DAN	10E1745	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	05/21/10 20:38	MXM	10E1712	7470A
General Chemistry Parameters										
Alkalinity, Total	**133**	D08, B	50.0	20.0	mg/L	5.00	05/21/10 11:24	RJF	10E1737	310.2
Chemical Oxygen Demand	ND		10.0	2.5	mg/L	1.00	05/21/10 16:30	RMB	10E1889	410.4
Total Hardness	**154**	D08	4.00	1.05	mg/L	2.00	05/22/10 10:09	JME	10E1804	2340C
Total Kjeldahl Nitrogen	**0.26**		0.20	0.15	mg/L	1.00	05/24/10 10:27	JME	10E1702	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: 8-I (RTE1068-04 - Water)						**Sampled: 05/19/10 14:20**		**Recvd: 05/20/10 09:00**		
Purgeable Halocarbons by EPA Method 601										
1,1-Dichloroethane	ND		1.0	0.26	ug/L	1.00	05/25/10 14:21	DGB	10E1956	601
Vinyl chloride	**0.37**	J	1.0	0.12	ug/L	1.00	05/25/10 14:21	DGB	10E1956	601
2-Bromochlorobenzene	*97 %*		*Surr Limits: (71-129%)*				*05/25/10 14:21*	*DGB*	*10E1956*	*601*
4-Bromofluorobenzene	*102 %*		*Surr Limits: (68-131%)*				*05/25/10 14:21*	*DGB*	*10E1956*	*601*
Bromochloromethane	*97 %*		*Surr Limits: (68-147%)*				*05/25/10 14:21*	*DGB*	*10E1956*	*601*
Purgeable Aromatics by EPA Method 602										
Benzene	ND		1.0	0.35	ug/L	1.00	05/25/10 14:21	DGB	10E1956	602
Chlorobenzene	ND		1.0	0.29	ug/L	1.00	05/25/10 14:21	DGB	10E1956	602
a,a,a-Trifluorotoluene	*84 %*		*Surr Limits: (72-132%)*				*05/25/10 14:21*	*DGB*	*10E1956*	*602*
Total Metals by EPA 200 Series Methods										
Antimony	ND		3.0	NR	ug/L	1.00	05/24/10 16:15	AMH	10E1747	200.8
Thallium	ND		0.5	NR	ug/L	1.00	05/24/10 16:15	AMH	10E1747	200.8
Total Metals by SW 846 Series Methods										
Aluminum	**5.97**		0.200	0.045	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Arsenic	**0.0101**		0.0100	0.0056	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Barium	**0.0878**	B	0.0020	0.0003	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Beryllium	**0.0004**	J	0.0020	0.0002	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Calcium	**83.8**		0.5	0.1	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Chromium	**0.0140**		0.0040	0.0009	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Cobalt	**0.0083**		0.0040	0.0006	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Copper	**0.0124**		0.0100	0.0015	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Iron	**27.0**	B	0.050	0.019	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Magnesium	**23.6**		0.200	0.043	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Manganese	**4.59**	B	0.0030	0.0002	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Nickel	**0.0137**		0.0100	0.0013	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Potassium	**18.8**		0.500	0.050	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Sodium	**75.6**		1.0	0.3	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Vanadium	**0.0118**		0.0050	0.0011	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Zinc	**0.0143**		0.0100	0.0017	mg/L	1.00	05/24/10 18:11	DAN	10E1745	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	05/21/10 20:33	MXM	10E1712	7470A
General Chemistry Parameters										
Alkalinity, Total	**219**	D08, B	50.0	20.0	mg/L	5.00	05/21/10 11:22	RJF	10E1737	310.2
Chemical Oxygen Demand	ND		10.0	2.5	mg/L	1.00	05/25/10 17:20	MDM	10E2016	410.4
Total Hardness	**340**		2.00	0.525	mg/L	1.00	05/27/10 13:30	LRM	10E2275	2340C
Total Kjeldahl Nitrogen	**6.63**	D08	0.40	0.30	mg/L	2.00	05/24/10 11:34	JME	10E1702	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: 8-OS (RTE1068-05 - Water)						**Sampled: 05/19/10 14:05**		**Recvd: 05/20/10 09:00**		
Purgeable Halocarbons by EPA Method 601										
1,1-Dichloroethane	ND		1.0	0.26	ug/L	1.00	05/25/10 15:01	DGB	10E1956	601
Vinyl chloride	ND		1.0	0.12	ug/L	1.00	05/25/10 15:01	DGB	10E1956	601
2-Bromochlorobenzene	*97 %*		*Surr Limits: (71-129%)*				*05/25/10 15:01*	*DGB*	*10E1956*	*601*
4-Bromofluorobenzene	*101 %*		*Surr Limits: (68-131%)*				*05/25/10 15:01*	*DGB*	*10E1956*	*601*
Bromochloromethane	*96 %*		*Surr Limits: (68-147%)*				*05/25/10 15:01*	*DGB*	*10E1956*	*601*
Purgeable Aromatics by EPA Method 602										
Benzene	ND		1.0	0.35	ug/L	1.00	05/25/10 15:01	DGB	10E1956	602
Chlorobenzene	ND		1.0	0.29	ug/L	1.00	05/25/10 15:01	DGB	10E1956	602
a,a,a-Trifluorotoluene	*84 %*		*Surr Limits: (72-132%)*				*05/25/10 15:01*	*DGB*	*10E1956*	*602*
Total Metals by EPA 200 Series Methods										
Antimony	ND		3.0	NR	ug/L	1.00	05/24/10 16:29	AMH	10E1747	200.8
Thallium	ND		0.5	NR	ug/L	1.00	05/24/10 16:29	AMH	10E1747	200.8
Total Metals by SW 846 Series Methods										
Aluminum	ND		0.200	0.045	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Arsenic	ND		0.0100	0.0056	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Barium	**0.0107**	B	0.0020	0.0003	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Beryllium	ND		0.0020	0.0002	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Calcium	**25.3**		0.5	0.1	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Chromium	**0.152**		0.0040	0.0009	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Cobalt	ND		0.0040	0.0006	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Copper	**0.0017**	J	0.0100	0.0015	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Iron	**1.07**	B	0.050	0.019	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Magnesium	**5.77**		0.200	0.043	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Manganese	**0.399**	B	0.0030	0.0002	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Nickel	**0.0103**		0.0100	0.0013	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Potassium	**1.39**		0.500	0.050	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Sodium	**30.7**		1.0	0.3	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Vanadium	ND		0.0050	0.0011	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Zinc	**0.0019**	J	0.0100	0.0017	mg/L	1.00	05/24/10 18:28	DAN	10E1745	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	05/21/10 20:34	MXM	10E1712	7470A
General Chemistry Parameters										
Alkalinity, Total	**75.8**	B	10.0	4.0	mg/L	1.00	05/21/10 11:09	RJF	10E1735	310.2
Chemical Oxygen Demand	ND		10.0	2.5	mg/L	1.00	05/21/10 16:30	RMB	10E1889	410.4
Total Hardness	**82.0**		2.00	0.525	mg/L	1.00	05/22/10 10:09	JME	10E1804	2340C
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L	1.00	05/24/10 10:27	JME	10E1702	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: 8-R (RTE1068-06 - Water)						**Sampled: 05/19/10 14:40**		**Recvd: 05/20/10 09:00**		
Purgeable Halocarbons by EPA Method 601										
1,1-Dichloroethane	ND		1.0	0.26	ug/L	1.00	05/25/10 15:40	DGB	10E1956	601
Vinyl chloride	**2.2**		1.0	0.12	ug/L	1.00	05/25/10 15:40	DGB	10E1956	601
2-Bromochlorobenzene	*99 %*		*Surr Limits: (71-129%)*				*05/25/10 15:40*	*DGB*	*10E1956*	*601*
4-Bromofluorobenzene	*100 %*		*Surr Limits: (68-131%)*				*05/25/10 15:40*	*DGB*	*10E1956*	*601*
Bromochloromethane	*92 %*		*Surr Limits: (68-147%)*				*05/25/10 15:40*	*DGB*	*10E1956*	*601*
Purgeable Aromatics by EPA Method 602										
Benzene	ND		1.0	0.35	ug/L	1.00	05/25/10 15:40	DGB	10E1956	602
Chlorobenzene	ND		1.0	0.29	ug/L	1.00	05/25/10 15:40	DGB	10E1956	602
a,a,a-Trifluorotoluene	*82 %*		*Surr Limits: (72-132%)*				*05/25/10 15:40*	*DGB*	*10E1956*	*602*
Total Metals by EPA 200 Series Methods										
Antimony	ND		3.0	NR	ug/L	1.00	05/24/10 16:53	AMH	10E1747	200.8
Thallium	ND		0.5	NR	ug/L	1.00	05/24/10 16:53	AMH	10E1747	200.8
Total Metals by SW 846 Series Methods										
Aluminum	ND		0.200	0.045	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Arsenic	ND		0.0100	0.0056	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Barium	**0.0151**	B	0.0020	0.0003	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Beryllium	ND		0.0020	0.0002	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Calcium	**156**		0.5	0.1	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Chromium	ND		0.0040	0.0009	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Cobalt	**0.0098**		0.0040	0.0006	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Copper	ND		0.0100	0.0015	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Iron	**0.563**	B	0.050	0.019	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Magnesium	**40.7**		0.200	0.043	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Manganese	**1.96**	B	0.0030	0.0002	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Nickel	**0.0106**		0.0100	0.0013	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Potassium	**4.07**		0.500	0.050	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Sodium	**41.4**		1.0	0.3	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Vanadium	ND		0.0050	0.0011	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Zinc	ND		0.0100	0.0017	mg/L	1.00	05/24/10 18:33	DAN	10E1745	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	05/21/10 20:36	MXM	10E1712	7470A
General Chemistry Parameters										
Alkalinity, Total	**571**	D08, B	100	40.0	mg/L	10.0	05/21/10 12:02	RJF	10E1738	310.2
Chemical Oxygen Demand	**6.7**	J	10.0	2.5	mg/L	1.00	05/21/10 16:30	RMB	10E1889	410.4
Total Hardness	**525**		2.00	0.525	mg/L	1.00	05/22/10 10:09	JME	10E1804	2340C
Total Kjeldahl Nitrogen	**2.99**		0.20	0.15	mg/L	1.00	05/24/10 10:27	JME	10E1702	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: 9-I (RTE1068-11 - Water)						**Sampled: 05/19/10 15:50**		**Recvd: 05/20/10 09:00**		
Purgeable Halocarbons by EPA Method 601										
1,1-Dichloroethane	ND		1.0	0.26	ug/L	1.00	05/25/10 21:34	DGB	10E1963	601
Vinyl chloride	ND		1.0	0.12	ug/L	1.00	05/25/10 21:34	DGB	10E1963	601
2-Bromochlorobenzene	*99 %*		*Surr Limits: (71-129%)*				*05/25/10 21:34*	*DGB*	*10E1963*	*601*
4-Bromofluorobenzene	*102 %*		*Surr Limits: (68-131%)*				*05/25/10 21:34*	*DGB*	*10E1963*	*601*
Bromochloromethane	*98 %*		*Surr Limits: (68-147%)*				*05/25/10 21:34*	*DGB*	*10E1963*	*601*
Purgeable Aromatics by EPA Method 602										
Benzene	ND		1.0	0.35	ug/L	1.00	05/25/10 21:34	DGB	10E1963	602
Chlorobenzene	ND		1.0	0.29	ug/L	1.00	05/25/10 21:34	DGB	10E1963	602
a,a,a-Trifluorotoluene	*87 %*		*Surr Limits: (72-132%)*				*05/25/10 21:34*	*DGB*	*10E1963*	*602*
Total Metals by EPA 200 Series Methods										
Antimony	ND		3.0	NR	ug/L	1.00	05/24/10 17:26	AMH	10E1747	200.8
Thallium	ND		0.5	NR	ug/L	1.00	05/24/10 17:26	AMH	10E1747	200.8
Total Metals by SW 846 Series Methods										
Aluminum	**18.3**		0.200	0.045	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Arsenic	ND		0.0100	0.0056	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Barium	**0.159**	B	0.0020	0.0003	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Beryllium	**0.0009**	J	0.0020	0.0002	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Calcium	**10.2**		0.5	0.1	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Chromium	**0.0539**		0.0040	0.0009	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Cobalt	**0.0143**		0.0040	0.0006	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Copper	**0.0330**		0.0100	0.0015	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Iron	**30.3**	B	0.050	0.019	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Lead	**0.0036**	J	0.0050	0.0030	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Magnesium	**6.30**		0.200	0.043	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Manganese	**0.392**	B	0.0030	0.0002	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Nickel	**0.0234**		0.0100	0.0013	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Potassium	**5.44**		0.500	0.050	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Sodium	**14.2**		1.0	0.3	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Vanadium	**0.0326**		0.0050	0.0011	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Zinc	**0.0386**		0.0100	0.0017	mg/L	1.00	05/24/10 18:58	DAN	10E1745	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	05/21/10 20:46	MXM	10E1712	7470A
General Chemistry Parameters										
Alkalinity, Total	**8.3**	J, B	10.0	4.0	mg/L	1.00	05/21/10 11:10	RJF	10E1737	310.2
Chemical Oxygen Demand	ND		10.0	2.5	mg/L	1.00	05/21/10 16:30	RMB	10E1767	410.4
Total Hardness	**26.2**	D08	4.00	1.05	mg/L	2.00	05/22/10 10:09	JME	10E1804	2340C
Total Kjeldahl Nitrogen	**0.16**	J	0.20	0.15	mg/L	1.00	05/26/10 12:36	KLD	10E2005	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: 9-OS (RTE1068-13 - Water)						**Sampled: 05/19/10 15:25**		**Recvd: 05/20/10 09:00**		
Purgeable Halocarbons by EPA Method 601										
1,1-Dichloroethane	ND		1.0	0.26	ug/L	1.00	05/25/10 22:53	DGB	10E1963	601
Vinyl chloride	ND		1.0	0.12	ug/L	1.00	05/25/10 22:53	DGB	10E1963	601
2-Bromochlorobenzene	*95 %*		*Surr Limits: (71-129%)*				*05/25/10 22:53*	*DGB*	*10E1963*	*601*
4-Bromofluorobenzene	*102 %*		*Surr Limits: (68-131%)*				*05/25/10 22:53*	*DGB*	*10E1963*	*601*
Bromochloromethane	*93 %*		*Surr Limits: (68-147%)*				*05/25/10 22:53*	*DGB*	*10E1963*	*601*
Purgeable Aromatics by EPA Method 602										
Benzene	ND		1.0	0.35	ug/L	1.00	05/25/10 22:53	DGB	10E1963	602
Chlorobenzene	ND		1.0	0.29	ug/L	1.00	05/25/10 22:53	DGB	10E1963	602
a,a,a-Trifluorotoluene	*86 %*		*Surr Limits: (72-132%)*				*05/25/10 22:53*	*DGB*	*10E1963*	*602*
Total Metals by EPA 200 Series Methods										
Antimony	ND		3.0	NR	ug/L	1.00	05/24/10 17:35	AMH	10E1747	200.8
Thallium	ND		0.5	NR	ug/L	1.00	05/24/10 17:35	AMH	10E1747	200.8
Total Metals by SW 846 Series Methods										
Aluminum	**2.43**		0.200	0.045	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Arsenic	ND		0.0100	0.0056	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Barium	**0.0229**	B	0.0020	0.0003	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Beryllium	ND		0.0020	0.0002	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Calcium	**8.6**		0.5	0.1	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Chromium	**0.176**		0.0040	0.0009	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Cobalt	**0.0016**	J	0.0040	0.0006	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Copper	**0.0072**	J	0.0100	0.0015	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Iron	**4.64**	B	0.050	0.019	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Magnesium	**2.49**		0.200	0.043	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Manganese	**0.0901**	B	0.0030	0.0002	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Nickel	**0.0134**		0.0100	0.0013	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Potassium	**1.80**		0.500	0.050	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Sodium	**8.2**		1.0	0.3	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Vanadium	**0.0059**		0.0050	0.0011	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Zinc	**0.0116**		0.0100	0.0017	mg/L	1.00	05/24/10 19:08	DAN	10E1745	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	05/21/10 20:53	MXM	10E1712	7470A
General Chemistry Parameters										
Alkalinity, Total	**12.3**	B	10.0	4.0	mg/L	1.00	05/21/10 11:10	RJF	10E1737	310.2
Chemical Oxygen Demand	**24.3**		10.0	2.5	mg/L	1.00	05/21/10 16:30	RMB	10E1767	410.4
Total Hardness	**30.4**		2.00	0.525	mg/L	1.00	05/22/10 10:09	JME	10E1804	2340C
Total Kjeldahl Nitrogen	**1.38**		0.20	0.15	mg/L	1.00	05/26/10 12:03	KLD	10E2005	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: 9-R (RTE1068-12 - Water)						**Sampled: 05/19/10 15:40**		**Recvd: 05/20/10 09:00**		
Purgeable Halocarbons by EPA Method 601										
1,1-Dichloroethane	ND		1.0	0.26	ug/L	1.00	05/25/10 22:13	DGB	10E1963	601
Vinyl chloride	**0.19**	J	1.0	0.12	ug/L	1.00	05/25/10 22:13	DGB	10E1963	601
2-Bromochlorobenzene	*96 %*		*Surr Limits: (71-129%)*				*05/25/10 22:13*	*DGB*	*10E1963*	*601*
4-Bromofluorobenzene	*100 %*		*Surr Limits: (68-131%)*				*05/25/10 22:13*	*DGB*	*10E1963*	*601*
Bromochloromethane	*95 %*		*Surr Limits: (68-147%)*				*05/25/10 22:13*	*DGB*	*10E1963*	*601*
Purgeable Aromatics by EPA Method 602										
Benzene	ND		1.0	0.35	ug/L	1.00	05/25/10 22:13	DGB	10E1963	602
Chlorobenzene	ND		1.0	0.29	ug/L	1.00	05/25/10 22:13	DGB	10E1963	602
a,a,a-Trifluorotoluene	*87 %*		*Surr Limits: (72-132%)*				*05/25/10 22:13*	*DGB*	*10E1963*	*602*
Total Metals by EPA 200 Series Methods										
Antimony	ND		3.0	NR	ug/L	1.00	05/24/10 17:31	AMH	10E1747	200.8
Thallium	ND		0.5	NR	ug/L	1.00	05/24/10 17:31	AMH	10E1747	200.8
Total Metals by SW 846 Series Methods										
Aluminum	**0.495**		0.200	0.045	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Arsenic	**0.0084**	J	0.0100	0.0056	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Barium	**0.0374**	B	0.0020	0.0003	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Beryllium	ND		0.0020	0.0002	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Calcium	**47.3**		0.5	0.1	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Chromium	**0.0025**	J	0.0040	0.0009	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Cobalt	**0.0037**	J	0.0040	0.0006	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Copper	ND		0.0100	0.0015	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Iron	**12.5**	B	0.050	0.019	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Magnesium	**13.7**		0.200	0.043	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Manganese	**4.03**	B	0.0030	0.0002	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Nickel	**0.0034**	J	0.0100	0.0013	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Potassium	**13.1**		0.500	0.050	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Sodium	**59.3**		1.0	0.3	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Vanadium	**0.0014**	J	0.0050	0.0011	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Zinc	ND		0.0100	0.0017	mg/L	1.00	05/24/10 19:03	DAN	10E1745	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	05/21/10 20:48	MXM	10E1712	7470A
General Chemistry Parameters										
Alkalinity, Total	**159**	D08, B	50.0	20.0	mg/L	5.00	05/21/10 11:24	RJF	10E1737	310.2
Chemical Oxygen Demand	**7.0**	J	10.0	2.5	mg/L	1.00	05/21/10 16:30	RMB	10E1767	410.4
Total Hardness	**350**		2.00	0.525	mg/L	1.00	05/27/10 13:30	LRM	10E2275	2340C
Total Kjeldahl Nitrogen	**6.23**	D08	0.40	0.30	mg/L	2.00	05/26/10 12:49	KLD	10E2005	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: DUPLICATE (RTE1133-06 - Water)						**Sampled: 05/20/10 09:30**		**Recvd: 05/21/10 08:30**		
Purgeable Halocarbons by EPA Method 601										
1,1-Dichloroethane	ND		1.0	0.26	ug/L	1.00	05/25/10 15:22	tchro	10E1976	601
Vinyl chloride	ND		1.0	0.12	ug/L	1.00	05/25/10 15:22	tchro	10E1976	601
2-Bromochlorobenzene	*140 %*	*Z1*	*Surr Limits: (71-129%)*				*05/25/10 15:22*	*tchro*	*10E1976*	*601*
4-Bromofluorobenzene	*131 %*		*Surr Limits: (68-131%)*				*05/25/10 15:22*	*tchro*	*10E1976*	*601*
Bromochloromethane	*146 %*		*Surr Limits: (68-147%)*				*05/25/10 15:22*	*tchro*	*10E1976*	*601*
Purgeable Aromatics by EPA Method 602										
Benzene	ND		1.0	0.35	ug/L	1.00	05/25/10 15:22	tchro	10E1976	602
Chlorobenzene	ND		1.0	0.29	ug/L	1.00	05/25/10 15:22	tchro	10E1976	602
a,a,a-Trifluorotoluene	*106 %*		*Surr Limits: (72-132%)*				*05/25/10 15:22*	*tchro*	*10E1976*	*602*
Total Metals by EPA 200 Series Methods										
Antimony	ND		3.0	NR	ug/L	1.00	05/25/10 23:13	AMH	10E1869	200.8
Thallium	ND		0.5	NR	ug/L	1.00	05/26/10 16:09	AMH	10E1869	200.8
Total Metals by SW 846 Series Methods										
Aluminum	**2.29**		0.200	0.045	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Arsenic	ND		0.0100	0.0056	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Barium	**0.0329**		0.0020	0.0003	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Beryllium	**0.0002**	J	0.0020	0.0002	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Calcium	**89.8**		0.5	0.1	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Chromium	**0.146**		0.0040	0.0009	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Cobalt	**0.0052**		0.0040	0.0006	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Copper	**0.0110**		0.0100	0.0015	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Iron	**5.51**		0.050	0.019	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Magnesium	**14.2**		0.200	0.043	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Manganese	**0.425**		0.0030	0.0002	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Nickel	**0.0559**		0.0100	0.0013	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Potassium	**1.78**		0.500	0.050	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Sodium	**9.2**		1.0	0.3	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Vanadium	**0.0045**	J	0.0050	0.0011	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Zinc	**0.0079**	J	0.0100	0.0017	mg/L	1.00	05/25/10 06:12	DAN	10E1866	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	05/24/10 23:30	MXM	10E1850	7470A
General Chemistry Parameters										
Alkalinity, Total	**300**	D08, B	50.0	20.0	mg/L	5.00	05/27/10 19:19	JFR	10E2299	310.2
Chemical Oxygen Demand	ND		10.0	2.5	mg/L	1.00	05/22/10 12:00	RMB	10E1805	410.4
Total Hardness	**280**		2.00	0.525	mg/L	1.00	05/27/10 13:30	LRM	10E2275	2340C
Total Kjeldahl Nitrogen	**0.34**		0.20	0.15	mg/L	1.00	05/26/10 12:16	KLD	10E2005	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: PW-1 (RTE1068-08 - Water)						**Sampled: 05/19/10 16:00**		**Recvd: 05/20/10 09:00**		
Purgeable Halocarbons by EPA Method 601										
1,1-Dichloroethane	ND		1.0	0.26	ug/L	1.00	05/25/10 19:36	DGB	10E1963	601
Vinyl chloride	ND		1.0	0.12	ug/L	1.00	05/25/10 19:36	DGB	10E1963	601
2-Bromochlorobenzene	*95 %*		*Surr Limits: (71-129%)*				*05/25/10 19:36*	*DGB*	*10E1963*	*601*
4-Bromofluorobenzene	*100 %*		*Surr Limits: (68-131%)*				*05/25/10 19:36*	*DGB*	*10E1963*	*601*
Bromochloromethane	*95 %*		*Surr Limits: (68-147%)*				*05/25/10 19:36*	*DGB*	*10E1963*	*601*
Purgeable Aromatics by EPA Method 602										
Benzene	ND		1.0	0.35	ug/L	1.00	05/25/10 19:36	DGB	10E1963	602
Chlorobenzene	ND		1.0	0.29	ug/L	1.00	05/25/10 19:36	DGB	10E1963	602
a,a,a-Trifluorotoluene	*85 %*		*Surr Limits: (72-132%)*				*05/25/10 19:36*	*DGB*	*10E1963*	*602*
Total Metals by EPA 200 Series Methods										
Antimony	ND		3.0	NR	ug/L	1.00	05/24/10 17:02	AMH	10E1747	200.8
Thallium	ND		0.5	NR	ug/L	1.00	05/24/10 17:02	AMH	10E1747	200.8
Total Metals by SW 846 Series Methods										
Aluminum	ND		0.200	0.045	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Arsenic	ND		0.0100	0.0056	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Barium	**0.0102**	B	0.0020	0.0003	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Beryllium	ND		0.0020	0.0002	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Calcium	**15.5**		0.5	0.1	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Chromium	ND		0.0040	0.0009	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Cobalt	ND		0.0040	0.0006	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Copper	**0.117**		0.0100	0.0015	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Iron	**0.023**	J, B	0.050	0.019	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Magnesium	**4.16**		0.200	0.043	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Manganese	**0.0012**	J, B	0.0030	0.0002	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Nickel	ND		0.0100	0.0013	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Potassium	**1.12**		0.500	0.050	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Sodium	**18.6**		1.0	0.3	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Vanadium	ND		0.0050	0.0011	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Zinc	**0.0356**		0.0100	0.0017	mg/L	1.00	05/24/10 18:43	DAN	10E1745	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	05/21/10 20:41	MXM	10E1712	7470A
General Chemistry Parameters										
Alkalinity, Total	**22.0**	B	10.0	4.0	mg/L	1.00	05/21/10 11:10	RJF	10E1737	310.2
Chemical Oxygen Demand	ND		10.0	2.5	mg/L	1.00	05/21/10 16:30	RMB	10E1889	410.4
Total Hardness	**49.6**		2.00	0.525	mg/L	1.00	05/22/10 10:09	JME	10E1804	2340C
Total Kjeldahl Nitrogen	**0.15**	J	0.20	0.15	mg/L	1.00	05/26/10 12:29	KLD	10E2005	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: PW-2 (RTE1068-09 - Water)						**Sampled: 05/19/10 16:15**		**Recvd: 05/20/10 09:00**		
Purgeable Halocarbons by EPA Method 601										
1,1-Dichloroethane	ND		1.0	0.26	ug/L	1.00	05/25/10 20:16	DGB	10E1963	601
Vinyl chloride	ND		1.0	0.12	ug/L	1.00	05/25/10 20:16	DGB	10E1963	601
2-Bromochlorobenzene	*95 %*		*Surr Limits: (71-129%)*				*05/25/10 20:16*	*DGB*	*10E1963*	*601*
4-Bromofluorobenzene	*98 %*		*Surr Limits: (68-131%)*				*05/25/10 20:16*	*DGB*	*10E1963*	*601*
Bromochloromethane	*94 %*		*Surr Limits: (68-147%)*				*05/25/10 20:16*	*DGB*	*10E1963*	*601*
Purgeable Aromatics by EPA Method 602										
Benzene	ND		1.0	0.35	ug/L	1.00	05/25/10 20:16	DGB	10E1963	602
Chlorobenzene	ND		1.0	0.29	ug/L	1.00	05/25/10 20:16	DGB	10E1963	602
a,a,a-Trifluorotoluene	*85 %*		*Surr Limits: (72-132%)*				*05/25/10 20:16*	*DGB*	*10E1963*	*602*
Total Metals by EPA 200 Series Methods										
Antimony	ND		3.0	NR	ug/L	1.00	05/24/10 17:07	AMH	10E1747	200.8
Thallium	ND		0.5	NR	ug/L	1.00	05/24/10 17:07	AMH	10E1747	200.8
Total Metals by SW 846 Series Methods										
Aluminum	ND		0.200	0.045	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Arsenic	ND		0.0100	0.0056	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Barium	**0.0026**	B	0.0020	0.0003	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Beryllium	ND		0.0020	0.0002	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Calcium	**29.4**		0.5	0.1	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Chromium	ND		0.0040	0.0009	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Cobalt	ND		0.0040	0.0006	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Copper	**0.0534**		0.0100	0.0015	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Iron	**0.071**	B	0.050	0.019	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Magnesium	**3.43**		0.200	0.043	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Manganese	**0.0031**	B	0.0030	0.0002	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Nickel	ND		0.0100	0.0013	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Potassium	**1.06**		0.500	0.050	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Sodium	**8.6**		1.0	0.3	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Vanadium	ND		0.0050	0.0011	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Zinc	**0.0782**		0.0100	0.0017	mg/L	1.00	05/24/10 18:48	DAN	10E1745	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	05/21/10 20:42	MXM	10E1712	7470A
General Chemistry Parameters										
Alkalinity, Total	**64.8**	B	10.0	4.0	mg/L	1.00	05/21/10 11:10	RJF	10E1737	310.2
Chemical Oxygen Demand	ND		10.0	2.5	mg/L	1.00	05/21/10 16:30	RMB	10E1889	410.4
Total Hardness	**76.4**		2.00	0.525	mg/L	1.00	05/22/10 10:09	JME	10E1804	2340C
Total Kjeldahl Nitrogen	**0.26**		0.20	0.15	mg/L	1.00	05/26/10 12:36	KLD	10E2005	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: SVWC No.93 (RTE1068-01 - Water)						**Sampled: 05/19/10 12:00**		**Recvd: 05/20/10 09:00**		
Purgeable Halocarbons by EPA Method 601										
1,1-Dichloroethane	ND		1.0	0.26	ug/L	1.00	05/25/10 12:24	DGB	10E1956	601
Vinyl chloride	ND		1.0	0.12	ug/L	1.00	05/25/10 12:24	DGB	10E1956	601
2-Bromochlorobenzene	*99 %*		*Surr Limits: (71-129%)*				*05/25/10 12:24*	*DGB*	*10E1956*	*601*
4-Bromofluorobenzene	*102 %*		*Surr Limits: (68-131%)*				*05/25/10 12:24*	*DGB*	*10E1956*	*601*
Bromochloromethane	*97 %*		*Surr Limits: (68-147%)*				*05/25/10 12:24*	*DGB*	*10E1956*	*601*
Purgeable Aromatics by EPA Method 602										
Benzene	ND		1.0	0.35	ug/L	1.00	05/25/10 12:24	DGB	10E1956	602
Chlorobenzene	ND		1.0	0.29	ug/L	1.00	05/25/10 12:24	DGB	10E1956	602
a,a,a-Trifluorotoluene	*84 %*		*Surr Limits: (72-132%)*				*05/25/10 12:24*	*DGB*	*10E1956*	*602*
Total Metals by EPA 200 Series Methods										
Antimony	ND		3.0	NR	ug/L	1.00	05/24/10 16:01	AMH	10E1747	200.8
Thallium	ND		0.5	NR	ug/L	1.00	05/24/10 16:01	AMH	10E1747	200.8
Total Metals by SW 846 Series Methods										
Aluminum	ND		0.200	0.045	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Arsenic	ND		0.0100	0.0056	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Barium	**0.0074**	B	0.0020	0.0003	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Beryllium	ND		0.0020	0.0002	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Calcium	**17.5**		0.5	0.1	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Chromium	ND		0.0040	0.0009	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Cobalt	ND		0.0040	0.0006	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Copper	**0.0193**		0.0100	0.0015	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Iron	ND		0.050	0.019	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Magnesium	**4.56**		0.200	0.043	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Manganese	**0.0003**	J, B	0.0030	0.0002	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Nickel	ND		0.0100	0.0013	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Potassium	**1.33**		0.500	0.050	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Sodium	**41.6**		1.0	0.3	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Vanadium	ND		0.0050	0.0011	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Zinc	**0.0057**	J	0.0100	0.0017	mg/L	1.00	05/24/10 17:32	DAN	10E1745	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	05/21/10 20:23	MXM	10E1712	7470A
General Chemistry Parameters										
Alkalinity, Total	**42.1**	B	10.0	4.0	mg/L	1.00	05/21/10 11:09	RJF	10E1735	310.2
Chemical Oxygen Demand	ND		10.0	2.5	mg/L	1.00	05/21/10 16:30	RMB	10E1889	410.4
Total Hardness	**57.5**		2.00	0.525	mg/L	1.00	05/22/10 10:09	JME	10E1804	2340C
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L	1.00	05/24/10 10:21	JME	10E1702	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: SVWC No.95 (RTE1068-02 - Water)						**Sampled: 05/19/10 12:27**		**Recvd: 05/20/10 09:00**		
Purgeable Halocarbons by EPA Method 601										
1,1-Dichloroethane	ND		1.0	0.26	ug/L	1.00	05/25/10 13:03	DGB	10E1956	601
Vinyl chloride	**0.13**	J	1.0	0.12	ug/L	1.00	05/25/10 13:03	DGB	10E1956	601
2-Bromochlorobenzene	*93 %*		*Surr Limits: (71-129%)*				*05/25/10 13:03*	*DGB*	*10E1956*	*601*
4-Bromofluorobenzene	*97 %*		*Surr Limits: (68-131%)*				*05/25/10 13:03*	*DGB*	*10E1956*	*601*
Bromochloromethane	*98 %*		*Surr Limits: (68-147%)*				*05/25/10 13:03*	*DGB*	*10E1956*	*601*
Purgeable Aromatics by EPA Method 602										
Benzene	ND		1.0	0.35	ug/L	1.00	05/25/10 13:03	DGB	10E1956	602
Chlorobenzene	ND		1.0	0.29	ug/L	1.00	05/25/10 13:03	DGB	10E1956	602
a,a,a-Trifluorotoluene	*82 %*		*Surr Limits: (72-132%)*				*05/25/10 13:03*	*DGB*	*10E1956*	*602*
Total Metals by EPA 200 Series Methods										
Antimony	ND		3.0	NR	ug/L	1.00	05/24/10 16:06	AMH	10E1747	200.8
Thallium	ND		0.5	NR	ug/L	1.00	05/24/10 16:06	AMH	10E1747	200.8
Total Metals by SW 846 Series Methods										
Aluminum	**0.105**	J	0.200	0.045	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Arsenic	ND		0.0100	0.0056	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Barium	**0.0114**	B	0.0020	0.0003	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Beryllium	ND		0.0020	0.0002	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Calcium	**20.3**		0.5	0.1	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Chromium	ND		0.0040	0.0009	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Cobalt	ND		0.0040	0.0006	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Copper	**0.0112**		0.0100	0.0015	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Iron	**0.030**	J, B	0.050	0.019	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Magnesium	**5.53**		0.200	0.043	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Manganese	**0.110**	B	0.0030	0.0002	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Nickel	ND		0.0100	0.0013	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Potassium	**1.57**		0.500	0.050	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Sodium	**47.2**		1.0	0.3	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Vanadium	ND		0.0050	0.0011	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Zinc	**0.0034**	J	0.0100	0.0017	mg/L	1.00	05/24/10 17:37	DAN	10E1745	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	05/21/10 20:25	MXM	10E1712	7470A
General Chemistry Parameters										
Alkalinity, Total	**56.1**	B	10.0	4.0	mg/L	1.00	05/21/10 11:09	RJF	10E1735	310.2
Chemical Oxygen Demand	ND		10.0	2.5	mg/L	1.00	05/21/10 16:30	RMB	10E1889	410.4
Total Hardness	**65.5**		2.00	0.525	mg/L	1.00	05/22/10 10:09	JME	10E1804	2340C
Total Kjeldahl Nitrogen	ND		0.20	0.15	mg/L	1.00	05/24/10 10:21	JME	10E1702	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: SVWC No.96 (RTE1068-03 - Water)						**Sampled: 05/19/10 12:14**		**Recvd: 05/20/10 09:00**		
Purgeable Halocarbons by EPA Method 601										
1,1-Dichloroethane	ND		1.0	0.26	ug/L	1.00	05/25/10 13:42	DGB	10E1956	601
Vinyl chloride	ND		1.0	0.12	ug/L	1.00	05/25/10 13:42	DGB	10E1956	601
2-Bromochlorobenzene	*97 %*		*Surr Limits: (71-129%)*				*05/25/10 13:42*	*DGB*	*10E1956*	*601*
4-Bromofluorobenzene	*100 %*		*Surr Limits: (68-131%)*				*05/25/10 13:42*	*DGB*	*10E1956*	*601*
Bromochloromethane	*97 %*		*Surr Limits: (68-147%)*				*05/25/10 13:42*	*DGB*	*10E1956*	*601*
Purgeable Aromatics by EPA Method 602										
Benzene	ND		1.0	0.35	ug/L	1.00	05/25/10 13:42	DGB	10E1956	602
Chlorobenzene	ND		1.0	0.29	ug/L	1.00	05/25/10 13:42	DGB	10E1956	602
a,a,a-Trifluorotoluene	*84 %*		*Surr Limits: (72-132%)*				*05/25/10 13:42*	*DGB*	*10E1956*	*602*
Total Metals by EPA 200 Series Methods										
Antimony	ND		3.0	NR	ug/L	1.00	05/24/10 16:10	AMH	10E1747	200.8
Thallium	ND		0.5	NR	ug/L	1.00	05/24/10 16:10	AMH	10E1747	200.8
Total Metals by SW 846 Series Methods										
Aluminum	ND		0.200	0.045	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Arsenic	ND		0.0100	0.0056	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Barium	**0.0088**	B	0.0020	0.0003	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Beryllium	ND		0.0020	0.0002	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Cadmium	ND		0.0010	0.0003	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Calcium	**19.7**		0.5	0.1	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Chromium	ND		0.0040	0.0009	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Cobalt	ND		0.0040	0.0006	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Copper	**0.0085**	J	0.0100	0.0015	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Iron	**0.598**	B	0.050	0.019	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Lead	ND		0.0050	0.0030	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Magnesium	**5.24**		0.200	0.043	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Manganese	**0.0220**	B	0.0030	0.0002	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Nickel	**0.0075**	J	0.0100	0.0013	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Potassium	**1.34**		0.500	0.050	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Selenium	ND		0.0150	0.0087	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Silver	ND		0.0030	0.0012	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Sodium	**48.6**		1.0	0.3	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Vanadium	ND		0.0050	0.0011	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Zinc	**0.0170**		0.0100	0.0017	mg/L	1.00	05/24/10 17:46	DAN	10E1745	6010B
Mercury	ND		0.0002	0.0001	mg/L	1.00	05/21/10 20:31	MXM	10E1712	7470A
General Chemistry Parameters										
Alkalinity, Total	**45.1**	B	10.0	4.0	mg/L	1.00	05/21/10 11:09	RJF	10E1735	310.2
Chemical Oxygen Demand	ND		10.0	2.5	mg/L	1.00	05/21/10 16:30	RMB	10E1889	410.4
Total Hardness	**66.4**		2.00	0.525	mg/L	1.00	05/22/10 10:09	JME	10E1804	2340C
Total Kjeldahl Nitrogen	**0.26**		0.20	0.15	mg/L	1.00	05/24/10 11:04	JME	10E1702	351.2

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: TRIP BLANK (RTE1068-15 - Water)						**Sampled: 05/19/10**			**Recvd: 05/20/10 09:00**	
Purgeable Halocarbons by EPA Method 601										
1,1-Dichloroethane	ND		1.0	0.26	ug/L	1.00	05/26/10 11:57	DGB	10E2091	601
Vinyl chloride	ND		1.0	0.12	ug/L	1.00	05/26/10 11:57	DGB	10E2091	601
2-Bromochlorobenzene	*95 %*		*Surr Limits: (71-129%)*				*05/26/10 11:57*	*DGB*	*10E2091*	*601*
4-Bromofluorobenzene	*97 %*		*Surr Limits: (68-131%)*				*05/26/10 11:57*	*DGB*	*10E2091*	*601*
Bromochloromethane	*94 %*		*Surr Limits: (68-147%)*				*05/26/10 11:57*	*DGB*	*10E2091*	*601*
Purgeable Aromatics by EPA Method 602										
Benzene	ND		1.0	0.35	ug/L	1.00	05/26/10 11:57	DGB	10E2091	602
Chlorobenzene	ND		1.0	0.29	ug/L	1.00	05/26/10 11:57	DGB	10E2091	602
a,a,a-Trifluorotoluene	*81 %*		*Surr Limits: (72-132%)*				*05/26/10 11:57*	*DGB*	*10E2091*	*602*

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SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: TRIP BLANK (RTE1133-07 - Water)						**Sampled: 05/20/10**		**Recvd: 05/21/10 08:30**		
Purgeable Halocarbons by EPA Method 601										
1,1-Dichloroethane	ND		1.0	0.26	ug/L	1.00	05/25/10 13:30	tchro	10E1976	601
Vinyl chloride	**0.18**	J, B	1.0	0.12	ug/L	1.00	05/25/10 13:30	tchro	10E1976	601
2-Bromochlorobenzene	*133 %*	*Z1*	*Surr Limits: (71-129%)*				*05/25/10 13:30*	*tchro*	*10E1976*	*601*
4-Bromofluorobenzene	*127 %*		*Surr Limits: (68-131%)*				*05/25/10 13:30*	*tchro*	*10E1976*	*601*
Bromochloromethane	*141 %*		*Surr Limits: (68-147%)*				*05/25/10 13:30*	*tchro*	*10E1976*	*601*
Purgeable Aromatics by EPA Method 602										
Benzene	ND		1.0	0.35	ug/L	1.00	05/25/10 13:30	tchro	10E1976	602
Chlorobenzene	ND		1.0	0.29	ug/L	1.00	05/25/10 13:30	tchro	10E1976	602
a,a,a-Trifluorotoluene	*107 %*		*Surr Limits: (72-132%)*				*05/25/10 13:30*	*tchro*	*10E1976*	*602*

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
2340C	10E1804	RTE1068-01	50.00	mL	50.00	mL	05/22/10 10:09	JME	No prep Hardness
2340C	10E1804	RTE1068-02	50.00	mL	50.00	mL	05/22/10 10:09	JME	No prep Hardness
2340C	10E1804	RTE1068-03	50.00	mL	50.00	mL	05/22/10 10:09	JME	No prep Hardness
2340C	10E1804	RTE1068-05	50.00	mL	50.00	mL	05/22/10 10:09	JME	No prep Hardness
2340C	10E1804	RTE1068-06	50.00	mL	50.00	mL	05/22/10 10:09	JME	No prep Hardness
2340C	10E1804	RTE1068-07	50.00	mL	50.00	mL	05/22/10 10:09	JME	No prep Hardness
2340C	10E1804	RTE1068-08	50.00	mL	50.00	mL	05/22/10 10:09	JME	No prep Hardness
2340C	10E1804	RTE1068-09	50.00	mL	50.00	mL	05/22/10 10:09	JME	No prep Hardness
2340C	10E1804	RTE1068-10	50.00	mL	50.00	mL	05/22/10 10:09	JME	No prep Hardness
2340C	10E1804	RTE1068-11	50.00	mL	50.00	mL	05/22/10 10:09	JME	No prep Hardness
2340C	10E1804	RTE1068-13	50.00	mL	50.00	mL	05/22/10 10:09	JME	No prep Hardness
2340C	10E2275	RTE1068-04	1.00	mL	1.00	mL	05/27/10 13:30	LRM	No prep Hardness
2340C	10E2275	RTE1068-12	1.00	mL	1.00	mL	05/27/10 13:30	LRM	No prep Hardness
2340C	10E2275	RTE1068-14	1.00	mL	1.00	mL	05/27/10 13:30	LRM	No prep Hardness
310.2	10E1735	RTE1068-01	2.00	mL	2.00	mL	05/21/10 08:49	RJF	No Prep Alkalinity
310.2	10E1735	RTE1068-02	2.00	mL	2.00	mL	05/21/10 08:49	RJF	No Prep Alkalinity
310.2	10E1735	RTE1068-03	2.00	mL	2.00	mL	05/21/10 08:49	RJF	No Prep Alkalinity
310.2	10E1737	RTE1068-04	2.00	mL	2.00	mL	05/21/10 08:49	RJF	No Prep Alkalinity
310.2	10E1735	RTE1068-05	2.00	mL	2.00	mL	05/21/10 08:49	RJF	No Prep Alkalinity
310.2	10E1738	RTE1068-06	2.00	mL	2.00	mL	05/21/10 08:49	RJF	No Prep Alkalinity
310.2	10E1737	RTE1068-07	2.00	mL	2.00	mL	05/21/10 08:49	RJF	No Prep Alkalinity
310.2	10E1737	RTE1068-08	2.00	mL	2.00	mL	05/21/10 08:49	RJF	No Prep Alkalinity
310.2	10E1737	RTE1068-09	2.00	mL	2.00	mL	05/21/10 08:49	RJF	No Prep Alkalinity
310.2	10E1737	RTE1068-10	2.00	mL	2.00	mL	05/21/10 08:49	RJF	No Prep Alkalinity
310.2	10E1737	RTE1068-11	2.00	mL	2.00	mL	05/21/10 08:49	RJF	No Prep Alkalinity
310.2	10E1737	RTE1068-12	2.00	mL	2.00	mL	05/21/10 08:49	RJF	No Prep Alkalinity
310.2	10E1737	RTE1068-13	2.00	mL	2.00	mL	05/21/10 08:49	RJF	No Prep Alkalinity
310.2	10E1737	RTE1068-14	2.00	mL	2.00	mL	05/21/10 08:49	RJF	No Prep Alkalinity
351.2	10E1702	RTE1068-01	25.00	mL	25.00	mL	05/21/10 10:05	JME	TKN Digestion
351.2	10E1702	RTE1068-02	25.00	mL	25.00	mL	05/21/10 10:05	JME	TKN Digestion
351.2	10E1702	RTE1068-03	25.00	mL	25.00	mL	05/21/10 10:05	JME	TKN Digestion
351.2	10E1702	RTE1068-04	25.00	mL	25.00	mL	05/21/10 10:05	JME	TKN Digestion
351.2	10E1702	RTE1068-05	25.00	mL	25.00	mL	05/21/10 10:05	JME	TKN Digestion
351.2	10E1702	RTE1068-06	25.00	mL	25.00	mL	05/21/10 10:05	JME	TKN Digestion
351.2	10E1702	RTE1068-07	25.00	mL	25.00	mL	05/21/10 10:05	JME	TKN Digestion

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
351.2	10E2005	RTE1068-08	25.00	mL	25.00	mL	05/25/10 10:15	JME	TKN Digestion
351.2	10E2005	RTE1068-09	25.00	mL	25.00	mL	05/25/10 10:15	JME	TKN Digestion
351.2	10E2005	RTE1068-10	25.00	mL	25.00	mL	05/25/10 10:15	JME	TKN Digestion
351.2	10E2005	RTE1068-11	25.00	mL	25.00	mL	05/25/10 10:15	JME	TKN Digestion
351.2	10E2005	RTE1068-12	25.00	mL	25.00	mL	05/25/10 10:15	JME	TKN Digestion
351.2	10E2005	RTE1068-13	25.00	mL	25.00	mL	05/25/10 10:15	JME	TKN Digestion
351.2	10E2005	RTE1068-14	25.00	mL	25.00	mL	05/25/10 10:15	JME	TKN Digestion
410.4	10E2016	RTE1068-04	2.00	mL	2.00	mL	05/25/10 17:20	MDM	Chemical Oxygen Demand
410.4	10E1889	RTE1068-01	2.00	mL	2.00	mL	05/21/10 16:30	RMB	Chemical Oxygen Demand
410.4	10E1889	RTE1068-02	2.00	mL	2.00	mL	05/21/10 16:30	RMB	Chemical Oxygen Demand
410.4	10E1889	RTE1068-03	2.00	mL	2.00	mL	05/21/10 16:30	RMB	Chemical Oxygen Demand
410.4	10E1889	RTE1068-05	2.00	mL	2.00	mL	05/21/10 16:30	RMB	Chemical Oxygen Demand
410.4	10E1889	RTE1068-06	2.00	mL	2.00	mL	05/21/10 16:30	RMB	Chemical Oxygen Demand
410.4	10E1889	RTE1068-07	2.00	mL	2.00	mL	05/21/10 16:30	RMB	Chemical Oxygen Demand
410.4	10E1889	RTE1068-08	2.00	mL	2.00	mL	05/21/10 16:30	RMB	Chemical Oxygen Demand
410.4	10E1889	RTE1068-09	2.00	mL	2.00	mL	05/21/10 16:30	RMB	Chemical Oxygen Demand
410.4	10E1889	RTE1068-10	2.00	mL	2.00	mL	05/21/10 16:30	RMB	Chemical Oxygen Demand
410.4	10E1767	RTE1068-11	2.00	mL	2.00	mL	05/21/10 16:30	RMB	Chemical Oxygen Demand
410.4	10E1767	RTE1068-12	2.00	mL	2.00	mL	05/21/10 16:30	RMB	Chemical Oxygen Demand
410.4	10E1767	RTE1068-13	2.00	mL	2.00	mL	05/21/10 16:30	RMB	Chemical Oxygen Demand
410.4	10E1767	RTE1068-14	2.00	mL	2.00	mL	05/21/10 16:30	RMB	Chemical Oxygen Demand
Purgeable Aromatics by EPA Method 602									
602	10E1956	RTE1068-01	1.00	mL	1.00	mL	05/25/10 08:33	DGB	5030B GC
602	10E1956	RTE1068-02	1.00	mL	1.00	mL	05/25/10 08:33	DGB	5030B GC
602	10E1956	RTE1068-03	1.00	mL	1.00	mL	05/25/10 08:33	DGB	5030B GC
602	10E1956	RTE1068-04	1.00	mL	1.00	mL	05/25/10 08:33	DGB	5030B GC
602	10E1956	RTE1068-05	1.00	mL	1.00	mL	05/25/10 08:33	DGB	5030B GC
602	10E1956	RTE1068-06	1.00	mL	1.00	mL	05/25/10 08:33	DGB	5030B GC

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
602	10E1956	RTE1068-07	1.00	mL	1.00	mL	05/25/10 08:33	DGB	5030B GC
602	10E1963	RTE1068-08	1.00	mL	1.00	mL	05/25/10 08:44	DGB	5030B GC
602	10E1963	RTE1068-09	1.00	mL	1.00	mL	05/25/10 08:44	DGB	5030B GC
602	10E1963	RTE1068-10	1.00	mL	1.00	mL	05/25/10 08:44	DGB	5030B GC
602	10E1963	RTE1068-11	1.00	mL	1.00	mL	05/25/10 08:44	DGB	5030B GC
602	10E1963	RTE1068-12	1.00	mL	1.00	mL	05/25/10 08:44	DGB	5030B GC
602	10E1963	RTE1068-13	1.00	mL	1.00	mL	05/25/10 08:44	DGB	5030B GC
602	10E1963	RTE1068-14	1.00	mL	1.00	mL	05/25/10 08:44	DGB	5030B GC
602	10E2091	RTE1068-15	1.00	mL	1.00	mL	05/26/10 08:43	DGB	5030B GC
Purgeable Halocarbons by EPA Method 601									
601	10E1956	RTE1068-01	1.00	mL	1.00	mL	05/25/10 08:33	DGB	5030B GC
601	10E1956	RTE1068-02	1.00	mL	1.00	mL	05/25/10 08:33	DGB	5030B GC
601	10E1956	RTE1068-03	1.00	mL	1.00	mL	05/25/10 08:33	DGB	5030B GC
601	10E1956	RTE1068-04	1.00	mL	1.00	mL	05/25/10 08:33	DGB	5030B GC
601	10E1956	RTE1068-05	1.00	mL	1.00	mL	05/25/10 08:33	DGB	5030B GC
601	10E1956	RTE1068-06	1.00	mL	1.00	mL	05/25/10 08:33	DGB	5030B GC
601	10E1956	RTE1068-07	1.00	mL	1.00	mL	05/25/10 08:33	DGB	5030B GC
601	10E1963	RTE1068-08	1.00	mL	1.00	mL	05/25/10 08:44	DGB	5030B GC
601	10E1963	RTE1068-09	1.00	mL	1.00	mL	05/25/10 08:44	DGB	5030B GC
601	10E1963	RTE1068-10	1.00	mL	1.00	mL	05/25/10 08:44	DGB	5030B GC
601	10E1963	RTE1068-11	1.00	mL	1.00	mL	05/25/10 08:44	DGB	5030B GC
601	10E1963	RTE1068-12	1.00	mL	1.00	mL	05/25/10 08:44	DGB	5030B GC
601	10E1963	RTE1068-13	1.00	mL	1.00	mL	05/25/10 08:44	DGB	5030B GC
601	10E1963	RTE1068-14	1.00	mL	1.00	mL	05/25/10 08:44	DGB	5030B GC
601	10E2091	RTE1068-15	1.00	mL	1.00	mL	05/26/10 08:43	DGB	5030B GC
Total Metals by EPA 200 Series Methods									
200.8	10E1747	RTE1068-01	50.00	mL	50.00	mL	05/24/10 08:50	KCW	3020A
200.8	10E1747	RTE1068-02	50.00	mL	50.00	mL	05/24/10 08:50	KCW	3020A
200.8	10E1747	RTE1068-03	50.00	mL	50.00	mL	05/24/10 08:50	KCW	3020A
200.8	10E1747	RTE1068-04	50.00	mL	50.00	mL	05/24/10 08:50	KCW	3020A
200.8	10E1747	RTE1068-05	50.00	mL	50.00	mL	05/24/10 08:50	KCW	3020A
200.8	10E1747	RTE1068-06	50.00	mL	50.00	mL	05/24/10 08:50	KCW	3020A
200.8	10E1747	RTE1068-07	50.00	mL	50.00	mL	05/24/10 08:50	KCW	3020A
200.8	10E1747	RTE1068-08	50.00	mL	50.00	mL	05/24/10 08:50	KCW	3020A
200.8	10E1747	RTE1068-09	50.00	mL	50.00	mL	05/24/10 08:50	KCW	3020A
200.8	10E1747	RTE1068-10	50.00	mL	50.00	mL	05/24/10 08:50	KCW	3020A

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
200.8	10E1747	RTE1068-11	50.00	mL	50.00	mL	05/24/10 08:50	KCW	3020A
200.8	10E1747	RTE1068-12	50.00	mL	50.00	mL	05/24/10 08:50	KCW	3020A
200.8	10E1747	RTE1068-13	50.00	mL	50.00	mL	05/24/10 08:50	KCW	3020A
200.8	10E1747	RTE1068-14	50.00	mL	50.00	mL	05/24/10 08:50	KCW	3020A
Total Metals by SW 846 Series Methods									
6010B	10E1745	RTE1068-01	50.00	mL	50.00	mL	05/24/10 08:45	KCW	3005A
6010B	10E1745	RTE1068-02	50.00	mL	50.00	mL	05/24/10 08:45	KCW	3005A
6010B	10E1745	RTE1068-03	50.00	mL	50.00	mL	05/24/10 08:45	KCW	3005A
6010B	10E1745	RTE1068-04	50.00	mL	50.00	mL	05/24/10 08:45	KCW	3005A
6010B	10E1745	RTE1068-05	50.00	mL	50.00	mL	05/24/10 08:45	KCW	3005A
6010B	10E1745	RTE1068-06	50.00	mL	50.00	mL	05/24/10 08:45	KCW	3005A
6010B	10E1745	RTE1068-07	50.00	mL	50.00	mL	05/24/10 08:45	KCW	3005A
6010B	10E1745	RTE1068-08	50.00	mL	50.00	mL	05/24/10 08:45	KCW	3005A
6010B	10E1745	RTE1068-09	50.00	mL	50.00	mL	05/24/10 08:45	KCW	3005A
6010B	10E1745	RTE1068-10	50.00	mL	50.00	mL	05/24/10 08:45	KCW	3005A
6010B	10E1745	RTE1068-11	50.00	mL	50.00	mL	05/24/10 08:45	KCW	3005A
6010B	10E1745	RTE1068-12	50.00	mL	50.00	mL	05/24/10 08:45	KCW	3005A
6010B	10E1745	RTE1068-13	50.00	mL	50.00	mL	05/24/10 08:45	KCW	3005A
6010B	10E1745	RTE1068-14	50.00	mL	50.00	mL	05/24/10 08:45	KCW	3005A
7470A	10E1712	RTE1068-01	30.00	mL	50.00	mL	05/21/10 13:50	MXM	7470A
7470A	10E1712	RTE1068-02	30.00	mL	50.00	mL	05/21/10 13:50	MXM	7470A
7470A	10E1712	RTE1068-03	30.00	mL	50.00	mL	05/21/10 13:50	MXM	7470A
7470A	10E1712	RTE1068-04	30.00	mL	50.00	mL	05/21/10 13:50	MXM	7470A
7470A	10E1712	RTE1068-05	30.00	mL	50.00	mL	05/21/10 13:50	MXM	7470A
7470A	10E1712	RTE1068-06	30.00	mL	50.00	mL	05/21/10 13:50	MXM	7470A
7470A	10E1712	RTE1068-07	30.00	mL	50.00	mL	05/21/10 13:50	MXM	7470A
7470A	10E1712	RTE1068-08	30.00	mL	50.00	mL	05/21/10 13:50	MXM	7470A
7470A	10E1712	RTE1068-09	30.00	mL	50.00	mL	05/21/10 13:50	MXM	7470A
7470A	10E1712	RTE1068-10	30.00	mL	50.00	mL	05/21/10 13:50	MXM	7470A
7470A	10E1712	RTE1068-11	30.00	mL	50.00	mL	05/21/10 13:50	MXM	7470A
7470A	10E1712	RTE1068-12	30.00	mL	50.00	mL	05/21/10 13:50	MXM	7470A
7470A	10E1712	RTE1068-13	30.00	mL	50.00	mL	05/21/10 13:50	MXM	7470A
7470A	10E1712	RTE1068-14	30.00	mL	50.00	mL	05/21/10 13:50	MXM	7470A

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method

Sterling Environmental Engineering
24 Wade Road
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SDG Number: RTE1068

Project: Ramapo Monitoring
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SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
2340C	10E1998	RTE1133-05	50.00	mL	50.00	mL	05/25/10 13:57	KLD	No prep Hardness
2340C	10E2275	RTE1133-01	1.00	mL	1.00	mL	05/27/10 13:30	LRM	No prep Hardness
2340C	10E2275	RTE1133-04	1.00	mL	1.00	mL	05/27/10 13:30	LRM	No prep Hardness
2340C	10E2275	RTE1133-06	1.00	mL	1.00	mL	05/27/10 13:30	LRM	No prep Hardness
310.2	10E2299	RTE1133-04	2.00	mL	2.00	mL	05/27/10 17:53	JFR	Alkalinity
310.2	10E2299	RTE1133-05	2.00	mL	2.00	mL	05/27/10 17:53	JFR	Alkalinity
310.2	10E2299	RTE1133-06	2.00	mL	2.00	mL	05/27/10 17:53	JFR	Alkalinity
310.2	10E2261	RTE1133-01	2.00	mL	2.00	mL	05/27/10 08:25	RJF	No Prep Alkalinity
351.2	10E2005	RTE1133-01	25.00	mL	25.00	mL	05/25/10 10:15	JME	TKN Digestion
351.2	10E2005	RTE1133-04	25.00	mL	25.00	mL	05/25/10 10:15	JME	TKN Digestion
351.2	10E2005	RTE1133-05	25.00	mL	25.00	mL	05/25/10 10:15	JME	TKN Digestion
351.2	10E2005	RTE1133-06	25.00	mL	25.00	mL	05/25/10 10:15	JME	TKN Digestion
410.4	10E1805	RTE1133-01	2.00	mL	2.00	mL	05/22/10 12:00	RMB	Chemical Oxygen Demand
410.4	10E1805	RTE1133-04	2.00	mL	2.00	mL	05/22/10 12:00	RMB	Chemical Oxygen Demand
410.4	10E1805	RTE1133-05	2.00	mL	2.00	mL	05/22/10 12:00	RMB	Chemical Oxygen Demand
410.4	10E1805	RTE1133-06	2.00	mL	2.00	mL	05/22/10 12:00	RMB	Chemical Oxygen Demand
Purgeable Aromatics by EPA Method 602									
602	10E1976	RTE1133-04	1.00	mL	1.00	mL	05/25/10 08:58	DGB	5030B GC
602	10E1976	RTE1133-05	1.00	mL	1.00	mL	05/25/10 08:58	DGB	5030B GC
602	10E1976	RTE1133-06	1.00	mL	1.00	mL	05/25/10 08:58	DGB	5030B GC
602	10E1976	RTE1133-07	1.00	mL	1.00	mL	05/25/10 08:58	DGB	5030B GC
602	10E2104	RTE1133-01	1.00	mL	1.00	mL	05/26/10 10:50	DGB	5030B GC
Purgeable Halocarbons by EPA Method 601									
601	10E1976	RTE1133-04	1.00	mL	1.00	mL	05/25/10 08:58	DGB	5030B GC
601	10E1976	RTE1133-05	1.00	mL	1.00	mL	05/25/10 08:58	DGB	5030B GC
601	10E1976	RTE1133-06	1.00	mL	1.00	mL	05/25/10 08:58	DGB	5030B GC
601	10E1976	RTE1133-07	1.00	mL	1.00	mL	05/25/10 08:58	DGB	5030B GC
601	10E2104	RTE1133-01	1.00	mL	1.00	mL	05/26/10 10:50	DGB	5030B GC
Total Metals by EPA 200 Series Methods									
200.8	10E1869	RTE1133-01	50.00	mL	50.00	mL	05/25/10 09:15	KCW	3020A
200.8	10E1869	RTE1133-04	50.00	mL	50.00	mL	05/25/10 09:15	KCW	3020A
200.8	10E1869	RTE1133-05	50.00	mL	50.00	mL	05/25/10 09:15	KCW	3020A
200.8	10E1869	RTE1133-06	50.00	mL	50.00	mL	05/25/10 09:15	KCW	3020A
Total Metals by SW 846 Series Methods									

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
6010B	10E1866	RTE1133-01	50.00	mL	50.00	mL	05/24/10 16:30	LMH	3005A
6010B	10E1866	RTE1133-04	50.00	mL	50.00	mL	05/24/10 16:30	LMH	3005A
6010B	10E1866	RTE1133-05	50.00	mL	50.00	mL	05/24/10 16:30	LMH	3005A
6010B	10E1866	RTE1133-06	50.00	mL	50.00	mL	05/24/10 16:30	LMH	3005A
7470A	10E1850	RTE1133-01	30.00	mL	50.00	mL	05/24/10 16:00	MXM	7470A
7470A	10E1850	RTE1133-04	30.00	mL	50.00	mL	05/24/10 16:00	MXM	7470A
7470A	10E1850	RTE1133-05	30.00	mL	50.00	mL	05/24/10 16:00	MXM	7470A
7470A	10E1850	RTE1133-06	30.00	mL	50.00	mL	05/24/10 16:00	MXM	7470A

Sterling Environmental Engineering
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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Purgeable Halocarbons by EPA Method 601											
Blank Analyzed: 05/25/10 (Lab Number:10E1956-BLK1, Batch: 10E1956)											
1,1-Dichloroethane			1.0	0.26	ug/L	ND					
Vinyl chloride			1.0	0.12	ug/L	ND					
Surrogate: 2-Bromochlorobenzene					*ug/L*		*100*	*71-129*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*106*	*68-131*			
Surrogate: Bromochloromethane					*ug/L*		*95*	*68-147*			
LCS Analyzed: 05/25/10 (Lab Number:10E1956-BS1, Batch: 10E1956)											
1,1-Dichloroethane		4.00	1.0	0.26	ug/L	4.56	114	47-132			
Vinyl chloride		4.00	1.0	0.12	ug/L	4.02	100	28-163			
Surrogate: 2-Bromochlorobenzene					*ug/L*		*101*	*71-129*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*105*	*68-131*			
Surrogate: Bromochloromethane					*ug/L*		*97*	*68-147*			
LCS Dup Analyzed: 05/25/10 (Lab Number:10E1956-BSD1, Batch: 10E1956)											
1,1-Dichloroethane		4.00	1.0	0.26	ug/L	5.14	129	47-132	12	30	
Vinyl chloride		4.00	1.0	0.12	ug/L	4.27	107	28-163	6	30	
Surrogate: 2-Bromochlorobenzene					*ug/L*		*103*	*71-129*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*109*	*68-131*			
Surrogate: Bromochloromethane					*ug/L*		*98*	*68-147*			
Purgeable Halocarbons by EPA Method 601											
Blank Analyzed: 05/25/10 (Lab Number:10E1963-BLK1, Batch: 10E1963)											
1,1-Dichloroethane			1.0	0.26	ug/L	ND					
Vinyl chloride			1.0	0.12	ug/L	ND					
Surrogate: 2-Bromochlorobenzene					*ug/L*		*102*	*71-129*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*105*	*68-131*			
Surrogate: Bromochloromethane					*ug/L*		*96*	*68-147*			
LCS Analyzed: 05/25/10 (Lab Number:10E1963-BS1, Batch: 10E1963)											
1,1-Dichloroethane		4.00	1.0	0.26	ug/L	4.66	117	47-132			
Vinyl chloride		4.00	1.0	0.12	ug/L	4.94	124	28-163			

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Purgeable Halocarbons by EPA Method 601											
LCS Analyzed: 05/25/10 (Lab Number:10E1963-BS1, Batch: 10E1963)											
Surrogate: 2-Bromochlorobenzene					*ug/L*		*100*	*71-129*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*105*	*68-131*			
Surrogate: Bromochloromethane					*ug/L*		*96*	*68-147*			
LCS Dup Analyzed: 05/25/10 (Lab Number:10E1963-BSD1, Batch: 10E1963)											
1,1-Dichloroethane		4.00	1.0	0.26	ug/L	5.36	134	47-132	14	30	L1
Vinyl chloride		4.00	1.0	0.12	ug/L	4.90	123	28-163	0.7	30	
Surrogate: 2-Bromochlorobenzene					*ug/L*		*102*	*71-129*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*106*	*68-131*			
Surrogate: Bromochloromethane					*ug/L*		*95*	*68-147*			
Purgeable Halocarbons by EPA Method 601											
Blank Analyzed: 05/25/10 (Lab Number:10E1976-BLK1, Batch: 10E1976)											
1,1-Dichloroethane			1.0	0.26	ug/L	ND					
Vinyl chloride			1.0	0.12	ug/L	0.18					J
Surrogate: 2-Bromochlorobenzene					*ug/L*		*135*	*71-129*			*Z1*
Surrogate: 4-Bromofluorobenzene					*ug/L*		*122*	*68-131*			
Surrogate: Bromochloromethane					*ug/L*		*136*	*68-147*			
LCS Analyzed: 05/25/10 (Lab Number:10E1976-BS1, Batch: 10E1976)											
1,1-Dichloroethane		4.00	1.0	0.26	ug/L	6.13	153	47-132			L1
Vinyl chloride		4.00	1.0	0.12	ug/L	6.78	169	28-163			L1,B
Surrogate: 2-Bromochlorobenzene					*ug/L*		*141*	*71-129*			*Z1*
Surrogate: 4-Bromofluorobenzene					*ug/L*		*131*	*68-131*			
Surrogate: Bromochloromethane					*ug/L*		*127*	*68-147*			
LCS Dup Analyzed: 05/25/10 (Lab Number:10E1976-BSD1, Batch: 10E1976)											
1,1-Dichloroethane		4.00	1.0	0.26	ug/L	5.56	139	47-132	10	30	L1
Vinyl chloride		4.00	1.0	0.12	ug/L	6.69	167	28-163	1	30	L1,B
Surrogate: 2-Bromochlorobenzene					*ug/L*		*142*	*71-129*			*Z1*

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Purgeable Halocarbons by EPA Method 601											
LCS Dup Analyzed: 05/25/10 (Lab Number:10E1976-BSD1, Batch: 10E1976)											
Surrogate: 4-Bromofluorobenzene					*ug/L*		*134*	*68-131*			*Z1*
Surrogate: Bromochloromethane					*ug/L*		*129*	*68-147*			
Purgeable Halocarbons by EPA Method 601											
Blank Analyzed: 05/26/10 (Lab Number:10E2091-BLK1, Batch: 10E2091)											
1,1-Dichloroethane			1.0	0.26	ug/L	ND					
Vinyl chloride			1.0	0.12	ug/L	ND					
Surrogate: 2-Bromochlorobenzene					*ug/L*		*99*	*71-129*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*104*	*68-131*			
Surrogate: Bromochloromethane					*ug/L*		*93*	*68-147*			
LCS Analyzed: 05/26/10 (Lab Number:10E2091-BS1, Batch: 10E2091)											
1,1-Dichloroethane		4.00	1.0	0.26	ug/L	5.26	131	47-132			
Vinyl chloride		4.00	1.0	0.12	ug/L	4.17	104	28-163			
Surrogate: 2-Bromochlorobenzene					*ug/L*		*91*	*71-129*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*94*	*68-131*			
Surrogate: Bromochloromethane					*ug/L*		*86*	*68-147*			
LCS Dup Analyzed: 05/26/10 (Lab Number:10E2091-BSD1, Batch: 10E2091)											
1,1-Dichloroethane		4.00	1.0	0.26	ug/L	5.05	126	47-132	4	30	
Vinyl chloride		4.00	1.0	0.12	ug/L	3.58	89	28-163	15	30	
Surrogate: 2-Bromochlorobenzene					*ug/L*		*103*	*71-129*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*110*	*68-131*			
Surrogate: Bromochloromethane					*ug/L*		*97*	*68-147*			
Purgeable Halocarbons by EPA Method 601											
Blank Analyzed: 05/27/10 (Lab Number:10E2104-BLK1, Batch: 10E2104)											
1,1-Dichloroethane			1.0	0.26	ug/L	ND					
Vinyl chloride			1.0	0.12	ug/L	ND					
Surrogate: 2-Bromochlorobenzene					*ug/L*		*140*	*71-129*			*Z1*

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Purgeable Halocarbons by EPA Method 601											
Blank Analyzed: 05/27/10 (Lab Number:10E2104-BLK1, Batch: 10E2104)											
Surrogate: 4-Bromofluorobenzene					*ug/L*		*133*	*68-131*			*Z1*
Surrogate: Bromochloromethane					*ug/L*		*139*	*68-147*			
LCS Analyzed: 05/27/10 (Lab Number:10E2104-BS1, Batch: 10E2104)											
1,1-Dichloroethane		4.00	1.0	0.26	ug/L	5.87	147	47-132			L1
Vinyl chloride		4.00	1.0	0.12	ug/L	5.55	139	28-163			
Surrogate: 2-Bromochlorobenzene					*ug/L*		*139*	*71-129*			*Z1*
Surrogate: 4-Bromofluorobenzene					*ug/L*		*138*	*68-131*			*Z1*
Surrogate: Bromochloromethane					*ug/L*		*123*	*68-147*			
Matrix Spike Analyzed: 05/27/10 (Lab Number:10E2104-MS1, Batch: 10E2104)											
QC Source Sample: RTE1133-01											
1,1-Dichloroethane	ND	4.00	1.0	0.26	ug/L	2.78	70	47-132			
Vinyl chloride	0.156	4.00	1.0	0.12	ug/L	2.53	59	28-163			
Surrogate: 2-Bromochlorobenzene					*ug/L*		*137*	*71-129*			*Z1*
Surrogate: 4-Bromofluorobenzene					*ug/L*		*136*	*68-131*			*Z1*
Surrogate: Bromochloromethane					*ug/L*		*127*	*68-147*			
Matrix Spike Dup Analyzed: 05/27/10 (Lab Number:10E2104-MSD1, Batch: 10E2104)											
QC Source Sample: RTE1133-01											
1,1-Dichloroethane	ND	4.00	1.0	0.26	ug/L	4.53	113	47-132	48	30	R2
Vinyl chloride	0.156	4.00	1.0	0.12	ug/L	4.00	96	28-163	45	30	R2
Surrogate: 2-Bromochlorobenzene					*ug/L*		*138*	*71-129*			*Z1*
Surrogate: 4-Bromofluorobenzene					*ug/L*		*141*	*68-131*			*Z1*
Surrogate: Bromochloromethane					*ug/L*		*128*	*68-147*			

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Purgeable Aromatics by EPA Method 602											
Blank Analyzed: 05/25/10 (Lab Number:10E1956-BLK1, Batch: 10E1956)											
Benzene			1.0	0.35	ug/L	ND					
Chlorobenzene			1.0	0.29	ug/L	ND					
Surrogate: a,a,a-Trifluorotoluene					*ug/L*		*88*	*72-132*			
LCS Analyzed: 05/25/10 (Lab Number:10E1956-BS1, Batch: 10E1956)											
Benzene		4.00	1.0	0.35	ug/L	3.89	97	39-150			
Chlorobenzene		4.00	1.0	0.29	ug/L	4.98	125	55-135			
Surrogate: a,a,a-Trifluorotoluene					*ug/L*		*88*	*72-132*			
LCS Dup Analyzed: 05/25/10 (Lab Number:10E1956-BSD1, Batch: 10E1956)											
Benzene		4.00	1.0	0.35	ug/L	4.13	103	39-150	6	30	
Chlorobenzene		4.00	1.0	0.29	ug/L	5.22	131	55-135	5	30	
Surrogate: a,a,a-Trifluorotoluene					*ug/L*		*91*	*72-132*			
Purgeable Aromatics by EPA Method 602											
Blank Analyzed: 05/25/10 (Lab Number:10E1963-BLK1, Batch: 10E1963)											
Benzene			1.0	0.35	ug/L	ND					
Chlorobenzene			1.0	0.29	ug/L	ND					
Surrogate: a,a,a-Trifluorotoluene					*ug/L*		*86*	*72-132*			
LCS Analyzed: 05/25/10 (Lab Number:10E1963-BS1, Batch: 10E1963)											
Benzene		4.00	1.0	0.35	ug/L	3.81	95	39-150			
Chlorobenzene		4.00	1.0	0.29	ug/L	4.76	119	55-135			
Surrogate: a,a,a-Trifluorotoluene					*ug/L*		*87*	*72-132*			
LCS Dup Analyzed: 05/25/10 (Lab Number:10E1963-BSD1, Batch: 10E1963)											
Benzene		4.00	1.0	0.35	ug/L	4.36	109	39-150	13	30	
Chlorobenzene		4.00	1.0	0.29	ug/L	5.32	133	55-135	11	30	
Surrogate: a,a,a-Trifluorotoluene					*ug/L*		*89*	*72-132*			
Purgeable Aromatics by EPA Method 602											
Blank Analyzed: 05/25/10 (Lab Number:10E1976-BLK1, Batch: 10E1976)											
Benzene			1.0	0.35	ug/L	ND					

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Purgeable Aromatics by EPA Method 602											
Blank Analyzed: 05/25/10 (Lab Number:10E1976-BLK1, Batch: 10E1976)											
Chlorobenzene			1.0	0.29	ug/L	ND					
Surrogate: a,a,a-Trifluorotoluene					*ug/L*		*95*	*72-132*			
LCS Analyzed: 05/25/10 (Lab Number:10E1976-BS1, Batch: 10E1976)											
Benzene		4.00	1.0	0.35	ug/L	4.40	110	39-150			
Chlorobenzene		4.00	1.0	0.29	ug/L	4.29	107	55-135			
Surrogate: a,a,a-Trifluorotoluene					*ug/L*		*97*	*72-132*			
LCS Dup Analyzed: 05/25/10 (Lab Number:10E1976-BSD1, Batch: 10E1976)											
Benzene		4.00	1.0	0.35	ug/L	4.00	100	39-150	10	30	
Chlorobenzene		4.00	1.0	0.29	ug/L	3.97	99	55-135	8	30	
Surrogate: a,a,a-Trifluorotoluene					*ug/L*		*99*	*72-132*			
Purgeable Aromatics by EPA Method 602											
Blank Analyzed: 05/26/10 (Lab Number:10E2091-BLK1, Batch: 10E2091)											
Benzene			1.0	0.35	ug/L	ND					
Chlorobenzene			1.0	0.29	ug/L	ND					
Surrogate: a,a,a-Trifluorotoluene					*ug/L*		*90*	*72-132*			
LCS Analyzed: 05/26/10 (Lab Number:10E2091-BS1, Batch: 10E2091)											
Benzene		4.00	1.0	0.35	ug/L	4.26	107	39-150			
Chlorobenzene		4.00	1.0	0.29	ug/L	3.90	98	55-135			
Surrogate: a,a,a-Trifluorotoluene					*ug/L*		*82*	*72-132*			
LCS Dup Analyzed: 05/26/10 (Lab Number:10E2091-BSD1, Batch: 10E2091)											
Benzene		4.00	1.0	0.35	ug/L	4.05	101	39-150	5	30	
Chlorobenzene		4.00	1.0	0.29	ug/L	5.21	130	55-135	29	30	
Surrogate: a,a,a-Trifluorotoluene					*ug/L*		*91*	*72-132*			
Purgeable Aromatics by EPA Method 602											
Blank Analyzed: 05/27/10 (Lab Number:10E2104-BLK1, Batch: 10E2104)											
Benzene			1.0	0.35	ug/L	ND					
Chlorobenzene			1.0	0.29	ug/L	ND					

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Purgeable Aromatics by EPA Method 602

Blank Analyzed: 05/27/10 (Lab Number:10E2104-BLK1, Batch: 10E2104)

Surrogate: a,a,a-Trifluorotoluene					*ug/L*		*95*	*72-132*				

LCS Analyzed: 05/27/10 (Lab Number:10E2104-BS1, Batch: 10E2104)

Benzene		4.00	1.0	0.35	ug/L	4.27	107	39-150				
Chlorobenzene		4.00	1.0	0.29	ug/L	4.14	104	55-135				
Surrogate: a,a,a-Trifluorotoluene					*ug/L*		*95*	*72-132*				

Matrix Spike Analyzed: 05/27/10 (Lab Number:10E2104-MS1, Batch: 10E2104)

QC Source Sample: RTE1133-01

Benzene	ND	4.00	1.0	0.35	ug/L	2.04	51	39-150				
Chlorobenzene	ND	4.00	1.0	0.29	ug/L	2.04	51	55-135				M8
Surrogate: a,a,a-Trifluorotoluene					*ug/L*		*104*	*72-132*				

Matrix Spike Dup Analyzed: 05/27/10 (Lab Number:10E2104-MSD1, Batch: 10E2104)

QC Source Sample: RTE1133-01

Benzene	ND	4.00	1.0	0.35	ug/L	3.25	81	39-150	46	30	R2	
Chlorobenzene	ND	4.00	1.0	0.29	ug/L	3.24	81	55-135	45	30	R2	
Surrogate: a,a,a-Trifluorotoluene					*ug/L*		*104*	*72-132*				

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by EPA 200 Series Methods											
Blank Analyzed: 05/24/10 (Lab Number:10E1747-BLK1, Batch: 10E1747)											
Antimony			3.0	NR	ug/L	ND					
Thallium			0.2	NR	ug/L	ND					
LCS Analyzed: 05/24/10 (Lab Number:10E1747-BS1, Batch: 10E1747)											
Antimony		20.0	3.0	NR	ug/L	19.0	95	85-115			
Thallium		20.0	0.2	NR	ug/L	20.5	103	85-115			
Matrix Spike Analyzed: 05/24/10 (Lab Number:10E1747-MS1, Batch: 10E1747)											
QC Source Sample: RTE1068-05											
Antimony	0.188	20.0	3.0	NR	ug/L	20.7	103	70-130			
Thallium	0.128	20.0	0.2	NR	ug/L	21.2	106	70-130			
Matrix Spike Dup Analyzed: 05/24/10 (Lab Number:10E1747-MSD1, Batch: 10E1747)											
QC Source Sample: RTE1068-05											
Antimony	0.188	20.0	3.0	NR	ug/L	20.5	101	70-130	1	20	
Thallium	0.128	20.0	0.2	NR	ug/L	21.2	106	70-130	0.08	20	
Total Metals by EPA 200 Series Methods											
Blank Analyzed: 05/25/10 (Lab Number:10E1869-BLK1, Batch: 10E1869)											
Antimony			3.0	NR	ug/L	ND					
Thallium			0.2	NR	ug/L	ND					
LCS Analyzed: 05/25/10 (Lab Number:10E1869-BS1, Batch: 10E1869)											
Antimony		20.0	1.0	NR	ug/L	19.6	98	85-115			
Thallium		20.0	0.2	NR	ug/L	20.8	104	85-115			
Matrix Spike Analyzed: 05/25/10 (Lab Number:10E1869-MS1, Batch: 10E1869)											
QC Source Sample: RTE1133-01											
Antimony	0.229	20.0	1.0	NR	ug/L	20.2	100	70-130			
Thallium	0.217	20.0	0.2	NR	ug/L	20.5	101	70-130			
Matrix Spike Dup Analyzed: 05/25/10 (Lab Number:10E1869-MSD1, Batch: 10E1869)											
QC Source Sample: RTE1133-01											
Antimony	0.229	20.0	1.0	NR	ug/L	20.5	101	70-130	1	20	
Thallium	0.217	20.0	0.2	NR	ug/L	20.3	100	70-130	1	20	

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by SW 846 Series Methods											
Blank Analyzed: 05/21/10 (Lab Number:10E1712-BLK1, Batch: 10E1712)											
Mercury			0.0002	0.0001	mg/L	ND					
LCS Analyzed: 05/21/10 (Lab Number:10E1712-BS1, Batch: 10E1712)											
Mercury		0.00667	0.0002	0.0001	mg/L	0.00633	95	80-120			
Total Metals by SW 846 Series Methods											
Blank Analyzed: 05/24/10 (Lab Number:10E1745-BLK1, Batch: 10E1745)											
Aluminum			0.200	0.045	mg/L	ND					
Arsenic			0.0100	0.0056	mg/L	ND					
Barium			0.0020	0.0003	mg/L	0.0004					J,B
Beryllium			0.0020	0.0002	mg/L	ND					
Cadmium			0.0010	0.0003	mg/L	ND					
Calcium			0.5	0.1	mg/L	ND					
Chromium			0.0040	0.0009	mg/L	ND					
Cobalt			0.0040	0.0006	mg/L	ND					
Copper			0.0100	0.0015	mg/L	ND					
Iron			0.050	0.019	mg/L	0.024					J,B
Lead			0.0050	0.0030	mg/L	ND					
Magnesium			0.200	0.043	mg/L	ND					
Manganese			0.0030	0.0002	mg/L	0.0008					B,J
Nickel			0.0100	0.0013	mg/L	ND					
Potassium			0.500	0.050	mg/L	ND					
Selenium			0.0150	0.0087	mg/L	ND					
Silver			0.0030	0.0012	mg/L	ND					
Sodium			1.0	0.3	mg/L	ND					
Vanadium			0.0050	0.0011	mg/L	ND					
Zinc			0.0100	0.0017	mg/L	ND					
LCS Analyzed: 05/24/10 (Lab Number:10E1745-BS1, Batch: 10E1745)											
Aluminum		10.0	0.200	0.045	mg/L	10.0	100	80-120			
Arsenic		0.200	0.0100	0.0056	mg/L	0.197	98	80-120			
Barium		0.200	0.0030	0.0003	mg/L	0.192	96	80-120			B
Beryllium		0.200	0.0020	0.0002	mg/L	0.193	97	80-120			
Cadmium		0.200	0.0050	0.0003	mg/L	0.187	93	80-120			
Calcium		10.0	0.5	0.1	mg/L	9.60	96	80-120			
Chromium		0.200	0.0100	0.0009	mg/L	0.194	97	80-120			
Cobalt		0.200	0.0100	0.0006	mg/L	0.192	96	80-120			
Copper		0.200	0.0100	0.0015	mg/L	0.187	93	80-120			

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by SW 846 Series Methods											
LCS Analyzed: 05/24/10 (Lab Number:10E1745-BS1, Batch: 10E1745)											
Iron		10.0	0.050	0.019	mg/L	9.41	94	80-120			B
Lead		0.200	0.0050	0.0030	mg/L	0.192	96	80-120			
Magnesium		10.0	0.200	0.043	mg/L	9.72	97	80-120			
Manganese		0.200	0.0030	0.0002	mg/L	0.191	95	80-120			B
Nickel		0.200	0.0100	0.0013	mg/L	0.190	95	80-120			
Potassium		10.0	3.00	0.050	mg/L	10.2	102	80-120			
Selenium		0.200	0.0150	0.0087	mg/L	0.191	96	80-120			
Silver		0.0500	0.0100	0.0012	mg/L	0.0506	101	80-120			
Sodium		10.0	2.0	0.3	mg/L	10.2	102	80-120			
Vanadium		0.200	0.0050	0.0011	mg/L	0.191	96	80-120			
Zinc		0.200	0.0100	0.0017	mg/L	0.192	96	80-120			
Matrix Spike Analyzed: 05/24/10 (Lab Number:10E1745-MS1, Batch: 10E1745)											
QC Source Sample: RTE1068-03											
Aluminum	ND	10.0	0.200	0.045	mg/L	9.95	99	75-125			
Arsenic	ND	0.200	0.0100	0.0056	mg/L	0.206	103	75-125			
Barium	0.00881	0.200	0.0030	0.0003	mg/L	0.199	95	75-125			B
Beryllium	ND	0.200	0.0020	0.0002	mg/L	0.203	101	75-125			
Cadmium	ND	0.200	0.0050	0.0003	mg/L	0.194	97	75-125			
Calcium	19.7	10.0	0.5	0.1	mg/L	29.7	100	75-125			
Chromium	ND	0.200	0.0100	0.0009	mg/L	0.202	101	75-125			
Cobalt	ND	0.200	0.0100	0.0006	mg/L	0.199	100	75-125			
Copper	0.00853	0.200	0.0100	0.0015	mg/L	0.204	98	75-125			
Iron	0.598	10.0	0.050	0.019	mg/L	10.4	98	75-125			B
Lead	ND	0.200	0.0050	0.0030	mg/L	0.199	100	75-125			
Magnesium	5.24	10.0	0.200	0.043	mg/L	15.3	100	75-125			
Manganese	0.0220	0.200	0.0030	0.0002	mg/L	0.221	100	75-125			B
Nickel	0.00751	0.200	0.0100	0.0013	mg/L	0.205	99	75-125			
Potassium	1.34	10.0	3.00	0.050	mg/L	11.7	104	75-125			
Selenium	ND	0.200	0.0150	0.0087	mg/L	0.200	100	75-125			
Silver	ND	0.0500	0.0100	0.0012	mg/L	0.0512	102	75-125			
Sodium	48.6	10.0	2.0	0.3	mg/L	58.3	98	75-125			
Vanadium	ND	0.200	0.0050	0.0011	mg/L	0.199	100	75-125			
Zinc	0.0170	0.200	0.0100	0.0017	mg/L	0.218	100	75-125			
Matrix Spike Dup Analyzed: 05/24/10 (Lab Number:10E1745-MSD1, Batch: 10E1745)											
QC Source Sample: RTE1068-03											
Aluminum	ND	10.0	0.200	0.045	mg/L	9.96	100	75-125	0.08	20	

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by SW 846 Series Methods											
Matrix Spike Dup Analyzed: 05/24/10 (Lab Number:10E1745-MSD1, Batch: 10E1745)											
QC Source Sample: RTE1068-03											
Arsenic	ND	0.200	0.0100	0.0056	mg/L	0.204	102	75-125	1	20	
Barium	0.00881	0.200	0.0030	0.0003	mg/L	0.198	95	75-125	0.6	20	B
Beryllium	ND	0.200	0.0020	0.0002	mg/L	0.199	99	75-125	2	20	
Cadmium	ND	0.200	0.0050	0.0003	mg/L	0.191	96	75-125	2	20	
Calcium	19.7	10.0	0.5	0.1	mg/L	30.4	106	75-125	2	20	
Chromium	ND	0.200	0.0100	0.0009	mg/L	0.199	100	75-125	1	20	
Cobalt	ND	0.200	0.0100	0.0006	mg/L	0.197	99	75-125	1	20	
Copper	0.00853	0.200	0.0100	0.0015	mg/L	0.201	96	75-125	1	20	
Iron	0.598	10.0	0.050	0.019	mg/L	10.3	97	75-125	1	20	B
Lead	ND	0.200	0.0050	0.0030	mg/L	0.195	97	75-125	2	20	
Magnesium	5.24	10.0	0.200	0.043	mg/L	15.4	102	75-125	0.8	20	
Manganese	0.0220	0.200	0.0030	0.0002	mg/L	0.219	99	75-125	1	20	B
Nickel	0.00751	0.200	0.0100	0.0013	mg/L	0.201	97	75-125	2	20	
Potassium	1.34	10.0	3.00	0.050	mg/L	11.8	105	75-125	0.8	20	
Selenium	ND	0.200	0.0150	0.0087	mg/L	0.198	99	75-125	0.6	20	
Silver	ND	0.0500	0.0100	0.0012	mg/L	0.0499	100	75-125	3	20	
Sodium	48.6	10.0	2.0	0.3	mg/L	60.4	118	75-125	3	20	
Vanadium	ND	0.200	0.0050	0.0011	mg/L	0.198	99	75-125	0.7	20	
Zinc	0.0170	0.200	0.0100	0.0017	mg/L	0.213	98	75-125	2	20	
Total Metals by SW 846 Series Methods											
Blank Analyzed: 05/24/10 (Lab Number:10E1850-BLK1, Batch: 10E1850)											
Mercury			0.0002	0.0001	mg/L	ND					
LCS Analyzed: 05/24/10 (Lab Number:10E1850-BS1, Batch: 10E1850)											
Mercury		0.00667	0.0002	0.0001	mg/L	0.00648	97	80-120			
Matrix Spike Analyzed: 05/24/10 (Lab Number:10E1850-MS1, Batch: 10E1850)											
QC Source Sample: RTE1133-01											
Mercury	ND	0.00667	0.0002	0.0001	mg/L	0.00657	98	75-125			
Matrix Spike Dup Analyzed: 05/24/10 (Lab Number:10E1850-MSD1, Batch: 10E1850)											
QC Source Sample: RTE1133-01											
Mercury	ND	0.00667	0.0002	0.0001	mg/L	0.00655	98	75-125	0.3	20	
Total Metals by SW 846 Series Methods											
Blank Analyzed: 05/25/10 (Lab Number:10E1866-BLK1, Batch: 10E1866)											

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by SW 846 Series Methods											
Blank Analyzed: 05/25/10 (Lab Number:10E1866-BLK1, Batch: 10E1866)											
Aluminum			0.200	0.045	mg/L	ND					
Arsenic			0.0100	0.0056	mg/L	ND					
Barium			0.0020	0.0003	mg/L	ND					
Beryllium			0.0020	0.0002	mg/L	ND					
Cadmium			0.0010	0.0003	mg/L	ND					
Calcium			0.5	0.1	mg/L	ND					
Chromium			0.0040	0.0009	mg/L	ND					
Cobalt			0.0040	0.0006	mg/L	ND					
Copper			0.0100	0.0015	mg/L	ND					
Iron			0.050	0.019	mg/L	ND					
Lead			0.0050	0.0030	mg/L	ND					
Magnesium			0.200	0.043	mg/L	ND					
Manganese			0.0030	0.0002	mg/L	ND					
Nickel			0.0100	0.0013	mg/L	ND					
Potassium			0.500	0.050	mg/L	ND					
Selenium			0.0150	0.0087	mg/L	ND					
Silver			0.0030	0.0012	mg/L	ND					
Sodium			1.0	0.3	mg/L	ND					
Vanadium			0.0050	0.0011	mg/L	ND					
Zinc			0.0100	0.0017	mg/L	ND					
LCS Analyzed: 05/25/10 (Lab Number:10E1866-BS1, Batch: 10E1866)											
Aluminum		10.0	0.200	0.045	mg/L	9.88	99	80-120			
Arsenic		0.200	0.0100	0.0056	mg/L	0.207	104	80-120			
Barium		0.200	0.0100	0.0003	mg/L	0.191	96	80-120			
Beryllium		0.200	0.0040	0.0002	mg/L	0.202	101	80-120			
Cadmium		0.200	0.0010	0.0003	mg/L	0.195	97	80-120			
Calcium		10.0	5.0	0.1	mg/L	10.0	100	80-120			
Chromium		0.200	0.0100	0.0009	mg/L	0.202	101	80-120			
Cobalt		0.200	0.0500	0.0006	mg/L	0.200	100	80-120			
Copper		0.200	0.0250	0.0015	mg/L	0.194	97	80-120			
Iron		10.0	0.050	0.019	mg/L	9.75	97	80-120			
Lead		0.200	0.0050	0.0030	mg/L	0.198	99	80-120			
Magnesium		10.0	5.00	0.043	mg/L	10.2	102	80-120			
Manganese		0.200	0.0100	0.0002	mg/L	0.198	99	80-120			
Nickel		0.200	0.0400	0.0013	mg/L	0.199	100	80-120			
Potassium		10.0	5.00	0.050	mg/L	10.0	100	80-120			
Selenium		0.200	0.0150	0.0087	mg/L	0.202	101	80-120			

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by SW 846 Series Methods											
LCS Analyzed: 05/25/10 (Lab Number:10E1866-BS1, Batch: 10E1866)											
Silver		0.0500	0.0100	0.0012	mg/L	0.0500	100	80-120			
Sodium		10.0	5.0	0.3	mg/L	9.78	98	80-120			
Vanadium		0.200	0.0050	0.0011	mg/L	0.198	99	80-120			
Zinc		0.200	0.0200	0.0017	mg/L	0.199	100	80-120			
Matrix Spike Analyzed: 05/25/10 (Lab Number:10E1866-MS1, Batch: 10E1866)											
QC Source Sample: RTE1133-01											
Aluminum	3.20	10.0	0.200	0.045	mg/L	13.5	103	75-125			
Arsenic	ND	0.200	0.0100	0.0056	mg/L	0.210	105	75-125			
Barium	0.0647	0.200	0.0100	0.0003	mg/L	0.244	90	75-125			
Beryllium	ND	0.200	0.0040	0.0002	mg/L	0.204	102	75-125			
Cadmium	ND	0.200	0.0010	0.0003	mg/L	0.193	97	75-125			
Calcium	92.8	10.0	5.0	0.1	mg/L	101	84	75-125			
Chromium	0.722	0.200	0.0100	0.0009	mg/L	0.620	-51	75-125			M1
Cobalt	0.0207	0.200	0.0500	0.0006	mg/L	0.211	95	75-125			
Copper	0.0360	0.200	0.0250	0.0015	mg/L	0.218	91	75-125			
Iron	22.7	10.0	0.050	0.019	mg/L	23.5	8	75-125			M1
Lead	0.00491	0.200	0.0050	0.0030	mg/L	0.201	98	75-125			
Magnesium	14.8	10.0	5.00	0.043	mg/L	24.7	100	75-125			
Manganese	1.68	0.200	0.0100	0.0002	mg/L	1.15	-264	75-125			MHA
Nickel	0.236	0.200	0.0400	0.0013	mg/L	0.334	49	75-125			M1
Potassium	2.01	10.0	5.00	0.050	mg/L	12.4	104	75-125			
Selenium	ND	0.200	0.0150	0.0087	mg/L	0.202	101	75-125			
Silver	ND	0.0500	0.0100	0.0012	mg/L	0.0515	103	75-125			
Sodium	9.35	10.0	5.0	0.3	mg/L	19.2	98	75-125			
Vanadium	0.0104	0.200	0.0050	0.0011	mg/L	0.207	98	75-125			
Zinc	0.0143	0.200	0.0200	0.0017	mg/L	0.210	98	75-125			
Matrix Spike Dup Analyzed: 05/25/10 (Lab Number:10E1866-MSD1, Batch: 10E1866)											
QC Source Sample: RTE1133-01											
Aluminum	3.20	10.0	0.200	0.045	mg/L	12.3	91	75-125	9	20	
Arsenic	ND	0.200	0.0100	0.0056	mg/L	0.205	103	75-125	2	20	
Barium	0.0647	0.200	0.0100	0.0003	mg/L	0.225	80	75-125	8	20	
Beryllium	ND	0.200	0.0040	0.0002	mg/L	0.202	101	75-125	1	20	
Cadmium	ND	0.200	0.0010	0.0003	mg/L	0.190	95	75-125	2	20	
Calcium	92.8	10.0	5.0	0.1	mg/L	99.9	71	75-125	1	20	MHA
Chromium	0.722	0.200	0.0100	0.0009	mg/L	0.397	-163	75-125	44	20	M1,R3
Cobalt	0.0207	0.200	0.0500	0.0006	mg/L	0.204	91	75-125	4	20	

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by SW 846 Series Methods											
Matrix Spike Dup Analyzed: 05/25/10 (Lab Number:10E1866-MSD1, Batch: 10E1866)											
QC Source Sample: RTE1133-01											
Copper	0.0360	0.200	0.0250	0.0015	mg/L	0.202	83	75-125	7	20	
Iron	22.7	10.0	0.050	0.019	mg/L	17.1	-56	75-125	32	20	M1,R3
Lead	0.00491	0.200	0.0050	0.0030	mg/L	0.199	97	75-125	1	20	
Magnesium	14.8	10.0	5.00	0.043	mg/L	24.4	96	75-125	1	20	
Manganese	1.68	0.200	0.0100	0.0002	mg/L	0.764	-458	75-125	40	20	MHA,R3
Nickel	0.236	0.200	0.0400	0.0013	mg/L	0.273	19	75-125	20	20	M1
Potassium	2.01	10.0	5.00	0.050	mg/L	12.0	100	75-125	3	20	
Selenium	ND	0.200	0.0150	0.0087	mg/L	0.197	99	75-125	2	20	
Silver	ND	0.0500	0.0100	0.0012	mg/L	0.0505	101	75-125	2	20	
Sodium	9.35	10.0	5.0	0.3	mg/L	19.2	99	75-125	0.4	20	
Vanadium	0.0104	0.200	0.0050	0.0011	mg/L	0.205	97	75-125	0.8	20	
Zinc	0.0143	0.200	0.0200	0.0017	mg/L	0.201	93	75-125	4	20	

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
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Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
Blank Analyzed: 05/24/10 (Lab Number:10E1702-BLK1, Batch: 10E1702)											
Total Kjeldahl Nitrogen			0.20	0.15	mg/L	ND					
LCS Analyzed: 05/24/10 (Lab Number:10E1702-BS1, Batch: 10E1702)											
Total Kjeldahl Nitrogen		2.50	0.20	0.15	mg/L	2.67	107	90-110			
General Chemistry Parameters											
Blank Analyzed: 05/21/10 (Lab Number:10E1735-BLK1, Batch: 10E1735)											
Alkalinity, Total			10.0	4.0	mg/L	7.4					J
LCS Analyzed: 05/21/10 (Lab Number:10E1735-BS1, Batch: 10E1735)											
Alkalinity, Total		50.0	10.0	4.0	mg/L	53.4	107	90-110			B
General Chemistry Parameters											
Blank Analyzed: 05/21/10 (Lab Number:10E1737-BLK1, Batch: 10E1737)											
Alkalinity, Total			10.0	4.0	mg/L	8.1					J
LCS Analyzed: 05/21/10 (Lab Number:10E1737-BS1, Batch: 10E1737)											
Alkalinity, Total		50.0	10.0	4.0	mg/L	49.4	99	90-110			B
General Chemistry Parameters											
Blank Analyzed: 05/21/10 (Lab Number:10E1738-BLK1, Batch: 10E1738)											
Alkalinity, Total			10.0	4.0	mg/L	7.1					J
LCS Analyzed: 05/21/10 (Lab Number:10E1738-BS1, Batch: 10E1738)											
Alkalinity, Total		50.0	10.0	4.0	mg/L	50.9	102	90-110			B
General Chemistry Parameters											
Blank Analyzed: 05/21/10 (Lab Number:10E1767-BLK1, Batch: 10E1767)											
Chemical Oxygen Demand			10.0	2.5	mg/L	ND					
LCS Analyzed: 05/21/10 (Lab Number:10E1767-BS1, Batch: 10E1767)											
Chemical Oxygen Demand		75.0	10.0	2.5	mg/L	71.4	95	90-110			
General Chemistry Parameters											
Blank Analyzed: 05/22/10 (Lab Number:10E1804-BLK1, Batch: 10E1804)											
Total Hardness			2.00	0.525	mg/L	ND					

Sterling Environmental Engineering
24 Wade Road
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SDG Number: RTE1068

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Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
LCS Analyzed: 05/22/10 (Lab Number:10E1804-BS1, Batch: 10E1804)											
Total Hardness		250	2.00	0.525	mg/L	235	94	90-110			
Duplicate Analyzed: 05/22/10 (Lab Number:10E1804-DUP2, Batch: 10E1804)											
QC Source Sample: RTE1068-13											
Total Hardness	30.4		2.00	0.525	mg/L	30.4			0.06	15	
General Chemistry Parameters											
Blank Analyzed: 05/22/10 (Lab Number:10E1805-BLK1, Batch: 10E1805)											
Chemical Oxygen Demand			10.0	2.5	mg/L	ND					
LCS Analyzed: 05/22/10 (Lab Number:10E1805-BS1, Batch: 10E1805)											
Chemical Oxygen Demand		25.0	10.0	2.5	mg/L	25.9	104	90-110			
Matrix Spike Analyzed: 05/22/10 (Lab Number:10E1805-MS1, Batch: 10E1805)											
QC Source Sample: RTE1133-01											
Chemical Oxygen Demand	17.7	50.0	20.0	5.0	mg/L	82.4	129	75-125			M11
Matrix Spike Dup Analyzed: 05/22/10 (Lab Number:10E1805-MSD1, Batch: 10E1805)											
QC Source Sample: RTE1133-01											
Chemical Oxygen Demand	17.7	50.0	20.0	5.0	mg/L	86.2	137	75-125	5	20	M11
General Chemistry Parameters											
Blank Analyzed: 05/24/10 (Lab Number:10E1889-BLK1, Batch: 10E1889)											
Chemical Oxygen Demand			10.0	2.5	mg/L	ND					
LCS Analyzed: 05/24/10 (Lab Number:10E1889-BS1, Batch: 10E1889)											
Chemical Oxygen Demand		25.0	10.0	2.5	mg/L	25.5	102	90-110			
General Chemistry Parameters											
Blank Analyzed: 05/25/10 (Lab Number:10E1998-BLK1, Batch: 10E1998)											
Total Hardness			2.00	0.525	mg/L	ND					
LCS Analyzed: 05/25/10 (Lab Number:10E1998-BS1, Batch: 10E1998)											
Total Hardness		250	2.00	0.525	mg/L	253	101	90-110			
General Chemistry Parameters											

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
Blank Analyzed: 05/26/10 (Lab Number:10E2005-BLK1, Batch: 10E2005)											
Total Kjeldahl Nitrogen			0.20	0.15	mg/L	ND					
LCS Analyzed: 05/26/10 (Lab Number:10E2005-BS1, Batch: 10E2005)											
Total Kjeldahl Nitrogen		2.50	0.20	0.15	mg/L	2.56	103	90-110			
Matrix Spike Analyzed: 05/26/10 (Lab Number:10E2005-MS1, Batch: 10E2005)											
QC Source Sample: RTE1133-01											
Total Kjeldahl Nitrogen	0.589	1.00	0.20	0.15	mg/L	1.40	81	72-127			
Matrix Spike Dup Analyzed: 05/26/10 (Lab Number:10E2005-MSD1, Batch: 10E2005)											
QC Source Sample: RTE1133-01											
Total Kjeldahl Nitrogen	0.589	1.00	0.20	0.15	mg/L	1.28	69	72-127	9	20	M15
General Chemistry Parameters											
Blank Analyzed: 05/25/10 (Lab Number:10E2016-BLK1, Batch: 10E2016)											
Chemical Oxygen Demand			10.0	2.5	mg/L	ND					
LCS Analyzed: 05/25/10 (Lab Number:10E2016-BS1, Batch: 10E2016)											
Chemical Oxygen Demand		25.0	10.0	2.5	mg/L	27.1	108	90-110			
General Chemistry Parameters											
Blank Analyzed: 05/27/10 (Lab Number:10E2261-BLK1, Batch: 10E2261)											
Alkalinity, Total			10.0	4.0	mg/L	6.8					J
LCS Analyzed: 05/27/10 (Lab Number:10E2261-BS1, Batch: 10E2261)											
Alkalinity, Total		50.0	10.0	4.0	mg/L	54.7	109	90-110			B
Matrix Spike Analyzed: 05/27/10 (Lab Number:10E2261-MS1, Batch: 10E2261)											
QC Source Sample: RTE1133-01											
Alkalinity, Total	267	200	100	40.0	mg/L	454	94	22-128			D08,B
Matrix Spike Dup Analyzed: 05/27/10 (Lab Number:10E2261-MSD1, Batch: 10E2261)											
QC Source Sample: RTE1133-01											
Alkalinity, Total	267	200	100	40.0	mg/L	454	94	22-128	0.000	20	D08,B
General Chemistry Parameters											
Blank Analyzed: 05/27/10 (Lab Number:10E2275-BLK1, Batch: 10E2275)											
Total Hardness			2.00	0.525	mg/L	ND					

Sterling Environmental Engineering
24 Wade Road
Latham, NY 12110

SDG Number: RTE1068

Project: Ramapo Monitoring
Project Number: Ramapo Monitoring

Received: 05/20/10-05/21/10
Reported: 06/04/10 09:50

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
LCS Analyzed: 05/27/10 (Lab Number:10E2275-BS1, Batch: 10E2275)											
Total Hardness		250	2.00	0.525	mg/L	240	96	90-110			
Matrix Spike Analyzed: 05/27/10 (Lab Number:10E2275-MS1, Batch: 10E2275)											
QC Source Sample: RTE1133-01											
Total Hardness	350	1000	2.00	0.525	mg/L	1380	103	74-130			
Matrix Spike Dup Analyzed: 05/27/10 (Lab Number:10E2275-MSD1, Batch: 10E2275)											
QC Source Sample: RTE1133-01											
Total Hardness	350	1000	2.00	0.525	mg/L	1460	111	74-130	6	15	
General Chemistry Parameters											
Blank Analyzed: 05/27/10 (Lab Number:10E2299-BLK1, Batch: 10E2299)											
Alkalinity, Total			10.0	4.0	mg/L	4.6					J
LCS Analyzed: 05/27/10 (Lab Number:10E2299-BS1, Batch: 10E2299)											
Alkalinity, Total		50.0	10.0	4.0	mg/L	49.4	99	90-110			B

Chain of Custody Record

TAL-4124 (1007)

Temperature on Receipt ______

Drinking Water? Yes☐ No☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client	Project Manager	Date	Chain of Custody Number
Sterling Environmental Engineering, P.C.	Jessica Sgambati	5/19/10	179843
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page ___ of ___**
24 Wade Rd	518-456-4900 / 518-456-3532		
City Latham · **State** NY · **Zip Code** 12110	**Site Contact** · **Lab Contact**		
Project Name and Location (State) Town of Rensselaer Landfill	**Carrier/Waybill Number**		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TKN COD	Alkalinity	Herbicides	1,1,1-Trichloroethane	Vinyl Chloride	Benzene	Chlorobenzene	TAL metals	Special Instructions/Conditions of Receipt
SVWC No 93	5/19/10	12:00		X			1	1	3	4			X	X	X	X	X	X	X	X	Please use the required
SVWC No 95	↓	12:27		X			1	1	3	4			↓	↓	↓	↓	↓	↓	↓	↓	methods and reporting
SVWC No 96	↓	12:19		X			1	1	3	4			↓	↓	↓	↓	↓	↓	↓	↓	limits that I sent
8-I	↓	14:26		X			1	1	3	4			↓	↓	↓	↓	↓	↓	↓	↓	you via email.
8-OS	↓	14:05		X			1	1	3	4			↓	↓	↓	↓	↓	↓	↓	↓	Thank you!
8-R	↓	14:40		X			1	1	3	4			↓	↓	↓	↓	↓	↓	↓	↓	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other Standard TAT

QC Requirements (Specify)

Relinquished By	Date	Time	Received By	Date	Time
1. [signature]	5/19/10	15:30	1. [signature]	5/20/10	0900
2.			2.		
3.			3.		

Comments

3.0 °C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TAL-4124 (1007)

Temperature on Receipt ______

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: Sterling Environmental Engineering, P.C.	Project Manager: Jessica Szembski	Date: 5/19/10	Chain of Custody Number: 179844
Address: 24 Wade Rd.	Telephone Number (Area Code)/Fax Number: 518-456-4900 / 518-456-3532	Lab Number	Page ___ of ___
City: Latham State: NY Zip Code: 12110	Site Contact / Lab Contact		
Project Name and Location (State): Town of Ramapo Landfill	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed): TKN, COD; Alkalinity; Hardness as CaCO3; [illegible]; 1,1-Dichloroethane; Vinyl Chloride; Benzene; Chlorobenzene; TAL metals

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TKN, COD	Alkalinity	Hardness as CaCO3	[illegible]	1,1-Dichloroethane	Vinyl Chloride	Benzene	Chlorobenzene	TAL metals	Special Instructions/ Conditions of Receipt
7-05	5/19/10	13:15		X			1	1	3	4			X	X	X	X	X	X	X	X	X	Please use the required methods and reporting limits that I sent you via email. Thank you
PW-1	↓	16:00		↓			1	1	3	4			↓	↓	↓	↓	↓	↓	↓	↓	↓	
PW-2	↓	16:15		↓			1	1	3	4			↓	↓	↓	↓	↓	↓	↓	↓	↓	
3 05/7	↓	16:40		↓			1	1	3	4			↓	↓	↓	↓	↓	↓	↓	↓	↓	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other std. TAT

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	5/19/10	18:30	1. Received By: [signature]	5/20/10	09:00
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: 3.0 2.0

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt ______

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Sterling Environmental Engineering, P.C.
Address: 24 Wade Rd.
City: Latham State: NY Zip Code: 12110
Project Name and Location (State): Town of Rensselaer? Landfill
Contract/Purchase Order/Quote No.:

Project Manager: Jessica Spencer?
Telephone Number (Area Code)/Fax Number: 518-456-4900 / 518-456-3532
Site Contact:
Lab Contact:
Carrier/Waybill Number:

Date: 5/18/10
Lab Number:
Chain of Custody Number: 179845
Page ____ of ____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): TKN, COD	Alkalinity	Hardness, Chlorides?	[illegible]	Vinyl Chloride	Benzene	Chlorobenzene?	TAL metals	Special Instructions/ Conditions of Receipt
9-I	5/18/10	13:50		✓			1	1	3	4			✓	✓	✓	✓	✓	✓	✓	✓	Please use the required methods and reporting limits that I sent you via email. Rashya?
9-R	↓	15:40		↓			↓	↓	↓	↓			↓	↓	↓	↓	↓	↓	↓	↓	
9-DS	↓	15:25		↓			↓	↓	↓	↓			↓	↓	↓	↓	↓	↓	↓	↓	
1-DS	↓	17:25		↓			↓	↓	↓	↓			↓	↓	↓	↓	↓	↓	↓	↓	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other SW, TBD?

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: [signature]	5/18/10	18:30	1. Received By: [signature]	5/20/10	0900
2. Relinquished By:			2. Received By:		
3. Relinquished By:			3. Received By:		

Comments: 3.0°C?

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TAL-4124 (1007)

Temperature on Receipt ___

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: Sterling Environmental Engineering, P.C.	Project Manager: Jessica Sgambati	Date: 5/20/10	Chain of Custody Number: 160003
Address: 24 Wade Rd.	Telephone Number (Area Code)/Fax Number: 518-456-4900 / 518-456-3532	Lab Number	Page ___ of ___
City: Latham; State: NY; Zip Code: 12110	Site Contact; Lab Contact		
Project Name and Location (State): Town of Ramapo Landfill	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed): TKN, COD, Alkalinity, Hardness (as CaCO3), 1,1-Dichloroethane, Vinyl Chloride, Benzene, Chlorobenzene, TAL metals

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TKN, COD	Alkalinity	Hardness (as CaCO3)	1,1-Dichloroethane	Vinyl Chloride	Benzene	Chlorobenzene	TAL metals	Special Instructions/ Conditions of Receipt
2-05	5/20/10	9:15		✓			1	1	3	4			✓	✓	✓	✓	✓	✓	✓	✓	Please use the required
4-05	↓	10:00		↓			↓	↓	↓	↓			↓	↓	↓	↓	↓	↓	↓	↓	methods and reporting
5-05	↓	12:15		↓			↓	↓	↓	↓			↓	↓	↓	↓	↓	↓	↓	↓	limits that I sent you
MS	↓	9:20		↓			↓	↓	↓	↓			↓	↓	↓	↓	↓	↓	↓	↓	via email.
MSD	↓	9:25		↓			↓	↓	↓	↓			↓	↓	↓	↓	↓	↓	↓	↓	Thank you!
Blind Duplicate	↓	9:30		↓			↓	↓	↓	↓			↓	↓	↓	↓	↓	↓	↓	↓	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

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Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Std. TAT

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	5/20/10	14:00	1. Received By: [signature]	5/21/10	08:30
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

2.0°

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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