

STERLING
Sterling Environmental Engineering, P.C.

May 1, 2007

Mr. Jim Schreyer
New York State Department of Environmental Conservation
Region 3
21 South Putt Corners road
New Paltz, New York 12561-1696

Subject: Town of Ramapo Landfill
2007 Additional Groundwater Sampling Results
STERLING File #20010

Dear Mr. Schreyer,

On March 27, 2007, Sterling Environmental Engineering, P.C. (STERLING) conducted additional groundwater sampling at the Town of Ramapo Landfill for monitoring wells 4-OS, 4-R, 7-R, 8-OS, 8-I, 8-R, 9-OS, 9-I, 9-R and community water supply well, PW-1, located at the Tome Brook Farm as required in the New York State Department of Environmental Conservation (NYSDEC) letter dated January 9, 2007.

The wells were analyzed for the full list of Volatile and Semi-Volatile Organic Compounds (VOCs and SVOCs) plus Tentatively Identified Compounds (TICs) by USEPA Methods 8260 and 8270. Depth to water and PID headspace readings were measured at each of the nine (9) monitoring wells.

Results from the laboratory analysis, performed by Life Science Laboratories, Inc., East Syracuse, New York indicate there are no parameter exceedances in any of the nine (9) monitoring wells and community water supply well samples. Tables 1A and 1B summarize the analytical results of parameters detected at one or more locations. A copy of the laboratory report is enclosed. Table 2 (attached) provides the depth to water measurements and PID headspace readings obtained in the field for each monitoring well.

Please contact me should you have questions or comments.

Very truly yours,

STERLING ENVIRONMENTAL ENGINEERING, P.C.



Jessica Sgambati
Environmental Consultant
jessica@sterlingenvironmental.com

JS/bc
Email/First Class Mail
Enclosure

cc: Ed Moran, Town of Ramapo
George Jacob, USEPA
Joseph Crua, NYSDOH
Judy Hunderfund, Rockland County DOH
Katherine Quinn, Rockland County DOH
John France, Torne Brook Farm
Arlene Lapidos, Ramapo Land Co., Inc.

20010/Correspondence/2007 Add. GW Sampling Cover Letter.doc

Table 1A
 Additional Groundwater Monitoring Event
 March 27, 2007
 Volatile Organic Compounds Analytical Results
 Town of Ramapo Landfill

Parameters	Groundwater Standards or Guidance Value **	Units	4-OS	4-R	7-R	8-OS	8-R	8-I
1,1-Dichloroethane	5.0	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.20 J	0.5 U
1,4-Dichlorobenzene	3.0	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.14 J	0.47 J
Acetone	--	ug/L	10 U	10 U	10 U	10 U	10 U	5.06 J
Benzene	1.0	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.11 J
Chlorobenzene	5.0	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.12 J	0.86
Methyl tert-butyl ether	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.56	0.11 J
Methylene Chloride	5.0	ug/L	2 U	0.13 J	2 U	2 U	2 U	2 U

Notes:

** Water Quality Standards obtained from Title 6 Part 703.5 and Guidance Values obtained from NYSDEC TOGS (1.1.1)
 "Ambient Water Quality Standards and Guidance Values".

-- Denotes no standard or guidance value available.

No other volatile organic compounds other than those listed were detected for the March 27, 2007 sample event.

J - the analyte was detected below the Practical Quantitative Limit (PQL).

U - Not detected at PQL value shown.

Table 1A (cont.)
Additional Groundwater Monitoring Event
March 27, 2007
Volatile Organic Compounds Analytical Results
Town of Ramapo Landfill

Parameters	Groundwater Standards or Guidance Value **	Units	9-OS	9-R	9-I	PW-1	DUP 3-27
1,1-Dichloroethane	5.0	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.19 J
1,4-Dichlorobenzene	3.0	ug/L	0.5 U	0.25 J	0.5 U	0.5 U	0.11 J
Acetone	---	ug/L	10 U	10 U	10 U	10 U	10 U
Benzene	1.0	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5.0	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.12 J
Methyl tert-butyl ether	---	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.48 J
Methylene Chloride	5.0	ug/L	0.24 J	2 U	2 U	0.14 J	0.13 J

Notes:

** Water Quality Standards obtained from Title 6 Part 703.5 and Guidance Values obtained from NYSDDEC TOGGS (1.1.1)
 "Ambient Water Quality Standards and Guidance Values".

--- Denotes no standard or guidance value available.

No other volatile organic compounds other than those listed were detected for the March 27, 2007 sample event.

J - the analyte was detected below the Practical Quantitative Limit (PQL).

U - Not detected at PQL value shown.

Table 1B
Additional Groundwater Monitoring Event
March 27, 2007
Semi-Volatile Organic Compounds Analytical Results
Town of Ramapo Landfill

Parameters	Groundwater Standards or Guidance Value **	Units	4-OS	4-R	7-R	8-OS	8-R	8-I
bis(2-Ethylhexyl)phthalate	5.0	ug/L	10 U	2.4 J	2.4 J	10 U	10 U	10 U
Di-n-butyl phthalate	---	ug/L	10 U	10 U	10 U	2.1 J	2.0 J	3.0 J

Notes:

** Water Quality Standards obtained from Title 6 Part 703.5 and Guidance Values obtained from NYSDEC TOGS (1.1.1)
 "Ambient Water Quality Standards and Guidance Values".

-- Denotes no standard or guidance value available.

No other volatile organic compounds other than those listed were detected for the March 27, 2007 sample event.

J - the analyte was detected below the Practical Quantitative Limit (PQL).

U - Not detected at PQL value shown.

Table 1B (cont.)
Additional Groundwater Monitoring Event
March 27, 2007
Semi-Volatile Organic Compounds Analytical Results
Town of Ramapo Landfill

Parameters	Groundwater Standards or Guidance Value **	Units	9-OS	9-R	9-I	PW-1	DUP 3-27
bis(2-Ethylhexyl)phthalate	5.0	ug/L	10 U	10 U	1.2 J	6.1 J	10 U
Din-butyl phthalate	—	ug/L	10 U	1.6 J	2.2 J	2.4 J	3.1 J

Notes:

** Water Quality Standards obtained from Title 6 Part 703.5 and Guidance Values obtained from NYSDEC TOGS (1.1.1)
 "Ambient Water Quality Standards and Guidance Values".

-- Denotes no standard or guidance value available.

No other volatile organic compounds other than those listed were detected for the March 27, 2007 sample event.

J - the analyte was detected below the Practical Quantitative Limit (PQL).

U - Not detected at PQL value shown.

TOWN OF RAMAPO LANDFILL

TABLE 2

**PID Readings and Depth to Water (DTW) Measurements
March 27, 2007**

Well	PID (ppm)	DTW (ft.)
4-OS	0.2	5.82
4-R	0.0	7.66
7-R	0.0	13.19
8-OS	0.0	13.40
8-I	0.0	14.15
8-R	0.0	12.93
9-OS	0.0	6.28
9-I	0.0	9.50
9-R	0.0	10.50

Note: PID headspace measurements were obtained immediately after well cap was removed. Depth to water (DTW) was measured from top of casing.

20010/Reports/PID and DTW Measurements Table_032707.doc