

URS Greiner Woodward Clyde

A Division of URS Corporation

August 6, 1999

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Mr. Joseph Yavonditte, Project Manager
New York State Department of Environmental Conservation
Division of Hazardous Waste Remediation
50 Wolf Road
Albany, New York 12233-7010

RECEIVED
AUG 17 1999
BUREAU OF
Hazardous Waste SITE CONTROL
DIVISION OF HAZARDOUS
WASTE REMEDIATION

Re: Ramapo Landfill Remediation - Results of 1999 Second Monitoring Event

Dear Mr. Yavonditte:

Attached are the results of the Ramapo Landfill Remediation project second monitoring event for 1999. This document provides the validated analytical results for this sampling event (Tables 1 and 2) as well as historical analytical data tables for the four target compounds, i.e., benzene, chromium, iron, and manganese (Tables 3 through 6). Samples were collected the week of June 14, 1999. Locations sampled are shown in Figure 1.

Samples from wells PW-1, PW-2, MW-8-OS, and MW-8-R and well cluster 9 were analyzed for all routine and site-related parameters, except for metals. These samples were analyzed for the baseline metal parameters (an expanded list compared to the schedule for this sampling event) due to an error by laboratory staff. No extra charges were incurred for these additional data. Samples from wells MW-8-I and SVWC-93 through -96 were analyzed for baseline parameters. These five wells were not sampled during the March sampling event when baseline monitoring is normally conducted because the wells were either inoperable or obstructed. All analytical results are within normal range. No organic compounds were detected in any of the samples.

Please feel free to call if you have any questions or wish to discuss.

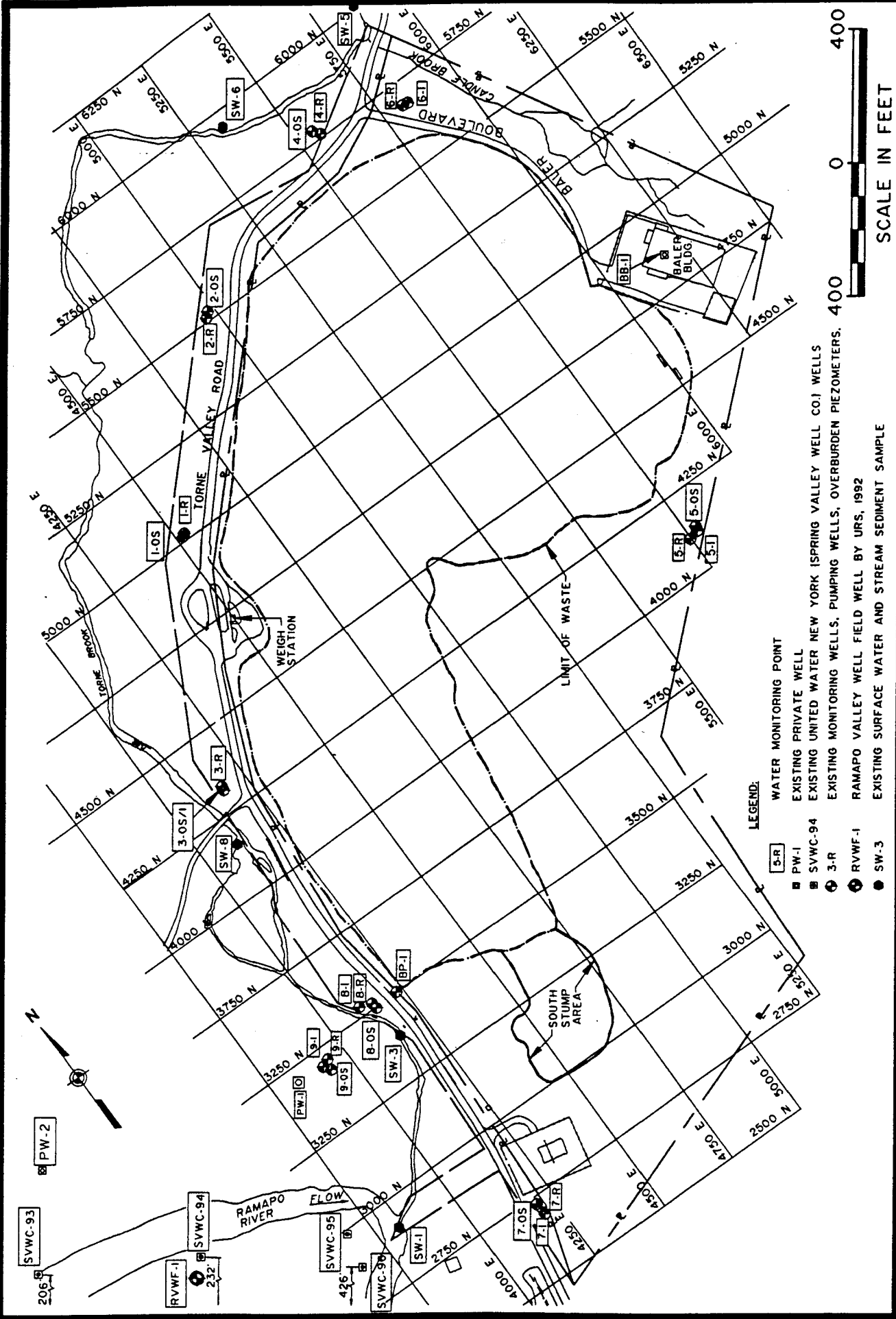
Sincerely,

URS Greiner Woodward Clyde


James Lanzo, P.E.
Project Manager

Enclosure

cc: Supervisor Reisman - Town of Ramapo
Mr. T. Dzurinko - Town of Ramapo
Mr. A. Simon - Town of Ramapo
Mr. R. Nunes - USEPA
Mr. G. Laccetti - NYSDOH
Mr. T. Hughes - NYSDEC
Ms. A. Lapidus - Ramapo Land Co., Inc.
Mr. G. Demas - Torne Brook Farm
Mr. R. Ofeldt - United Water New York
Mr. T. Parashkevov - United Water New Jersey
Mr. T. Micelli - Rockland County DOH
Ms. J. Hunderfund - Rockland County DOH
Mr. C. Flanagan
File: 05-35559.10 (C-1)



RAMAPO LANDFILL
SAMPLE LOCATIONS

FIGURE 1

TABLE 1
RAMAPO LANDFILL - JUNE 1999 SAMPLING
GROUNDWATER SAMPLES

	Concentration (µg/L)							
Analyte	8-I	8-OS	8-R	9-I	9-OS	9-R	ARARs* (µg/L)	
Aluminum	147	45.4	14.8	306	183	46.5	-	
Arsenic	11.7	-	-	-	-	-	25	
Barium	37.2	8.9	37.3	13.4	15.3	12.7	1000	
Beryllium	-	1.1	1.4	1.4	1.3	1.3	-	
Cadmium	-	-	-	1.3	-	3	5	
Calcium	22600	16000	126000	12700	13000	13000	-	
Chromium	56.8	20.2	2	6.8	1.1	15	50	
Cobalt	1.2	-	8.4	-	-	-	-	
Copper	37.2	12	12.7	10	9.5	12.8	200	
Iron	19100	473	1140	949	515	4360	300**	
Lead	5.5	-	2.5	-	-	-	25	
Magnesium	4870	3470	32900	3040	3110	3720	35000 (G)	
Manganese	1050	1400	1900	18	15.1	1620	300**	
Nickel	34	1.1	15.7	2.2	-	6.6	100	
Potassium	5750	1820	16400	1020	1260	6180	-	
Sodium	16100	4980	43400	5610	5500	13100	20000	
Vanadium	1.7	-	-	-	-	-	-	
Zinc	27.6	21.9	20.3	18.1	23.8	28.6	2000 (G)	

Only detected results reported.

* - NYSDC Water Quality Standards and Guidance Values, TOGS 1.1.1, June 1998, Table 1. (G) - denotes guidance value only, not standard

** - Iron and manganese combined have a standard of 500 µg/L.

TABLE 1
RAMAPO LANDFILL - JUNE 1999 SAMPLING
DRINKING WATER SAMPLES

Analyte	Concentration (µg/L)						ARARs*
	PW-1	PW-2	SVWC-93	SVWC-94	SVWC-95	SVWC-96	
Aluminum	29.8	26.3	35.5	29.1	24.4	25.5	-
Arsenic	9.7	7.1	-	-	-	-	25
Barium	6.5	4.1	8.2	10.7	12	8.4	1000
Calcium	9190	46600	18100	20400	20400	20300	-
Copper	97.2	29.1	25.8	32.3	25.8	29.1	200
Iron	163	114	169	83.1	90.1	67.8	300**
Lead	2.5	-	2.7	-	-	-	25
Magnesium	2290	5310	4190	4940	5010	5350	35000 (G)
Manganese	1.9	6.6	2.5	4.3	40.6	1.6	300**
Nickel	1.1	1.2	2.7	4.1	3.3	3.8	100
Potassium	544	1110	1240	1110	1610	1270	-
Sodium	4300	13200	31600	33400	32900	30400	20000
Thallium	-	-	-	-	-	7.2	0.5 (G)
Zinc	57.4	55.3	21.4	19.4	15.1	20	2000 (G)

Only detected results reported.

* - NYSDEC Water Quality Standards and Guidance Values, TOGS 1.1.1, June 1998, Table 1. (G) - denotes guidance value only, not standard

** - Iron and manganese combined have a standard of 500 µg/L.

TABLE 2
RAMAPO LANDFILL - JUNE 1999 SAMPLING
GROUNDWATER SAMPLES

Analyte	Concentration (mg/L)					
	8-I	8-OS	8-R	9-I	9-OS	9-R
TKN	8.4	1.4	14	1.54	1.4	8.4
Total Alkalinity	111	32.5	346	6.2	4	83.5
Total Hardness	112	64.3	542	45.2	50.3	68.7

Only detected results reported.

TABLE 2
RAMAPO LANDFILL - JUNE 1999 SAMPLING
DRINKING WATER SAMPLES

Analyte	Concentration (mg/L)				
	PW-1	PW-2	SVWC-93	SVWC-94	SVWC-95
TKN	-	-	1.68	1.4	1.4
Total Alkalinity	9	77.5	37.5	46.5	53
Total Hardness	28.7	170	59	96.3	82.1
					99.3

Only detected results reported.

TABLE 3
RAMAPO LANDFILL
GROUNDWATER AND SURFACE WATER
MONITORING DATA
COMPOUND: Benzene

Sample ID	Date of Sampling Event									
	1/90	9/90	1/93	4/93	9/93	12/93	3/94	6/94	9/94	12/94
1-OS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-OS	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
2-R	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
3-OS/I	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-OS	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND
4-R	1.0	1.0	ND	0.7	ND	ND	ND	ND	ND	ND
5-OS	2.0	ND	ND	ND	NA	NA	NA	ND	NA	NA
5-I	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
5-R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6-I	NA	0.2	ND	ND	ND	ND	ND	ND	ND	ND
6-R	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
7-OS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7-R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8-OS	2.0	0.3	ND	ND	ND	ND	ND	ND	ND	ND
8-I	2.0	2.9	NA	ND	ND	ND	ND	ND	ND	2.0
8-R	3.0	0.4	ND	0.9	ND	ND	ND	ND	ND	ND
9-OS	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND
9-I	NA	0.2	NA	NA	NA	NA	ND	ND	ND	ND
9-R	NA	0.9	ND	ND	ND	NA	ND	ND	ND	1.0
PW-1	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND
PW-2	NA	NA *	ND	ND	ND	NA	NA	NA	ND	ND
PW-3	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA
BP-1	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA
BB-1	NA	NA	ND	ND	ND	NA	ND	ND	ND	ND
RVWF-1	NA	NA	ND	ND	ND	NA	ND	ND	ND	ND
SVWC-93	NA	NA	ND	ND	NA	NA	ND	ND	ND	ND
SVWC-94	NA	NA	ND	ND	NA	NA	ND	ND	ND	1.0
SVWC-95	NA	NA	ND	ND	ND	NA	ND	ND	ND	ND
SVWC-96	NA	NA	ND	ND	NA	NA	ND	ND	ND	ND
Surface Water										
Sample ID	Date of Sampling Event									
	10/89	7/90	1/93	4/93	9/93	12/93	3/94	6/94	9/94	12/94
SW-1	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
SW-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-8	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes: Concentration reported in µg/L (ppb).

ND - Not detected

NA - Not applicable (e.g. well not installed by this date or if installed, not sampled)

* NYSDOH results from 3/92 sampling.

- Exceeded ARAR value of 0.7 ppb for groundwater.

TABLE 3 (Cont.)

**RAMAPO LANDFILL
MONITORING DATA
COMPOUND: Benzene**

Sample ID	Sample Type	Date of Sampling Event									
		3/95	6/95	9/95	12/95	03/96	06/96	09/96	12/96	3/97	6/97
1-OS	Groundwater	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA
1-R	Groundwater	ND	ND	ND	ND	ND	NA	ND	NA	ND	NA
2-OS	Groundwater	ND	ND	NA	ND	ND	NA	NA	NA	ND	NA
2-R	Groundwater	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA
3-OS/I	Groundwater	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA
3-R	Groundwater	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA
4-OS	Groundwater	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA
4-R	Groundwater	ND	ND	ND	ND	ND	NA	ND	NA	ND	NA
5-OS	Groundwater	NA	ND	NA	NA	ND	NA	NA	NA	ND	NA
5-I	Groundwater	ND	NA	NA	ND	NA	NA	ND	NA	NA	NA
5-R	Groundwater	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA
6-I	Groundwater	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA
6-R	Groundwater	ND	0.5	ND	ND	ND	NA	NA	NA	ND	NA
7-OS	Groundwater	ND	NA	NA	ND	ND	NA	ND	NA	ND	NA
7-I	Groundwater	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
7-R	Groundwater	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA
8-OS	Groundwater	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
8-I	Groundwater	ND	ND	ND	2	2	2	2	3	ND	ND
8-R	Groundwater	2	0.9	ND	0.65	ND	ND	ND	ND	ND	ND
9-OS	Groundwater	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
9-I	Groundwater	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-R	Groundwater	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BP-1	Groundwater	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BB-1	Groundwater	ND	ND	NA	ND	ND	NA	ND	NA	NA	NA
RVWF-1	Groundwater	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND
PW-1	Drinking Water	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PW-2	Drinking Water	NA	0.5	ND	ND	ND	ND	ND	ND	ND	ND
PW-3	Drinking Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVWC-93	Drinking Water	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVWC-94	Drinking Water	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVWC-95	Drinking Water	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVWC-96	Drinking Water	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND
SW-1	Surface Water	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA
SW-5	Surface Water	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA
SW-6	Surface Water	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA
SW-8	Surface Water	ND	ND	NA	ND	ND	NA	ND	NA	ND	NA

Notes:

Concentration reported in µg/L (ppb).

ND - Not detected

NA - Not applicable (e.g. well not installed by this date or if installed, not sampled)

 - Exceeded ARAR value of 0.7 ppb for groundwater.

TABLE 3 (Cont.)
RAMAPO LANDFILL
GROUNDWATER, DRINKING WATER, AND SURFACE WATER
MONITORING DATA
COMPOUND: Benzene

Sample ID	Sample Type	Date of Sampling Event						
		9/97	12/97	3/98	6/98	9/98	3/99	6/99
1-OS	Groundwater	ND	NA	ND	NA	ND	ND	NA
1-R	Groundwater	ND	NA	ND	NA	ND	ND	NA
2-OS	Groundwater	ND	NA	ND	NA	ND	ND	NA
2-R	Groundwater	ND	NA	ND	NA	ND	ND	NA
3-OS/I	Groundwater	ND	NA	ND	NA	ND	ND	NA
3-R	Groundwater	ND	NA	ND	NA	ND	ND	NA
4-OS	Groundwater	ND	NA	ND	NA	ND	ND	NA
4-R	Groundwater	ND	NA	ND	NA	ND	ND	NA
5-OS	Groundwater	NA	NA	NA	NA	NA	ND	NA
5-I	Groundwater	ND	NA	ND	NA	ND	NA	NA
5-R	Groundwater	ND	NA	ND	NA	ND	ND	NA
6-I	Groundwater	ND	NA	NA	NA	NA	NA	NA
6-R	Groundwater	ND	NA	NA	NA	NA	NA	NA
7-OS	Groundwater	ND	NA	ND	NA	ND	ND	NA
7-I	Groundwater	NA	NA	NA	NA	NA	NA	NA
7-R	Groundwater	ND	NA	ND	NA	ND	ND	NA
8-OS	Groundwater	ND	ND	ND	ND	ND	ND	ND
8-I	Groundwater	2	ND	ND	ND	ND	NA	ND
8-R	Groundwater	ND	2	ND	ND	ND	ND	ND
9-OS	Groundwater	ND	ND	ND	ND	ND	ND	ND
9-I	Groundwater	ND	ND	ND	ND	ND	ND	ND
9-R	Groundwater	ND	ND	ND	ND	ND	ND	ND
BP-1	Groundwater	NA	NA	NA	NA	NA	NA	NA
BB-1	Groundwater	ND	NA	NA	NA	NA	NA	NA
RVWF-1	Groundwater	ND	ND	NA	NA	ND	NA	NA
PW-1	Drinking Water	ND	ND	ND	ND	ND	ND	ND
PW-2	Drinking Water	NA	ND	ND	ND	ND	ND	ND
PW-3	Drinking Water	NA	NA	NA	NA	NA	NA	NA
SVWC-93	Drinking Water	ND	ND	ND	ND	ND	NA	ND
SVWC-94	Drinking Water	ND	NA	ND	ND	ND	NA	ND
SVWC-95	Drinking Water	ND	NA	ND	ND	ND	NA	ND
SVWC-96	Drinking Water	ND	ND	ND	NA	ND	NA	ND
SW-1	Surface Water	ND	NA	NA	NA	NA	NA	NA
SW-5	Surface Water	ND	NA	NA	NA	NA	NA	NA
SW-6	Surface Water	ND	NA	NA	NA	NA	NA	NA
SW-8	Surface Water	ND	NA	NA	NA	NA	NA	NA

Notes:

Concentration reported in µg/L (ppb).

ND - Not detected

NA - Not applicable (e.g. well not installed by this date or if installed, not sampled)

Exceeded ARAR value of 1.0 ppb for groundwater (June 1998). (Previous value of 0.7 ppb October, 1993)

TABLE 4
RAMAPO LANDFILL
GROUNDWATER AND SURFACE WATER
MONITORING DATA
COMPOUND: Chromium

Sample ID	Date of Sampling Event									
	1/90	9/90	1/93	4/93	9/93	12/93	3/94	6/94	9/94	12/94
1-OS	153	57.3	8	ND	60.0	257.0	65.5	7.2	284	134
1-R	39.7	17.5	ND	ND	84.9	46.8	10.3	ND	39.3	58.3
2-OS	180	141	NA	ND	50.2	95.9	11.8	89.3	45.9	25.1
2-R	16.1	5.5	NA	ND	14.8	6.1	ND	5.1	8.3	4.9
3-OS/I	587	1290	807	40.4	1350	1100	784	304	561	1020
3-R	28	11.4	ND	ND	ND	14.7	10.5	17.8	4.8	4.9
4-OS	139	40.1	5.8	ND	10.8	11.2	15.1	25.4	23.1	53.1
4-R	35.5	13.1	ND	8.8	ND	5.9	4.4	ND	13.3	2
5-OS	90	35.6	48.8	ND	NA	NA	NA	NA	NA	NA
5-I	NA	NA	NA	NA	NA	80	30.2	7.2	40	63.1
5-R	27.4	29.3	6.8	ND	ND	8.6	13.8	6.3	52.3	105
6-I	NA	28.7	ND	ND	13.4	17.0	32.7	9.5	488	9.9
6-R	NA	31.1	24	34.8	27.7	67.4	71.3	27.1	37.7	13.6
7-OS	33.5	40.1	24.2	13.0	1890	218	31	210	571	258
7-R	16.2	16.8	ND	ND	ND	ND	ND	5.3	8.6	3.4
8-OS	34.8	16.7	ND	ND	ND	7.6	86.6	28.7	13.2	4.2
8-I	215	32.5	NA	ND	ND	ND	29	17	12.8	8.4
8-R	20	23.1	9.9	ND	17.7	18.2	7.5	17.0	10.4	6.8
9-OS	NA	6.8	ND	ND	ND	ND	22.9	27.1	14.8	2.9
9-I	NA	8.1	NA	NA	NA	NA	28	ND	2.4	5.8
9-R	NA	8.8	3.9	16.4	16.7	11.6	35.4	48.2	29.9	10.5
PW-1	NA	ND	ND	ND	ND	ND	ND	ND	0.6	ND
PW-2	NA	ND *	ND	ND	ND	4.9	NA	ND	ND	ND
PW-3	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA
BP-1	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA
BB-1	NA	NA	ND	ND	ND	ND	ND	ND	1.2	ND
RVWF-1	NA	NA	25.2	14.7	13.2	20.5	8.4	ND	ND	ND
SVWC-93	NA	NA	ND	ND	NA	ND	ND	ND	ND	ND
SVWC-94	NA	NA	ND	ND	NA	NA	ND	ND	ND	0.97
SVWC-95	NA	NA	ND	ND	ND	NA	ND	ND	ND	ND
SVWC-96	NA	NA	ND	ND	NA	ND	ND	ND	ND	0.87
Surface Water										
Sample ID	Date of Sampling Event									
	10/89	7/90	1/93	4/93	9/93	12/93	3/94	6/94	9/94	12/94
SW-1	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
SW-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-6	NA	ND	ND	ND	ND	5.1	ND	ND	ND	ND
SW-8	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes: Concentration reported in µg/L (ppb).

ND - Not detected

NA - Not applicable (e.g. well not installed by this date or if installed, not sampled)

* NYSDOH results from 3/92 sampling.

- Exceeded ARAR value of 50 ppb for groundwater.

- Exceeded ARAR value of 50 ppb for surface water.

The ARAR for SW-1 (Class A water body) is 50 ppb.

TABLE 4 (Cont.)

**RAMAPO LANDFILL
MONITORING DATA
COMPOUND: Chromium**

Sample ID	Sample Type	Date of Sampling Event									
		3/95	6/95	9/95	12/95	03/96	06/96	09/96	12/96	3/97	6/97
1-OS	Groundwater	727	17	102	70.5	127	NA	102	NA	88	NA
1-R	Groundwater	146	49.5	136	42.8	133	NA	176	NA	200	NA
2-OS	Groundwater	39.7	34.1	137	50.3	83.6	NA	NA	NA	ND	NA
2-R	Groundwater	4.4	ND	5.0	5.7	ND	NA	20.7	NA	160	NA
3-OS/I	Groundwater	144	406	589	253	372	NA	29.7	NA	25	NA
3-R	Groundwater	3.6	2.0	10.3	7.0	ND	NA	24.2	NA	27	NA
4-OS	Groundwater	21.1	ND	38.8	12.2	11	NA	6.2	NA	ND	NA
4-R	Groundwater	2.5	ND	9.0	5.8	ND	NA	1.8	NA	ND	NA
5-OS	Groundwater	NA	39.0	NA	NA	216	NA	NA	NA	19	NA
5-I	Groundwater	109	NA	17.4	22.4	NA	NA	8	NA	NA	NA
5-R	Groundwater	19.9	7.9	22.9	27.9	10.1	NA	7.2	NA	10	NA
6-I	Groundwater	6.9	9.1	22.6	13.3	6.3	NA	7.6	NA	ND	NA
6-R	Groundwater	11.9	8.4	13.4	44.6	145	NA	NA	NA	120	NA
7-OS	Groundwater	324	NA	NA	37	125	NA	4.4	NA	41	NA
7-I	Groundwater	NA	34.8	49.2	NA	NA	NA	NA	NA	NA	NA
7-R	Groundwater	2.8	12.4	13.4	9.2	ND	NA	3.4	NA	ND	NA
8-OS	Groundwater	129	40.4	13.9	7.2	62.2	35.8	15.9	20	ND	ND
8-I	Groundwater	8.0	3.4	24.1	29.2	12.3	26.2	17.4	110	17	10
8-R	Groundwater	6.3	10.1	13.4	8.5	6.7	23.8	20.4	ND	ND	20
9-OS	Groundwater	6.6	7.6	NA	NA	9.8	11.2	5.2	ND	ND	10
9-I	Groundwater	3.9	8.0	34.6	25.3	8.1	11.4	4.8	ND	ND	ND
9-R	Groundwater	16.9	26.5	66.7	45.4	43.8	12.8	23.8	90	ND	20
BP-1	Groundwater	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BB-1	Groundwater	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA
RVWF-1	Groundwater	ND	ND	ND	ND	ND	NA	0.58	NA	ND	ND
PW-1	Drinking Water	0.8	ND	ND	ND	ND	ND	0.43	20	ND	ND
PW-2	Drinking Water	NA	ND	ND	ND	ND	0.94	ND	ND	ND	ND
PW-3	Drinking Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVWC-93	Drinking Water	ND	ND	NA	ND	ND	ND	0.89	ND	ND	ND
SVWC-94	Drinking Water	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
SVWC-95	Drinking Water	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
SVWC-96	Drinking Water	ND	1.7	NA	ND	ND	ND	1.3	NA	NA	ND
SW-1	Surface Water	ND	ND	ND	ND	ND	NA	1.2	NA	ND	NA
SW-5	Surface Water	ND	ND	ND	3.3	ND	NA	0.9	NA	ND	NA
SW-6	Surface Water	ND	ND	ND	3.7	ND	NA	1	NA	ND	NA
SW-8	Surface Water	0.67	ND	ND	ND	ND	NA	1.1	NA	ND	NA

Notes:

Concentration reported in µg/L (ppb).

ND - Not detected

NA - Not applicable (e.g. well not installed by this date or if installed, not sampled)

Exceeded ARAR value of 50 ppb for groundwater.

Exceeded ARAR value of 50 ppb for surface water.

TABLE 4 (Cont.)
RAMAPO LANDFILL
GROUNDWATER, DRINKING WATER, AND SURFACE WATER
MONITORING DATA
ANALYTE: Chromium

Sample ID	Sample Type	Date of Sampling Event						
		9/97	12/97	3/98	6/98	9/98	3/99	6/99
1-OS	Groundwater	220	NA	1180	NA	52.1	496	NA
1-R	Groundwater	ND	NA	37.1	NA	41.7	39.8	NA
2-OS	Groundwater	ND	NA	241	NA	121	13.6	NA
2-R	Groundwater	50	NA	53.5	NA	59.6	75.6	NA
3-OS/I	Groundwater	190	NA	433	NA	804	270	NA
3-R	Groundwater	ND	NA	20.7	NA	12.8	73.0	NA
4-OS	Groundwater	ND	NA	34.7	NA	8.6	2.2	NA
4-R	Groundwater	ND	NA	2.7	NA	7.7	0.78	NA
5-OS	Groundwater	NA	NA	NA	NA	NA	15.3	NA
5-I	Groundwater	ND	NA	2.3	NA	9.6	NA	NA
5-R	Groundwater	ND	NA	ND	NA	2.5	4.4	NA
6-I	Groundwater	50	NA	NA	NA	NA	NA	NA
6-R	Groundwater	30	NA	NA	NA	NA	NA	NA
7-OS	Groundwater	60	NA	188	NA	96.2	48.1	NA
7-I	Groundwater	NA	NA	NA	NA	ND	NA	NA
7-R	Groundwater	ND	NA	ND	NA	3.4	1.6	NA
8-OS	Groundwater	ND	ND	4.0	9.6	4.5	79.4	20.2
8-I	Groundwater	ND	20	4.6	4.8	55.6	NA	56.8
8-R	Groundwater	20	ND	ND	5.2	6.3	3.4	2
9-OS	Groundwater	ND	ND	ND	2.3	0.64	9.8	1.1
9-I	Groundwater	ND	ND	1.7	8	2.8	1.7	6.8
9-R	Groundwater	ND	ND	15.2	1.9	23.4	8.5	15
BP-1	Groundwater	NA	NA	NA	NA	NA	NA	NA
BB-1	Groundwater	NA	NA	NA	NA	NA	NA	NA
RVWF-1	Groundwater	ND	ND	NA	NA	NA	NA	NA
PW-1	Drinking Water	ND	ND	ND	ND	ND	ND	ND
PW-2	Drinking Water	ND	ND	ND	ND	ND	0.69	ND
PW-3	Drinking Water	NA	NA	NA	NA	NA	NA	NA
SVWC-93	Drinking Water	ND	ND	ND	ND	0.78	NA	ND
SVWC-94	Drinking Water	ND	NA	ND	ND	ND	NA	ND
SVWC-95	Drinking Water	ND	NA	ND	ND	0.96	NA	ND
SVWC-96	Drinking Water	ND	ND	ND	NA	ND	NA	ND
SW-1	Surface Water	ND	NA	NA	NA	NA	NA	NA
SW-5	Surface Water	ND	NA	NA	NA	NA	NA	NA
SW-6	Surface Water	ND	NA	NA	NA	NA	NA	NA
SW-8	Surface Water	ND	NA	NA	NA	NA	NA	NA

Notes:

Concentration reported in µg/L (ppb).

ND - Not detected

NA - Not applicable (e.g. well not installed by this date or if installed, not sampled)

	- Exceeded ARAR value of 50 ppb for groundwater.
	- Exceeded ARAR value of 50 ppb for surface water.

The ARAR for SW-1 (Class A water body) is 50 ppb.

TABLE 5
RAMAPO LANDFILL
GROUNDWATER AND SURFACE WATER
MONITORING DATA
COMPOUND: Iron

Sample ID	Date of Sampling Event									
	1/90	9/90	1/93	4/93	9/93	12/93	3/94	6/94	9/94	12/94
1-OS	45000	17500	1870	884	32300	162000	12200	69.6	4950	47700
1-R	1180	2650	395	197	1940	1210	186	70600	830	1710
2-OS	912	41800	NA	186	11800	9800	946	5080	14700	4120
2-R	409	602	NA	674	1120	1450	187	83.1	248	363
3-OS/I	6830	9750	5110	333	21300	37900	19400	29900	14400	37500
3-R	1930	1370	11500	2940	3280	4800	1970	2090	2440	1730
4-OS	15600	12400	529	520	5560	10600	5720	17600	16900	15200
4-R	8230	5290	3520	4920	3100	5290	4790	4020	6850	5100
5-OS	27000	11200	11100	4700	NA	NA	NA	NA	NA	NA
5-I	NA	NA	NA	NA	NA	2030	2080	2380	8990	30700
5-R	658	368	620	2310	751	243	742	71.2	21400	64000
6-I	NA	486	953	17.3	332	2860	4020	1360	1590	153
6-R	NA	683	1220	715	662	1710	698	379	501	332
7-OS	981	24500	1250	521	619000	2200	2340	15600	14500	14400
7-R	ND	1940	31.5	56.6	989	600	762	226	681	270
8-OS	229000	43800	3230	2080	6180	12000	20300	6240	7490	6740
8-I	15700	30500	NA	ND	ND	ND	22300	41200	24200	18200
8-R	1360	2940	11600	2590	9160	4710	2510	11100	22000	10200
9-OS	NA	249	50.7	1200	383	393	2210	1040	1020	1490
9-I	NA	145	NA	NA	NA	NA	2040	62.3	84	260
9-R	NA	20200	2680	8250	11500	10800	8850	19400	9110	2700
PW-1	NA	64	186	130	1260	916	85.3	11.2	561	39.7
PW-2	NA	11 *	41.8	49.5	ND	22.7	NA	ND	53.5	13.6
PW-3	NA	NA	NA	NA	NA	NA	NA	6.4	NA	NA
BP-1	NA	NA	274	NA	NA	NA	NA	NA	NA	NA
BB-1	NA	NA	NA	297	247	225	263	282	367	332
RVWF-1	NA	NA	362	207	202	294	221	ND	47.7	58.2
SVWC-93	NA	NA	32.6	10.6	NA	553	179	ND	17.2	20.7
SVWC-94	NA	NA	40.3	19.1	NA	NA	49.4	ND	6.1	13.8
SVWC-95	NA	NA	51.7	74.4	ND	NA	45.5	ND	274	40.3
SVWC-96	NA	NA	22.3	17.3	NA	22.6	14.9	ND	61.5	66.8
Surface Water										
Sample ID	Date of Sampling Event									
	10/89	7/90	1/93	4/93	9/93	12/93	3/94	6/94	9/94	12/94
SW-1	2630	NA	141	1670	170	119	367	287	66.2	242
SW-5	93	163	194	204	168	71.7	41.9	291	124	63.1
SW-6	NA	177	82.5	245	76.7	55.2	55	159	92.4	42.6
SW-8	NA	1290	109	341	ND	26.7	66.2	187	92.6	186

Notes: Concentration reported in µg/L (ppb).

ND - Not detected

NA - Not applicable (e.g. well not installed by this date or if installed, not sampled)

* NYSDOH results from 3/92 sampling.

	Exceeded ARAR value of 300 ppb for groundwater.
	Exceeded ARAR value of 300 ppb for surface water.

TABLE 5 (Cont.)

**RAMAPO LANDFILL
MONITORING DATA
COMPOUND: Iron**

Sample ID	Sample Type	Date of Sampling Event									
		3/95	6/95	9/95	12/95	03/96	06/96	09/96	12/96	3/97	6/97
1-OS	Groundwater	5970	2820	27900	23400	21700	NA	48000	NA	19000	NA
1-R	Groundwater	1430	1080	2750	1050	3240	NA	1910	NA	1800	NA
2-OS	Groundwater	1310	1730	24300	5660	1770	NA	NA	NA	140	NA
2-R	Groundwater	259	369	541	822	189	NA	6920	NA	1600	NA
3-OS/I	Groundwater	54600	16600	31400	3710	7750	NA	303	NA	1500	NA
3-R	Groundwater	1260	1450	3100	1330	1060	NA	4200	NA	1500	NA
4-OS	Groundwater	6110	3010	28600	7460	7470	NA	1300	NA	2700	NA
4-R	Groundwater	5650	5590	6320	4880	4910	NA	3970	NA	6800	NA
5-OS	Groundwater	NA	17100	NA	NA	60000	NA	NA	NA	8100	NA
5-I	Groundwater	56200	NA	2200	1870	NA	NA	2170	NA	NA	NA
5-R	Groundwater	11300	2260	1620	1120	434	NA	197	NA	ND	NA
6-I	Groundwater	172	565	1080	37.3	507	NA	110	NA	370	NA
6-R	Groundwater	225	625	728	758	849	NA	NA	NA	1400	NA
7-OS	Groundwater	12200	NA	NA	1870	11400	NA	305	NA	9700	NA
7-I	Groundwater	NA	4280	2770	NA	NA	NA	NA	NA	NA	NA
7-R	Groundwater	485	886	717	794	363	NA	54.2	NA	ND	NA
8-OS	Groundwater	13500	5760	46900	1160	4870	4370	997	2100	ND	1500
8-I	Groundwater	24300	21100	32300	28500	27300	38700	26400	80000	18000	26000
8-R	Groundwater	24900	25700	26600	12400	18400	14300	11700	2700	1400	5400
9-OS	Groundwater	1340	294	NA	NA	2330	1350	1030	460	1400	6500
9-I	Groundwater	788	468	4530	762	232	443	80.5	100	ND	ND
9-R	Groundwater	1080	2230	4080	1370	2060	2270	1640	3200	13000	4700
BP-1	Groundwater	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BB-1	Groundwater	250	608	744	577	262	NA	399	NA	NA	NA
RVWF-1	Groundwater	ND	816	1260	134	ND	NA	ND	NA	ND	ND
PW-1	Drinking Water	283	400	238	252	53.9	38.1	40.2	30000	ND	ND
PW-2	Drinking Water	NA	253	276	225	ND	ND	ND	ND	ND	ND
PW-3	Drinking Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVWC-93	Drinking Water	19	154	NA	585	ND	ND	ND	ND	ND	ND
SVWC-94	Drinking Water	ND	143	NA	124	ND	ND	ND	ND	ND	ND
SVWC-95	Drinking Water	279	161	NA	148	ND	ND	98.8	ND	ND	ND
SVWC-96	Drinking Water	ND	173	NA	136	ND	ND	14.7	NA	NA	ND
SW-1	Surface Water	183	396	168	213	231	NA	674	NA	110	NA
SW-5	Surface Water	74.4	324	379	236	25.4	NA	434	NA	110	NA
SW-6	Surface Water	54	551	385	204	43.5	NA	263	NA	ND	NA
SW-8	Surface Water	339	315	276	182	29.4	NA	327	NA	780	NA

Notes:

Concentration reported in µg/L (ppb).

ND - Not detected

NA - Not applicable (e.g. well not installed by this date or if installed, not sampled)

 - Exceeded ARAR value of 300 ppb for groundwater.

 - Exceeded ARAR value of 300 ppb for surface water.

TABLE 5 (Cont.)
RAMAPO LANDFILL
GROUNDWATER, DRINKING WATER, AND SURFACE WATER
MONITORING DATA
ANALYTE: Iron

Sample ID	Sample Type	Date of Sampling Event						
		9/97	12/97	3/98	6/98	9/98	3/99	6/99
1-OS	Groundwater	49000	NA	62100	NA	3150	74400	NA
1-R	Groundwater	ND	NA	1020	NA	561	897	NA
2-OS	Groundwater	900	NA	15100	NA	24900	536	NA
2-R	Groundwater	800	NA	1700	NA	718	2110	NA
3-OS/I	Groundwater	5400	NA	29800	NA	23600	1620	NA
3-R	Groundwater	700	NA	1420	NA	1260	680	NA
4-OS	Groundwater	600	NA	8490	NA	6840	1100	NA
4-R	Groundwater	3300	NA	5310	NA	1850	5250	NA
5-OS	Groundwater	NA	NA	NA	NA	NA	8180	NA
5-I	Groundwater	600	NA	3150	NA	851	NA	NA
5-R	Groundwater	100	NA	210	NA	94.5	105	NA
6-I	Groundwater	1500	NA	NA	NA	NA	NA	NA
6-R	Groundwater	1100	NA	NA	NA	NA	NA	NA
7-OS	Groundwater	9700	NA	36300	NA	21900	1950	NA
7-I	Groundwater	NA	NA	NA	NA	NA	NA	NA
7-R	Groundwater	ND	NA	112	NA	145	93.8	NA
8-OS	Groundwater	1800	2800	795	1820	153	1000	473
8-I	Groundwater	14000	15000	15700	6000	37200	NA	9100
8-R	Groundwater	9200	12000	4880	4150	1940	2440	1140
9-OS	Groundwater	200	300	1050	392	126	912	515
9-I	Groundwater	ND	ND	113	400	91.3	86.4	949
9-R	Groundwater	7800	4600	5040	3660	3900	670	4360
BP-1	Groundwater	NA	NA	NA	NA	NA	NA	NA
BB-1	Groundwater	NA	NA	NA	NA	NA	NA	NA
RWWF-1	Groundwater	ND	ND	NA	NA	NA	NA	NA
PW-1	Drinking Water	ND	ND	ND	94.4	38.8	42.2	163
PW-2	Drinking Water	ND	ND	27.7	36.9	22.2	35.3	114
PW-3	Drinking Water	NA	NA	NA	NA	NA	NA	NA
SVWC-93	Drinking Water	ND	ND	26.4	253	50.2	NA	169
SVWC-94	Drinking Water	ND	NA	ND	90.9	ND	NA	83.1
SVWC-95	Drinking Water	ND	NA	ND	61	27	NA	90.1
SVWC-96	Drinking Water	ND	ND	ND	NA	289	NA	67.8
SW-1	Surface Water	100	NA	NA	NA	NA	NA	NA
SW-5	Surface Water	200	NA	NA	NA	NA	NA	NA
SW-6	Surface Water	ND	NA	NA	NA	NA	NA	NA
SW-8	Surface Water	ND	NA	NA	NA	NA	NA	NA

Notes:

Concentration reported in µg/L (ppb).

ND - Not detected

NA - Not applicable (e.g. well not installed by this date or if installed, not sampled)

	- Exceeded ARAR value of 300 ppb for groundwater.
	- Exceeded ARAR value of 300 ppb for surface water.

TABLE 6
RAMAPO LANDFILL
GROUNDWATER AND SURFACE WATER
MONITORING DATA
COMPOUND: Manganese

Sample ID	Date of Sampling Event									
	1/90	9/90	1/93	4/93	9/93	12/93	3/94	6/94	9/94	12/94
1-OS	3790	3700	809	1410	4010	5590	3510	26.8	5150	4770
1-R	144	98.5	61.4	38.7	143	62	29.3	6020	67	97.6
2-OS	298	4770	NA	27.0	4850	1580	92.5	985	2450	827
2-R	197	135	NA	118	126	116	99.5	91.1	92.9	88.8
3-OS/I	8700	18100	3450	1690	9590	8780	5640	10300	2240	5540
3-R	7230	12400	10700	12900	11000	12000	11800	112800	10600	11300
4-OS	4210	5020	547	506	2080	995	598	2850	3050	1130
4-R	1730	1520	1660	1890	1160	1230	1460	1350	1210	1190
5-OS	981	530	192	43.2	NA	NA	NA	NA	NA	NA
5-I	NA	NA	NA	NA	NA	52.8	40.6	215	221	474
5-R	22.3	9.3	9.6	21.9	11.4	8.2	9.6	2.5	232	624
6-I	NA	33.1	151	1.3	34.4	84.7	1060	275	156	13.2
6-R	NA	14.3	100	57.5	60.7	195	59.8	72.6	56	45.8
7-OS	1240	3260	48.3	46.1	45100	122	67.4	1580	9820	992
7-R	51.9	102	46.1	51.8	114	81.6	99.8	186	126	80.9
8-OS	2830	2750	1680	1640	3330	1910	4090	1790	3230	1840
8-I	4230	1110	NA	ND	ND	ND	877	1180	692	862
8-R	872	181	1660	2600	2440	2650	2220	1890	1740	1980
9-OS	NA	14.6	ND	21.1	9.6	8.7	74.8	34.7	26.2	40.8
9-I	NA	377	NA	NA	NA	NA	40.6	3.2	21.7	9.8
9-R	NA	3270	2320	2280	2540	1890	1660	1830	1650	1460
PW-1	NA	ND	1.2	1.8	ND	3.6	5.4	ND	5.1	15.3
PW-2	NA	ND *	4.7	7.5	6.3	6.6	NA	2.4	8.7	6.1
PW-3	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA
BP-1	NA	NA	4630	NA	NA	NA	NA	NA	NA	NA
BB-1	NA	NA	7.9	11.7	11.1	10.3	8.9	12.5	20.1	12.5
RVWF-1	NA	NA	839	40.2	1710	111	46.5	767	2170	3810
SVWC-93	NA	NA	ND	1.7	NA	72.2	ND	ND	2	0.37
SVWC-94	NA	NA	7.3	ND	NA	NA	6.3	ND	10.4	11.9
SVWC-95	NA	NA	56.4	1.8	ND	NA	91.6	108	273	85.9
SVWC-96	NA	NA	ND	ND	NA	ND	ND	ND	2.1	11.9
Surface Water										
Sample ID	Date of Sampling Event									
	1/90	9/90	1/93	4/93	9/93	12/93	3/94	6/94	9/94	12/94
SW-1	1120	NA	16.6	107	50.4	29.6	63	83.8	27.4	27
SW-5	19.5	44.5	19.3	27.9	70.8	20.5	23	50.3	65.1	16.4
SW-6	NA	31.9	14.5	23.9	14.4	16.9	19.6	23.5	20.7	12.9
SW-8	NA	153	10.9	28.5	8.6	9.9	17.6	64.3	19.4	25.4

Notes: Concentration reported in µg/L (ppb).

ND - Not detected

NA - Not applicable (e.g. well not installed by this date or if installed, not sampled)

* NYSDOH results from 3/92 sampling.

 - Exceeded ARAR value of 300 ppb for groundwater.

TABLE 6 (Cont.)

**RAMAPO LANDFILL
MONITORING DATA
COMPOUND: Manganese**

Sample ID	Sample Type	Date of Sampling Event									
		3/95	6/95	9/95	12/95	03/96	06/96	09/96	12/96	3/97	6/97
1-OS	Groundwater	2950	2010	4930	3130	2020	NA	4710	NA	2200	NA
1-R	Groundwater	96.9	153	219	137	120	NA	188	NA	200	NA
2-OS	Groundwater	221	982	5570	883	280	NA	NA	NA	18	NA
2-R	Groundwater	94.8	70.2	143	85.5	93.8	NA	653	NA	150	NA
3-OS/I	Groundwater	3590	3270	3860	6090	11900	NA	4880	NA	3000	NA
3-R	Groundwater	11900	10900	12400	9710	11100	NA	13900	NA	12000	NA
4-OS	Groundwater	602	2860	2080	682	636	NA	59.6	NA	140	NA
4-R	Groundwater	1430	1120	1120	1140	1530	NA	1300	NA	1500	NA
5-I	Groundwater	1410	NA	49.5	NA	616	NA	NA	NA	NA	NA
5-OS	Groundwater	NA	248	NA	53.6	NA	NA	77.7	NA	160	NA
5-R	Groundwater	116	21.6	28.6	11.9	7.1	NA	7.8	NA	ND	NA
6-I	Groundwater	19.9	31.3	89.5	51.9	17.7	NA	11.8	NA	25	NA
6-R	Groundwater	17.4	33.4	42.6	50.9	35.3	NA	NA	NA	210	NA
7-OS	Groundwater	1180	NA	NA	56.8	390	NA	43.1	NA	1400	NA
7-I	Groundwater	NA	3500	4910	NA	NA	NA	NA	NA	NA	NA
7-R	Groundwater	69.1	48.8	62.2	34.8	46.4	NA	66.7	NA	35	NA
8-OS	Groundwater	2050	2690	1420	903	2460	3120	679	2200	570	670
8-I	Groundwater	1480	1110	2430	945	1860	3200	2100	3100	1200	1800
8-R	Groundwater	3290	1300	2500	2610	4040	3230	4310	3400	3500	3100
9-OS	Groundwater	32.9	3.9	NA	NA	75.7	70.9	43.3	20	49	170
9-I	Groundwater	40.5	10.9	129	15.9	5.2	13.1	5.6	6	ND	ND
9-R	Groundwater	1590	1790	1810	1070	738	1840	1930	2200	2600	2400
BP-1	Groundwater	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BB-1	Groundwater	10.7	11.2	15.1	11.2	10.7	NA	15.6	NA	NA	NA
RVWF-1	Groundwater	2880	3070	2470	3.7	630	NA	1660	NA	1900	1900
PW-1	Drinking Water	18.1	5.2	83.1	57.7	83.7	25.7	4.4	80	ND	ND
PW-2	Drinking Water	NA	6.1	11.6	7.7	2.6	5	3.8	ND	ND	ND
PW-3	Drinking Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVWC-93	Drinking Water	9.6	0.95	NA	11.9	ND	3.4	2	ND	ND	ND
SVWC-94	Drinking Water	6.7	11.4	NA	ND	3.1	ND	5.3	6	ND	ND
SVWC-95	Drinking Water	29	49.7	NA	22.1	47.4	67.4	26.4	70	82	80
SVWC-96	Drinking Water	1.3	ND	NA	48	ND	ND	10.1	NA	NA	ND
SW-1	Surface Water	39.8	71.6	17.9	36.3	41.8	NA	76.7	NA	36	NA
SW-5	Surface Water	15.4	18.3	75.3	21.8	18.4	NA	117	NA	19	NA
SW-6	Surface Water	12.8	51.9	36.1	14.8	14.7	NA	137	NA	16	NA
SW-8	Surface Water	25.8	80.1	25.5	4.2	10.8	NA	80.6	NA	30	NA

Notes:

Concentration reported in µg/L (ppb).

ND - Not detected

NA - Not applicable (e.g. well not installed by this date or if installed, not sampled)

 - Exceeded ARAR value of 300 ppb for groundwater.

TABLE 6 (Cont.)
RAMAPO LANDFILL
GROUNDWATER, DRINKING WATER, AND SURFACE WATER
MONITORING DATA
ANALYTE: Manganese

Sample ID	Sample Type	Date of Sampling Event						
		9/97	12/97	3/98	6/98	9/98	3/99	6/99
1-OS	Groundwater	5500	NA	4530	NA	1600	5600	NA
1-R	Groundwater	200	NA	405	NA	289	332	NA
2-OS	Groundwater	650	NA	1060	NA	3320	69.6	NA
2-R	Groundwater	180	NA	248	NA	214	356	NA
3-OS/I	Groundwater	4500	NA	12100	NA	8880	948	NA
3-R	Groundwater	11000	NA	10400	NA	10900	12500	NA
4-OS	Groundwater	940	NA	430	NA	1600	220	NA
4-R	Groundwater	810	NA	1410	NA	319	1100	NA
5-I	Groundwater	20	NA	57.8	NA	18.7	NA	NA
5-OS	Groundwater	NA	NA	NA	NA	NA	88.6	NA
5-R	Groundwater	ND	NA	5.0	NA	2.6	2.6	NA
6-I	Groundwater	250	NA	NA	NA	NA	NA	NA
6-R	Groundwater	60	NA	NA	NA	NA	NA	NA
7-OS	Groundwater	550	NA	2480	NA	2190	211	NA
7-I	Groundwater	NA	NA	NA	NA	NA	NA	NA
7-R	Groundwater	110	NA	90.1	NA	168	157	NA
8-OS	Groundwater	830	570	124	466	2640	119	400
8-I	Groundwater	910	840	937	692	1500	NA	1050
8-R	Groundwater	2000	1500	2130	2340	952	NA	1900
9-OS	Groundwater	ND	20	28.0	14.7	3.5	28.6	15.1
9-I	Groundwater	ND	ND	4.8	11.8	3.6	2.8	18
9-R	Groundwater	2000	1500	1650	1150	1810	771	1620
BP-1	Groundwater	NA	NA	NA	NA	NA	NA	NA
BB-1	Groundwater	NA	NA	NA	NA	NA	NA	NA
RVWF-1	Groundwater	2100	1800	NA	NA	NA	NA	NA
PW-1	Drinking Water	ND	ND	9.4	0.99	7	1.4	1.9
PW-2	Drinking Water	ND	ND	9.1	5.1	0.61	6.6	6.6
PW-3	Drinking Water	NA	NA	NA	NA	NA	NA	NA
SVWC-93	Drinking Water	ND	ND	12.8	0.79	3.6	NA	2.5
SVWC-94	Drinking Water	10	NA	8.1	5.8	7.6	NA	4.3
SVWC-95	Drinking Water	130	NA	58.6	64.4	21	NA	40.6
SVWC-96	Drinking Water	ND	ND	ND	NA	22	NA	1.6
SW-1	Surface Water	30	NA	NA	NA	NA	NA	NA
SW-5	Surface Water	100	NA	NA	NA	NA	NA	NA
SW-6	Surface Water	20	NA	NA	NA	NA	NA	NA
SW-8	Surface Water	30	NA	NA	NA	NA	NA	NA

Notes:

Concentration reported in µg/L (ppb).

ND - Not detected

NA - Not applicable (e.g. well not installed by this date or if installed, not sampled)

	- Exceeded ARAR value of 300 ppb for groundwater.
	- Exceeded ARAR value of 300 ppb for surface water.