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May 21, 2004

Mr. Frank Tallerino
Commissioner of Public Works
City of Rome
City Hall, Suite 3C
198 N. Washington Street
Rome, New York 13440

RE: Tannery Road Landfill O&M
Quarterly Monitoring – First Quarter 2004
Monthly Inspections – February through April 2004

Dear Mr. Tallerino:

Delaware Engineering, P.C. is pleased to provide you with this letter report summarizing the results of the March 2004 ground water sampling at the Tannery Road Landfill for the City of Rome.

INTRODUCTION

On March 23, 2004, Delaware personnel measured the depth to water, obtained field parameter measurements and collected ground water samples from one upgradient monitoring well (MW-9S) and four downgradient monitoring wells (MW-1S, MW-4S, MW-5S and MW-7D). Downgradient monitoring well MW-3S was frozen and therefore the well was not sampled this quarter. Each well was purged of a minimum of three well volumes prior to sample collection. In addition, a leachate sample was collected from leachate monitoring wells MW-10 and MW-12. The depth to water was measured in leachate monitoring well MW-11.

Samples were analyzed for the NYSDEC Part 360 Routine parameters. The ground water analytical data are summarized in Table 1. Concentrations that exceed an applicable ground water standard or guidance value are presented in bold.

Monthly Operations and Maintenance (O&M) inspections were also conducted in February, March and April 2004. April inspection revealed erosion of the diversion berm west of the north down shoot. In the current condition a rainstorm has the potential to erode the topsoil and protective cover of the membrane. Repair of the diversion berm should be implemented to prevent further erosion and potential exposure of the

membrane. The three down shoots are starting to erode and should be repaired as needed. Two woodchuck holes were discovered in the north/west side of the landfill. The Inspection Checklists are attached, and data have been summarized in Tables 2 (Water Levels) and 3 (Pumping Hours and Gallons).

GROUND WATER METAL RESULTS

Review of the metals data indicates that each of the monitoring wells, including upgradient well MW-9S and leachate monitoring wells MW-10 and MW-12 exhibited iron concentrations above the New York State Department Of Environmental Conservation (NYSDEC) ground water standards. Manganese concentrations in all wells except MW-1S, MW-4S and leachate well LMW-12 exceeded the New York State Department of Environmental Conservation (NYSDEC) ground water standard of 0.3 milligrams per liter (mg/L). Downgradient ground water iron and manganese concentrations from all monitoring wells were significantly lower than the upgradient MW-9S concentration, indicating that the downgradient ground water iron concentrations are most likely to some extent naturally derived and related to the sample sediment load rather than being associated with the landfill. It should be noted that the ground water standard for iron and manganese is based on aesthetic reasons (*e.g.*, taste, staining of laundry and porcelain, *etc.*).

Samples collected from upgradient well MW-9S and down gradient monitoring well MW-7D as well as leachate wells LMW-10 and LMW-12 exhibited sodium concentrations above the NYSDEC ground water standard of 20 mg/L. The ground water standard for sodium is designed to protect those individuals who are on low sodium diets and the reported concentrations are not considered a threat to public health or the environment.

Potassium concentrations in the MW-4S and MW-7D ground water samples were higher than the upgradient MW-9S concentration. Leachate samples from leachate wells MW-10 and MW-12 exhibit high potassium concentrations. Data indicate that the higher downgradient ground water potassium concentrations is most likely related to a landfill affect on ground water. However, there is no ground water standard for potassium and reported downgradient ground water concentrations do not represent a significant environmental concern.

The ground water concentration of boron and magnesium in the LMW-10 and LMW-12 leachate well samples were above the ground water standard/guidance value (Boron 1 mg/L, Magnesium guidance value 35 mg/L). The upgradient MW-9S ground water magnesium value was above the value.

The ground water concentration of lead in ground water from upgradient well MW-9S and leachate well LMW-10 exceeded the NYSDEC ground water standard value 0.025 mg/L.

The high lead, iron and manganese concentrations in the MW-9S ground water sample are to a significant extent most likely related to the sample sediment load. The MW-9S field turbidity value (492 NTUs) indicates a significant sample sediment load. Because of the small grain size soil in which the monitoring wells are screened, sediment becomes entrained in the ground water during the purging and sampling process. Sediment present in a sample will have metal ions both sorbed to its surface and as an integral component of the sediment itself. When sediment-laden samples are preserved with acid in the field (per standard protocol), and especially when samples are prepared in the laboratory via hot acid digestion (also per standard protocol), metals will be desorbed from the sediment matrix, resulting in reported ground water metals concentrations that are higher than is actually dissolved in the ground water.

LEACHATE INDICATOR DATA

Ground water from down gradient monitoring wells MW-4S and MW-7D exhibited ammonia concentrations that were above the ground water standard as were the concentrations in the MW-10 and MW-12 leachate wells. The ammonia detected in the ground water monitoring well samples is most likely landfill related.

The MW-10 and MW-12 leachate well samples exhibited concentrations of bromide, chloride, TDS and total phenols that were above the respective ground water standards. The TDS and total phenols values in the ground water sample from monitoring well MW-7D were higher than the respective ground water standards.

Data indicate that the MW-4S and MW-7D ground water ammonia concentrations and the high TDS and total phenols values in the MW-7D ground water sample are most likely landfill derived. Ground water at the landfill perimeter continues to represent a potential source of ammonia to the adjacent wetlands.

FIELD PARAMETER DATA

Ground water from monitoring wells MW-1S, MW-4S, MW-5S and MW-7D exhibited field pH values below the NYSDEC ground water standard lower limit of 6.5. The low pH value is most likely representative of the natural conditions associated with the pitch pine wetland/bogs located adjacent to the landfill. These wetlands/bogs typically exhibit low pH values. MW-10 and MW-12 leachate sample pH values have historically generally been within the ground water standard range, at or near the lower limit.

Ground water Turbidity values for all the monitoring wells were above the ground water standard. Turbidity values above the NTU standards are most likely a result of sample method and well construction not landfill related.

DATA VALIDATION/DATA USABILITY

The usability of the March 2004 analytical data were evaluated by reviewing the available laboratory batch QA/QC data and comparison to the available historical data. In addition, the analytical results were validated by the laboratory's QA/QC department prior to their release of the data. The MW-4S, MW-7D, LMW-10 and LMW-12 total kjeldahl nitrogen (TKN) and ammonia results are considered estimated. TKN is a measurement of both ammonia and organic nitrogen and by definition an ammonia only analysis cannot exceed a TKN concentration. The laboratory reported ammonia concentration in the MW-4S, MW-7D, LMW-10 and LMW-12 samples was higher than the reported TKN values. The error is most likely a function of the high ammonia and TKN concentrations in these samples and was caused by analytical variability and variability in sample dilution, necessary to bring the concentrations within the linear range of the analysis. Although the data are estimated, the results are usable and all the March 2004 data are considered of sufficient quality to make informed decisions with respect to ground water and leachate quality.

O&M – MONTHLY INSPECTIONS

Operations and Maintenance (O&M) inspections were conducted in February 2004, March 2004, and April 2004. The Inspection Checklists are attached, and the data have been summarized in Tables 2 and 3. Table 2 summarizes the water level data for the site and Table 3 provides the operational data summary. A ground water contour map for March 2004 is provided in Figure 1.

Comparison of the March 2004 groundwater monitoring well elevation data to the MW-10 leachate well ground water elevation indicates an inward gradient in the vicinity of monitoring wells MW-3S and MW-9S since March. Comparison of the PZ-1, MW-1S, MW-7S and MW-7D ground water elevation data to the MW-12 leachate well ground water elevation, indicates a continuing outward gradient from the landfill in the vicinity of these monitoring wells.

SUMMARY

In summary, the MW-4S, MW-7D, LMW-10 and LMW-12 TKN results are considered estimated, however, all data are considered of sufficient quality to make informed decisions with respect to ground water quality. The elevated iron and manganese concentrations detected in the ground water monitoring wells are, to some extent, related to the sample sediment load. Data indicate that the MW-4S and MW-7D ground water ammonia concentrations and the MW-7D TDS and total phenols values landfill related.

The diversion berm on the north side of the landfill should be repaired to prevent further erosion and potential exposure of the liner membrane. The three down shoots are starting to erode and should be repaired as necessary. Two woodchuck holes were discovered on the north/west side of the landfill.

If you have any questions, please do not hesitate to call Gary Kerzic or me at 518-452-1290.

Sincerely,

Edward G. Fahrenkopf
Senior Environmental Scientist

cc: Susan Lasdin, NYSDEC

Attachment(s) Data Summary Tables
Laboratory Reporting Sheets
O&M Inspection Checklists: February 2004, March 2004, and April 2004
Ground Water Contour Map: March 2004

TABLES

Table 1
City of Rome
Tannery Road Landfill
March 2004
Ground Water Data

	MW-1S	MW-3S	MW-4S	MW-5S	MW-7D	MW-9S	LMW-10	LMW-12	NYSDEC Ground Water Standard
Field Parameters									
Conductivity (umhos/cm)	24	NA	164	306	1,030	413	4,810	4,970	NS
pH (s.u.)	**5.22**	NA	**5.64**	**6.15**	**6.23**	6.98	6.59	6.57	6.5-8.5
Temperature (Deg C.)	4.2	NA	4.9	5.4	9.5	5.2	12.8	11.3	NS
Turbidity (NTU)	**113**	NA	**10**	**41**	**59**	**492**	**189**	**83**	5
Leachate Indicator Parameters (mg/L)									
Ammonia-Nitrogen	<0.03	NA	**3.8**	0.83	**30**	0.56	**380**	**300**	2
Biochemical Oxygen Demand (BOD5)	<4	NA	<4	<4	<10	<4	28	29	NS
Bromide	<0.1	NA	<0.1	<0.1	0.83	<0.1	**3.7**	**5**	2 (GV)
Chemical Oxygen Demand	18	NA	74	25	110	120	300	720	NS
Chloride	3.4	NA	2.5	4.2	56	3.5	**450**	**370**	250
Nitrate-Nitrogen	0.16	NA	<0.1	<0.1	0.23	<0.1	<0.1	0.55	10
Sulfate	7.4	NA	3.2	21	39	5.9	3.6	2	250
Total Alkalinity	<1	NA	41	110	320	220	2,000	1,800	NS
Total Dissolved Solids	32	NA	130	180	**510**	360	**2,200**	**1,800**	500
Total Hardness	7.8	NA	36	130	230	730	700	460	NS
Total Kjeldahl Nitrogen	0.53	NA	3.1	1.3	35	1.1	330	270	NS
Total Organic Carbon	4.1	NA	29	8.9	39	25	180	140	NS
Total Phenols	<0.002	NA	<0.002	<0.002	**0.004**	<0.002	**0.017**	**0.022**	0.001
Metals (mg/L)									
Boron	<0.5	NA	<0.5	<0.5	0.95	<0.5	**3.8**	**3**	1
Cadmium	<0.01	NA	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Calcium	1.5	NA	8.8	42	57	180	120	77	NS
Iron	**2.4**	NA	**4**	**9**	**34**	**67**	**38**	**44**	0.3
Lead	<0.01	NA	<0.01	<0.01	0.012	**0.043**	**0.028**	0.015	0.025
Magnesium	<1	NA	3.5	5.7	22	**66**	**96**	**64**	35 (GV)
Manganese	0.049	NA	0.24	**0.67**	**0.68**	**3**	**0.74**	0.29	0.3
Potassium	<1	NA	12	5.1	37	7.8	350	270	NS
Sodium	1.1	NA	4.5	4.4	**44**	**62**	**500**	**330**	20

Notes:
1) Results in **bold** typeface indicate that the result exceeds the applicable standard.
2) GV indicates that the standard listed is a Guidance Value.
3) NA Not Accessible- Well was frozen.

Table 2

Water Level Elevation Data, Comparisons to MW-10 and MW-12
Tannery Road Landfill
Rome, New York

WELL	MEASURING POINT ELEVATION (FT.)	DEPTH TO WATER (FT.) 3/12/03	4/30/03	5/29/03	6/25/03	7/16/03	8/21/03	9/17/03	10/15/2003	11/05/2003	12/16/2003	01/29/2004	2/25/04	3/23/04	4/16/04
MW-1S	449.59	5.17	5.18	4.49	5.25	6.75	6.6	7.48	6.1	4.87	4.86	5.77	6.86	4.75	4.66
MW-2S	459.44	7.29	7.67	6.39	7.29	9.06	8.25	9.65	7.78	6.54	6.71	8.21	8.78	6.51	6.59
MW-3S	456.4	Frozen	3.93	3.46	3.81	4.66	4.3	4.9	3.38	3.51	3.6	3.97	3.96	NA	3.58
MW-4S	456.19	3.91	4.03	3.70	3.87	4.6	4.43	5.5	3.95	3.83	3.81	4.18	4.18	3.76	3.86
MW-5S	457.15	4.6	4.86	4.21	4.7	5.79	5.31	6.99	4.66	4.36	4.16	5.1	5.24	4.34	4.43
MW-7S	452.25	8.53	7.62	7.46	7.71	8.92	9.3	10.61	9.91	8.44	7.81	8.31	8.93	7.91	7.52
MW-9S	456.38	3.95	4.1	3.80	3.93	4.55	4.27	4.77	3.78	3.76	3.72	3.98	3.91	3.77	3.75
MW-10	486.3	35.05	35.05	34.83	35.02	35.11	35.12	35.57	34.65	35.11	34.11	NA	35.25	35.11	35.25
MW-11	502.4	52.19	52.03	51.89	51.97	52.57	52.14	52.37	51.79	52.18	52.02	51.97	52.21	52.09	52.13
MW-12	483.11	32.79	32.38	32.28	32.36	32.59	32.81	33.19	32.77	32.87	32.48	32.46	32.74	32.55	32.47
PZ-1	454.37	6.53	6.37	5.68	6.6	8.14	8.12	9.18	7.77	5.58	5.81	6.95	7.51	5.77	5.57
MW-7D	451.79	8.91	7.49	7.45	7.88	9.05	9.49	10.57	9.73		7.98			8.05	7.45

WELL	WATER LEVEL ELEVATION (FT.) 3/12/03	4/30/03	5/29/03	6/25/03	7/16/03	8/21/03	9/17/03	10/15/2003	11/05/2003	12/16/2003	01/29/2004	2/25/04	3/23/04	4/16/04
MW-1S	444.42	444.41	445.10	444.34	442.84	442.99	442.11	443.49	444.72	444.73	443.82	442.73	444.84	444.93
MW-2S	452.15	451.77	453.05	452.15	450.38	451.19	449.79	451.66	452.9	452.73	451.23	450.66	452.93	452.85
MW-3S	Frozen	452.47	452.94	452.59	451.74	452.1	451.5	453.02	452.89	452.8	452.43	452.44	NA	452.82
MW-4S	452.28	452.16	452.49	452.32	451.59	451.76	450.69	452.24	452.36	452.38	452.01	452.01	452.43	452.33
MW-5S	452.55	452.29	452.94	452.45	451.36	451.84	450.16	452.49	452.79	452.99	452.05	451.91	452.81	452.72
MW-7S	443.72	444.63	444.79	444.54	443.33	442.95	441.64	442.34	443.81	444.44	443.94	443.32	444.34	444.73
MW-9S	452.43	452.28	452.58	452.45	451.83	452.11	451.61	452.6	452.62	452.66	452.4	452.47	452.61	452.63
MW-10	451.25	451.25	451.47	451.28	451.19	451.18	450.73	451.65	451.19	452.19	NR	451.05	451.19	451.05
MW-11	450.21	450.37	450.51	450.43	449.83	450.26	450.03	450.61	450.22	450.38	450.43	450.19	450.31	450.27
MW-12	450.32	450.73	450.83	450.75	450.52	450.3	449.92	450.34	450.24	450.63	450.65	450.37	450.56	450.64
PZ-1	447.84	448	448.69	447.77	446.23	446.25	445.19	446.6	448.79	448.56	447.42	446.86	448.6	448.8
MW-7D	442.88	444.3	444.34	443.91	442.74	442.3	441.22	442.06		443.81			443.74	444.34

WELL	WATER LEVEL ELEVATION DIFFERENCE (FT.) RELATIVE TO MW-12 [2] 3/12/03	4/30/03	5/29/03	6/25/03	7/16/03	8/21/03	9/17/03	10/15/2003	11/05/2003	12/16/2003	01/29/2004	2/25/04	3/23/04	4/16/04
MW-1S	5.9	6.32	5.73	6.41	7.68	7.31	7.81	6.85	5.52	5.9	6.83	7.64	5.72	5.71
MW-2S	-1.83	-1.04	-2.22	-1.4	0.14	-0.89	0.13	-1.32	-2.66	-2.1	-0.58	-0.29	-2.37	-2.21
MW-3S	Frozen	-1.74	-2.11	-1.84	-1.22	-1.8	-1.58	-2.68	-2.65	-2.17	-1.78	-2.07	NA	-2.18
MW-4S	-1.96	-1.43	-1.66	-1.57	-1.07	-1.46	-0.77	-1.9	-2.12	-1.75	-1.36	-1.64	-1.87	-1.69
MW-5S	-2.23	-1.56	-2.11	-1.7	-0.84	-1.54	-0.24	-2.15	-2.55	-2.36	-1.4	-1.54	-2.25	-2.08
MW-7S	6.6	6.1	6.04	6.21	7.19	7.35	8.28	8	6.43	6.19	6.71	7.05	6.22	5.91
MW-9S	-2.11	-1.55	-1.75	-1.7	-1.31	-1.81	-1.69	-2.26	-2.38	-2.03	-1.75	-2.1	-2.05	-1.99
MW-10	-0.93	-0.52	-0.64	-0.53	-0.67	-0.88	-0.81	-1.31	-0.95	-1.56	NA	NA	-0.63	-0.41
MW-11	0.11	0.36	0.32	0.32	0.69	0.04	-0.11	-0.27	0.02	0.25	0.22	0.18	0.25	0.37
MW-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PZ-1	2.48	2.73	2.14	2.98	4.29	4.05	4.73	3.74	1.45	2.07	3.23	3.51	1.96	1.84
MW-7D	7.44	6.43	6.49	6.84	7.78	8	8.7	8.28		6.82			6.82	6.3

WELL	WATER LEVEL ELEVATION DIFFERENCE (FT.) RELATIVE TO MW-10 [2] 3/12/03	4/30/03	5/29/03	6/25/03	7/16/03	8/21/03	9/17/03	10/15/2003	11/05/2003	12/16/2003	01/29/2004	2/25/04	3/23/04	4/16/04
MW-1S	6.83	6.84	6.37	6.94	8.35	8.19	8.62	8.16	6.47	7.46	NA	8.32	6.35	6.12
MW-2S	-0.90	-0.52	-1.58	-0.87	0.81	-0.01	0.94	-0.01	-1.71	-0.54	NA	0.39	-1.74	-1.80
MW-3S	Frozen	-1.22	-1.47	-1.31	-0.55	-0.92	-0.77	-1.37	-1.70	-0.61	NA	-1.39	NA	-1.77
MW-4S	-1.03	-0.91	-1.02	-1.04	-0.40	-0.58	0.04	-0.59	-1.17	-0.19	NA	-0.96	-1.24	-1.28
MW-5S	-1.30	-1.04	-1.47	-1.17	-0.17	-0.66	0.57	-0.84	-1.60	-0.80	NA	-0.86	-1.62	-1.67
MW-7S	7.53	6.62	6.68	6.74	7.86	8.23	9.09	9.31	7.38	7.75	NA	7.73	6.85	6.32
MW-9S	-1.18	-1.03	-1.11	-1.17	-0.64	-0.93	-0.88	-0.95	-1.43	-0.47	NA	-1.42	-1.42	-1.58
PZ-1	3.41	3.25	2.78	3.51	4.96	4.93	5.54	5.05	2.40	3.63	NA	4.19	2.59	2.25
MW-7D	8.37	-444.3	-444.34	-443.91	-442.74	-442.3	-441.22	-442.06		-443.81			7.45	6.71

Notes:

1) Water levels were collected from one upgradient monitoring well (MW-9S), six downgradient wells (MW-1S, MW-2S, MW-3S, MW-4S, MW-5S and MW-7S), one downgradient piezometer (PZ-1) and three leachate monitoring wells (MW-10), (MW-11), (MW-12).

2) A negative number indicates an inward gradient.

3) NA indicates monitoring well was not accessible due to frozen conditions

Table 3
Operational Data Summary
Tannery Road Landfill
Rome, New York

Pump Station at Tannery Road

Hour Meters	3/12/03	4/30/03	5/29/03	6/25/03	7/16/03	8/21/03	9/17/03	10/15/2003	11/05/2003	12/16/2003	01/29/2004	2/25/04	3/23/04	4/16/04	Total Hours Operated 3/12/2003 - 4/16/2004
Pump #1	33,898	35,123	35,833	36,513	37,008	37,646	38,131	38,672	39,178	40,249	41,356	41,949	42,673	43,319	9,421
Pump #2	29,284	30,304	30,886	31,453	31,863	32,388	32,751	33,161	33,547	34,367	35,225	35,687	36,253	36,765	7,481

Totalizers in Meter Pit	3/12/03	4/30/03	5/29/03	6/25/03	7/16/03	8/21/03	9/17/03	10/15/2003	11/05/2003	12/16/2003	01/29/2004	2/25/04	3/23/04	4/16/04	Total Flow (Gallons) 3/12/2003 - 4/16/2004
RW-1	3,733,800	3,798,200	3,835,400	3,870,700	3,897,100	3,942,300	3,975,400	4,009,300	4,034,800	4,085,300	4,139,800	4,173,000	4,205,200	4,229,400	495,600
RW-2	6,465,000	6,601,800	6,680,900	6,755,600	6,812,100	6,906,600	6,977,300	7,050,400	7,106,100	7,216,200	7,335,200	7,407,000	7,478,600	7,543,300	1,078,300
RW-3	1,738,100	1,823,000	1,894,100	1,934,300	1,959,400	1,961,400	1,975,900	2,028,100	2,066,000	2,164,200	2,252,800	2,256,700	2,300,200	2,323,700	585,600
RW-4	998,300	1,207,200	1,405,100	1,582,100	1,703,600	1,808,100	1,838,600	1,881,800	1,924,000	2,080,800	2,266,600	2,371,100	2,478,400	2,571,200	1,572,900
Total	112,000	495,000	385,300	327,200	229,500	246,200	148,800	202,400	161,300	415,600	447,900	213,400	254,600	205,200	3,732,400

Hour Meters	3/12/03	4/30/03	5/29/03	6/25/03	7/16/03	8/21/03	9/17/03	10/15/2003	11/05/2003	12/16/2003	01/29/2004	2/25/04	3/23/04	4/16/04	Total Hours Operated 3/12/2003 - 4/16/2004
RW-1	102,870	104,531	105,498	106,402	107,085	108,412	109,348	110,345	111,095	112,592	114,176	115,219	116,198	121,279	18,409
RW-2	108,859	110,859	112,042	113,162	114,033	115,502	116,615	117,769	118,645	120,430	122,335	123,499	124,677	125,740	16,881
RW-3	229,983	240,539	247,369	253,865	258,842	260,161	261,744	268,434	273,464	283,235	293,761	300,255	306,718	312,459	82,476
RW-4	66,467	78,284	85,168	91,680	96,657	105,247	111,713	118,404	123,434	133,205	143,731	150,225	156,688	162,429	95,962

LABORATORY REPORTING SHEETS

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Laboratory Analysis Report

For

Delaware Engineering

Client Project ID:

Tannery Rd. Landfill

LSL Project ID: **0404237**

Receive Date/Time: 03/24/04 14:53

Project Received by: GS

Life Science Laboratories, Inc.

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This report was reviewed by: gale g sutton QAO *Date:* 4-13-04

Life Science Laboratories, Inc.

A copy of this report was sent to:

Date Printed: 4/12/04

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: MW-1S **LSL Sample ID:** 0404237-001

Location: City of Rome

Sampled: 03/23/04 11:58 **Sampled By:** BZ

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	7.8	mg/l	3/26/04	3/26/04	PEF
(1) EPA 200.7 Total Metals					
Boron	<0.5	mg/l	3/26/04	3/26/04	PEF
Calcium	1.5	mg/l	3/26/04	3/26/04	PEF
Cadmium	<0.01	mg/l	3/26/04	3/26/04	PEF
Iron	2.4	mg/l	3/26/04	3/26/04	PEF
Potassium	<1	mg/l	3/26/04	3/26/04	PEF
Magnesium	<1	mg/l	3/26/04	3/26/04	PEF
Manganese	0.049	mg/l	3/26/04	3/26/04	PEF
Sodium	1.1	mg/l	3/26/04	3/26/04	PEF
Lead	<0.01	mg/l	3/26/04	3/26/04	PEF
(1) EPA 350.1 Ammonia					
Ammonia as N	<0.03	mg/l		4/2/04	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	0.53	mg/l	4/2/04	4/5/04	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	<4	mg/l		3/24/04 18:30	MM
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	<0.002	mg/l	4/8/04	4/8/04	DWK
(1) EPA Method 300.0 A					
Bromide	<0.1	mg/l		3/24/04	RAF
Chloride	3.4	mg/l		3/24/04	RAF
Nitrate as N	0.16	mg/l		3/24/04 22:25	RAF
Sulfate	7.4	mg/l		3/24/04	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	18	mg/l		4/5/04	DWK
(1) SM 18 2320B, Alkalinity as CaCO3					
Alkalinity	<1	mg/l		3/26/04	ASH
(1) SM 19 5310C TOC					
Total Organic Carbon	4.1	mg/l		3/26/04	TER
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	32	mg/l		3/25/04	MM

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: MW-4S **LSL Sample ID:** 0404237-002

Location: City of Rome

Sampled: 03/23/04 10:18 **Sampled By:** BZ

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time		Analyst Initials
(1) EPA 200.7 Total Hardness as CaCO3						
Hardness, Total	36	mg/l	3/26/04	3/26/04		PEF
(1) EPA 200.7 Total Metals						
Boron	<0.5	mg/l	3/26/04	3/26/04		PEF
Calcium	8.8	mg/l	3/26/04	3/26/04		PEF
Cadmium	<0.01	mg/l	3/26/04	3/26/04		PEF
Iron	4.0	mg/l	3/26/04	3/26/04		PEF
Potassium	12	mg/l	3/26/04	3/26/04		PEF
Magnesium	3.5	mg/l	3/26/04	3/26/04		PEF
Manganese	0.24	mg/l	3/26/04	3/26/04		PEF
Sodium	4.5	mg/l	3/26/04	3/26/04		PEF
Lead	<0.01	mg/l	3/26/04	3/26/04		PEF
(1) EPA 350.1 Ammonia						
Ammonia as N	3.8	mg/l		4/2/04		DRB
(1) EPA 351.2 TKN as N						
Total Kjeldahl Nitrogen	3.1	mg/l	4/2/04	4/5/04		DRB
(1) EPA 405.1 BOD-5						
Biochemical Oxygen Demand, 5 Day	<4	mg/l		3/24/04	18:30	MM
(1) EPA 420.1 Recoverable Phenolics LL						
Phenolics, Total Recoverable	<0.002	mg/l	4/8/04	4/8/04		DWK
(1) EPA Method 300.0 A						
Bromide	<0.1	mg/l		3/24/04		RAF
Chloride	2.5	mg/l		3/24/04		RAF
Nitrate as N	<0.1	mg/l		3/24/04	23:17	RAF
Sulfate	3.2	mg/l		3/24/04		RAF
(1) HACH 8000 COD						
Chemical Oxygen Demand	74	mg/l		4/5/04		DWK
(1) SM 18 2320B, Alkalinity as CaCO3						
Alkalinity	41	mg/l		3/26/04		ASH
(1) SM 19 5310C TOC						
Total Organic Carbon	29	mg/l		3/26/04		TER
(1) SM18-2540C Total Dissolved Solids						
Total Dissolved Solids @ 180 C	130	mg/l		3/25/04		MM

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering *Albany, NY*

Sample ID: MW-5S **LSL Sample ID:** 0404237-003

Location: City of Rome

Sampled: 03/23/04 9:52 **Sampled By:** BZ

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time		Analyst Initials
(1) EPA 200.7 Total Hardness as CaCO3						
Hardness, Total	130	mg/l	3/26/04	3/26/04		PEF
(1) EPA 200.7 Total Metals						
Boron	<0.5	mg/l	3/26/04	3/26/04		PEF
Calcium	42	mg/l	3/26/04	3/26/04		PEF
Cadmium	<0.01	mg/l	3/26/04	3/26/04		PEF
Iron	9.0	mg/l	3/26/04	3/26/04		PEF
Potassium	5.1	mg/l	3/26/04	3/26/04		PEF
Magnesium	5.7	mg/l	3/26/04	3/26/04		PEF
Manganese	0.67	mg/l	3/26/04	3/26/04		PEF
Sodium	4.4	mg/l	3/26/04	3/26/04		PEF
Lead	<0.01	mg/l	3/26/04	3/26/04		PEF
(1) EPA 350.1 Ammonia						
Ammonia as N	0.83	mg/l		4/2/04		DRB
(1) EPA 351.2 TKN as N						
Total Kjeldahl Nitrogen	1.3	mg/l	4/2/04	4/5/04		DRB
(1) EPA 405.1 BOD-5						
Biochemical Oxygen Demand, 5 Day	<4	mg/l		3/24/04	18:30	MM
(1) EPA 420.1 Recoverable Phenolics LL						
Phenolics, Total Recoverable	<0.002	mg/l	4/8/04	4/8/04		DWK
(1) EPA Method 300.0 A						
Bromide	<0.1	mg/l		3/24/04		RAF
Chloride	4.2	mg/l		3/24/04		RAF
Nitrate as N	<0.1	mg/l		3/24/04	23:35	RAF
Sulfate	21	mg/l		3/24/04		RAF
(1) HACH 8000 COD						
Chemical Oxygen Demand	25	mg/l		4/5/04		DWK
(1) SM 18 2320B, Alkalinity as CaCO3						
Alkalinity	110	mg/l		3/26/04		ASH
(1) SM 19 5310C TOC						
Total Organic Carbon	8.9	mg/l		3/26/04		TER
(1) SM18-2540C Total Dissolved Solids						
Total Dissolved Solids @ 180 C	180	mg/l		3/25/04		MM

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: MW-7D **LSL Sample ID:** 0404237-004

Location: City of Rome

Sampled: 03/23/04 8:52 **Sampled By:** BZ

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	230	mg/l	3/26/04	3/26/04	PEF
(1) EPA 200.7 Total Metals					
Boron	0.95	mg/l	3/26/04	3/26/04	PEF
Calcium	57	mg/l	3/26/04	3/26/04	PEF
Cadmium	<0.01	mg/l	3/26/04	3/26/04	PEF
Iron	34	mg/l	3/26/04	3/26/04	PEF
Potassium	37	mg/l	3/26/04	3/31/04	PEF
Magnesium	22	mg/l	3/26/04	3/26/04	PEF
Manganese	0.68	mg/l	3/26/04	3/26/04	PEF
Sodium	44	mg/l	3/26/04	3/26/04	PEF
Lead	0.012	mg/l	3/26/04	3/26/04	PEF
(1) EPA 350.1 Ammonia					
Ammonia as N	30	mg/l		4/2/04	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	35	mg/l	4/2/04	4/5/04	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	<10	mg/l		3/24/04 18:30	MM
This result should be considered an estimate due to low oxygen depletion.					
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	0.0040	mg/l	4/8/04	4/8/04	DWK
(1) EPA Method 300.0 A					
Bromide	0.83	mg/l		3/24/04	RAF
Chloride	56	mg/l		3/24/04	RAF
Nitrate as N	0.23	mg/l		3/24/04 23:53	RAF
Sulfate	39	mg/l		3/24/04	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	110	mg/l		4/5/04	DWK
(1) SM 18 2320B, Alkalinity as CaCO3					
Alkalinity	320	mg/l		3/26/04	ASH
(1) SM 19 5310C TOC					
Total Organic Carbon	39	mg/l		3/26/04	TER
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	510	mg/l		3/25/04	MM

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: MW-9S **LSL Sample ID:** 0404237-005

Location: City of Rome

Sampled: 03/23/04 11:04 **Sampled By:** BZ

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time		Analyst Initials
(1) EPA 200.7 Total Hardness as CaCO3						
Hardness, Total	730	mg/l	3/26/04	3/26/04		PEF
(1) EPA 200.7 Total Metals						
Boron	<0.5	mg/l	3/26/04	3/26/04		PEF
Calcium	180	mg/l	3/26/04	3/26/04		PEF
Cadmium	<0.01	mg/l	3/26/04	3/26/04		PEF
Iron	67	mg/l	3/26/04	3/26/04		PEF
Potassium	7.8	mg/l	3/26/04	3/26/04		PEF
Magnesium	66	mg/l	3/26/04	3/26/04		PEF
Manganese	3.0	mg/l	3/26/04	3/26/04		PEF
Sodium	62	mg/l	3/26/04	3/26/04		PEF
Lead	0.043	mg/l	3/26/04	3/26/04		PEF
(1) EPA 350.1 Ammonia						
Ammonia as N	0.56	mg/l		4/2/04		DRB
(1) EPA 351.2 TKN as N						
Total Kjeldahl Nitrogen	1.1	mg/l	4/2/04	4/5/04		DRB
(1) EPA 405.1 BOD-5						
Biochemical Oxygen Demand, 5 Day	<4	mg/l		3/24/04	18:30	MM
(1) EPA 420.1 Recoverable Phenolics LL						
Phenolics, Total Recoverable	<0.002	mg/l	4/8/04	4/8/04		DWK
(1) EPA Method 300.0 A						
Bromide	<0.1	mg/l		3/25/04		RAF
Chloride	3.5	mg/l		3/25/04		RAF
Nitrate as N	<0.1	mg/l		3/25/04	00:10	RAF
Sulfate	5.9	mg/l		3/25/04		RAF
(1) HACH 8000 COD						
Chemical Oxygen Demand	120	mg/l		4/5/04		DWK
(1) SM 18 2320B, Alkalinity as CaCO3						
Alkalinity	220	mg/l		3/26/04		ASH
(1) SM 19 5310C TOC						
Total Organic Carbon	25	mg/l		3/26/04		TER
(1) SM18-2540C Total Dissolved Solids						
Total Dissolved Solids @ 180 C	360	mg/l		3/25/04		MM

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering *Albany, NY*

Sample ID: MW-10 **LSL Sample ID:** 0404237-006

Location: City of Rome

Sampled: 03/23/04 13:05 **Sampled By:** BZ

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	700	mg/l	3/26/04	3/26/04	PEF
(1) EPA 200.7 Total Metals					
Boron	3.8	mg/l	3/26/04	3/26/04	PEF
Calcium	120	mg/l	3/26/04	3/26/04	PEF
Cadmium	<0.01	mg/l	3/26/04	3/26/04	PEF
Iron	38	mg/l	3/26/04	3/26/04	PEF
Potassium	350	mg/l	3/26/04	4/5/04	PEF
Magnesium	96	mg/l	3/26/04	3/26/04	PEF
Manganese	0.74	mg/l	3/26/04	3/26/04	PEF
Sodium	500	mg/l	3/26/04	3/31/04	PEF
Lead	0.028	mg/l	3/26/04	3/26/04	PEF
(1) EPA 350.1 Ammonia					
Ammonia as N	380	mg/l		4/2/04	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	330	mg/l	4/2/04	4/5/04	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	28	mg/l		3/23/04 18:27	MM
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	0.017	mg/l	4/8/04	4/8/04	DWK
(1) EPA Method 300.0 A					
Bromide	3.7	mg/l		3/25/04	RAF
Chloride	450	mg/l		3/25/04	RAF
Nitrate as N	<0.1	mg/l		3/25/04 00:28	RAF
Sulfate	3.6	mg/l		3/25/04	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	300	mg/l		4/5/04	DWK
(1) SM 18 2320B, Alkalinity as CaCO3					
Alkalinity	2000	mg/l		3/26/04	ASH
(1) SM 19 5310C TOC					
Total Organic Carbon	180	mg/l		3/26/04	TER
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	2200	mg/l		3/25/04	MM

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: MW-12 **LSL Sample ID:** 0404237-007

Location: City of Rome

Sampled: 03/23/04 12:26 **Sampled By:** BZ

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	460	mg/l	3/26/04	3/26/04	PEF
(1) EPA 200.7 Total Metals					
Boron	3.0	mg/l	3/26/04	3/26/04	PEF
Calcium	77	mg/l	3/26/04	3/26/04	PEF
Cadmium	<0.01	mg/l	3/26/04	3/26/04	PEF
Iron	44	mg/l	3/26/04	3/26/04	PEF
Potassium	270	mg/l	3/26/04	4/2/04	PEF
Magnesium	64	mg/l	3/26/04	3/26/04	PEF
Manganese	0.29	mg/l	3/26/04	3/26/04	PEF
Sodium	330	mg/l	3/26/04	4/2/04	PEF
Lead	0.015	mg/l	3/26/04	3/26/04	PEF
(1) EPA 350.1 Ammonia					
Ammonia as N	300	mg/l		4/2/04	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	270	mg/l	4/2/04	4/5/04	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	29	mg/l		3/24/04 18:30	MM
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	0.022	mg/l	4/8/04	4/8/04	DWK
(1) EPA Method 300.0 A					
Bromide	5.0	mg/l		3/25/04	RAF
Chloride	370	mg/l		3/25/04	RAF
Nitrate as N	0.55	mg/l		3/25/04 00:46	RAF
Sulfate	2.0	mg/l		3/25/04	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	720	mg/l		4/5/04	DWK
(1) SM 18 2320B, Alkalinity as CaCO3					
Alkalinity	1800	mg/l		3/26/04	ASH
(1) SM 19 5310C TOC					
Total Organic Carbon	140	mg/l		3/26/04	TER
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	1800	mg/l		3/25/04	MM

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering *Albany, NY*

Sample ID: MS for MW-1S **LSL Sample ID:** 0404237-008

Location: City of Rome

Sampled: 03/23/04 11:58 **Sampled By:** BZ

Sample Matrix: QC

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	N/A				
(1) EPA 200.7 Total Metals					
Boron	99	%R	3/26/04	3/26/04	PEF
Calcium	95	%R	3/26/04	3/26/04	PEF
Cadmium	98	%R	3/26/04	3/26/04	PEF
Iron	103	%R	3/26/04	3/26/04	PEF
Potassium	101	%R	3/26/04	3/26/04	PEF
Magnesium	97	%R	3/26/04	3/26/04	PEF
Manganese	100	%R	3/26/04	3/26/04	PEF
Sodium	81	%R	3/26/04	3/26/04	PEF
Lead	97	%R	3/26/04	3/26/04	PEF
(1) EPA 350.1 Ammonia					
Ammonia as N	75	%R		4/2/04	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	69	%R	4/9/04	4/12/04	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	N/A			3/24/04	MM
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	88	%R	4/8/04	4/8/04	DWK
(1) EPA Method 300.0 A					
Bromide	94	% R		3/24/04 23:00	RAF
Chloride	82	% R		3/24/04 23:00	RAF
Nitrate as N	94	% R		3/24/04 23:00	RAF
Sulfate	93	% R		3/24/04 23:00	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	96	%R		4/5/04	DWK
(1) SM 18 2320B, Alkalinity as CaCO3					
Alkalinity	96	%R		3/26/04	ASH
(1) SM 19 5310C TOC					
Total Organic Carbon	100	%R		3/26/04	TER
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	N/A			3/25/04	MM

Life Science Laboratories, Inc.

Date Printed: 4/13/04

Analysis performed at: *(1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes*

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering *Albany, NY*

Sample ID: MSD for MW-1S **LSL Sample ID:** 0404237-009

Location: City of Rome

Sampled: 03/23/04 11:58 **Sampled By:** BZ

Sample Matrix: QC

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	N/A				
(1) EPA 200.7 Total Metals					
Boron	<1	RPD	3/26/04	3/26/04	PEF
Calcium	4.9	RPD	3/26/04	3/26/04	PEF
Cadmium	<1	RPD	3/26/04	3/26/04	PEF
Iron	6.8	RPD	3/26/04	3/26/04	PEF
Potassium	<1	RPD	3/26/04	3/26/04	PEF
Magnesium	<1	RPD	3/26/04	3/26/04	PEF
Manganese	4.5	RPD	3/26/04	3/26/04	PEF
Sodium	4.9	RPD	3/26/04	3/26/04	PEF
Lead	<1	RPD	3/26/04	3/26/04	PEF
(1) EPA 350.1 Ammonia					
Ammonia as N	<1	RPD		4/2/04	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	3	RPD	4/9/04	4/12/04	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	<1	RPD		3/24/04	MM
(1) EPA 420.1 Recoverable Phenolics LL					
Phenolics, Total Recoverable	<1	RPD	4/8/04	4/8/04	DWK
(1) EPA Method 300.0 A					
Bromide	<1	RPD		3/24/04 22:42	RAF
Chloride	3	RPD		3/24/04 22:42	RAF
Nitrate as N	7	RPD		3/24/04 22:42	RAF
Sulfate	4	RPD		3/24/04 22:42	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	1	RPD		4/5/04	DWK
(1) SM 18 2320B, Alkalinity as CaCO3					
Alkalinity	<1	RPD		3/26/04	ASH
(1) SM 19 5310C TOC					
Total Organic Carbon	<1	RPD		3/26/04	TER
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	6	RPD		3/25/04	MM

February 2004

O & M INSPECTION CHECKLIST

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 2/25/04 Inspector: EWF

Weather: Sunny 12°F light wind

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	OK
Access Road - surface/paving/snow	OK	OK 2" snow on Rd
Overall appearance (trash/litter)	OK	OK
Pump Station at Tannery Road: Condition:	OK	OK
Pump #1 Hours: 41949 Pump #2 Hours: 3568?.5		
Leachate Collection System:		
Panel - note conditions and any alarms:	OK	—
Panel/Wells on Landfill		
Manholes along road - general condition, erosion, overflows	OK	
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	
Meter Pit - open lid, check heater, leaks, etc.	OK	
Panel note conditions and any alarms:	OK	

Totallizers (in meter pit)

RW-1 4123000 RW-3 2256700

RW-2 2407000 RW-4 2371100

Hour Meters

RW-1 115219 RW-3 300255

RW-2 123199 RW-4 150225

Landfill Cover Inspection			
Leachate seeps	Any new seeps NO	If YES, describe:	
	Western seep condition:		
	North seep condition:		
Gas vents - general condition		OK	
- Unusual odors, list vents/describe.			
Flares ignited		OK	
Perimeter fence		OK	
Erosion/animal burrows	NO	If YES, describe:	

off

off-trying to light

off

#3 off

#5 off trying to light

off- trying to light

off- trying to light

MW1L

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 2/25/04 Inspector: EGF

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	6.86'	442.73	
MW - 2S	459.44	8.78	450.66	
MW - 3S	456.4	3.96'	452.44	
MW - 4S	456.19	4.18'	452.01	
MW - 5S	457.15	5.24'	451.91	
MW - 7S	452.25	8.93'	443.32	
MW - 9S	456.38	3.91'	452.47	
MW - 10	486.3	35.25'	451.05	
MW - 11	502.4	52.21'	450.19	
MW - 12	483.11	32.74'	450.37	
PZ - 1*	*452*	2.51	444.49	

* PZ-1 elevation needs to be surveyed, elevation is estimated.

NOTES:

mw-7D - 9.12'
mw-1D - 6.21'
mw-2D - 8.57'

mw-4D 5.04' Lock missing
mw-5D 5.33

March 2004

O & M INSPECTION CHECKLIST

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 3/23/04 Inspector: Brent Zimmer
Weather: Overcast 32°

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	Gate to landfill was unlocked
Access Road - surface/paving/snow	OK	Snow
Overall appearance (trash/litter)	OK	Snow
Pump Station at Tannery Road: Condition:	OK	
Pump #1 Hours: 42673 Pump #2 Hours: 36253		
Leachate Collection System:		
Panel - note conditions and any alarms:	OK	None
Autodialer - test	OK	Did not test

Totallizers (on Panel display at Tannery Rd)

RW-1 3986953 RW-3 41949 32
RW-2 636 5807 RW-4 11758 48

Panel/Wells on Landfill

Manholes along road - general condition, erosion, overflows	OK	
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	
Meter Pit - open lid, check heater, leaks, etc.	OK	Some water
Panel note conditions and any alarms:	OK	

Totallizers (in meter pit)

RW-1 420 52 RW-3 23002
RW-2 74786 RW-4 24784

Hour Meters

RW-1 116198 RW-3 306718
RW-2 124677 RW-4 156688

Landfill Cover Inspection

Leachate seeps Any new seeps	NO	If YES, describe:
Western seep condition:	OK	
North seep condition:	OK	
Gas vents - general condition	OK	
- Unusual odors, list vents/describe.	None	
Flares ignited	OK	Look Page 2
Perimeter fence	OK	Some gates off hinges
Erosion/animal burrows	NO	If YES, describe:

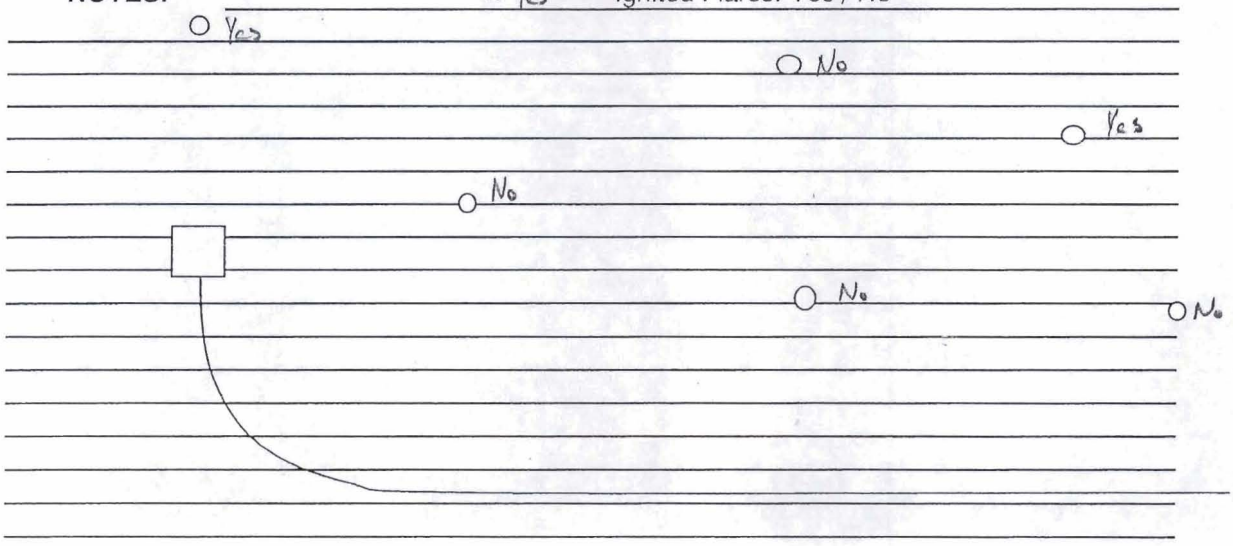
TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 3/23/04 Inspector: Brent Zimmer

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	4.75	444.84	Good
MW - 2S	459.44	6.51	452.93	Good
MW - 3S	456.4	—	—	Frozen 3.39
MW - 4S	456.19	3.76	452.43	Good
MW - 5S	457.15	4.34	452.81	Good
MW - 7S	452.25	7.91	444.34	Good
MW - 9S	456.38	3.77	452.61	Good
MW - 10	486.3	35.11	451.19	Good
MW - 11	502.4	52.09	450.31	Good
MW - 12	483.11	32.55	450.56	Good
PZ - 1*	454.37	5.77	448.60	Good

NOTES: ○ Yes Ignited Flares: Yes / No



April 2004

O & M INSPECTION CHECKLIST

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 4/16/04 Inspector: Brent Zimmer
Weather: Sunny Warm

GENERAL INSPECTION - To Be Completed Monthly

		Notes Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	
Access Road - surface/paving/snow	OK	
Overall appearance (trash/litter)	OK	
Pump Station at Tannery Road:	Condition: OK	
Pump #1 Hours: 43319	Pump #2 Hours: 36765	
Leachate Collection System:		
Panel - note conditions and any alarms:	OK None	
Autodialer - test	OK Not Performed	

Totallizers (on Panel display at Tannery Rd)

RW-1 4011126 RW-3 4200941
RW-2 6430620 RW-4 1268734

Panel/Wells on Landfill

Manholes along road - general condition, erosion, overflows	OK	Erosion
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity	OK	
Meter Pit - open lid, check heater, leaks, etc.	OK	
Panel note conditions and any alarms:	OK	

Totallizers (in meter pit)

RW-1 42294 RW-3 23237
RW-2 75433 RW-4 25712

Hour Meters

RW-1 121279 RW-3 312459
RW-2 125740 RW-4 162429

Landfill Cover Inspection

Leachate seeps Any new seeps	NO	If YES, describe:
Western seep condition:		Some Erosion
North seep condition:		Erosion just West of the N. Seep
Gas vents - general condition		OK
- Unusual odors, list vents/describe.		See Sheet 2
Flares ignited		OK No, See Sheet 2
Perimeter fence		OK
Erosion/animal burrows	NO	If YES, describe: Few wood chuck holes, mole holes

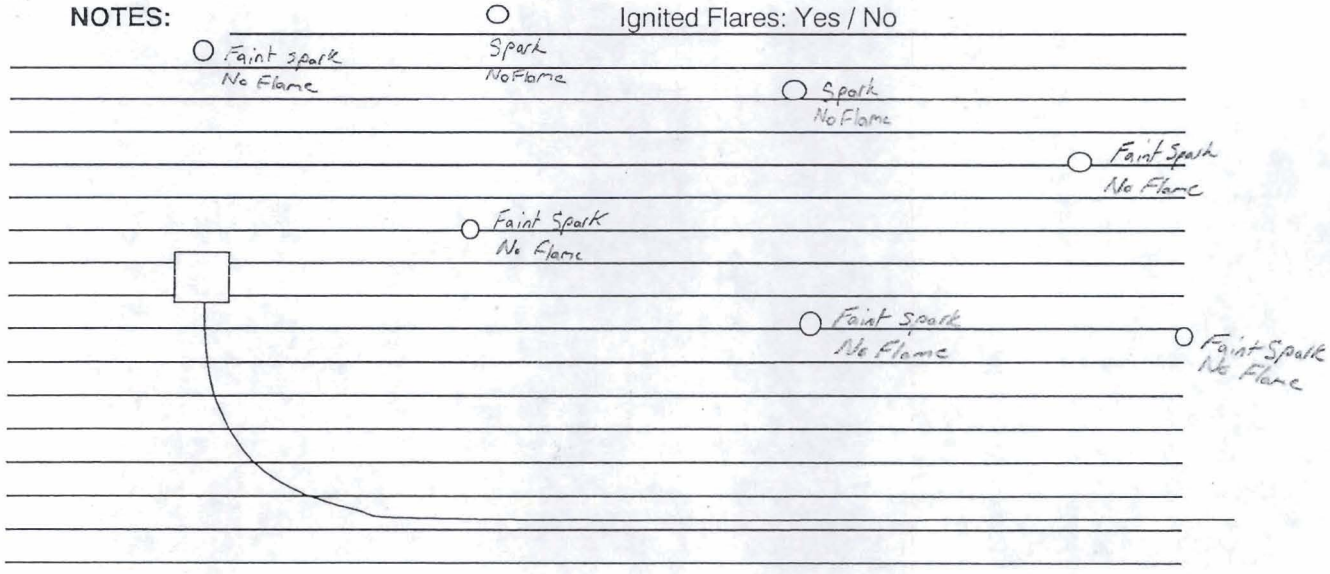
TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 4/16/09 Inspector: Brent Zimmer

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition	
MW - 1S	449.59	4.66	444.93	Good	
MW - 2S	459.44	6.59	452.85	Good	
MW - 3S	456.4	3.58	452.82	Good	
MW - 4S	456.19	3.86	452.33	Good	
MW - 5S	457.15	4.43	452.72	Good	
MW - 7S	452.25	7.52	444.73	Good	MW-7D = 7.45
MW - 9S	456.38	3.75	452.63	Good	
MW - 10	486.3	35.25	451.05	Good	
MW - 11	502.4	52.13	450.27	Good	
MW - 12	483.11	32.47	450.64	Good	
PZ - 1*	454.37	5.57	448.80	Good	

NOTES: Ignited Flares: Yes / No



HISTORICAL

GROUND WATER DATA TABLES

City of Rome
Tannery Road Landfill
Monitoring Well MW-1S
Ground Water Analtyical Data

Date	03/01/99	06/01/99	09/01/99	12/01/99	03/01/00	06/01/00	09/01/00	12/01/00	03/01/01	06/01/01	09/01/01	12/01/01	03/28/02	06/17/02	09/24/02	12/18/02	03/12/03	06/25/03	09/17/03	12/16/2003	03/23/04	NYSDEC Ground Water Standard
Field Parameter																						
Conductivity (µmhos/cm)	31	103	398	89	39	39	31	23	23	34	62	37	75	67	190	58	376	21	180	20	24	NS
pH (s.u.)	8.64	**5.97**	**6.37**	7	**5.85**	7.88	**6.45**	**5.27**	**6.18**	**4.95**	**5.89**	**6.23**	7.7	6.5	7.42		7.5	**4.9**	**6.24**	6.5	**5.22**	6.5 - 8.5
Temperature (deg C)	3.2	13.3	15.2	5.9	4.2	13	15.3		3.9	14.7	14.8	6.7	6	12.5	13.7	5.3	7.2	13	13.6	6	4.2	NS
Turbidity (NTU)	**785**	**925**	**560**	**140**	**222**	**161**	**527**	**195**	**316**	**186**	**88**	**90**	**145**	**68**	**126**	**8**	**65**	**556**	**52**	**50**	**113**	5
Part 360 Leachate Indicator Parameters																						
Ammonia-Nitrogen (mg/L)	<0.5	<0.5	**2**	<0.3	<0.3	<0.030	<0.030	<0.030	0.073	<0.030	0.089	<0.030	<0.030	<0.030	1.1	<0.030	0.14	<0.03	0.38	<0.03	<0.030	2
Biochemical Oxygen Demand (BOD5) (mg/L)	8	<4.0	<2.0	2	<2.0	30	<2.0	<4.0		<4.0	<4.0	<4.0	<4.0	4.6	12	<4.0	8.6	<4	<4.0	<4	<4.0	NS
Bromide (mg/L)	<0.2	<2.0	<2.0	<2.0	<2.0	**2.5**	<0.010	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.12	<0.100	<0.1	<0.1	<0.1	<0.1	<0.10	2
Chemical Oxygen Demand (mg/L)	52	100	25	14	12	6.7	96	19	36	26	34	14	24	45	66	9.9	<1.0	33	25	35	18	NS
Chloride (mg/L)	<1.0	31	28	3.7	2.3	**450**	3.3	2.5	2.9	2.4	3.8	2.5	2.7	2.7	6.4	2.6	36	3.8	8.2	2.5	3.4	250
Color (Pt-Co)		46					**30**					**50**	**20**					8				15
Nitrate-Nitrogen (mg/L)	<0.2	<0.2	<0.2	0.4	0.3	0.18	0.1	<0.100	0.15	0.15	0.16	<0.100	0.15	<0.100	0.13	0.14	<0.1	0.15	<0.1	<0.1	0.16	10
Sulfate (mg/L)	5	10	94	9.8	7.7	4.7	9.7	6.9	6.7	6.8	17	6.2	7	6	13	6.2	<1.0	7.9	15	6.9	7.4	250
Total Alkalinity (mg/L)	<10.0	37	84	7.8	9	1.9	15	1.2	1.4	2	12	1.9	<1.0	4	64	4	170	4	37	<1	<1.000	NS
Total Cyanide (mg/L)		<0.010					<0.010					<0.010	<0.010					<0.01				0.2
Total Dissolved Solids (mg/L)	140	140	260	39	30	**1,900**	26	<4.0	14	56	190	<4.0	170	26	120	42	280	30	120	34	32	500
Total Hardness (mg/L)	19	120	136	14	23	8	16	7.7	10	8.6	20	9.8	6.6	7.3	60	7.6	210	12	58	<7	7.8	NS
Total Kjeldahl Nitrogen (mg/L)	<0.5	2.4	1.3	<0.3	0.6	0.3	1.3	0.39	0.62	0.62	0.6	0.23	0.13	0.42	1.7	0.25	<0.1	0.27	0.58	0.34	0.53	NS
Total Organic Carbon (mg/L)	14	34	7	7.8	15.3	4.4	29	5.5	16	11	13	11.3	8.3	14	26	10	5.5	5.6	10	14	4.1	NS
Total Phenols (mg/L)	<0.005	<0.005	<0.001	**0.004**	**0.001**	<0.002	**0.007**	**0.003**	<0.002	<0.002	<0.002	<0.002	<0.002	**0.012**	**0.003**	<0.002	**0.0046**	<0.002	<0.002	**0.0034**	<0.002	0.001
Part 360 Routine Metals																						
Boron (mg/L)		<0.100				<0.5	<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5	<0.500	1
Cadmium (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.01	<0.01	<0.01	<0.010	0.005
Calcium (mg/L)	3.26	29.1	43.2	4.2	6.7	1.5	3.1	1.4	1.9	1.7	5.7	2.2	1	1.3	18	1.4	62	3.4	18	<1	1.5	NS
Iron (mg/L)	**16.3**	**30.5**	**33.1**	**3.1**	**4.3**	**1.9**	**17**	**6.3**	**8.8**	**5.6**	**7.8**	**3.2**	**4.5**	**4.7**	**50**	**7.2**	**2**	**2.8**	**8.1**	**2.7**	**2.4**	0.3*
Lead (mg/L)	0.012	**0.029**	0.01	<0.005	<0.005	<0.010	0.011	<0.010	<0.010	<0.010	<0.010	<1.0	<0.010	<0.010	0.02	<0.010	<0.01	<0.01	0.012	<0.01	<0.010	0.025
Magnesium (mg/L)	2.7	11.2	6.8	0.94	1.5	<1.0	2	1	1.3	1	1.5	<1.0	<1.0	<1.0	3.9	<1.0	14	<1.0	3.3	<1	<1.0	35 (GV)
Manganese (mg/L)	0.257	**0.759**	**1.2**	0.17	0.12	0.04	0.23	0.075	0.11	0.093	0.19	0.07	0.11	0.069	0.74	0.045	0.23	0.06	**0.45**	0.031	0.049	0.3*
Potassium (mg/L)	1.99	5.39	2.9	0.7	3.3	<1.0	1.2	<1.0	1.1	<1.0	1.2	<1.0	<1.0	<1.0	3.1	<1.0	1.2	<1.0	2.7	<1	<1.0	NS
Sodium (mg/L)	1.2	12.2	9.9	1.8	8.8	1.6	1.2	<1.0	1.2	<1.0	7.5	1.2	2.8	<1.0	4.9	<1.0	12	1.7	12	<1	1.1	20
Part 360 Additional Baseline Metals																						
Aluminum (mg/L)		32					25					5	8.9					3				NS
Antimony (mg/L)		<0.015					**0.012**					<0.010	<0.010					<0.01				0.003
Arsenic (mg/L)		0.018					<0.010					<0.010	<0.010					0.013				0.025
Barium (mg/L)		0.431					<0.2					<0.2	<0.2					<0.2				1
Beryllium (mg/L)		<0.003					<0.010					<0.010	<0.010					<0.01				0.003 (GV)
Chromium (mg/L)		0.047					0.01					<0.010	<0.010					<0.01				0.05
Chromium, Hexavalent (mg/L)		<0.010					<0.010					<0.010	<0.010					<0.01				0.05
Cobalt (mg/L)		<0.020					<0.010					<0.010	<0.010					<0.01				NS
Copper (mg/L)		0.041					0.022					<0.010	<0.010					0.012				0.2
Mercury (mg/L)		<0.0002					0.00053					<0.0002	0.000300					<0.0002				0.0007
Nickel (mg/L)		0.039					0.012					<0.010	<0.010					<0.01				0.1
Selenium (mg/L)		<0.005					<0.010					<0.010	<0.010					<0.01				0.01
Silver (mg/L)		<0.010					<0.010					<0.010	<0.010					<0.01				0.05
Thallium (mg/L)		<0.010					<0.010					<0.010	<0.010					<0.01				0.0005 (GV)
Vanadium (mg/L)		0.031					0.012					<0.010	<0.010					<0.01				NS
Zinc (mg/L)		0.149					0.1					0.04	0.033					0.094				2
Part 360 Volatile Organics																						
1,1,1,2-Tetrachloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
1,1,1-Trichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
1,1,2,2-Tetrachloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
1,1,2-Trichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				1
1,1-Dichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
1,1-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
1,2,3-Trichloropropane (µg/L)												<5.0	<5.0					<5				0.04
1,2-Dibromo-3-chloropropane (µg/L)		<10.0					<5.0					<5.0	<5.0					<5				0.04

City of Rome
Tannery Road Landfill
MW-3S
Ground Water Analytical Data

Parameter	03/01/99	06/01/99	09/01/99	12/01/99	03/01/00	06/01/00	09/01/00	12/01/00	03/01/01	06/01/01	09/01/01	12/01/01	03/28/02	06/17/02	09/24/02	12/18/02	03/12/03	06/25/03
1,1,1-Trichloroethane (µg/L)		<5					<5					<5	<5				Frozen	<5
1,1,2,2-Tetrachloroethane (µg/L)		<5					<5					<5	<5				Frozen	<5
1,1,2-Trichloroethane (µg/L)		<5					<5					<5	<5				Frozen	<5
1,1-Dichloroethane (µg/L)		<5					<5					<5	<5				Frozen	<5
1,1-Dichloroethene (µg/L)		<5					<5					<5	<5				Frozen	<5
1,2,3-Trichloropropane (µg/L)							<5					<5	<5				Frozen	<5
1,2-Dibromo-3-chloropropane (µg/L)		<10					<5					<5	<5				Frozen	<5
1,2-Dibromoethane (EDB) (µg/L)		<5					<5					<5	<5				Frozen	<5
1,2-Dichlorobenzene (µg/L)		<5					<5					<5	<5				Frozen	<5
1,2-Dichloroethane (µg/L)		<5					<5					<5	<5				Frozen	<5
1,2-Dichloropropane (µg/L)		<5					<5					<5	<5				Frozen	<5
1,3-Dichlorobenzene (µg/L)		<5																
1,4-Dichloro-2-butene (µg/L)		<10																
1,4-Dichlorobenzene (µg/L)		<5					<5					<5	<5				Frozen	<5
2-Butanone (MEK) (µg/L)		<10					<10					<10	<10				Frozen	<10
2-Hexanone (µg/L)		<10					<10					<10	<10				Frozen	<10
4-Methyl 2-pentanone (µg/L)		<10					<10					<10	<10				Frozen	<10
Acetone (µg/L)		21					<10					<10	<10				Frozen	<10
Acrylonitrile (µg/L)		<<100					<20					<20	<20				Frozen	<20
Benzene (µg/L)		<5					<5					<5	<5				Frozen	<5
Bromochloromethane (µg/L)		<5					<5					<5	<5				Frozen	<5
Bromodichloromethane (µg/L)		<5										<5	<5				Frozen	<5
Bromoform (µg/L)		<5					<5					<5	<5				Frozen	<5
Bromomethane (µg/L)		<5					<5					<5	<5				Frozen	<5
Carbon disulfide (µg/L)		6					<5					<5	<5				Frozen	<5
Carbon tetrachloride (µg/L)		<5					<5					<5	<5				Frozen	<5
Chlorobenzene (µg/L)		<5					<5					<5	<5				Frozen	<5
Chloroethane (µg/L)		<5					<5					<5	<5				Frozen	<5
Chloroform (µg/L)		<5					<5					<5	<5				Frozen	<5
Chloromethane (µg/L)		<5					<5					<5	<5				Frozen	<5
cis-1,2-Dichloroethene (µg/L)		<5					<5					<5	<5				Frozen	<5
cis-1,3-Dichloropropene (µg/L)		<5					<5					<5	<5				Frozen	<5
Dibromochloromethane (µg/L)		<5					<5					<5	<5				Frozen	<5
Dibromomethane (µg/L)		<5					<5					<5	<5				Frozen	<5
Ethyl benzene (µg/L)		<5					<5					<5	<5				Frozen	<5
Iodomethane (µg/L)		<5					<20					<20	<10				Frozen	<10
Methylene Chloride (µg/L)		<5					<10					<10	<10				Frozen	<10
Styrene (µg/L)							<5					<5	<5				Frozen	<5
Tetrachloroethene (µg/L)		<5					<5					<5	<5				Frozen	<5
Toluene (µg/L)		<5					<5					<5	<5				Frozen	<5
trans-1,2-Dichloroethene (µg/L)		<5					<5					<5	<5				Frozen	<5
trans-1,3-Dichloropropene (µg/L)		<5					<5					<5	<5				Frozen	<5
trans-1,4-Dichloro-2-butene (µg/L)							<50					<50	<10				Frozen	<10
Trichloroethene (µg/L)		<5					<5					<5	<5				Frozen	<5
Trichlorofluoromethane (µg/L)		<5					<5					<5	<5				Frozen	<5
Vinyl Acetate (µg/L)		<50					<20					<20	<20				Frozen	<20
Vinyl Chloride (µg/L)		<5					<5					<5	<5				Frozen	<5
Xylenes (Total) (µg/L)		<5					<5					<5	<5				Frozen	<5

Notes

1) < indicates not detected at or above the listed value
2) NS indicates that no standard has been promulgated.
3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
4) GV indicates that the value listed is a guidance value rather than a standard.
5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
6) ** Indicates standard applies to the sum of the isomers

City of Rome
Tannery Road Landfill
MW-3S
Ground Water Analytical Data

Parameter	09/17/03	12/16/03	03/23/04	NYSDEC Ground Water Standards
Field Parameters				
Conductivity (µmhos/cm)	1,150	1,000	Frozen	NS
pH (s.u.)	6.98	7.1	Frozen	6.5 - 8.5
Temperature (deg C)	15	7	Frozen	NS
Turbidity (NTU)	**60**	**70**	Frozen	5
Leachate Indicator Parameters				
Ammonia-Nitrogen (mg/L)	**72**	**75**	Frozen	2
Biochemical Oxygen Demand (BOD5) (mg/L)	<4.0	17	Frozen	NS
Bromide (mg/L)	<0.1	<0.1	Frozen	2
Chemical Oxygen Demand (mg/L)	96	120	Frozen	NS
Chloride (mg/L)	10	4.4	Frozen	250
Color (Pt-Co)	<0.1	0.17	Frozen	15
Nitrate-Nitrogen (mg/L)			Frozen	10
Sulfate (mg/L)	49	52	Frozen	250
Total Alkalinity (mg/L)	450	370	Frozen	NS
Total Cyanide	490	350	Frozen	0.2
Total Dissolved Solids (mg/L)			Frozen	500
Total Hardness (mg/L)	190	100	Frozen	NS
Total Kjeldahl Nitrogen (mg/L)	63	64	Frozen	NS
Total Organic Carbon (mg/L)	35	43	Frozen	NS
Total Phenols (mg/L)	<0.002	**0.0053**		0.001
Part 360 Routine Metals				
Boron (mg/L)	0.85	<0.5	Frozen	1
Cadmium (mg/L)	<0.01	<0.01	Frozen	0.005
Calcium (mg/L)	59	32	Frozen	NS
Iron (mg/L)	**14**	**29**	Frozen	0.3*
Lead (mg/L)	0.011	<0.01	Frozen	0.025
Magnesium (mg/L)	10	5.3	Frozen	35 (GV)
Manganese (mg/L)	**0.61**	**0.36**	Frozen	0.3*
Potassium (mg/L)	94	79	Frozen	NS
Sodium (mg/L)	**27**	10	Frozen	20
Part 360 Baseline Metals				
Aluminum (mg/L)				NS
Antimony (mg/L)				0.003
Arsenic (mg/L)				0.025
Barium (mg/L)				1
Beryllium (mg/L)				0.003 (GV)
Chromium (mg/L)				0.05
Chromium, Hexavalent (mg/L)				0.05
Cobalt (mg/L)				NS
Copper (mg/L)				0.2
Mercury (mg/L)				0.0007
Nickel (mg/L)				0.1
Potassium (mg/L)	94			NS
Selenium (mg/L)				0.01
Silver (mg/L)				0.05
Thallium (mg/L)				0.0005 (GV)
Vanadium (mg/L)				NS
Zinc (mg/L)				2
Volatile Organics				
1,1,1,2-Tetrachloroethane (µg/L)				5

City of Rome
Tannery Road Landfill
MW-3S
Ground Water Analytical Data

Parameter	09/17/03	12/16/03	03/23/04	NYSDEC
1,1,1-Trichloroethane (µg/L)				5
1,1,2,2-Tetrachloroethane (µg/L)				5
1,1,2-Trichloroethane (µg/L)				1
1,1-Dichloroethane (µg/L)				5
1,1-Dichloroethene (µg/L)				5
1,2,3-Trichloropropane (µg/L)				0.04
1,2-Dibromo-3-chloropropane (µg/L)				0.04
1,2-Dibromoethane (EDB) (µg/L)				5
1,2-Dichlorobenzene (µg/L)				3
1,2-Dichloroethane (µg/L)				0.6
1,2-Dichloropropane (µg/L)				1
1,3-Dichlorobenzene (µg/L)				3
1,4-Dichloro-2-butene (µg/L)				5
1,4-Dichlorobenzene (µg/L)				3
2-Butanone (MEK) (µg/L)				50 (GV)
2-Hexanone (µg/L)				50 (GV)
4-Methyl 2-pentanone (µg/L)				NS
Acetone (µg/L)				50 (GV)
Acrylonitrile (µg/L)				5
Benzene (µg/L)				1
Bromochloromethane (µg/L)				5
Bromodichloromethane (µg/L)				50 (GV)
Bromoform (µg/L)				50 (GV)
Bromomethane (µg/L)				5
Carbon disulfide (µg/L)				60 (GV)
Carbon tetrachloride (µg/L)				5
Chlorobenzene (µg/L)				5
Chloroethane (µg/L)				5
Chloroform (µg/L)				7
Chloromethane (µg/L)				5
cis-1,2-Dichloroethene (µg/L)				5
cis-1,3-Dichloropropene (µg/L)				0.4**
Dibromochloromethane (µg/L)				50 (GV)
Dibromomethane (µg/L)				5
Ethyl benzene (µg/L)				5
Iodomethane (µg/L)				5
Methylene Chloride (µg/L)				5
Styrene (µg/L)				5
Tetrachloroethene (µg/L)				5
Toluene (µg/L)				5
trans-1,2-Dichloroethene (µg/L)				5
trans-1,3-Dichloropropene (µg/L)				0.4**
trans-1,4-Dichloro-2-butene (µg/L)				5
Trichloroethene (µg/L)				5
Trichlorofluoromethane (µg/L)				5
Vinyl Acetate (µg/L)				NS
Vinyl Chloride (µg/L)				2
Xylenes (Total) (µg/L)				5

City of Rome
Tannery Road Landfill
MW-5S
Ground Water Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03
Field Parameter																			
Conductivity (µmhos/cm)	869	340	308	195	540	230	167	219	456	163	433	227	232	223	112	252	227	208	102
pH (s.u.)	7.56	6.75	**6.48**	7.3	**6.46**	6.75	6.85	6.67	**6.26**	6.5	6.75	6.84	6.57	6.85	**5.67**		6.5	6.77	6.85
Temperature (deg C)	5.2	16.2	13.1	7	6.5	10.9	12.8	6.6	6	14.6	11.6	7.7	4.8	10.1	13.2	6.9	5.5	13.1	14.3
Turbidity (NTU)	**64**	**533**	**204**	**162**	**74**	**55**	**198**	**46**	**35**	**42**	**68**	**36**	**47**		**837**	0	**27**	**334**	**202**
Part 360 Leachate Indicator Parameters																			
Ammonia-Nitrogen (mg/L)	1.5	<0.5	<0.3	<0.3	<0.3	0.11	0.11	0.34	1.3	0.34	1.4	0.43	0.82	0.26	0.09	0.57	0.65	0.71	0.058
Biochemical Oxygen Demand (BOD5) (mg/L)	11	**11**	2	2	62	20	<2.0	<4.0		<4.0	4.7	<4.0	<4.0	<4.0	9.5	<4.0	<4.0	<4	<4.0
Bromide (mg/L)	<0.2	<0.2	<2.0	<2.0	<2.0	1.3	<0.1	<0.1	<0.1	<0.1	0.13	<0.1	<0.1	<0.1	<0.1	<0.1	0.12	<0.1	<0.1
Chemical Oxygen Demand (mg/L)	71	45	32	20	36	24	32	26	37	5.2	43	23	31	18	62	20	16	69	22
Chloride (mg/L)	14	3	2.4	3.2	5.9	94	2.9	2.3	5	2.9	6	3.2	3.1	2.9	2.6	2.8	4.1	4	3.2
Color (Pt-Co)		**110**					**30**					**75**	**150**					**125**	
Nitrate-Nitrogen (mg/L)	<0.2	<0.2	<0.2	0.8	0.6	0.16	0.1	<0.1	<0.1	0.22	<0.1	<0.1	<0.1	<0.1	0.19	<0.1	<0.1	0.15	0.12
Sulfate (mg/L)	37	40	28	31	51	16	44	60	42	34	53	36	23	18	21	23	21	22	16
Total Alkalinity (mg/L)	470	170	300	58	260	120	52	47	200	50	190	68	82	80	40	110	97	86	32
Total Cyanide (mg/L)		<0.01										<0.01	<0.01					<0.01	
Total Dissolved Solids (mg/L)	430	130	230	150	360	730	140	150	300	120	240	200	78	110	180	170	160	170	92
Total Hardness (mg/L)	320	130	148	81	228	120	96	110	200	78	230	110	110	93	110	120	130	120	66
Total Kjeldahl Nitrogen (mg/L)	3.1	1.1	0.9	0.4	<0.3	0.61	0.69	0.8	1.8	0.67	1.6	0.62	0.89	0.39	1.4	0.63	0.66	0.79	0.37
Total Organic Carbon (mg/L)	22	15	15.1	17.1	16.8	9.7	9.1	8.5	13	7.2	13	9.6	11	6.5	22	8.1	8.1	10	5.7
Total Phenols (mg/L)	<0.005	<0.005	<0.001	**0.003**	**0.001**	**0.0024**	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.0097**	**0.0033**	<0.002	<0.002	<0.002	<0.002
Part 360 Routine Metals																			
Boron (mg/L)		<0.1				<0.5	<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5
Cadmium (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Calcium (mg/L)	97.8	35	43	23.3	69.9	35	27	31	64	23	72	35	35	30	27	41	42	39	20
Iron (mg/L)	**31.4**	**20.8**	**14.2**	**9.3**	**24.8**	**7.6**	**11**	**8**	**15**	**10**	**15**	**6.1**	**12**	**8.2**	**97**	**11**	**10**	**11**	**13**
Lead (mg/L)	<0.003	0.0056	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.022	<0.01	<0.01	<0.01	<0.01
Magnesium (mg/L)	18.6	10.2	9.8	5.5	13	7.9	6.7	7.3	10	5.1	12	6	5.3	4.2	9.5	5	5.3	4.8	4
Manganese (mg/L)	**12.2**	**4.16**	**6.5**	**2.6**	**8.5**	**2.8**	**1.4**	**1.8**	**2.6**	**0.37**	**2.5**	**1.4**	**1.6**	**1.4**	**3.6**	**1.4**	**0.92**	**0.65**	**0.48**
Potassium (mg/L)	8.94	4.89	3.4	3.8	6.6	5	4.7	5.1	8.8	24	9.4	5.6	4.4	4.2	5.1	5	4.7	4.6	3.3
Sodium (mg/L)	12.1	3.34	11	3.1	5.3	1.9	1.3	<1.0	3.8	13	4.8	1.4	1.6	1	<1.0	1.4	1.5	2.2	<1
Part 360 Additional Baseline Metals																			
Aluminum (mg/L)		3.2					2					0.41	0.54					0.73	
Antimony (mg/L)		<0.015					**0.022**					<0.01	<0.01					<0.01	
Arsenic (mg/L)		0.0138					<0.01					<0.01	0.013					**0.031**	
Barium (mg/L)		0.0655					<0.2					<0.2	<0.2					<0.2	
Beryllium (mg/L)		<0.003					<0.01					<0.01	<0.01					<0.01	
Chromium (mg/L)		0.0109					<0.01					<0.01	<0.01					<0.01	
Chromium, Hexavalent (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01	
Cobalt (mg/L)		<0.02					<0.01					<0.01	<0.01					<0.01	
Copper (mg/L)		0.0295					0.014					<0.01	<0.01					<0.01	
Mercury (mg/L)		<0.0002					**0.0027**					<0.0002	<0.0002					<0.0002	
Nickel (mg/L)		<0.03					<0.01					<0.01	<0.01					<0.01	
Selenium (mg/L)		<0.005					<0.01					<0.01	<0.01					<0.01	
Silver (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01	
Thallium (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01	
Vanadium (mg/L)		<0.3					<0.01					<0.01	<0.01					<0.01	
Zinc (mg/L)		0.0827					0.058					0.013	0.032					0.041	
Part 360 Volatile Organics																			
1,1,1,2-Tetrachloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5	
1,1,1-Trichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
1,1,2,2-Tetrachloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
1,1,2-Trichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	

City of Rome
Tannery Road Landfill
MW-5S
Ground Water Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03
1,1-Dichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
1,1-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
1,2,3-Trichloropropane (µg/L)							<5.0					<5.0	<5.0					<5	
1,2-Dibromo-3-chloropropane (µg/L)		<10.0					<5.0					<5.0	<5.0					<5	
1,2-Dibromoethane (EDB) (µg/L)		<5.0					<5.0					<5.0	<5.0					<5	
1,2-Dichlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5	
1,2-Dichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
1,2-Dichloropropane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
1,3-Dichlorobenzene (µg/L)		<5.0																	
1,4-Dichloro-2-butene (µg/L)		<10.0																	
1,4-Dichlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5	
2-Butanone (MEK) (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10	
2-Hexanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10	
4-Methyl 2-pentanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10	
Acetone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10	
Acrylonitrile (µg/L)		<100.0					<20.0					<20.0	<20.0					<20	
Benzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
Bromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5	
Bromodichloromethane (µg/L)		<5.0										<5.0	<5.0				<5	<5	
Bromoform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
Bromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
Carbon disulfide (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
Carbon tetrachloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
Chlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
Chloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
Chloroform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
Chloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
cis-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5	
cis-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
Dibromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
Dibromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5	
Ethyl benzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
Iodomethane (µg/L)		<5.0					<20.0					<20.0	<10.0					<10	
Methylene Chloride (µg/L)		<5.0					<10.0					<10.0	<10.0				<10	<10	
Styrene (µg/L)							<5.0					<5.0	<5.0				<5	<5	
Tetrachloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
Toluene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
trans-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5	
trans-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
trans-1,4-Dichloro-2-butene (µg/L)							<50.0					<50.0	<10.0					<10	
Trichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
Trichlorofluoromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5	
Vinyl Acetate (µg/L)		<50.0					<20.0					<20.0	<20.0					<20	
Vinyl Chloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
Xylenes (Total) (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5	
1,2-Dichloroethene - Total																	<5		

Notes

1) < indicates not detected at or above the listed value
2) NS indicates that no standard has been promulgated.
3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
4) GV indicates that the value listed is a guidance value rather than a standard.
5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
6) ** indicates standard applies to the sum of the isomers

City of Rome
Tannery Road Landfill
MW-5S
Ground Water Analytical Data

Parameter	12/16/2003	3/23/04	NYSDEC Ground Water Standard
Field Parameter			
Conductivity (μmhos/cm)	230	306	NS
pH (s.u.)	6.9	**6.15**	6.5 - 8.5
Temperature (deg C)	7	5.4	NS
Turbidity (NTU)	**140**	**41**	5
Part 360 Leachate Indicator Parameters			
Ammonia-Nitrogen (mg/L)	0.4	0.83	2
Biochemical Oxygen Demand (BOD5) (mg/L)	<4	<4.0	NS
Bromide (mg/L)	<0.1	<0.1	2
Chemical Oxygen Demand (mg/L)	32	25	NS
Chloride (mg/L)	4.3	4.2	250
Color (Pt-Co)			15
Nitrate-Nitrogen (mg/L)	0.18	<0.1	10
Sulfate (mg/L)	14	21	250
Total Alkalinity (mg/L)	100	110	NS
Total Cyanide (mg/L)			0.2
Total Dissolved Solids (mg/L)	160	180	500
Total Hardness (mg/L)	110	130	NS
Total Kjeldahl Nitrogen (mg/L)	0.59	1.3	NS
Total Organic Carbon (mg/L)	10	8.9	NS
Total Phenols (mg/L)	<0.002	<0.002	0.001
Part 360 Routine Metals			
Boron (mg/L)	<0.5	<0.5	1
Cadmium (mg/L)	<0.01	<0.01	0.005
Calcium (mg/L)	35	42	NS
Iron (mg/L)	**30**	9	0.3*
Lead (mg/L)	<0.01	<0.01	0.025
Magnesium (mg/L)	4.9	5.7	35 (GV)
Manganese (mg/L)	**1**	**0.67**	0.3*
Potassium (mg/L)	4.7	5.1	NS
Sodium (mg/L)	2.1	4.4	20
Part 360 Additional Baseline Metals			
Aluminum (mg/L)			NS
Antimony (mg/L)			0.003
Arsenic (mg/L)			0.025
Barium (mg/L)			1
Beryllium (mg/L)			0.003 (GV)
Chromium (mg/L)			0.05
Chromium, Hexavalent (mg/L)			0.05
Cobalt (mg/L)			NS
Copper (mg/L)			0.2
Mercury (mg/L)			0.0007
Nickel (mg/L)			0.1
Selenium (mg/L)			0.01
Silver (mg/L)			0.05
Thallium (mg/L)			0.0005 (GV)
Vanadium (mg/L)			NS
Zinc (mg/L)			2
Part 360 Volatile Organics			
1,1,1,2-Tetrachloroethane (μg/L)			5
1,1,1-Trichloroethane (μg/L)			5
1,1,2,2-Tetrachloroethane (μg/L)			5
1,1,2-Trichloroethane (μg/L)			1

City of Rome
Tannery Road Landfill
MW-5S
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Parameter	12/16/2003	3/23/04	NYSDEC Ground Water Standard
1,1-Dichloroethane (µg/L)			5
1,1-Dichloroethene (µg/L)			5
1,2,3-Trichloropropane (µg/L)			0.04
1,2-Dibromo-3-chloropropane (µg/L)			0.04
1,2-Dibromoethane (EDB) (µg/L)			5
1,2-Dichlorobenzene (µg/L)			3
1,2-Dichloroethane (µg/L)			0.6
1,2-Dichloropropane (µg/L)			1
1,3-Dichlorobenzene (µg/L)			3
1,4-Dichloro-2-butene (µg/L)			5
1,4-Dichlorobenzene (µg/L)			3
2-Butanone (MEK) (µg/L)			50 (GV)
2-Hexanone (µg/L)			50 (GV)
4-Methyl 2-pentanone (µg/L)			NS
Acetone (µg/L)			50 (GV)
Acrylonitrile (µg/L)			5
Benzene (µg/L)			1
Bromochloromethane (µg/L)			5
Bromodichloromethane (µg/L)			50 (GV)
Bromoform (µg/L)			50 (GV)
Bromomethane (µg/L)			5
Carbon disulfide (µg/L)			60 (GV)
Carbon tetrachloride (µg/L)			5
Chlorobenzene (µg/L)			5
Chloroethane (µg/L)			5
Chloroform (µg/L)			7
Chloromethane (µg/L)			5
cis-1,2-Dichloroethene (µg/L)			5
cis-1,3-Dichloropropene (µg/L)			0.4**
Dibromochloromethane (µg/L)			50 (GV)
Dibromomethane (µg/L)			5
Ethyl benzene (µg/L)			5
Iodomethane (µg/L)			5
Methylene Chloride (µg/L)			5
Styrene (µg/L)			5
Tetrachloroethene (µg/L)			5
Toluene (µg/L)			5
trans-1,2-Dichloroethene (µg/L)			5
trans-1,3-Dichloropropene (µg/L)			0.4**
trans-1,4-Dichloro-2-butene (µg/L)			5
Trichloroethene (µg/L)			5
Trichlorofluoromethane (µg/L)			5
Vinyl Acetate (µg/L)			NS
Vinyl Chloride (µg/L)			2
Xylenes (Total) (µg/L)			5
1,2-Dichloroethene - Total			

City of Rome
Tannery Road Landfill
MW-4S
Ground Water Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	NYSDEC Ground Water Standard
Field Parameter																						
Conductivity (umhos/cm)	672	1,590	2,010	444	338	334	429	374	204	247	555	177	125	161	807	163	137	123	685	207	164	NS
pH (s.u.)	7.05	**6.43**	**6.23**	7.11	**6.18**	**6.36**	**6.14**	**6.04**	**5.81**	**5.7**	**6.07**	**6.07**	**5.96**	**6.05**	8.3		**5.7**	**5.96**	**6.14**	**5.5**	**5.64**	6.5 - 8.5
Temperature (deg C)	5.7	15.8	15	7.1	6.3	11	14.3	6.8	5.3	15.6	12.7	7.7	5.9	11.5	13.5	6.8	5.5	14.4	15.3	6	4.9	NS
Turbidity (NTU)	**137**	**77**	**87**	**86**	**40**	**79**	**58**	**33**	**29**	**24**	**19**	**18**	**17**		**91**	0	**25**	**147**	**116**	**6**	**10**	5
Part 360 Leachate Indicator Parameters																						
Ammonia-Nitrogen (mg/L)	**26**	**<0.5**	**90**	**15**	**14**	**15**	**24**	**18**	**7.4**	**9.8**	**32**	**3.1**	**1.7**	**3.5**	**39**	**2.3**	**2.6**	1.7	**35**	**4.2**	**3.8**	2
Biochemical Oxygen Demand (BOD5) (mg/L)	62	6	34	24	23	<2.0	14	<20.0		12	25	<10.0	<10.0	<10.0	49	<10.0	6.6	4.7	15	<4	<4.0	NS
Bromide (mg/L)	<0.2	<0.2	<2.0	<2.0	<2.0	<0.1	<0.1	<0.1	<0.1	0.12	0.24	<0.1	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2
Chemical Oxygen Demand (mg/L)	540	44	22	110	120	110	160	140	110	98	160	88	62	84	230	44	54	75	220	87	74	NS
Chloride (mg/L)	50	3	200	23	100	2.7	21	16	7.1	8.7	43	5.6	4.5	5.3	99	4.6	5.3	3.8	98	4.8	2.5	250
Color (Pt-Co)		140					**250**					**300**	**250**					**175**				15
Nitrate-Nitrogen (mg/L)	<0.2	<0.2	<0.2	0.6	0.3	0.15	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.25	0.13	<0.1	0.15	<0.1	10
Sulfate (mg/L)	24	32	11	56	52	28	40	35	11	17	49	27	17	15	20	39	24	14	25	31	3.2	250
Total Alkalinity (mg/L)	200	120	660	110	99	99	140	100	57	91	170	23	27	48	280	20	24	34	200	30	41	NS
Total Cyanide (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01				0.2
Total Dissolved Solids (mg/L)	320	**5,100**	**810**	330	240	160	340	250	170	200	300	180	160	150	**530**	130	150	140	**560**	80	130	500
Total Hardness (mg/L)	42	110	94	49	36	41	46	44	31	40	56	42	34	36	77	42	35	35	130	37	36	NS
Total Kjeldahl Nitrogen (mg/L)	26	0.8	70	4.6	12	23	24	20	8.2	12	34	4.6	2.1	4.9	47	2.4	2.8	2	35	4.3	3.1	NS
Total Organic Carbon (mg/L)	71	21	47.8	35.5	39.3	45	56	62	42	43	61	**33**	30	41	84	21	24	27	78	32	29	NS
Total Phenols (mg/L)	**0.056**	<0.005	**0.008**	**0.012**	**0.003**	**0.0023**	**0.0028**	**0.0028**	<0.002	**0.003**	**0.0024**	<0.002	**0.0022**	**0.0093**	**0.0056**	**0.0022**	<0.002	<0.002	**0.0045**	**0.0036**	<0.002	0.001
Part 360 Routine Metals																						
Boron (mg/L)		<0.1				0.53	0.71			<0.5	0.65	<0.5	<0.5	<0.5	**1.1**			<0.01	**1.4**	<0.5	<0.5	1
Cadmium (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Calcium (mg/L)	11.2	29.8	24.4	12.6	9.1	10	12	11	7.7	9.6	14	10	8.5	8.8	20	10	8.7	8.7	34	9.1	8.8	NS
Iron (mg/L)	**5.2**	**32.8**	**10.3**	**5.3**	**4.4**	**3.9**	**5.5**	**6.5**	**4.9**	**6.6**	**6.9**	**6.6**	**5.2**	**5.2**	**21**	**4.8**	**4.2**	**3.9**	**9.4**	**3.4**	**4**	0.3*
Lead (mg/L)	<0.003	0.0085	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.025
Magnesium (mg/L)	3.35	8.28	8.1	4.3	3.2	3.7	4.1	4.2	3	3.9	4.9	4	3.2	3.3	6.3	3.8	3.2	3.1	10	3.5	3.5	35 (GV)
Manganese (mg/L)	**0.335**	**4.11**	**0.62**	**0.41**	**0.31**	**0.33**	**0.35**	**0.38**	**0.3**	**0.37**	**0.48**	**0.38**	**0.32**	**0.32**	**0.55**	0.27	0.24	0.22	**0.88**	0.2	0.24	0.3*
Potassium (mg/L)	28.6	4.86	57	34.2	24.1	33	31	35	16	24	33	14	9.7	11	42	13	10	10	48	12	12	NS
Sodium (mg/L)	**35.8**	3.43	**150**	**27.9**	18.1	21	**32**	18	7.4	13	46	5.7	5.2	4	81	4.6	4.7	3.1	**100**	4	4.5	20
Part 360 Additional Basiline Metals																						
Aluminum (mg/L)		2.77					1.8					1.1	1.2					1.4				NS
Antimony (mg/L)		<0.015					<0.01					<0.01	<0.01					<0.01				0.003
Arsenic (mg/L)		**0.027**					<0.01					<0.01	<0.01					0.011				0.025
Barium (mg/L)		0.0855					<0.2					<0.2	<0.2					<0.2				1
Beryllium (mg/L)		<0.003					<0.01					<0.01	<0.01					<0.01				0.003 (GV)
Chromium (mg/L)		0.0097					<0.01					<0.01	<0.01					<0.01				0.05
Chromium, Hexavalent (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01				0.05
Cobalt (mg/L)		<0.02					<0.01					<0.01	<0.01					<0.01				NS
Copper (mg/L)		0.0258					<0.01					<0.01	<0.01					<0.01				0.2
Mercury (mg/L)		<0.0002					<0.0002					<0.0002	<0.0002					<0.0002				0.0007
Nickel (mg/L)		<0.03					0.021					<0.01	<0.01					<0.01				0.1
Selenium (mg/L)		<0.005					<0.01					<0.01	<0.01					<0.01				0.01
Silver (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01				0.05
Thallium (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01				0.0005 (GV)
Vanadium (mg/L)		<0.3					0.011					<0.01	<0.01					<0.01				NS
Zinc (mg/L)		0.0508					0.032					0.012	0.024					0.049				2
Part 360 Volatile Organics																						
1,1,1,2-Tetrachloroethane (ug/L)		<5.0					<5.0					<5.0	<5.0					<5				5
1,1,1-Trichloroethane (ug/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
1,1,2,2-Tetrachloroethane (ug/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
1,1,2-Trichloroethane (ug/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				1

City of Rome
Tannery Road Landfill
MW-4S
Ground Water Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	NYSDEC Ground Water Standard
1,1-Dichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
1,1-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
1,2,3-Trichloropropane (µg/L)							<5.0					<5.0	<5.0					<5				0.04
1,2-Dibromo-3-chloropropane (µg/L)		<10.0					<5.0					<5.0	<5.0					<5				0.04
1,2-Dibromoethane (EDB) (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
1,2-Dichlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				3
1,2-Dichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				0.6
1,2-Dichloropropane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				1
1,3-Dichlorobenzene (µg/L)		<5.0																				<5
1,4-Dichloro-2-butene (µg/L)		<10.0																				<5
1,4-Dichlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				3
2-Butanone (MEK) (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10				50 (GV)
2-Hexanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10				50 (GV)
4-Methyl 2-pentanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10				NS
Acetone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10				50 (GV)
Acrylonitrile (µg/L)		<100.0					<20.0					<20.0	<20.0					<20				5
Benzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				1
Bromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
Bromodichloromethane (µg/L)		<5.0										<5.0	<5.0				<5	<5				50 (GV)
Bromoform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				50 (GV)
Bromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Carbon disulfide (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				60 (GV)
Carbon tetrachloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Chlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Chloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Chloroform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				7
Chloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
cis-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
cis-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				0.4**
Dibromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				50 (GV)
Dibromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
Ethyl benzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Iodomethane (µg/L)		<5.0					<20.0					<20.0	<10.0					<10				5
Methylene Chloride (µg/L)		<5.0					<10.0					<10.0	<10.0				<10	<10				5
Styrene (µg/L)							<5.0					<5.0	<5.0				<5	<5				5
Tetrachloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Toluene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
trans-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
trans-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				0.4**
trans-1,4-Dichloro-2-butene (µg/L)							<50.0					<50.0	<10.0					<10				5
Trichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Trichlorofluoromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
Vinyl Acetate (µg/L)		<50.0					<20.0					<20.0	<20.0					<20				NS
Vinyl Chloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				2
Xylenes (Total) (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
1,2-Dichloroethene - Total																	<5					

Notes

1) < indicates not detected at or above the listed value
2) NS indicates that no standard has been promulgated.
3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
4) GV indicates that the value listed is a guidance value rather than a standard.
5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
6) ** Indicates standard applies to the sum of the isomers

City of Rome
Tannery Road Landfill
MW-7D
Ground Water Analtyical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	NYSDEC Ground Water Standard
Field Parameters																						
Conductivity (μmhos/cm)	1,330	1,120	1,620	1,300	1,320	1,710	1,220	1,270	1,350	1,200	1,090	1,290	1,440	1,430	503	1,110	1,150	775	1,080	370	1,030	NS
pH (s.u.)	6.64	6.53	**6.4**	7.92	6.5	6.88	**6.41**	**6.46**	**6.2**	**5.96**	**6.39**	**6.31**	**5.96**	**6.25**	**5.4**		**6.3**	**6.42**	**6.48**	6.9	**6.23**	6.5 - 8.5
Temperature (deg C)	8.1	14.5	13.2	8.1	8.4	13.3	11.5	9	8.9	12.7	11.2	10.1	9	11.6	11.6	9.5	5.5	12.1	11.7	9	9.5	NS
Turbidity (NTU)	**160**	**42**	**94**	**247**	**128**	**83**	**98**	**62**	**97**	**112**	**152**	**53**	**29**		**345**	**61**	**69**	**999**	**128**	**30**	59	5
Part 360 Leachate Indicator Parameters																						
Ammonia-Nitrogen (mg/L)	**47**	**25**	**47**	**36**	**33**	**58**	**41**	**37**	**46**	**40**	**47**	**39**	**43**	**46**	**22**	**34**	**39**	**40**	**38**	**8.4**	30	2
Biochemical Oxygen Demand (BOD5) (mg/L)	19	17	17	11	11	4.4	10	<20.0		13	14	<20.0	<20.0	<10.0	9.3	<20.0	<10.0	12	7.1	<10	<10.0	NS
Bromide (mg/L)	<0.2	<0.2	<2.0	<2.0	<2.0	<0.1	1.1	1	0.93	0.74	0.75	0.64	0.8	1	0.21	0.11	0.85	0.89	0.88	<0.1	0.83	2
Chemical Oxygen Demand (mg/L)	570	140	14	110	120	150	140	120	140	120	120	120	130	130	150	100	120	150	120	76	110	NS
Chloride (mg/L)	81	70	88	84	68	3.3	65	59	74	62	46	56	76	72	21	7	55	57	54	8.8	56	250
Color (Pt-Co)		**280**					**750**					**850**	**750**					**600**				15
Nitrate-Nitrogen (mg/L)	<0.2	<0.2	<0.2	1.5	4.9	0.16	<0.1	<0.1	0.13	<0.1	<0.1	<0.1	0.16	<0.1	0.23	<0.1	<0.1	<0.1	<0.1	0.72	0.23	10
Sulfate (mg/L)	<5.0	35	12	28	34	9.3	41	44	35	47	45	52	58	61	47	8.6	54	57	49	28	39	250
Total Alkalinity (mg/L)	670	370	710	470	450	680	460	440	430	470	430	390	460	470	160	360	390	410	340	120	320	NS
Total Cyanide (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01				0.2
Total Dissolved Solids (mg/L)	**540**	**540**	**710**	**660**	**610**	**400**	**590**	**600**	**670**	**570**	480	**650**	**720**	**650**	420	**520**	**580**	**640**	**580**	240	**510**	500
Total Hardness (mg/L)	300	260	350	310	244	390	320	270	280	270	260	250	270	280	140	240	270	270	310	97	230	NS
Total Kjeldahl Nitrogen (mg/L)	44	36	36	24	26	680	50	51	52	43	50	39	50	44	26	36	41	41	25	6.4	35	NS
Total Organic Carbon (mg/L)	55	48	45.9	38.5	38.1	60	48	55	49	44	43	47	50	46	50	41	42	27	43	28	39	NS
Total Phenols (mg/L)	**0.01**	<0.005	**0.01**	**0.014**	**0.006**	**0.0055**	**0.004**	**0.004**	**0.0026**	**0.0034**	**0.0039**	**0.0042**	**0.0027**	**0.012**	**0.0044**	**0.003**	**0.0032**	**0.003**	**0.0024**	NA	**0.004**	0.001
Part 360 Routine Metals																						
Boron (mg/L)		0.7				**1.7**	**1.2**			<0.5	0.83	<0.5	0.99	0.83	<0.5			**1.1**	1.2	<0.5	0.95	1
Cadmium (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Calcium (mg/L)	62.9	61.1	74.9	64.2	56.4	87	77	66	70	66	64	65	71	71	35	63	69	80	76	24	57	NS
Iron (mg/L)	**41.1**	**39.2**	**40.8**	**37.7**	**33.2**	**53**	**45**	**38**	**41**	**42**	**39**	**40**	**40**	**40**	**35**	**34**	**41**	**47**	**45**	**27**	**34**	0.3*
Lead (mg/L)	0.0071	0.0041	0.006	0.014	0.006	<0.01	<0.01	<0.01	<0.01	0.013	0.014	<0.01	<0.01	<0.01	**0.035**	0.014	<0.01	<0.01	0.018	<0.01	0.012	0.025
Magnesium (mg/L)	33.6	25.9	**39.5**	**36.5**	25.1	**41**	32	25	25	25	25	22	24	25	14	20	25	29	28	9.1	22	35 (GV)
Manganese (mg/L)	**0.837**	**0.84**	**0.82**	**0.89**	**0.87**	**0.96**	**0.85**	**0.73**	**0.8**	**0.76**	**0.76**	**0.7**	**0.73**	**0.71**	**0.67**	**0.65**	**0.72**	**0.82**	**0.85**	**0.83**	**0.68**	0.3*
Potassium (mg/L)	54.8	40.9	48	50.5	38.4	60	46	66	43	39	41	37	40	43	23	40	39	47	39	20	37	NS
Sodium (mg/L)	**46.1**	**39.6**	**60**	**55.5**	**50.5**	**83**	**64**	**48**	**54**	**56**	**59**	**50**	**53**	**57**	15	**37**	**52**	**58**	**47**	9.9	**44**	20
Part 360 Additional Baseline Metals																						
Aluminum (mg/L)		0.439					1					1.2	0.83					2.3				NS
Antimony (mg/L)		<0.015					**0.034**					<0.01	<0.01					<0.01				0.003
Arsenic (mg/L)		<0.01					0.011					<0.01	<0.01					**0.026**				0.025
Barium (mg/L)		0.217					<0.2					0.43	0.49					0.61				1
Beryllium (mg/L)		<0.003					<0.01					<0.01	<0.01					<0.01				0.003 (GV)
Chromium (mg/L)		<0.005					<0.01					<0.01	<0.01					<0.01				0.05
Chromium, Hexavalent (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01				0.05
Cobalt (mg/L)		<0.02					<0.01					<0.01	<0.01					<0.01				NS
Copper (mg/L)		<0.01					<0.01					0.022	<0.01					<0.01				0.2
Mercury (mg/L)		<0.0002					<0.0002					<0.0002	<0.0002					<0.0002				0.0007
Nickel (mg/L)		<0.03					<0.01					<0.01	<0.01					<0.01				0.1
Selenium (mg/L)		<0.005					<0.01					<0.01	<0.01					<0.01				0.01
Silver (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01				0.05
Thallium (mg/L)		**0.0105**					<0.01					<0.01	<0.01					<0.01				0.0005 (GV)
Vanadium (mg/L)		<0.3					0.013					0.013	0.01					0.018				NS
Zinc (mg/L)		0.056					0.067					0.036	0.034					0.097				2
Part 360 Volatile Organics																						
1,1,1,2-Tetrachloroethane (μg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
1,1,1-Trichloroethane (μg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
1,1,2,2-Tetrachloroethane (μg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
1,1,2-Trichloroethane (μg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				1
1,1-Dichloroethane (μg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5

City of Rome
Tannery Road Landfill
MW-7D
Ground Water Analtyical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	NYSDEC Ground Water Standard
1,1-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
1,2,3-Trichloropropane (µg/L)							<5.0					<5.0	<5.0					<5				0.04
1,2-Dibromo-3-chloropropane (µg/L)		<10.0					<5.0					<5.0	<5.0					<5				0.04
1,2-Dibromoethane (EDB) (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
1,2-Dichlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				3
1,2-Dichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				0.6
1,2-Dichloropropane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				1
1,3-Dichlorobenzene (µg/L)		<5.0																				3
1,4-Dichloro-2-butene (µg/L)		<10.0																				5
1,4-Dichlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				3
2-Butanone (MEK) (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10				50 (GV)
2-Hexanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10				50 (GV)
4-Methyl 2-pentanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10				NS
Acetone (µg/L)		<10.0					<10.0					<10.0	<10.0				10	<10				50 (GV)
Acrylonitrile (µg/L)		<100.0					<20.0					<20.0	<20.0					<20				5
Benzene (µg/L)		<5.0					**14**					**17**	**24**				**15**	**16**				1
Bromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
Bromodichloromethane (µg/L)		<5.0										<5.0	<5.0				<5	<5				50 (GV)
Bromoform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				50 (GV)
Bromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Carbon disulfide (µg/L)		<18.0					<5.0					<5.0	<5.0				<5	<5				60 (GV)
Carbon tetrachloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Chlorobenzene (µg/L)		**23**					**8.4**					**5.8**	**5.3**				<5	<5				5
Chloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Chloroform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				7
Chloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
cis-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
cis-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				0.4**
Dibromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				50 (GV)
Dibromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
Ethyl benzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Iodomethane (µg/L)		<5.0					<20.0					<20.0	<10.0					<10				5
Methylene Chloride (µg/L)		<5.0					<10.0					<10.0	<10.0				<10	<10				5
Styrene (µg/L)							<5.0					<5.0	<5.0				<5	<5				5
Tetrachloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Toluene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
trans-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
trans-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				0.4**
trans-1,4-Dichloro-2-butene (µg/L)							<50.0					<50.0	<10.0					<10				5
Trichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Trichlorofluoromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
Vinyl Acetate (µg/L)		<50.0					<20.0					<20.0	<20.0					<20				NS
Vinyl Chloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				2
Xylenes (Total) (µg/L)		2					**16**					**130**	**180**				**160**	**97**				5
1,2-Dichloroethene - Total																	<5					

Notes

1) < indicates not detected at or above the listed value
2) NS indicates that no standard has been promulgated.
3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
4) GV indicates that the value listed is a guidance value rather than a standard.
5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
6) ** Indicates standard applies to the sum of the isomers

City of Rome
Tannery Road Landfill
MW-9S
Ground Water Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	NYSDEC Ground Water Standard
Field Parameters																						
Conductivity (μmhos/cm)	485	398	369	411	413	414	411	411	419	365	390	408	435	415	377	410	423	385	392	480	413	NS
pH (s.u.)	7.67	7.32	7.23	7.31	7.11	6.89	6.96	7.28	7.2	6.94	6.65	7.39	7.15	7.39	8.9		7.3	7.17	7.5	7.5	6.98	6.5 - 8.5
Temperature (deg C)	5.8	14.6	12.9	7.4	6.4	9.8	11	8.2	6.1	11.9	11.4	8.2	7.4	9.3	12.7	8	6.3	11.3	12.8	6	5.2	NS
Turbidity (NTU)	**999**	**324**	**659**	**999**	**999**	**999**	**999**	**999**	**999**	**704**	**241**	**466**	**460**	**501**	**999**	**506**	**218**	**999**	**614**	**50**	**492**	5
Part 360 Leachate Indicator Parameters																						
Ammonia-Nitrogen (mg/L)	<0.5	<0.5	<0.3	<0.3	<0.3	0.14	0.3	0.15	0.28	0.3	0.39	0.21	0.17	0.33	0.32	0.56	0.16	1.8	0.93	<0.03	0.56	2
Biochemical Oxygen Demand (BOD5) (mg/L)	<4.0	5	3.9	5	4.7	5.6	2.1	<4.0		<4.0	4.2	<4.0	<4.0	<4.0	18	4.5	<4.0	4.4	<4.0	<4	<4.0	NS
Bromide (mg/L)	<0.2	<0.2	<2.0	<2.0	<2.0	0.15	<0.1	<0.1	<0.1	0.17	0.12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2
Chemical Oxygen Demand (mg/L)	160	120	26	76	64	74	160	120	96	120	72	75	290	75	87	64	57	120	67	75	120	NS
Chloride (mg/L)	8	3	4.1	<2.0	2.6	3.3	3.3	3.3	3.4	3.2	3.6	3.3	3.2	3.4	3.3	3.2	3.2	3.2	3.4	3.4	3.5	250
Color (Pt-Co)		**530**					**400**					**600**	**850**					**750**				15
Nitrate-Nitrogen (mg/L)	<0.2	<0.2	<0.2	0.5	0.3	<0.1	<0.1	<0.1	<0.1	0.18	<0.1	0.17	0.16	<0.1	0.14	<0.1	<0.1	<0.1	<0.1	0.18	<0.1	10
Sulfate (mg/L)	5	8	12	8	12	8.5	2.3	4.7	4.2	2.9	3.1	8.6	15	8.4	3.2	6.2	19	15	3.2	8	5.9	250
Total Alkalinity (mg/L)	230	260	1400	260	270	240	270	280	230	260	240	210	240	250	230	250	240	250	220	240	220	NS
Total Cyanide (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01				0.2
Total Dissolved Solids (mg/L)	420	260	360	340	340	390	420	400	360	380	240	430	360	340	330	380	390	360	340	320	360	500
Total Hardness (mg/L)	1100	530	477.2904	489.5396	466	610	720	700	1200	300	420	390	460	360	650	730	380	400	410	150	730	NS
Total Kjeldahl Nitrogen (mg/L)	2.8	1.9	0.5	<0.3	<0.3	0.97	1.4	1.7	1	1.3	1	0.7	0.45	1.2	1.7	0.52	0.74	1.5	0.57	0.63	1.1	NS
Total Organic Carbon (mg/L)	30	29	28.6	38.5	32.6	32	31	36	35	30	29	32	29	31	32	26	24	32	25	28	25	NS
Total Phenols (mg/L)	<0.005	<0.005	<0.001	**0.005**	<0.001	**0.0022**	**0.019**	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.0087**	**0.0035**	<0.002	<0.002	**0.0022**	**0.0026**	**0.0031**	<0.002	0.001
Part 360 Routine Metals																						
Boron (mg/L)		<0.1				<0.5	<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5	<0.5	1
Cadmium (mg/L)	**0.0088**	**0.0053**	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Calcium (mg/L)	307	142	142	138	138	160	190	180	300	88	120	110	130	100	170	200	100	110	120	50	180	NS
Iron (mg/L)	**85.3**	**47.8**	**28.2**	**26.8**	**14.3**	**37**	**56**	**56**	**110**	**21**	**30**	**24**	**29**	**26**	**48**	**52**	**25**	**36**	**29**	**2.6**	**67**	0.3*
Lead (mg/L)	**0.0381**	0.021	0.011	0.017	0.008	<0.01	<0.01	**0.043**	**0.042**	0.012	0.012	0.011	0.017	0.014	**0.034**	**0.041**	<0.01	<0.01	0.023	<0.01	**0.043**	0.025
Magnesium (mg/L)	**83.9**	**43.5**	29.8	**35.2**	29.4	**48**	**58**	**60**	**100**	19	29	28	34	26	**53**	**60**	27	30	27	5.2	**66**	35 (GV)
Manganese (mg/L)	**4.21**	**2.13**	**1.7**	**1.9**	**1.6**	**2.4**	**2.8**	**2.7**	**5**	**1.1**	**1.5**	**1.5**	**1.8**	**1.4**	**2.6**	**3**	**1.4**	**1.6**	**1.5**	**0.36**	**3**	0.3*
Potassium (mg/L)	12.1	6.96	2.3	4.6	2.4	4.6	6.4	7.3	14	4.2	7.2	4.6	4.6	6.6	6.3	5.4	4.5	5.8	4.9	2.7	7.8	NS
Sodium (mg/L)	**49.3**	**39.3**	**30**	**41.7**	**46**	**46**	**49**	**53**	**55**	**48**	**33**	**43**	**55**	**57**	**38**	**40**	**53**	**54**	**37**	**55**	**62**	20
Part 360 Additional Baseline Metals																						
Aluminum (mg/L)		23.9					<0.01					12	12					18				NS
Antimony (mg/L)		<0.015					**0.048**					<0.01	<0.01					<0.01				0.003
Arsenic (mg/L)		<0.01					<0.01					0.016	0.019					**0.035**				0.025
Barium (mg/L)		0.201					0.23					<0.2	<0.2					0.2				1
Beryllium (mg/L)		<0.003					<0.01					<0.01	<0.01					<0.01				0.003 (GV)
Chromium (mg/L)		**0.0592**					<0.01					0.02	0.022					0.033				0.05
Chromium, Hexavalent (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01				0.05
Cobalt (mg/L)		<0.02					0.024					<0.01	<0.01					0.014				NS
Copper (mg/L)		0.0845					0.092					0.036	0.027					0.085				0.2
Mercury (mg/L)		<0.0002					<0.0002					<0.0002	<0.0002					<0.0002				0.0007
Nickel (mg/L)		0.0726					0.071					0.027	0.034					0.042				0.1
Selenium (mg/L)		<0.005					<0.01					<0.01	<0.01					<0.01				0.01
Silver (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01				0.05
Thallium (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01				0.0005 (GV)
Vanadium (mg/L)		0.047					0.048					0.023	0.024					0.037				NS
Zinc (mg/L)		0.184					0.2					0.063	0.081					0.13				2
Part 360 Volatile Organics																						
1,1,1,2-Tetrachloroethane (μg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
1,1,1-Trichloroethane (μg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
1,1,2,2-Tetrachloroethane (μg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
1,1,2-Trichloroethane (μg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				1
1,1-Dichloroethane (μg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5

City of Rome
Tannery Road Landfill
MW-9S
Ground Water Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	NYSDEC Ground Water Standard
1,1-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
1,2,3-Trichloropropane (µg/L)							<5.0					<5.0	<5.0					<5				0.04
1,2-Dibromo-3-chloropropane (µg/L)		<10.0					<5.0					<5.0	<5.0					<5				0.04
1,2-Dibromoethane (EDB) (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
1,2-Dichlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				3
1,2-Dichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				0.6
1,2-Dichloropropane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				1
1,3-Dichlorobenzene (µg/L)		<5.0																				3
1,4-Dichloro-2-butene (µg/L)		<10.0																				5
1,4-Dichlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				3
2-Butanone (MEK) (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10				50 (GV)
2-Hexanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10				50 (GV)
4-Methyl 2-pentanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10				NS
Acetone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10				50 (GV)
Acrylonitrile (µg/L)		<100.0					<20.0					<20.0	<20.0					<20				5
Benzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				1
Bromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
Bromodichloromethane (µg/L)		<5.0										<5.0	<5.0				<5	<5				50 (GV)
Bromoform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				50 (GV)
Bromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Carbon disulfide (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				60 (GV)
Carbon tetrachloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Chlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Chloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Chloroform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				7
Chloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
cis-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
cis-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				0.4**
Dibromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				50 (GV)
Dibromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
Ethyl benzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Iodomethane (µg/L)		<5.0					<20.0					<20.0	<10.0					<10				5
Methylene Chloride (µg/L)		<5.0					<10.0					<10.0	<10.0				<10	<10				5
Styrene (µg/L)							<5.0					<5.0	<5.0				<5	<5				5
Tetrachloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Toluene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
trans-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
trans-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				0.4**
trans-1,4-Dichloro-2-butene (µg/L)							<50.0					<50.0	<10.0					<10				5
Trichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Trichlorofluoromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
Vinyl Acetate (µg/L)		<50.0					<20.0					<20.0	<20.0					<20				NS
Vinyl Chloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				2
Xylenes (Total) (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
1,2-Dichloroethene - Total																	<5					

Notes

1) < indicates not detected at or above the listed value
2) NS indicates that no standard has been promulgated.
3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
4) GV indicates that the value listed is a guidance value rather than a standard.
5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
6) ** Indicates standard applies to the sum of the isomers

City of Rome
Tannery Road Landfill
Leachate Well MW-10
Analytical Data

Parameter	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	NYSDEC Ground Water Standard
Field Parameters										
Conductivity (μmhos/cm)	4,940	4,970	5,440	3,780	4,050	4,810	5,600	4,300	4,810	NS
pH (s.u.)	**6.48**	6.63	7		6.6	6.5	6.78	**6.4**	6.59	6.5 - 8.5
Temperature (deg C)	12.8	15.2	17.2	10.4	7.6	19.7	15.8	9	12.8	NS
Turbidity (NTU)	**356**	**183**	**585**	**164**	**207**	**383**	**47**	**430**	**189**	5
Part 360 Leachate Indicator Parameters										
Ammonia-Nitrogen (mg/L)	**200**	**260**	**270**	**200**	**280**	**280**	**270**	**230**	**380**	2
Biochemical Oxygen Demand (BOD5) (mg/L)	38	24	46	34	30	20	36	43	28	NS
Bromide (mg/L)	**2.6**	**3**	**3.9**	1.9	**2.1**	**3.2**	**3.8**	**2.3**	**3.7**	2
Chemical Oxygen Demand (mg/L)	420	250	3,200	270	340	490	640	270	300	NS
Chloride (mg/L)	**440**	**430**	**610**	**380**	200	**450**	**550**	**260**	**450**	250
Color (Pt-Co)	**1,400**					**600**				15
Nitrate-Nitrogen (mg/L)	<0.1	0.16	0.17	<0.1	<0.1	0.15	0.76	0.54	<0.1	10
Sulfate (mg/L)	2.9	2.2	3.6	2.2	2.3	2.5	<1	2.3	3.6	250
Total Alkalinity (mg/L)	1,700	1,900	2,200	1,500	1,600	1,800	2,000	1,500	2,000	NS
Total Cyanide (mg/L)	<0.01					<0.01				0.2
Total Dissolved Solids (mg/L)	**1,900**	**2,100**	**2,500**	**1,500**	**1,400**	**2,200**	**2,500**	**1,200**	**2,200**	500
Total Hardness (mg/L)	580	580	690	480	550	750	790	430	700	NS
Total Kjeldahl Nitrogen (mg/L)	290	220	320	220	280	300	330	350	330	NS
Total Organic Carbon (mg/L)	160	150	230	99	120	120	230	110	180	NS
Total Phenols (mg/L)	**0.016**	**0.02**	**0.015**	**0.026**	<0.002	**0.015**	**0.013**	**0.017**	**0.017**	0.001
Part 360 Routine Metals										
Boron (mg/L)	**2.5**	**2.7**	**3.7**			**3.4**	**4.4**	**1.6**	**3.8**	1
Cadmium (mg/L)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
Calcium (mg/L)	120	120	140	100	110	150	150	91	120	NS
Iron (mg/L)	**62**	**60**	**70**	**48**	**58**	**61**	**68**	**52**	**38**	0.3*
Lead (mg/L)	**0.049**	**0.031**	**0.04**	0.022	**0.041**	<0.01	0.014	0.022	**0.028**	0.025
Magnesium (mg/L)	**68**	**67**	**83**	**53**	**65**	**94**	**100**	**50**	**96**	35 (GV)
Manganese (mg/L)	**1.3**	**1.5**	**2.4**	**1.6**	**1.5**	**1.7**	**2.7**	**1.3**	**0.74**	0.3*
Potassium (mg/L)	190	200	340	180	230	230	410	220	350	NS
Sodium (mg/L)	**430**	**460**	**600**	**250**	**270**	**420**	**630**	**250**	**500**	20
Part 360 Additional Baseline Metals										
Aluminum (mg/L)	2.4					0.9				NS
Antimony (mg/L)	<0.01					<0.01				0.003
Arsenic (mg/L)	0.02					**0.038**				0.025
Barium (mg/L)	<0.2					0.32				1
Beryllium (mg/L)	<0.01					<0.01				0.003 (GV)
Chromium (mg/L)	0.031					0.019				0.05
Chromium, Hexavalent (mg/L)	<0.01					<0.01				0.05
Cobalt (mg/L)	0.012					0.017				NS
Copper (mg/L)	0.052					0.013				0.2
Mercury (mg/L)	0.0002					<0.0002				0.0007
Nickel (mg/L)	0.062					0.049				0.1
Selenium (mg/L)	<0.01					<0.01				0.01
Silver (mg/L)	<0.01					<0.01				0.05
Thallium (mg/L)	<0.01					<0.01				0.0005 (GV)
Vanadium (mg/L)	<0.01					0.012				NS
Zinc (mg/L)	0.16					0.11				2
Part 360 Volatile Organics										
1,1,1,2-Tetrachloroethane (μg/L)	<5.0					<5				5
1,1,1-Trichloroethane (μg/L)	<5.0				<5	<5				5
1,1,2,2-Tetrachloroethane (μg/L)	<5.0				<5	<5				5

City of Rome
Tannery Road Landfill
Leachate Well MW-10
Analytical Data

Parameter	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	NYSDEC Ground Water Standard
1,1,2-Trichloroethane (µg/L)	<5.0				<5	<5				1
1,1-Dichloroethane (µg/L)	<5.0				<5	<5				5
1,1-Dichloroethene (µg/L)	<5.0				<5	<5				5
1,2,3-Trichloropropane (µg/L)	<5.0					<5				0.04
1,2-Dibromo-3-chloropropane (µg/L)	<5.0					<5				0.04
1,2-Dibromoethane (EDB) (µg/L)	<5.0					<5				5
1,2-Dichlorobenzene (µg/L)	<5.0					<5				3
1,2-Dichloroethane (µg/L)	<5.0				<5	<5				0.6
1,2-Dichloropropane (µg/L)	<5.0				<5	<5				1
1,4-Dichlorobenzene (µg/L)	<5.0					<5				3
2-Butanone (MEK) (µg/L)	<10.0				<10	<10				50 (GV)
2-Hexanone (µg/L)	<10.0				<10	<10				50 (GV)
4-Methyl 2-pentanone (µg/L)	<10.0					<10				NS
Acetone (µg/L)	18				28	13				50 (GV)
Acrylonitrile (µg/L)	<20.0					<20				5
Benzene (µg/L)	**5.5**				**5.7**	<5				1
Bromochloromethane (µg/L)	<5.0					<5				5
Bromodichloromethane (µg/L)	<5.0				<5	<5				50 (GV)
Bromoform (µg/L)	<5.0				<5	<5				50 (GV)
Bromomethane (µg/L)	<5.0				<5	<5				5
Carbon disulfide (µg/L)	<5.0				<5	<5				60 (GV)
Carbon tetrachloride (µg/L)	<5.0				<5	<5				5
Chlorobenzene (µg/L)	<5.0				<5	<5				5
Chloroethane (µg/L)	**33**				**33**	**22**				5
Chloroform (µg/L)	<5.0				<5	<5				7
Chloromethane (µg/L)	<5.0				<5	<5				5
cis-1,2-Dichloroethene (µg/L)	<5.0					<5				5
cis-1,3-Dichloropropene (µg/L)	<5.0				<5	<5				0.4**
Dibromochloromethane (µg/L)	<5.0				<5	<5				50 (GV)
Dibromomethane (µg/L)	<5.0					<5				5
Ethyl benzene (µg/L)	**29**				<5	<5				5
Iodomethane (µg/L)	<10.0					<10				5
Methylene Chloride (µg/L)	<10.0				<10	<10				5
Styrene (µg/L)	<5.0				<5	<5				5
Tetrachloroethene (µg/L)	<5.0				<5	<5				5
Toluene (µg/L)	<5.0				<5	<5				5
trans-1,2-Dichloroethene (µg/L)	<5.0					<5				5
trans-1,3-Dichloropropene (µg/L)	<5.0				<5	<5				0.4**
trans-1,4-Dichloro-2-butene (µg/L)	<10.0					<10				5
Trichloroethene (µg/L)	<5.0				<5	<5				5
Trichlorofluoromethane (µg/L)	<5.0					<5				5
Vinyl Acetate (µg/L)	<20.0					<20				NS
Vinyl Chloride (µg/L)	<5.0				<5	<5				2
Xylenes (Total) (µg/L)	**75**				**96**	**28**				5
1,2-Dichloroethene - Total					<5					

Notes

1) < indicates not detected at or above the listed value
2) NS indicates that no standard has been promulgated.
3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
4) GV indicates that the value listed is a guidance value rather than a standard.
5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
6) ** Indicates standard applies to the sum of the isomers

City of Rome
Tannery Road Landfill
Leachate Well MW-12
Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	NYSDEC Ground Water Standard
Field Parameters																						
Conductivity (µmhos/cm)	3,400	3,430	3,850	3,900	4,470	4,770	4,560	4,940	4,080	3,820	4,100	5,090	4,750	4,490	5,700	4,430	4,820	4,500	4,550	4,600	4970	NS
pH (s.u.)	**6.12**	6.74	6.69	6.7	6.64	7.01	6.54	6.5	6.56	6.54	6.75	6.65	**6.42**	6.66	7.1		6.7	6.64	6.79	7.1	6.57	6.5 - 8.5
Temperature (deg C)	12.2	17.8	15.3	12	10.9	16	14.8	9.4	11.7	18.4	14.1	11.9	12.2	14.5	17	10.3	7.5	18.2	15.4	10	11.3	NS
Turbidity (NTU)	**228**	**368**	**678**	**650**	**351**	**153**	**268**	**180**	**150**	**432**	**315**	**125**	**53**	**25**	**350**	**243**	**111**	**253**	4	**150**	**83**	5
Part 360 Leachate Indicator Parameters																						
Ammonia-Nitrogen (mg/L)	**150**	**120**	**170**	**160**	**210**	**260**	**250**	**250**	**200**	**190**	**240**	**270**	**200**	**210**	**220**	**200**	**240**	**280**	**270**	**230**	**300**	2
Biochemical Oxygen Demand (BOD5) (mg/L)	17	34	16	16	34	37	30	29		5.5	40	25	<20.0	18	46	37	28	22	25	<20	29	NS
Bromide (mg/L)	**2.1**	<0.2	<2.0	**5.1**	**4.47**	**4.8**	**5.4**	**5.7**	**4.2**	**3.9**	**3.9**	**4.3**	**4.4**	**4.5**	**4.8**	**4.8**	**5.2**	**4.4**	**5.2**	**4.8**	**5**	2
Chemical Oxygen Demand (mg/L)	170	370	<10.0	270	380	400	440	440	360	170	31	240	97	280	410	400	360	420	430	380	720	NS
Chloride (mg/L)	**280**	**330**	**320**	**330**	**370**	**500**	**410**	**510**	**320**	**330**	**460**	**330**	**350**	**340**	**470**	**460**	**320**	**370**	**350**	**290**	**370**	250
Color (Pt-Co)		**580**					300					**750**	**1500**					**750**				15
Nitrate-Nitrogen (mg/L)	<0.2	<0.2	<0.2	<0.2	<0.2	0.21	<0.1	0.15	0.17	0.26	0.16	<0.1	0.38	0.19	0.2	0.25	0.28	0.19	0.19	0.41	0.55	10
Sulfate (mg/L)	180	6	11	<5.0	53	1.9	1.5	1.4	2.3	2.8	3	<1.0	2.3	1.9	2.2	2.5	2.2	2.3	2.2	2.6	2	250
Total Alkalinity (mg/L)	1400	1600	280	1400	990	990	1800	1800	1300	1700	1800	1800	1600	1800	1800	1700	1,900	1,800	1,700	1,700	1800	NS
Total Cyanide (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01				0.2
Total Dissolved Solids (mg/L)	**1500**	**1400**	**1630**	**1750**	**1830**	**2100**	**1900**	**2000**	**1800**	**1700**	**1700**	**2000**	**1700**	**1900**	**1900**	**1800**	**1,900**	**2,000**	**1,800**	**1,800**	**1800**	500
Total Hardness (mg/L)	652	620	831	635	596	540	620	630	620	620	660	580	650	620	630	660	600	590	720	540	460	NS
Total Kjeldahl Nitrogen (mg/L)	160	180	170	160	200	260	280	270	210	190	230	250	210	200	240	220	270	330	270	280	270	NS
Total Organic Carbon (mg/L)	89	90	270	107	37.3	140	120	150	130	130	140	120	150	160	160	180	150	100	150	160	140	NS
Total Phenols (mg/L)	**0.03**	**0.027**	**0.034**	**0.033**	**0.027**	**0.019**	<0.002	**0.02**	**0.02**	**0.024**	**0.021**	**0.02**	**0.019**	**0.024**	**0.021**	**0.017**	<0.002	**0.014**	**0.014**	**0.018**	**0.022**	0.001
Part 360 Metals																						
Boron (mg/L)		**2.7**				**3.4**	**3.4**			**2.3**	**2.8**	**3**	**3.1**	**3**	**3**			**3.2**	**4**	**3**	**3**	1
Cadmium (mg/L)	**0.0058**	**0.0061**	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	0.005
Calcium (mg/L)	133	120	172	117	110	93	110	110	110	100	120	100	110	110	110	120	100	100	130	97	77	NS
Iron (mg/L)	**57.2**	**54.9**	**58.4**	**57.1**	**51.6**	**52**	**59**	**59**	**58**	**56**	**65**	**54**	**55**	**50**	**57**	**54**	**52**	**50**	**67**	**47**	**44**	0.3*
Lead (mg/L)	0.0096	0.0061	0.022	0.011	0.012	<0.01	<0.01	0.026	<0.01	<0.01	<0.01	0.018	<0.01	<0.01	<0.01	0.018	0.015	<0.01	0.018	0.011	0.015	0.025
Magnesium (mg/L)	**77.8**	**76.8**	**97.6**	**83.4**	**78**	**76**	**84**	**89**	**82**	**86**	**90**	**80**	**88**	**86**	**88**	**90**	**82**	**83**	**98**	**73**	**64**	35 (GV)
Manganese (mg/L)	**0.447**	**0.356**	**0.73**	**0.39**	**0.39**	0.28	**0.36**	**0.37**	**0.35**	**0.35**	**0.45**	**0.4**	**0.4**	**0.36**	**0.45**	**0.46**	**0.35**	**0.36**	**0.47**	**0.35**	0.29	0.3*
Potassium (mg/L)	167	190	190	160	180	260	260	300	190	210	200	220	210	220	220	210	250	320	280	260	270	NS
Sodium (mg/L)	**246**	**285**	**310**	**240**	**280**	**350**	**340**	**480**	**340**	**450**	**400**	**280**	**440**	**430**	**410**	**430**	**340**	**360**	**490**	**300**	**330**	20
Part 360 Additional Baseline Metals																						
Aluminum (mg/L)		0.854					2.1					1.8	0.7					0.74				NS
Antimony (mg/L)		<0.015					**0.031**					<0.01	<0.01					0.01				0.003
Arsenic (mg/L)		<0.01					<0.01					0.013	0.02					**0.041**				0.025
Barium (mg/L)		0.351					0.4					0.4	0.35					0.46				1
Beryllium (mg/L)		<0.003					<0.01					<0.01	<0.01					<0.01				0.003 (GV)
Chromium (mg/L)		<0.005					0.019					0.012	<0.01					0.015				0.05
Chromium, Hexavalent (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01				0.05
Cobalt (mg/L)		<0.02					0.014					0.012	<0.01					0.012				NS
Copper (mg/L)		<0.01					0.014					<0.01	<0.01					<0.01				0.2
Mercury (mg/L)		<0.0002					<0.0002					0.0003	0.005					<0.0002				0.0007
Nickel (mg/L)		<0.03					0.039					0.031	0.024					0.036				0.1
Selenium (mg/L)		<0.005					<0.01					<0.01	<0.01					<0.01				0.01
Silver (mg/L)		<0.01					<0.01					<0.01	<0.01					<0.01				0.05
Thallium (mg/L)		<0.01					<0.01					<0.1	<0.01					**0.014**				0.0005 (GV)
Vanadium (mg/L)		<0.3					0.02					0.02	0.012					0.023				NS
Zinc (mg/L)		0.0388					0.13					0.071	0.022					0.046				2
Part 360 Volatile Organics																						
1,1,1,2-Tetrachloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
1,1,1-Trichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
1,1,2,2-Tetrachloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
1,1,2-Trichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				1
1,1-Dichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
1,1-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
1,2,3-Trichloropropane (µg/L)							<5.0					<5.0	<5.0					<5				0.04
1,2-Dibromo-3-chloropropane (µg/L)		<10.0					<5.0					<5.0	<5.0					<5				0.04
1,2-Dibromoethane (EDB) (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
1,2-Dichlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				3
1,2-Dichloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				0.6
1,2-Dichloropropane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				1
1,3-Dichlorobenzene (µg/L)		<5.0																				3
1,4-Dichloro-2-butene (µg/L)		<10.0																				5
1,4-Dichlorobenzene (µg/L)		1					<5.0					<5.0	<5.0					<5				3

City of Rome
Tannery Road Landfill
Leachate Well MW-12
Analytical Data

Parameter	3/1/99	6/1/99	9/1/99	12/1/99	3/1/00	6/1/00	9/1/00	12/1/00	3/1/01	6/1/01	9/1/01	12/1/01	3/28/02	6/17/02	9/24/02	12/18/02	3/12/03	6/25/03	9/17/03	12/16/03	3/23/04	NYSDEC Ground Water Standard
2-Butanone (MEK) (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10				50 (GV)
2-Hexanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10				50 (GV)
4-Methyl 2-pentanone (µg/L)		<10.0					<10.0					<10.0	<10.0				<10	<10				NS
Acetone (µg/L)		<10.0					15					<10.0	16				**11**	13				50 (GV)
Acrylonitrile (µg/L)		<100.0					<20.0					<20.0	<20.0					<20				5
Benzene (µg/L)		**10**					**43**					**33**	**35**				**40**	**34**				1
Bromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
Bromodichloromethane (µg/L)		<5.0										<5.0	<5.0				<5	<5				50 (GV)
Bromoform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				50 (GV)
Bromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Carbon disulfide (µg/L)		<68					<5.0					<5.0	<5.0				<5	<5				60 (GV)
Carbon tetrachloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Chlorobenzene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Chloroethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Chloroform (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				7
Chloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
cis-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
cis-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				0.4**
Dibromochloromethane (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				50 (GV)
Dibromomethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
Ethyl benzene (µg/L)		2					<5.0					<5.0	<5.0				<5	<5				5
Iodomethane (µg/L)		<5.0					<20.0					<20.0	<10.0					<10				5
Methylene Chloride (µg/L)		<5.0					<10.0					<10.0	<10.0				<10	<10				5
Styrene (µg/L)							<5.0					<5.0	<5.0				<5	<5				5
Tetrachloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Toluene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
trans-1,2-Dichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
trans-1,3-Dichloropropene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				0.4**
trans-1,4-Dichloro-2-butene (µg/L)							<50.0					<50.0	<10.0					<10				5
Trichloroethene (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				5
Trichlorofluoromethane (µg/L)		<5.0					<5.0					<5.0	<5.0					<5				5
Vinyl Acetate (µg/L)		<50.0					<20.0					<20.0	<20.0					<20				NS
Vinyl Chloride (µg/L)		<5.0					<5.0					<5.0	<5.0				<5	<5				2
Xylenes (Total) (µg/L)		**15**					**41**					**26**	**17**				**11**	<5				5
1,2-Dichloroethene - Total																	<5					

Notes

1) < indicates not detected at or above the listed value
2) NS indicates that no standard has been promulgated.
3) * indicates that the sum of these two analytes may not exceed 500 µg/L.
4) GV indicates that the value listed is a guidance value rather than a standard.
5) Values in bold exceeded the applicable NYSDEC ground water standard/guidance value.
6) ** Indicates standard applies to the sum of the isomers

FIGURES

ELEV. 452.61
MW-9S

MW-2PD
MW-2PS
MW-2D
MW-2S
ELEV. 452.93

FROZEN
MW-3S

RW-1
RW-2
RW-4
LF-1
LF-2
LF-3

ELEV. 450.31
MW-11

MW-10
ELEV. 451.19

ELEV. 452.43
MW-4S
MW-4P
MW-4D

DO-1
DO-2
DO-3

MW-5D
MW-5S
ELEV. 452.81

MW-12
ELEV. 450.56

ELEV. 448.6
PZ-1

ELEV. 444.84
MW-1S
MW-1D

MW-7D
MW-7S
ELEV. 443.34

SHEET PILE WALL

ONEIDA-HERKIMER COUNTY SOLID WASTE LANDFILL

452
451
450
449
448
447
446
445
444

LEGEND

EXISTING CONTOURS

450 EXISTING GROUNDWATER CONTOURS

MW-4S WELL ELEVATIONS
ELEV. 452.43

GRAPHIC SCALE
200 0 100 200
(IN FEET)

H:\Drawings\ROME-TANNERY\GROUNDWATER\GROUNDWATER_GW_3_04.dwg 05/21/2004 10:49:17 AM EDT

DATE: MAY 21, 2004
DRAWN BY: KJ
SCALE: AS SHOWN
REVIEWED BY: EF
PROJECT NO.:
FILE:

DELAWARE ENGINEERING, P.C.
CIVIL AND ENVIRONMENTAL ENGINEERING
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REVISIONS
NO. DATE DESCRIPTION

TANNERY ROAD LANDFILL
CITY OF ROME, NEW YORK

GROUNDWATER CONTOUR MAP
SHALLOW OVERBURDEN
DATED: MARCH 2004
GROUNDWATER TABLE

SHEET: 1