DELAWARE ENGINEERING, P.C.

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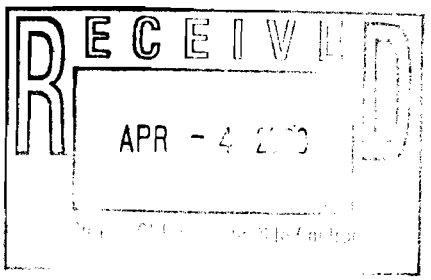
April 3, 1999



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

RE: City of Rome Tannery Road Landfill Annual Report

Dear Mr. Comis:

Enclosed is a copy of the annual report for the City of Rome Tannery Road landfill. A copy has been sent directly to Mr. Darrell Sweredoski at NYSDEC in Watertown, New York and Mr. Terry Hughes NYSDEC in Albany, New York. If you have any questions or comments please contact Gary Kerzic or Myself at (518) 452-1290.

Sincerely,

Ed Fahrenkopf
Senior Environmental Scientist

cc: G. Kerzic (Delaware Eng.)
D. Sweredoski (NYSDEC)
T. Hughes (NYSDEC)

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CITY OF ROME

TANNERY ROADLANDFILL

1999 ANNUAL

prepared for:

City of Rome
City Hall 198 N. Washington Street
Rome, New York 13440

Prepared by:

Delaware Engineering, P.C.
28 Madison Avenue Extension
Albany, New York 12203

March 2000

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1.0 INTRODUCTION

This document presents the 1999 annual report for the post closure operations,including maintenance and monitoring activities for the closed City of Rome Landfill located on Tannery Road in the City of Rome, Oneida County, New York. Final closure of the landfill was completed in September 1997 and the closure certification report was approved by the New York State Department of Environmental Conservation (NYSDEC) in January 1999.

The post closure maintenance and monitoring activities were performed pursuant to the Operation, Maintenance and Monitoring Plan (Revised October 19, 1999) that was approved by the NYSDEC. This annual report covers the period from February 1999 through January 2000.

Pursuant to the approved Operation, Maintenance and Monitoring Plan (O&M), this annual report provides the following information:

- The results of all ground water and leachate quality analytical data.
- The amount of ground water/leachate collected from the recovery wells.
- Water level monitoring and ground water contour maps for March, September and December 1999.
- Monthly Inspection Data.
- Significant maintenace or repair issues and their resolution and any deviations from the approved O&M procedures.

2.0 GROUND WATER AND LEACHTE ANALYTICAL DATA

Ground water samples were collected in March, June, September and December from monitoring wells, MW-1S, MW-2S, MW-3S, MW-4S, MW-5S, MW-7D and groundwater/leachate well MW-12. The March, September and December samples were analyzed for the NYSDEC Part 360 Routine parameters. The samples collected in June 1999 were analyzed for the Part 360 baseline parameters. Ground water sample collection was performed following the procedures specified in the NYSDEC approved O&M manual.

Analytical results have been previously submitted to the NYSDEC in the quarterly monitoring reports. Tables summarizing the analytical data for each quarter are provided in Appendix A. Concentrations which exceed the New York State ground water standard are presented in a bold font. Laboratory reporting sheets are presented in Appendix B.

The ground water analytical data from 1999 demonstrates that ground water in the vicinity of monitoring wells MW-3S, MW-4S and MW-7D continue to exhibit elevated concentrations of landfill related constituents. Ground water from monitoring well MW-3S consistently exhibits concentrations of ammonia, chloride, sodium and total dissolved solids (TDS) that are above both the NYSDEC ground water standards and upgradient MW-9S concentrations. Ground

water from monitoring wells MW-4S and MW-7D consistently exhibit ammonia and TDS concentrations that are above ground water standards and upgradient MW-9S concentrations.

3.0 GROUND WATER ELEVATION DATA

Consistent with the O&M plan, ground water elevation data were measured monthly from monitoring wells MW-1S, MW-2S, MW-3S, MW-4S, MW-5S, MW-7S, MW-9S, piezometer PZ-1 and leachate well MW-12. Because of obstructions in leachate wells MW-10 and MW-11, ground water elevations were not measured at either of these locations. A summary of the 1999 ground water elevation data are provided in Appendix C. Ground water contour maps for March, September and December 1999 are provided in the attached map pockets.

The ground water elevation data demonstrate that for a portion of the year water level elevations in monitoring wells MW-2S, MW-3S, MW-4S and MW-5S are higher than the MW-12 landfill leachate monitoring well, indicating a probable inward gradient.

The ground water elevations in monitoring wells MW-1S, MW-7S and piezometer PZ-1 are consistently lower than both landfill leachate well MW-12 and upgradient well MW-9S. However, during the April, June, July August and September, the ground water elevations in upgradient well MW-9S were lower than the landfill leachate well MW-12. This indicates a probable move

The 1999 ground water elevation data indicate that during the months of low precipitation, ground water elevations in the landfill are most likely higher than the surrounding area. A more complete understanding of water elevations in the landfill will be obtained once monitoring wells MW-10 and MW-11 have been repaired.

4.0 SITE INSPECTIONS

4.1 Weekly Site Inspections

Weekly landfill inspections were performed by City of Rome personnel in accordance with the procedures detailed in the O&M manual. The weekly inspections included evaluation of the ground water/leachate pumping operation and general site security.

4.2 Monthly Inspections

Monthly landfill inspections were performed by Delaware Engineering. The inspections included general review of landfill cap conditions, general site conditions, evaluation and recording of data for the ground water/leachate pumping system, collection of ground water levels and operability of the landfill flares and passive gas vents. In March, June, September and December, ground water samples were collected and submitted for analysis as discussed in Section 2.0. The annual gas vent inspection and hydrogen sulfide measurements were conducted during the October 1999 monthly inspection. Copies of the completed inspection forms are provided in Appendix D.

On February 26, 1999, what appeared to be a leachate outbreak along the access road leading to the top of the landfill was observed. Upon closer inspection, it was determined that the outbreak was actually a broken PVC pipe which conveys leachate from the recovery wells at the top of the landfill to a manhole at the base. Leachate flow was stopped by turning the recovery well pumps off. The leachate spill was limited to the confines of the landfill and did not impact offsite areas. During the week of March 1, 1999, City maintenance personnel exposed the broken section of the pipe and repaired a cracked joint. The crack appeared to be the result of an accumulation of sand in the pipe that froze and expanded. The City has installed cleanout ports and will undertake additional remedial measures, as necessary, to mitigate the potential for future sand accumulation and cracking of the pipe.

On April 30, 1999, Delaware was unable to obtain readings for the totalizers in the meter pit due to the high level of water present in the pit. The City of Rome has installed a building over the meter pit and this problem has been eliminated.

During 1999, obstructions in leachate monitoring wells MW-10 and MW-11 prevented the collection of ground water samples and ground water elevation data. It is assumed that the wells have been permanently damaged, possibly due to settling of the waste mass following closure of the landfill. Also, recovery well RW-4 is currently not operational. It is believed that the discharge pipe from the pump has been compromised. The City of Rome is currently preparing bid specifications and anticipates that the monitoring wells MW-10 and MW-11 will be replaced and recovery well RW-4 repaired in late spring/early summer of 2000.

5.0 GROUND WATER / LEACHATE PUMPING SYSTEM

For each recovery well, readings from the flow totalizers in the meter pit were recorded during the monthly inspections. Leachate flows for each recovery well for the period between February 26, 1999 and January 11, 2000 are presented below. Quarterly summaries of the flow data are provided in Appendix E.

RW-1	677,191 gallons
RW-2	591,056 gallons
RW-3	271,000 gallons
RW-4	113,037 gallons

6.0 RECOMMENDATIONS

As discussed in Section 3.0, ground water from monitoring wells MW-3S, MW-4S and MW-7S have consistently exhibited ammonia and TDS concentrations and MW-3S chloride and sodium values, that exceed both the NYSDEC ground water standards and upgradient MW-9S concentrations. Ground water quality adjacent to the landfill has been adequately characterized. The landfill has been capped and leachate is actively pumped from the waste mass via the on-site recovery wells. Ground water quality is not expected to significantly change on a quarterly basis. Therefore, annual collection and analysis of ground water from the on-site ground water monitoring wells for the Part 360 baseline parameters would provide adequate ground water

monitoring. Because ground water elevation data has shown that water level elevations in leachate well MW-12 are higher than the water level elevations in the surrounding monitoring wells during the summer, samples would be collected at the end of the second quarter (August). Ground water elevation data will continue to be obtained on a monthly basis.

APPENDIX A

ANALYTICAL DATA SUMMARY TABLES

Table 1
March 1999 Ground Water Analytical Data
Tannery Road Landfill
Rome, New York

Sample Location	MW-1S	MW-3S	MW-4S	MW-5S	MW-7D	X-1	MW-9S	MW-12	NYSDEC Ground Water Standard/GV
Leachate Indicators (mg/L)									
Biochemical Oxygen Demand (BOD_5)	8	18	62	11	19	15	< 4	17	NS
Nitrate-Nitrogen	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	10
Total Alkalinity	< 10	1,800	200	470	670	660	230	1,400	NS
Chloride	< 1	**560**	50	14	81	82	8	**280**	250
Chemical Oxygen Demand	52	930	540	71	570	660	160	170	NS
Ammonia-Nitrogen	< 0.5	**70**	**26**	1.5	**47**	**43**	< 0.5	**150**	2
Sulfate	5	< 5	24	37	< 5	< 5	5	180	250
Total Dissolved Solids	140	**2,600**	320	430	**540**	**630**	420	**1,500**	500
Total Kjeldahl Nitrogen	< 0.5	85	26	3.1	44	45	2.8	160	NS
Total Organic Carbon	14	200	71	22	55	47	30	89	NS
Total Phenols	< 0.005	**0.009**	**0.056**	< 0.005	**0.01**	< 0.005	< 0.005	**0.03**	0.001
Total Metals (mg/L)									
Cadmium	< 0.005	**0.0067**	< 0.005	< 0.005	< 0.005	< 0.005	**0.0088**	**0.0058**	0.005
Calcium	3	216	11.2	97.8	62.9	61.4	307	133	NS
Iron	**16.3**	**64.4**	**5.2**	**31.4**	**41.1**	**40.2**	**85.3**	**57.2**	0.3
Lead	0.0117	< 0.003	< 0.003	< 0.003	0.0071	0.0094	**0.0381**	0.0096	0.025
Magnesium	2.7	**55.7**	3.35	18.6	33.6	32.4	**83.9**	**77.8**	35 (GV)
Manganese	0.257	**1.96**	**0.335**	**12.2**	**0.837**	**0.826**	**4.21**	**447**	0.3
Potassium	1.99	202	28.6	8.94	54.8	52.7	12.1	167	NS
Sodium	1.2	**960**	**35.8**	12.1	**46.1**	**43.8**	**49.3**	**246**	20
Calculated Hardness	19	770	42	320	300	290	1,100	652	NS
Bromide	< 0.2	0.9	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	**2.1**	2 (GV)
Field Parameters									
pH (units)	**8.64**	6.58	7.05	7.56	6.64	N/A	7.67	6.12	6.5 - 8.5
Conductivity (umhos/cm)	31	4,440	672	869	1,330	N/A	485	3,400	NS
Turbidity (NTU)	**785**	**88**	**137**	**64**	**160**	N/A	**> 999**	**228**	5
Temperature (°C)	3.2	6.4	5.7	5.2	8.1	N/A	5.8	12.2	NS
Redox Potential (mV)	-20	45	-64	-31	-38	N/A	-34	-64	NS

Notes:

1) Results in **bold** typeface indicate that the result exceeds the applicable standard. See Table 2 for a summary of these results

2) NS indicates No Standard.

3) GV indicates that the standard listed is a Guidance Value.

4) N/A indicate Not Applicable.

Table 2
March 1999 Ground Water Exceedance Summary
Tannery Road Landfill
Rome, New York

Sample Location	MW-1S	MW-3S	MW-4S	MW-5S	MW-7D	X-1	MW-9S	MW-12	NYSDEC Ground Water Standard/GV
Leachate Indicators (mg/L)									
Chloride	< 1	**560**	50	14	81	82	8	**280**	250
Ammonia-Nitrogen	< 0.5	**70**	**26**	1.5	**47**	**43**	< 0.5	**150**	2
Total Dissolved Solids	140	**2,600**	320	430	**540**	**630**	420	**1,500**	500
Total Phenols	< 0.005	**0.009**	**0.056**	< 0.005	**0.01**	< 0.005	< 0.005	**0.03**	0.001
Total Metals (mg/L)									
Cadmium	< 0.005	**0.0067**	< 0.005	< 0.005	< 0.005	< 0.005	**0.0088**	**0.0058**	0.005
Iron	**16.3**	**64.4**	**5.2**	**31.4**	**41.1**	**40.2**	**85.3**	**57.2**	0.3
Lead	0.0117	< 0.003	< 0.003	< 0.003	0.0071	0.0094	**0.0381**	0.0096	0.025
Magnesium	2.7	**55.7**	3.35	18.6	33.6	32.4	**83.9**	**77.8**	35 (GV)
Manganese	0.257	**1.96**	**0.335**	**12.2**	**0.837**	**0.826**	**4.21**	**447**	0.3
Sodium	1.2	**960**	**35.8**	12.1	**46.1**	**43.8**	**49.3**	**246**	20
Bromide	< 0.2	0.9	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	**2.1**	2 (GV)
Field Parameters									
pH (units)	**8.64**	6.58	7.05	7.56	6.64	N/A	7.67	6.12	6.5 - 8.5
Turbidity (NTU)	**785**	**88**	**137**	**64**	**160**	N/A	**> 999**	**228**	5

Notes:

1) Results in **bold** typeface indicate that the result exceeds the applicable standard. See Table 2 for a summary of these results
2) NS indicates No Standard.
3) GV indicates that the standard listed is a Guidance Value.
4) N/A indicates Not Applicable.

Table 1
June 1999 Ground Water Analytical Data
Tannery Road Landfill
Rome, New York

Sample Location	MW-1S	MW-3S	X-1	MW-4S	MW-5S	MW-7D	MW-9S	MW-12	NYSDEC Ground Water Standard/GV
Leachate Indicators (mg/L, unless otherwise indicated)									
Biochemical Oxygen Demand - BOD_5	< 4	35	20	6	11	17	5	34	NS
Color *(units)*	46	290	600	140	110	280	530	580	NS
Hexavalent Chromium	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.05
Nitrate-Nitrogen	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	10
Total Alkalinity	37	1,500	1,500	120	170	370	260	1,600	NS
Chloride	31	**560**	**550**	3	3	70	3	**330**	250
Chemical Oxygen Demand	100	320	360	44	45	140	120	370	NS
Ammonia-Nitrogen	< 0.5	**75**	**86**	< 0.5	< 0.5	**25**	< 0.5	**120**	2
Sulfate	10	6	< 5	32	40	35	8	6	250
Total Cyanide	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.2
Total Dissolved Solids	140	**2,200**	**2,300**	**5,100**	130	**540**	260	**1,400**	500
Total Kjeldahl Nitrogen	2.4	85	86	0.8	1.1	36	1.9	180	NS
Total Organic Carbon	34	170	160	21	15	48	29	90	NS
Total Phenols	< 0.005	< 0.005	**0.021**	< 0.005	< 0.005	< 0.005	< 0.005	**0.027**	0.001
Total Metals (mg/L)									
Aluminum	32	4.04	3.06	2.77	3.2	0.439	23.9	0.854	NS
Antimony	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	0.003
Arsenic	0.0178	< 0.01	< 0.01	**0.027**	0.0138	< 0.01	< 0.01	< 0.01	0.025
Barium	0.431	**1.25**	**1.28**	0.0855	0.0655	0.217	0.201	0.351	1
Beryllium	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.003 (GV)
Boron	< 0.1	**2.2**	**2.2**	< 0.1	< 0.1	0.7	< 0.1	**2.7**	1
Cadmium	< 0.005	**0.0084**	**0.0074**	< 0.005	< 0.005	< 0.005	**0.0053**	**0.0061**	0.005
Calcium	29.1	212	213	29.8	35	61.1	142	120	NS
Chromium	0.047	0.0222	0.0164	0.0097	0.0109	< 0.005	**0.0592**	< 0.005	0.05
Cobalt	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	NS
Copper	0.0406	0.0163	0.0148	0.0258	0.0295	< 0.01	0.0845	< 0.01	0.2
Iron	**30.5**	**66.6**	**63.9**	**32.8**	**20.8**	**39.2**	**47.8**	**54.9**	0.3
Lead	**0.0294**	0.0123	0.0099	0.0085	0.0056	0.0041	0.021	0.0061	0.025
Magnesium	11.2	**54.7**	**55.4**	8.28	10.2	25.9	**43.5**	**76.8**	35 (GV)
Manganese	**0.759**	**1.87**	**1.85**	**4.11**	**4.16**	**0.84**	**2.13**	**0.356**	0.3
Mercury	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0007
Nickel	0.039	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.0726	< 0.03	0.1
Potassium	5.39	191	195	4.86	4.89	40.9	6.96	190	NS
Selenium	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01
Silver	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.05
Sodium	12.2	**417**	**439**	3.43	3.34	**39.6**	**39.3**	**285**	20
Thallium	< 0.01	**0.0139**	**0.0132**	< 0.01	< 0.01	**0.0105**	< 0.01	< 0.01	0.0005 (GV)
Vanadium	0.0308	0.0457	0.0437	< 0.3	< 0.3	< 0.3	0.047	< 0.3	NS
Zinc	0.149	0.107	0.0898	0.0508	0.0827	0.056	0.184	0.0388	2 (GV)
Calculated Hardness	120	750	760	110	130	260	530	620	NS
Bromide	< 2	< 2	1.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	2 (GV)

Table 1
June 1999 Ground Water Analytical Data
Tannery Road Landfill
Rome, New York

Sample Location	MW-1S	MW-3S	X-1	MW-4S	MW-5S	MW-7D	MW-9S	MW-12	NYSDEC Ground Water Standard/GV
Field Parameters									
pH (units)	**5.97**	6.82	N/A	**6.43**	6.75	6.53	7.32	6.74	6.5 - 8.5
Conductivity (umhos/cm)	103	3,980	N/A	1,590	340	1,120	398	3,430	NS
Turbidity (NTU)	**925**	**482**	N/A	**77**	**533**	**42**	**324**	**368**	5
Temperature (°C)	13.3	141	N/A	15.8	16.2	14.5	14.6	17.8	NS
Redox Potential (mV)	61	-80	N/A	-62	-20	-28	98	102	NS
Volatiles (ug/L)									
Chloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
Vinyl Chloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	2
Bromomethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
Chloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
Trichlorofluoromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
Acetone	< 10	21	< 10	< 10	< 10	< 10	< 10	< 10	50 (GV)
1,1-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
Iodomethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
Carbon Disulfide	< 5	< 6	< 16	< 5	< 5	< 18	< 5	< 68	NS
Methylene Chloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
Acrylonitrile	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	5
trans-1,2-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
1,1-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
Vinyl Acetate	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	NS
2-Butanone	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	50 (GV)
cis-1,2-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
Chloroform	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	7
Bromochloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
1,1,1-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
Carbon Tetrachloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
Benzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	10	1
1,2-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	0.6
Trichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
1,2-Dichloropropane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	1
Bromodichloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	50 (GV)
Dibromomethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
4-Methyl-2-pentanone	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NS
cis-1,3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
Toluene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
trans-1,3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
1,1,2-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	1
2-Hexanone	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	50 (GV)
Tetrachloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
Dibromochloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	50 (GV)
1,2-Dibromoethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5

Table 1
June 1999 Ground Water Analytical Data
Tannery Road Landfill
Rome, New York

Sample Location	MW-1S	MW-3S	X-1	MW-4S	MW-5S	MW-7D	MW-9S	MW-12	NYSDEC Ground Water Standard/GV
Volatiles - continued (ug/L)									
Chlorobenzene	< 5	< 5	< 5	< 5	< 5	**23**	< 5	< 5	5
1,1,1,2-Tetrachloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
Ethylbenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	2 J	5
m- & p-Xylene	< 5	< 5	< 5	< 5	< 5	2 J	< 5	**15**	5 *
o-Xylene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5 *
Bromoform	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	50 (GV)
1,1,2,2-Tetrachloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
1,2,3-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5
1,4-Dichloro-2-butene	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	5
1,3-Dichlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	3
1,4-Dichlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	1 J	3
1,2-Dichlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	3
1,2-Dibromo-3-chloropropane	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	0.04

Notes:

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2) NS indicates No Standard.
3) GV indicates that the standard listed is a Guidance Value.
4) N/A indicate Not Applicable.
5) * indicates that the standard appliues to the sum of the isomers.
6) J indicates that the result reported is an estimated values, less than the practical quantitation limit for the sample.

Table 2
June 1999 Ground Water Exceedance Summary
Tannery Road Landfill
Rome, New York

Sample Location	MW-1S	MW-3S	X-1	MW-4S	MW-5S	MW-7D	MW-9S	MW-12	NYSDEC Ground Water Standard/GV
Leachate Indicators (mg/L, unless otherwise indicated)									
Chloride	31	**560**	**550**	3	3	70	3	**330**	250
Ammonia-Nitrogen	< 0.5	**75**	**86**	< 0.5	< 0.5	**25**	< 0.5	**120**	2
Total Dissolved Solids	140	**2,200**	**2,300**	**5,100**	130	**540**	260	**1,400**	500
Total Phenols	< 0.005	< 0.005	**0.021**	< 0.005	< 0.005	< 0.005	< 0.005	**0.027**	0.001
Total Metals (mg/L)									
Arsenic	0.0178	< 0.01	< 0.01	**0.027**	0.0138	< 0.01	< 0.01	< 0.01	0.025
Barium	0.431	**1.25**	**1.28**	0.0855	0.0655	0.217	0.201	0.351	1
Boron	< 0.1	**2.2**	**2.2**	< 0.1	< 0.1	0.7	< 0.1	**2.7**	1
Cadmium	< 0.005	**0.0084**	**0.0074**	< 0.005	< 0.005	< 0.005	**0.0053**	**0.0061**	0.005
Chromium	0.047	0.0222	0.0164	0.0097	0.0109	< 0.005	**0.0592**	< 0.005	0.05
Iron	**30.5**	**66.6**	**63.9**	**32.8**	**20.8**	**39.2**	**47.8**	**54.9**	0.3
Lead	**0.0294**	0.0123	0.0099	0.0085	0.0056	0.0041	0.021	0.0061	0.025
Magnesium	11.2	**54.7**	**55.4**	8.28	10.2	25.9	**43.5**	**76.8**	35 (GV)
Manganese	**0.759**	**1.87**	**1.85**	**4.11**	**4.16**	**0.84**	**2.13**	**0.356**	0.3
Sodium	12.2	**417**	**439**	3.43	3.34	**39.6**	**39.3**	**285**	20
Thallium	< 0.01	**0.0139**	**0.0132**	< 0.01	< 0.01	**0.0105**	< 0.01	< 0.01	0.0005 (GV)
Field Parameters									
pH (units)	**5.97**	6.82	N/A	**6.43**	6.75	6.53	7.32	6.74	6.5 - 8.5
Turbidity (NTU)	**925**	**482**	N/A	**77**	**533**	**42**	**324**	**368**	5
Volatiles (ug/L)									
Chlorobenzene	< 5	< 5	< 5	< 5	< 5	**23**	< 5	< 5	5
m- & p-Xylene	< 5	< 5	< 5	< 5	< 5	2 J	< 5	**15**	5 *

Notes:

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2) GV indicates that the standard listed is a Guidance Value.
3) N/A indicate Not Applicable.
4) * indicates that the standard appliues to the sum of the isomers.
5) J indicates that the result reported is an estimated values, less than the practical quantitation limit for the sample.

Table 1
September 1999 Ground Water Analytical Data
Tannery Road Landfill
Rome, New York

Sample Location	MW-1S	MW-3S	MW-4S	X-1	MW-5S	MW-7D	MW-9S	MW-12	NYSDEC Ground Water Standard/GV
Leachate Indicators (mg/L)									
Biochemical Oxygen Demand (BOD_5)	< 2	28	34	28	2.0	17	3.9	16	NS
Nitrate-Nitrogen	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	10
Total Alkalinity	84	550	660	660	300	710	1,400	280	NS
Chloride	28	**430**	200	180	2.4	88	4.1	**320**	250
Chemical Oxygen Demand	25	< 1	22	23	32	14	26	< 10	NS
Ammonia-Nitrogen	**2.0**	**89**	**90**	**87**	< 0.3	**47**	< 0.3	**170**	2
Sulfate	94	110	11	6.8	28	12	12	11	250
Total Dissolved Solids	260	**2,280**	**810**	**850**	230	**710**	360	**1,630**	500
Total Kjeldahl Nitrogen	1.3	99	70	79	0.9	36	0.5	170	NS
Total Organic Carbon	7.0	247	47.8	47.3	15.1	45.9	28.6	270	NS
Total Phenols	< 0.001	**0.006**	**0.008**	**0.013**	< 0.001	**0.01**	< 0.001	**0.034**	0.001
Total Metals (mg/L)									
Cadmium	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005
Calcium	43	171	24.4	25.7	43.0	74.9	142	172	NS
Iron	**33.1**	**55.8**	**10.3**	**10.1**	**14.2**	**40.8**	**28.2**	**58.4**	0.3
Lead	0.010	< 0.005	< 0.005	< 0.005	< 0.005	0.006	0.011	0.022	0.025
Magnesium	6.8	**52.6**	8.1	8.4	9.8	**39.5**	29.8	**97.6**	35 (GV)
Manganese	**1.2**	**1.6**	**0.62**	**0.62**	**6.5**	**0.82**	**1.7**	**0.73**	0.3
Potassium	2.9	210	57	110	3.4	48	2.3	190	NS
Sodium	9.9	**310**	**150**	**180**	11	**60**	**30**	**310**	20
Calculated Hardness	136	644	94	99	148	350	477	831	NS
Bromide	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	2 (GV)
Field Parameters									
pH (units)	**6.37**	6.74	**6.23**	N/A	**6.48**	**6.40**	7.23	6.69	6.5 - 8.5
Conductivity (umhos/cm)	398	3,690	2,010	N/A	308	1,620	369	3,850	NS
Turbidity (NTU)	**560**	**357**	**87**	N/A	**204**	**94**	**659**	**678**	5
Temperature (°C)	15.2	15.6	15.0	N/A	13.1	13.2	12.9	15.3	NS
Redox Potential (mV)	-18	-78	-3	N/A	-14	-39	-60	-90	NS

Notes:

1) Results in **bold** typeface indicate that the result exceeds the applicable standard. See Table 2 for a summary of these results
2) NS indicates No Standard.
3) GV indicates that the standard listed is a Guidance Value.
4) N/A indicate Not Applicable.

Table 2
September 1999 Ground Water Exceedance Summary
Tannery Road Landfill
Rome, New York

Sample Location	MW-1S	MW-3S	MW-4S	X-1	MW-5S	MW-7D	MW-9S	MW-12	NYSDEC Ground Water Standard/GV
Leachate Indicators (mg/L)									
Chloride	28	**430**	200	180	2.4	88	4.1	**320**	250
Ammonia-Nitrogen	**2.0**	**89**	**90**	**87**	< 0.3	**47**	< 0.3	**170**	2
Total Dissolved Solids	260	**2,280**	**810**	**850**	230	**710**	360	**1,630**	500
Total Phenols	< 0.001	**0.006**	**0.008**	**0.013**	< 0.001	**0.01**	< 0.001	**0.034**	0.001
Total Metals (mg/L)									
Iron	**33.1**	**55.8**	**10.3**	**10.1**	**14.2**	**40.8**	**28.2**	**58.4**	0.3
Magnesium	6.8	**52.6**	8.1	8.4	9.8	**39.5**	29.8	**97.6**	35 (GV)
Manganese	**1.2**	**1.6**	**0.62**	**0.62**	**6.5**	**0.82**	**1.7**	**0.73**	0.3
Sodium	9.9	**310**	**150**	**180**	11	**60**	**30**	**310**	20
Field Parameters									
pH (units)	**6.37**	6.74	**6.23**	N/A	**6.48**	**6.40**	7.23	6.69	6.5 - 8.5
Turbidity (NTU)	**560**	**357**	**87**	N/A	**204**	**94**	**659**	**678**	5

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) N/A indicate Not Applicable.

Table 1
December 1999 Ground Water Analytical Data
Tannery Road Landfill
Rome, New York

Sample Location	MW-1S	MW-3S	MW-4S	X-1	MW-5S	MW-7D	MW-9S	MW-12	NYSDEC Ground Water Standard/GV
Leachate Indicators (mg/L)									
Biochemical Oxygen Demand (BOD_5)	2	28	24	13	2.0	11	5	16	NS
Nitrate-Nitrogen	0.4	< 0.2	0.6	1.5	0.8	1.5	0.5	< 0.2	10
Total Alkalinity	7.8	600	110	530	58	470	260	1,400	NS
Chloride	3.7	**320**	23	82	3.2	84	< 2	**330**	250
Chemical Oxygen Demand	14	310	110	110	20	110	76	270	NS
Ammonia-Nitrogen	< 0.3	**84**	**15**	**41**	< 0.3	**36**	< 0.3	**160**	2
Sulfate	9.8	16	56	29	31	28	8	<5	250
Total Dissolved Solids	39	**1,710**	330	**650**	150	**660**	340	**1,750**	500
Total Kjeldahl Nitrogen	< 0.3	89	4.6	38	0.4	24	< 0.3	160	NS
Total Organic Carbon	7.8	123	35.5	54.4	17.1	38.5	38.5	107	NS
Total Phenols	**0.004**	**0.008**	**0.012**	**0.014**	**0.003**	**0.014**	**0.005**	**0.033**	0.001
Total Metals (mg/L)									
Cadmium	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005
Calcium	4	134	12.6	63.8	23.3	64.2	138	117	NS
Iron	**3.1**	**40.8**	**5.3**	**38.2**	**9.3**	**37.7**	**26.8**	**57.1**	0.3
Lead	< 0.005	< 0.005	< 0.005	0.012	< 0.005	0.014	0.017	0.011	0.025
Magnesium	0.94	**41**	4.3	**36.4**	5.5	**36.5**	**35.2**	**83.4**	35 (GV)
Manganese	0.17	**1.4**	**0.41**	**0.89**	**2.6**	**0.89**	**1.9**	**0.39**	0.3
Potassium	0.7	160	34.2	48.5	3.8	50.5	4.6	160	NS
Sodium	1.8	**310**	**27.9**	**56**	3.1	**55.5**	**41.7**	**240**	20
Calculated Hardness	14	504	49	309	81	310	490	635	NS
Bromide	< 2	**4**	< 2	< 2	< 2	< 2	< 2	**5**	2 (GV)
Field Parameters									
pH (units)	7	**6.36**	7.11	N/A	7.3	**7.92**	7.31	6.7	6.5 - 8.5
Conductivity (umhos/cm)	89	3,270	444	N/A	195	1,300	411	3,900	NS
Turbidity (NTU)	**140**	**167**	**86**	N/A	**162**	**247**	**>999**	**650**	5
Temperature (°C)	5.9	7.1	7.1	N/A	**7**	8.1	7.4	12	NS
Redox Potential (mV)	-14	-40	-80	N/A	-25	-20	-35	-85	NS

Notes:

1) Results in **bold** typeface indicate that the result exceeds the applicable standard. See Table 2 for a summary of these results

2) NS indicates No Standard.

3) GV indicates that the standard listed is a Guidance Value.

4) N/A indicate Not Applicable.

Table 2
December 1999 Ground Water Exceedance Summary
Tannery Road Landfill
Rome, New York

Sample Location	MW-1S	MW-3S	MW-4S	X-1	MW-5S	MW-7D	MW-9S	MW-12	NYSDEC Ground Water Standard/GV
Leachate Indicators (mg/L)									
Chloride	3.7	**320**	23	82	3.2	84	< 2	**330**	250
Ammonia-Nitrogen	< 0.3	**84**	**15**	**41**	< 0.3	**36**	< 0.3	**160**	2
Total Dissolved Solids	39	**1,710**	330	**650**	150	**660**	340	**1,750**	500
Total Phenols	**0.004**	**0.008**	**0.012**	**0.014**	**0.003**	**0.014**	**0.005**	**0.033**	0.001
Total Metals (mg/L)									
Iron	**3.1**	**40.8**	**5.3**	**38.2**	**9.3**	**37.7**	**26.8**	**57.1**	0.3
Magnesium	0.94	**41**	4.3	**36.4**	5.5	**36.5**	**35.2**	**83.4**	35 (GV)
Manganese	0.17	**1.4**	**0.41**	**0.89**	**2.6**	**0.89**	**1.9**	**0.39**	0.3
Sodium	1.8	**310**	**27.9**	**56**	3.1	**55.5**	**41.7**	**240**	20
Field Parameters									
pH (units)	7	**6.36**	7.11	N/A	7.3	7.92	7.31	6.7	6.5 - 8.5
Turbidity (NTU)	**140**	**167**	**86**	N/A	**162**	**247**	**>999**	**650**	5

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) N/A indicate Not Applicable.

APPENDIX B

LABORATORY REPORTING SHEETS

Upstate Laboratories, Inc.

6034 Corporate Drive • E. Syracuse, NY 13057-1017
(315) 437 0255 Fax 437 1209

Chain Of Custody Record

Computer Input

4/23

Client: DELAWARE ENGINEERING, P.C.		Client Project # / Project Name: TANNERY ROAD LANDFILL				No. of Containers	1)	2)	3)	4)	5)	6)	7)	8)	9)	10)	Special Turnaround Time_____ (Lab Notification required)
Client Contact: ANTHONY NOCE	Phone # (518) 452-1270	Site Location (city/state): ROME/NY															
Sample Location:	Date	Time	Matrix	Grab or Comp.	ULI Internal Use Only												Remarks
MW-1D	25MAR99	1504	GW	GRAB	08599085	(6)	1	1	1	1	1	1					NYS PART 360
MW-3D		1135			86	(6)	1	1	1	1	1	1					ROUTINE 1993
MW-4D		1215			87	(6)	1	1	1	1	1	1					ASP CATEGORY A
MW-5D		1300			88	(6)	1	1	1	1	1	1					
MW-7D		1434			89	(6)	1	1	1	1	1	1					
MW-12		0930			90	(6)	1	1	1	1	1	1					
X-1		—			91	(6)	1	1	1	1	1	1					
MW-9D	26MAR99	0918			92	(6)	1	1	1	1	1	1					

parameter and method	sample bottle:	type	size	pres.
1) NH3, TKN, COD		P	500ml	H2SO4
2) TOC		P	120ml	1:1 HCL
3) TOTAL PHENOLS		AMBER	32oz	H2SO4
4) ALKALINITY		G	8oz	NONE
5) NO3, TDS, SO4, CL, BROMIDE, BOD5		P	2000ml	NONE
6) T-K, NA, FE, MN, MG, PB*, CD, CA, + CALCULATED HARDNESS		P	500ml	HNO3
7)				
8)				
9)				
10)				

Note: The numbered columns above cross-reference with the numbered columns in the upper right-hand corner.

Sampled by: (Please Print)
ANTHONY M. NOCE
Company:
DELAWARE ENGINEERING, P.C.

ULI Internal Use Only
Delivery (check one)
☐ ULI Sampled
☐ Pickup ☒ Dropoff
☐ CC

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Anthony M. Noce	26MAR99	1615	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Rec'd for Lab by: (Signature)
	3/26/99	2:05pm	

518-452-1335
Tony Nace
From Paula DeStefano

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 08599085
Client I.D.: DELAWARE ENGINEERING, P.C.

APPROVAL: _ _ _ _
QC: [illegible]
Lab I.D.: 10170
Sampled by: Client

ID:08599085 Mat:Water TANNERY ROAD LF MW-1S 1504H 03/25/99 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	BOD5	8mg/l	03/26/99		WC5367
	Nitrate-Nitrogen	<0.2mg/l	03/26/99		WC5373
	Total Alkalinity	<10mg/lCaCO3	03/29/99		WC5399
	Chloride	<1mg/l	03/30/99		WC5393
	COD	52mg/l	04/01/99		WC5435
	Ammonia-Nitrogen	<0.5mg/l	04/01/99		WC5424
	Sulfate	5mg/l	03/31/99		WC5405
	Total Dissolved Solids	140mg/l	03/30/99		WC5392
	Total Kjeldahl Nitrogen	<0.5mg/l	04/01/99		WC5424
	TOC	14mg/l	04/01/99		WC5445
	Total Phenols	<0.005mg/l	04/05/99		WC5446
Total	Cadmium	<5ug/l	04/15/99		ME2063
Total	Calcium	3260ug/l	04/15/99		ME2063
Total	Iron	16,300ug/l	04/15/99		ME2063
Total	Lead	11.7ug/l	04/15/99		ME2063
Total	Magnesium	2700ug/l	04/15/99		ME2063
Total	Manganese	257ug/l	04/15/99		ME2063
Total	Potassium	1990ug/l	04/15/99		ME2063
Total	Sodium	1200ug/l	04/15/99		ME2063
	Calculated Hardness	19mg/lCaCO3	04/15/99		ME2063
	Bromide	<0.2mg/l	04/19/99		LC0134

ID:08599086 Mat:Water TANNERY ROAD LF MW-3S 1135H 03/25/99 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	BOD5	18mg/l	03/26/99		WC5367
	Nitrate-Nitrogen	<0.2mg/l	03/26/99		WC5373
	Total Alkalinity	1800mg/lCaCO3	03/29/99		WC5399
	Chloride	560mg/l	03/30/99		WC5393
	COD	930mg/l	04/01/99		WC5435
	Ammonia-Nitrogen	70mg/l	04/06/99		WC5479
	Sulfate	<5mg/l	03/31/99		WC5405
	Total Dissolved Solids	2600mg/l	03/30/99		WC5392
	Total Kjeldahl Nitrogen	85mg/l	04/01/99		WC5424
	TOC	200mg/l	04/01/99		WC5445
	Total Phenols	0.009mg/l	04/09/99		WC5529
Total	Cadmium	6.70ug/l	04/15/99		ME2063
Total	Calcium	216,000ug/l	04/15/99		ME2063
Total	Iron	64,400ug/l	04/15/99		ME2063
Total	Lead	<3ug/l	04/15/99		ME2063

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 08599085
Client I.D.: DELAWARE ENGINEERING, P.C.

APPROVAL: _ _ _ _
QC: _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:08599086 Mat:Water TANNERY ROAD LF MW-3S 1135H 03/25/99 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
Total	Magnesium	55,700ug/l	04/15/99		ME2063
Total	Manganese	1960ug/l	04/15/99		ME2063
Total	Potassium	202,000ug/l	04/15/99		ME2063
Total	Sodium	960,000ug/l	04/15/99		ME2064
	Calculated Hardness	770mg/lCaCO3	04/15/99		ME2063
	Bromide	0.9mg/l	04/20/99		LC0134

ID:08599087 Mat:Water TANNERY ROAD LF MW-4S 1215H 03/25/99 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	BOD5	62mg/l	03/26/99		WC5367
	Nitrate-Nitrogen	<0.2mg/l	03/26/99		WC5373
	Total Alkalinity	200mg/lCaCO3	04/05/99		WC5467
	Chloride	50mg/l	03/30/99		WC5393
	COD	540mg/l	04/13/99		WC5556
	Ammonia-Nitrogen	26mg/l	04/06/99		WC5479
	Sulfate	24mg/l	03/31/99		WC5405
	Total Dissolved Solids	320mg/l	03/30/99		WC5392
	Total Kjeldahl Nitrogen	26mg/l	04/01/99		WC5424
	TOC	71mg/l	04/01/99		WC5445
	Total Phenols	0.056mg/l	04/09/99		WC5529
Total	Cadmium	<5ug/l	04/15/99		ME2063
Total	Calcium	11,200ug/l	04/15/99		ME2063
Total	Iron	5200ug/l	04/15/99		ME2063
Total	Lead	<3ug/l	04/15/99		ME2063
Total	Magnesium	3350ug/l	04/15/99		ME2063
Total	Manganese	335ug/l	04/15/99		ME2063
Total	Potassium	28,600ug/l	04/15/99		ME2063
Total	Sodium	35,800ug/l	04/15/99		ME2063
	Calculated Hardness	42mg/lCaCO3	04/15/99		ME2063
	Bromide	<0.2mg/l	04/19/99		LC0134

ID:08599088 Mat:Water TANNERY ROAD LF MW-5S 1300H 03/25/99 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	BOD5	11mg/l	03/26/99		WC5367
	Nitrate-Nitrogen	<0.2mg/l	03/26/99		WC5373
	Total Alkalinity	470mg/lCaCO3	03/29/99		WC5399
	Chloride	14mg/l	03/30/99		WC5393

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 08599085
Client I.D.: DELAWARE ENGINEERING, P.C.

APPROVAL:
QC: _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:08599088 Mat:Water TANNERY ROAD LF MW-5S 1300H 03/25/99 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	COD	71mg/l	04/01/99		WC5435
	Ammonia-Nitrogen	1.5mg/l	04/06/99		WC5479
	Sulfate	37mg/l	03/31/99		WC5405
	Total Dissolved Solids	430mg/l	03/30/99		WC5392
	Total Kjeldahl Nitrogen	3.1mg/l	04/01/99		WC5424
	TOC	22mg/l	04/07/99		WC5506
	Total Phenols	<0.005mg/l	04/06/99		WC5483
Total	Cadmium	<5ug/l	04/15/99		ME2063
Total	Calcium	97,800ug/l	04/15/99		ME2063
Total	Iron	31,400ug/l	04/15/99		ME2063
Total	Lead	<3ug/l	04/15/99		ME2063
Total	Magnesium	18,600ug/l	04/15/99		ME2063
Total	Manganese	12,200ug/l	04/15/99		ME2063
Total	Potassium	8940ug/l	04/15/99		ME2063
Total	Sodium	12,100ug/l	04/15/99		ME2063
	Calculated Hardness	320mg/lCaCO3	04/15/99		ME2063
	Bromide	<0.2mg/l	04/19/99		LC0134

ID:08599089 Mat:Water TANNERY ROAD LF MW-7D 1434H 03/25/99 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	BOD5	19mg/l	03/26/99		WC5367
	Nitrate-Nitrogen	<0.2mg/l	03/26/99		WC5373
	Total Alkalinity	570mg/lCaCO3	03/29/99		WC5399
	Chloride	81mg/l	03/30/99		WC5393
	COD	570mg/l	04/01/99		WC5435
	Ammonia-Nitrogen	47mg/l	04/06/99		WC5479
	Sulfate	<5mg/l	03/31/99		WC5405
	Total Dissolved Solids	540mg/l	03/30/99		WC5392
	Total Kjeldahl Nitrogen	44mg/l	04/01/99		WC5424
	TOC	55mg/l	04/01/99		WC5445
	Total Phenols	0.010mg/l	04/09/99		WC5529
Total	Cadmium	<5ug/l	04/15/99		ME2063
Total	Calcium	62,900ug/l	04/15/99		ME2063
Total	Iron	41,100ug/l	04/15/99		ME2063
Total	Lead	7.10ug/l	04/15/99		ME2063
Total	Magnesium	33,600ug/l	04/15/99		ME2063
Total	Manganese	837ug/l	04/15/99		ME2063
Total	Potassium	54,800ug/l	04/15/99		ME2063
Total	Sodium	46,100ug/l	04/15/99		ME2063

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 08599085
Client I.D.: DELAWARE ENGINEERING, P.C.

APPROVAL:
QC:
Lab I.D.: 10170
Sampled by: Client

ID:08599089 Mat:Water TANNERY ROAD LF MW-7D 1434H 03/25/99 G

PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
Calculated Hardness	300mg/lCaCO3	04/15/99		ME2063
Bromide	<0.2mg/l	04/19/99		LC0134

ID:08599090 Mat:Water TANNERY ROAD LF MW-12 0930H 03/25/99 G

PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
BOD5	17mg/l	03/26/99		WC5367
Nitrate-Nitrogen	<0.2mg/l	03/26/99		WC5373
Total Alkalinity	1400mg/lCaCO3	03/29/99		WC5399
Chloride	280mg/l	03/30/99		WC5393
COD	170mg/l	04/08/99		WC5523
Ammonia-Nitrogen	150mg/l	04/06/99		WC5479
Sulfate	180mg/l	03/31/99		WC5405
Total Dissolved Solids	1500mg/l	04/01/99		WC5431
Total Kjeldahl Nitrogen	160mg/l	04/06/99		WC5478
TOC	89mg/l	04/01/99		WC5445
Total Phenols	0.030mg/l	04/09/99		WC5529
Total Cadmium	5.80ug/l	04/15/99		ME2063
Total Calcium	133,000ug/l	04/15/99		ME2063
Total Iron	57,200ug/l	04/15/99		ME2063
Total Lead	9.60ug/l	04/15/99		ME2063
Total Magnesium	77,800ug/l	04/15/99		ME2063
Total Manganese	447ug/l	04/15/99		ME2063
Total Potassium	167,000ug/l	04/15/99		ME2063
Total Sodium	246,000ug/l	04/15/99		ME2063
Calculated Hardness	650mg/lCaCO3	04/15/99		ME2063
Bromide	2.1mg/l	04/20/99		LC0134

ID:08599091 Mat:Water TANNERY ROAD LF X-1 03/25/99 G

PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
BOD5	15mg/l	03/26/99		WC5367
Nitrate-Nitrogen	<0.2mg/l	03/26/99		WC5373
Total Alkalinity	660mg/lCaCO3	03/29/99		WC5399
Chloride	82mg/l	03/30/99		WC5393
COD	660mg/l	04/01/99		WC5435
Ammonia-Nitrogen	43mg/l	04/06/99		WC5479
Sulfate	<5mg/l	03/31/99		WC5405
Total Dissolved Solids	630mg/l	04/01/99		WC5431

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 08599085
Client I.D.: DELAWARE ENGINEERING, P.C.

APPROVAL
QC: ROD
Lab I.D.: 10170
Sampled by: Client

ID:08599091 Mat:Water TANNERY ROAD LF X-1 03/25/99 G

	PARAMETERS	RESULTS	DATE ANAL.	KEY	FILE#
	BOD5	15mg/l	03/26/99		WC5367
	Nitrate-Nitrogen	<0.2mg/l	03/26/99		WC5373
	Total Alkalinity	650mg/lCaCO3	03/29/99		WC5399
	Chloride	82mg/l	03/30/99		WC5393
	COD	660mg/l	04/01/99		WC5435
	Ammonia-Nitrogen	43mg/l	04/06/99		WC5479
	Sulfate	<5mg/l	03/31/99		WC5405
	Total Dissolved Solids	630mg/l	04/01/99		WC5431
	Total Kjeldahl Nitrogen	45mg/l	04/02/99		WC5447
	TOC	47mg/l	04/01/99		WC5445
	Total Phenols	<0.005mg/l	04/09/99		WC5529
Total	Cadmium	<5ug/l	04/15/99		ME2063
Total	Calcium	61,400ug/l	04/15/99		ME2063
Total	Iron	40,200ug/l	04/15/99		ME2063
Total	Lead	9.40ug/l	04/15/99		ME2063
Total	Magnesium	32,400ug/l	04/15/99		ME2063
Total	Manganese	826ug/l	04/15/99		ME2063
Total	Potassium	52,700ug/l	04/15/99		ME2063
Total	Sodium	43,800ug/l	04/15/99		ME2063
	Calculated Hardness	290mg/lCaCO3	04/15/99		CALCU.
	Bromide	<0.2mg/l	04/19/99		LC0134

ATTN: Tony Nace
518-452-1335
Copy of page you requested

Upstate Laboratories, Inc.
6034 Corporate Drive • E. Syracuse, NY 13057-1017
(315) 437 0255 . Fax 437 1209

Chain Of Custody Record

ULI Computer Input Form

7/28

Client: DELAWARE ENGINEERING, P.C.

Client Project # / Project Name: TANNERY ROAD LANDFILL

Client Contact: TONY NOCE

Phone #: (518) 452-1290

Site Location (city/state): ROME/NY

Special Turnaround Time________ (Lab Notification required)

Sample Location:	Date	Time	Matrix	Grab or Comp.	ULI Internal Use Only	No. of Containers	1)	2)	3)	4)	5)	6)	7)	8)	9)	10)	Remarks
MW-1S	29JUN99	1644	GW	GRAB	18990080	9	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)			NYS PART 360
MW-3S MS/MSD**		1215			81	20	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)			NJ ASD - Drum BASELINE 1993
MW-4D		1334			82	9	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)			ASP CATEGORY B
MW-5S		1448			83	9	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)			
MW-7D		1554			84	9	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)			
MW-9S		1050			85	9	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)			
MW-12		0709			86	9	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)			
X-1		—			87	9	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)			
TRIP BLANK		—	LAB DI	—	88	1		(x)									PART 360 - VOAs ONLY
(HOLDING BLANK)**	(6-30-99)	(1330)	(w)	(G)	89	1		(x)									

parameter and method	sample bottle: type	size	pres.
1) TKN, NH3, COD	PLASTIC	500ml	H2SO4
2) BASELINE 8260	GLASS	40ml	1:1 HCL
3) TOTAL CYANIDE	PLASTIC	1000ml	NAOH
4) TOC	PLASTIC	120ml	1:1 HCL
5) ALKALINITY	GLASS	8oz	NONE
6) TOTAL PHENOLS	AMBER	32oz	H2SO4
7) [redacted] TDS, SO4, CL, COLOR, BROMIDE, CR+6	PLASTIC	2000ml	NONE
8) K, FE, MN, MG, BA, CR, NA, AG, HG, SE, TL*, PB*, CD, ZN, CA, AL, SB*, AS, T-BE, CU, NI, CO, V, B, + CALCULATED HARDNESS	PLASTIC	500ml	HNO3
9)			
10)			

Note: The numbered columns above cross-reference with the numbered columns in the upper right-hand corner.

Sampled by: (Please Print) ANTHONY M. NOCE

Company: DELAWARE ENGINEERING PC

[redacted]

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Anthony M. Noce	29JUN99	6:20 pm	A Howard

Relinquished by: (Signature)	Date	Time	Rec'd for Lab by: (Signature)
	6/29/99	1820	[signature]

Fair Lawn (NJ)

ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

MW-1ST

Lab Name: Upstate Laboratories, Inc Contract: .

Lab Code: 10170 Case No.: SAS No.: SDG No.: DENG02

Matrix (soil/water): WATER Lab Sample ID: 18199080

Level (low/med): LOW Date Received: 06/29/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	32000			P
7440-36-0	Antimony	15.0	U		P
7440-38-2	Arsenic	17.8			P
7440-39-3	Barium	431			P
7440-41-7	Beryllium	3.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	29100			P
7440-47-3	Chromium	47.0			P
7440-48-4	Cobalt	20.0	U		P
7440-50-8	Copper	40.6			P
7439-89-6	Iron	30500			P
7439-92-1	Lead	29.4			P
7439-95-4	Magnesium	11200			P
7439-96-5	Manganese	759			P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	39.0	B		P
7440-09-7	Potassium	5390		E	P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	12200		E	P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	30.8	B		P
7440-66-6	Zinc	149			P
	Cyanide	10.0	U		C
7429-90-5	Tin				

Date analyzed for all 8/3/99

7/21/99

8/3/99

Color Before: BROWN Clarity Before: CLOUDY Texture: LIQUID

Color After: YELLOW Clarity After: CLEAR Artifacts: NO

Comments:

ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

MW-3ST

Lab Name: Upstate Laboratories, Inc Contract: .

Lab Code: 10170 Case No.: SAS No.: SDG No.: DENG02

Matrix (soil/water): WATER Lab Sample ID: 18199081

Level (low/med): LOW Date Received: 06/29/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4040			P
7440-36-0	Antimony	15.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	1250			P
7440-41-7	Beryllium	3.0	U		P
7440-43-9	Cadmium	8.4			P
7440-70-2	Calcium	212000			P
7440-47-3	Chromium	22.2			P
7440-48-4	Cobalt	20.0	U		P
7440-50-8	Copper	16.3	B		P
7439-89-6	Iron	66600			P
7439-92-1	Lead	12.3			P
7439-95-4	Magnesium	54700			P
7439-96-5	Manganese	1870			P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	30.0	U		P
7440-09-7	Potassium	191000		E	P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	417000		E	P
7440-28-0	Thallium	13.9			P
7440-62-2	Vanadium	45.7	B		P
7440-66-6	Zinc	107			P
	Cyanide	10.0	U		C
7429-90-5	Tin				

Color Before: YELLOW Clarity Before: CLOUDY Texture: LIQUID

Color After: YELLOW Clarity After: CLEAR Artifacts: NO

Comments:

ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

MW-4ST

Lab Name: Upstate Laboratories, Inc Contract: .

Lab Code: 10170 Case No.: SAS No.: SDG No.: DENG02

Matrix (soil/water): WATER Lab Sample ID: 18199082

Level (low/med): LOW Date Received: 06/29/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2770			P
7440-36-0	Antimony	15.0	U		P
7440-38-2	Arsenic	27.0			P
7440-39-3	Barium	85.5	B		P
7440-41-7	Beryllium	3.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	29800			P
7440-47-3	Chromium	9.7	B		P
7440-48-4	Cobalt	20.0	U		P
7440-50-8	Copper	25.8			P
7439-89-6	Iron	32800			P
7439-92-1	Lead	8.5			P
7439-95-4	Magnesium	8280			P
7439-96-5	Manganese	4110			P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	30.0	U		P
7440-09-7	Potassium	4860	B	E	P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	3430	B	E	P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	30.0	U		P
7440-66-6	Zinc	50.8			P
	Cyanide	10.0	U		C
7429-90-5	Tin				

Color Before: COLORLESS Clarity Before: CLOUDY Texture: LIQUID

Color After: COLORLESS Clarity After: CLEAR Artifacts: NO

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-5ST

Lab Name: Upstate Laboratories, Inc Contract: .

Lab Code: 10170 Case No.: SAS No.: SDG No.: DENG02

Matrix (soil/water): WATER Lab Sample ID: 18199083

Level (low/med): LOW Date Received: 06/29/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3200			P
7440-36-0	Antimony	15.0	U		P
7440-38-2	Arsenic	13.8			P
7440-39-3	Barium	65.5	B		P
7440-41-7	Beryllium	3.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	35000			P
7440-47-3	Chromium	10.9			P
7440-48-4	Cobalt	20.0	U		P
7440-50-8	Copper	29.5			P
7439-89-6	Iron	20800			P
7439-92-1	Lead	5.6			P
7439-95-4	Magnesium	10200			P
7439-96-5	Manganese	4160			P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	30.0	U		P
7440-09-7	Potassium	4890	B	E	P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	3340	B	E	P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	30.0	U		P
7440-66-6	Zinc	82.7			P
	Cyanide	10.0	U		C
7429-90-5	Tin				

Color Before: COLORLESS Clarity Before: CLOUDY Texture: LIQUID

Color After: COLORLESS Clarity After: CLEAR Artifacts: NO

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-7DT

Lab Name: Upstate Laboratories, Inc Contract: .

Lab Code: 10170 Case No.: SAS No.: SDG No.: DENG02

Matrix (soil/water): WATER Lab Sample ID: 18199084

Level (low/med): LOW Date Received: 06/29/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	439			P
7440-36-0	Antimony	15.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	217			P
7440-41-7	Beryllium	3.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	61100			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	20.0	U		P
7440-50-8	Copper	10.0	U		P
7439-89-6	Iron	39200			P
7439-92-1	Lead	4.1			P
7439-95-4	Magnesium	25900			P
7439-96-5	Manganese	840			P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	30.0	U		P
7440-09-7	Potassium	40900		E	P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	39600		E	P
7440-28-0	Thallium	10.5			P
7440-62-2	Vanadium	30.0	U		P
7440-66-6	Zinc	56.0			P
	Cyanide	10.0	U		C
7429-90-5	Tin				

Color Before: YELLOW Clarity Before: CLOUDY Texture: LIQUID

Color After: YELLOW Clarity After: CLEAR Artifacts: NO

Comments:

ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

MW-9ST

Lab Name: Upstate Laboratories, Inc Contract: .

Lab Code: 10170 Case No.: SAS No.: SDG No.: DENG02

Matrix (soil/water): WATER Lab Sample ID: 18199085

Level (low/med): LOW Date Received: 06/29/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	23900			P
7440-36-0	Antimony	15.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	201			P
7440-41-7	Beryllium	3.0	U		P
7440-43-9	Cadmium	5.3			P
7440-70-2	Calcium	142000			P
7440-47-3	Chromium	59.2			P
7440-48-4	Cobalt	20.0	U		P
7440-50-8	Copper	84.5			P
7439-89-6	Iron	47800			P
7439-92-1	Lead	21.0			P
7439-95-4	Magnesium	43500			P
7439-96-5	Manganese	2130			P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	72.6			P
7440-09-7	Potassium	6960		E	P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	39300		E	P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	47.0	B		P
7440-66-6	Zinc	184			P
	Cyanide	10.0	U		C
7429-90-5	Tin				

Color Before: BROWN Clarity Before: OPAQUE Texture: LIQUID

Color After: YELLOW Clarity After: CLEAR Artifacts: NO

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-12T

Lab Name: Upstate Laboratories, Inc Contract: .

Lab Code: 10170 Case No.: SAS No.: SDG No.: DENG02

Matrix (soil/water): WATER Lab Sample ID: 18199086

Level (low/med): LOW Date Received: 06/29/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	854			P
7440-36-0	Antimony	15.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	351			P
7440-41-7	Beryllium	3.0	U		P
7440-43-9	Cadmium	6.1			P
7440-70-2	Calcium	120000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	20.0	U		P
7440-50-8	Copper	10.0	U		P
7439-89-6	Iron	54900			P
7439-92-1	Lead	6.1			P
7439-95-4	Magnesium	76800			P
7439-96-5	Manganese	356			P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	30.0	U		P
7440-09-7	Potassium	190000		E	P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	285000		E	P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	30.0	U		P
7440-66-6	Zinc	38.8			P
	Cyanide	10.0	U		C
7429-90-5	Tin				

Color Before: YELLOW Clarity Before: CLOUDY Texture: LIQUID

Color After: YELLOW Clarity After: CLEAR Artifacts: NO

Comments:

ENVIROFORMS/INORGANIC CLP

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

X-001T

Lab Name: Upstate Laboratories, Inc Contract: .

Lab Code: 10170 Case No.: SAS No.: SDG No.: DENG02

Matrix (soil/water): WATER Lab Sample ID: 18199087

Level (low/med): LOW Date Received: 06/29/99

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3060			P
7440-36-0	Antimony	15.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	1280			P
7440-41-7	Beryllium	3.0	U		P
7440-43-9	Cadmium	7.4			P
7440-70-2	Calcium	213000			P
7440-47-3	Chromium	16.4			P
7440-48-4	Cobalt	20.0	U		P
7440-50-8	Copper	14.8	B		P
7439-89-6	Iron	63900			P
7439-92-1	Lead	9.9			P
7439-95-4	Magnesium	55400			P
7439-96-5	Manganese	1850			P
7439-97-6	Mercury	0.20	U	N	CV
7440-02-0	Nickel	30.0	U		P
7440-09-7	Potassium	195000		E	P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	439000		E	P
7440-28-0	Thallium	13.2			P
7440-62-2	Vanadium	43.7	B		P
7440-66-6	Zinc	89.8			P
	Cyanide	10.0	U		C
7429-90-5	Tin				

Color Before: YELLOW Clarity Before: CLOUDY Texture: LIQUID

Color After: YELLOW Clarity After: CLEAR Artifacts: NO

Comments:

Sheet2

HARDNESS

Calculation Worksheet

DENG02

ULI ID Number	Calcium Result	Batch/File No.	Magnesium Result	Batch/File No.	Hardness mg/l CaCO3
18199080	29.10		11.20		120
18199081	212.00		54.70		750
18199082	29.80		8.28		110
18199083	35.00		10.20		130
18199084	61.10		25.90		260
18199085	142.00		43.50		530
18199086	120.00		76.80		620
18199087	213.00		55.40		760
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-1ST

Lab Name: UPSTATE LABS INC. Contract: DELAWARE

Lab Code: 10170 Case No.: 01 SAS No.: SDG No.: DENG02

Matrix: (soil/water) WATER Lab Sample ID: 18199080

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E4342.D

Level: (low/med) LOW Date Received: 06/29/99

% Moisture: not dec. Date Analyzed: 07/02/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-1-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	100	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-33	1,1-Dichloroethane	5	U
108-5-4	Vinyl Acetate	50	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
97-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
108-10-1	4-Methyl-2-pentanone	10	U
10061-1-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-2-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachlorcethane	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylene	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-1ST

Lab Name: UPSTATE LABS INC. Contract: DELAWARE

Lab Code: 10170 Case No.: 01 SAS No.: SDG No.: DENG02

Matrix: (soil/water) WATER Lab Sample ID: 18199080

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E4342.D

Level: (low/med) LOW Date Received: 06/29/99

% Moisture: not dec. Date Analyzed: 07/02/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
110-57-6	1,4-Dichloro-2-butene	10	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloro-propane	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-1ST

Lab Name: UPSTATE LABS INC. Contract: DELAWARE

Lab Code: 10170 Case No.: 01 SAS No.: SDG No.: DENG02

Matrix: (soil/water) WATER Lab Sample ID: 19199080

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E4342.D

Level: (low/med) LOW Date Received: 06/29/99

% Moisture: not dec. Date Analyzed: 07/02/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-5ST

Lab Name: UPSTATE LABS INC. Contract: DELAWARE
Lab Code: 10170 Case No.: 01 SAS No.: SDG No.: DENG02
Matrix: (soil/water) WATER Lab Sample ID: 18199C83
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E4344.D
Level: (low/med) LOW Date Received: 06/29/99
% Moisture: not dec. Date Analyzed: 07/02/99
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-1-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	100	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-33	1,1-Dichloroethane	5	U
108-5-4	Vinyl Acetate	50	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
97-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
108-10-1	4-Methyl-2-pentanone	10	U
10061-1-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-2-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-5ST

Lab Name: UPSTATE LABS INC. Contract: DELAWARE
Lab Code: 10170 Case No.: 01 SAS No.: SDG No.: DENG02
Matrix: (soil/water) WATER Lab Sample ID: 18199083
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E4344.D
Level: (low/med) LOW Date Received: 06/29/99
% Moisture: not dec. Date Analyzed: 07/02/99
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
110-57-6	1,4-Dichloro-2-butene	10	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloro-propane	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-5ST

Lab Name: UPSTATE LABS INC. Contract: DELAWARE

Lab Code: 10170 Case No.: C1 SAS No.: SDG No.: DENG02

Matrix: (soil/water) WATER Lab Sample ID: 18199083

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E4344.D

Level: (low/med) LOW Date Received: 06/29/99

% Moisture: not dec. Date Analyzed: 07/02/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7DT

Lab Name: UPSTATE LABS INC. Contract: DELAWARE

Lab Code: 10170 Case No.: 01 SAS No.: SDG No.: DENG02

Matrix: (soil/water) WATER Lab Sample ID: 18199084

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E4350.D

Level: (low/med) LOW Date Received: 06/29/99

% Moisture: not dec. Date Analyzed: 07/07/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-1-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	18	
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	100	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-33	1,1-Dichloroethane	5	U
108-5-4	Vinyl Acetate	50	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	
107-06-2	1,2-Dichloroethane	5	U
97-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
108-10-1	4-Methyl-2-pentanone	10	U
10061-1-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-2-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	23	
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylene	2	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7DT

Lab Name: UPSTATE LABS INC. Contract: DELAWARE

Lab Code: 10170 Case No.: 01 SAS No.: SDG No.: DENG02

Matrix: (soil/water) WATER Lab Sample ID: 18199084

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E4350.D

Level: (low/med) LOW Date Received: 06/29/99

% Moisture: not dec. Date Analyzed: 07/07/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
95-47-6	o-Xylene		5	U
100-42-5	Styrene		5	U
75-25-2	Bromoform		5	U
79-34-5	1,1,2,2-Tetrachloroethane		5	U
96-18-4	1,2,3-Trichloropropane		5	U
110-57-6	1,4-Dichloro-2-butene		10	U
541-73-1	1,3-Dichlorobenzene		5	U
106-46-7	1,4-Dichlorobenzene		5	U
95-50-1	1,2-Dichlorobenzene		5	U
96-12-8	1,2-Dibromo-3-chloro-propane		10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3ST

Lab Name: UPSTATE LABS INC. Contract: DELAWARE

Lab Code: 10170 Case No.: 01 SAS No.: SDG No.: DENG02

Matrix: (soil/water) WATER Lab Sample ID: 18199081

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E4351.D

Level: (low/med) LOW Date Received: 06/29/99

% Moisture: not dec. Date Analyzed: 07/07/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-1-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
67-64-1	Acetone	21	
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	6	
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	100	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-33	1,1-Dichloroethane	5	U
108-5-4	Vinyl Acetate	50	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
97-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
108-10-1	4-Methyl-2-pentanone	10	U
10061-1-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-2-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylene	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-7DT

Lab Name: UPSTATE LABS INC. Contract: DELAWARE

Lab Code: 10170 Case No.: 01 SAS No.: SDG No.: DENG02

Matrix: (soil/water) WATER Lab Sample ID: 18199084

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E4350.D

Level: (low/med) LOW Date Received: 06/29/99

% Moisture: not dec. Date Analyzed: 07/07/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	30.56	7	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-3ST

Lab Name: UPSTATE LABS INC. Contract: DELAWARE
Lab Code: 10170 Case No.: 01 SAS No.: SDG No.: DENG02
Matrix: (soil/water) WATER Lab Sample ID: 18199081
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E4351.D
Level: (low/med) LOW Date Received: 06/29/99
% Moisture: not dec. Date Analyzed: 07/07/99
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
110-57-6	1,4-Dichloro-2-butene	10	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloro-propane	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-3ST

Lab Name: UPSTATE LABS INC. Contract: DELAWARE

Lab Code: 10170 Case No.: 01 SAS No.: SDG No.: DENG02

Matrix: (soil/water) WATER Lab Sample ID: 18199081

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E4351.D

Level: (low/med) LOW Date Received: 06/29/99

% Moisture: not dec. Date Analyzed: 07/07/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 8

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		unknown	6.55	7	J
2.		unknown	8.10	53	J
3.		unknown	9.72	13	J
4.		unknown	10.10	6	J
5.	001066-40-6	Silanol, trimethyl-	11.82	8	JN
6.		unknown	12.87	7	J
7.	000109-99-9	Furan, tetrahydro-	12.94	20	JN
8.		unknown hydrocarbon	30.56	8	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9ST

Lab Name: UPSTATE LABS INC. Contract: DELAWARE

Lab Code: 10170 Case No.: 01 SAS No.: SDG No.: DENG02

Matrix: (soil/water) WATER Lab Sample ID: 18199085

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E4354.D

Level: (low/med) LOW Date Received: 06/29/99

% Moisture: not dec. Date Analyzed: 07/07/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-1-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	3	J
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	100	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-33	1,1-Dichloroethane	5	U
108-5-4	Vinyl Acetate	50	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
97-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
108-10-1	4-Methyl-2-pentanone	10	U
10061-1-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-2-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
108-38-3	m,p-Xylene	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9ST

Lab Name: UPSTATE LABS INC. Contract: DELAWARE

Lab Code: 10170 Case No.: 01 SAS No.: SDG No.: DENG02

Matrix: (soil/water) WATER Lab Sample ID: 18199085

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E4354.D

Level: (low/med) LOW Date Received: 06/29/99

% Moisture: not dec. Date Analyzed: 07/07/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
110-57-6	1,4-Dichloro-2-butene	10	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloro-propane	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-9ST

Lab Name: UPSTATE LABS INC. Contract: DELAWARE

Lab Code: 10170 Case No.: 01 SAS No.: SDG No.: DENG02

Matrix: (soil/water) WATER Lab Sample ID: 18199085

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E4354.D

Level: (low/med) LOW Date Received: 06/29/99

% Moisture: not dec. Date Analyzed: 07/07/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12T

Lab Name: UPSTATE LABS INC. Contract: DELAWARE

Lab Code: 10170 Case No.: 01 SAS No.: SDG No.: DENG02

Matrix: (soil/water) WATER Lab Sample ID: 18199086

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E4355.D

Level: (low/med) LOW Date Received: 06/29/99

% Moisture: not dec. Date Analyzed: 07/07/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	U
75-1-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	68	
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	100	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-33	1,1-Dichloroethane	5	U
108-5-4	Vinyl Acetate	50	U
78-93-3	2-Butanone	10	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
74-97-5	Bromochloromethane	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	5	U
97-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
74-95-3	Dibromomethane	5	U
108-10-1	4-Methyl-2-pentanone	10	U
10061-1-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-2-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	2	J
108-38-3	m,p-Xylene	15	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12T

Lab Name: UPSTATE LABS INC. Contract: DELAWARE

Lab Code: 10170 Case No.: 01 SAS No.: SDG No.: DENG02

Matrix: (soil/water) WATER Lab Sample ID: 18199086

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E4355.D

Level (low/med) LOW Date Received: 06/29/99

% Moisture: not dec. Date Analyzed: 07/07/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
110-57-6	1,4-Dichloro-2-butene	10	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	1	J
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloro-propane	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-12T

Lab Name: UPSTATE LABS INC. Contract: DELAWARE

Lab Code: 10170 Case No.: 01 SAS No.: SDG No: DENG02

Matrix: (soil/water) WATER Lab Sample ID: 18199086

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: E4355 D

Level: (low/med) LOW Date Received: 06/29/99

% Moisture: not dec. Date Analyzed: 07/07/99

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 6

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.		unknown	8.10	10	J
2.	000109-99-9	Furan, tetrahydro-	12.94	10	JN
3.	000098-82-8	Benzene, (1-methylethyl)-	26.22	18	JN
4.	000095-63-6	Benzene, 1,2,4-trimethyl-	27.94	7	JN
5.	000108-67-8	Benzene, 1,3,5-trimethyl-	29.06	18	JN
6.	000526-73-8	Benzene, 1,2,3-trimethyl-	30.33	6	JN

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Delaware Engineering
28 Madison Ave. Ext.

Albany NY 12203
Mr. Tony Noce

Task Number: 9909-00178
Customer No.: 000273
Project No.: A80019
Purchase Order #: 99-043/008
Report Date: 10/04/99

Sampling Information

Project Location: ROME NY/TANNERY RD LANDFILL
Sampled By: NOCE
Date Received: 9/14/99

Test Performed	Method	Results	Units	Tech	Analy. Date
001 MW-1S			Sample Date 9/13/1999 Time: 10:30		
Matrix: Water			Collection Method: Grab		
PART 360 ROUTINE					
Nitrogen, Kjeldahl	EPA Method 351.1	1.3	mg/L	JLH	9/23/99
Nitrogen, Ammonia	EPA Method 350.1	2.0	mg/L	JLH	9/20/99
Chemical Oxygen Demand	EPA Method 410.4	25	mg/L	SDP	9/17/99
Biochemical Oxygen Demand	EPA Method 405.1	<2	mg/L	JLH	9/15/99
Total Dissolved Solids	Std. Mtd. 18th 2540	260	mg/L	JLH	9/16/99
Sulfate	EPA Method 375.4	94	mg/L	ACM	9/16/99
Alkalinity	EPA Method 310.1	84	mg/L	ACM	9/15/99
Phenols	EPA Method 420.1	<1	ug/L	SDP	9/22/99
Chloride	EPA Method 325.2	28	mg/L	MLO	9/21/99
Cadmium, water	ICP, EPA 200.7	<0.005	mg/L	JMR	10/01/99
Calcium, water	ICP, EPA 200.7	43.2	mg/L	JMR	10/01/99
Lead, water	ICP, EPA 200.7	0.010	mg/L	JMR	10/01/99
Bromide in Water	EPA Method 320.1	<2	mg/L	MLO	9/28/99
Total Organic Carbon	EPA 415.2	7.0	mg/L	BEN	9/21/99
Iron, water	ICP, EPA 200.7	33.1	mg/L	JMR	10/01/99
Magnesium, water	ICP, EPA 200.7	6.8	mg/L	JMR	10/01/99
Manganese, water	ICP, EPA Method 200	1.2	mg/L	JMR	10/01/99
Potassium	FLAA, EPA Method 25	2.9	mg/L	ECM	10/01/99
Sodium, water	FLAA, EPA 273.1	9.9	mg/L	ECM	10/01/99
Nitrogen, Nitrate	EPA Method 353.2	<0.2	mg/L	BEN	9/24/99
Metals Hardness Calculation	EPA Method 3010				
Hardness	Calculation	136	mg/L	JMR	10/01/99
ICP/Flame Water Digestion	EPA Method 3010	Complete		ECM	9/30/99
002 MW-3S			Sample Date 9/13/1999 Time: 12:55		
Matrix: Water			Collection Method: Grab		
PART 360 ROUTINE					
Nitrogen, Kjeldahl	EPA Method 351.1	99	mg/L	JLH	9/23/99
Nitrogen, Ammonia	EPA Method 350.1	89	mg/L	JLH	9/20/99
Chemical Oxygen Demand	EPA Method 410.4	<1	mg/L	SDP	9/17/99
Biochemical Oxygen Demand	EPA Method 405.1	28	mg/L	JLH	9/15/99
Total Dissolved Solids	Std. Mtd. 18th 2540	2280	mg/L	JLH	9/16/99

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Mr. Tony Noce

Task Number 9909-00178
Customer No. 000273
Project No. A80019
Purchase Order # 99-043/008
Report Date 10/04/99

Sampling Information

Project Location: ROME NY/TANNERY RD LANDFILL
Sampled By: NOCE

Date Received 9/14/99

Test Performed	Method	Results	Units	Tech	Analy. Date
002 MW-3S			Sample Date 9/13/1999 Time: 12:55		
Matrix:			Collection Method: Grab		
Sulfate	EPA Method 375.4	110	mg/L	ACM	9/16/99
Alkalinity	EPA Method 310.1	550	mg/L	ACM	9/15/99
Phenols	EPA Method 420.1	6	ug/L	SDP	9/22/99
Chloride	EPA Method 325.2	430	mg/L	MLO	9/21/99
Cadmium, water	ICP, EPA 200.7	<0.005	mg/L	JMR	10/01/99
Calcium, water	ICP, EPA 200.7	171	mg/L	JMR	10/01/99
Lead, water	ICP, EPA 200.7	<0.005	mg/L	JMR	10/01/99
Bromide in Water	EPA Method 320.1	<2	mg/L	MLO	9/28/99
Total Organic Carbon	EPA 415.2	247	mg/L	BEN	9/30/99
Iron, water	ICP, EPA 200.7	55.8	mg/L	JMR	10/01/99
Magnesium, water	ICP, EPA 200.7	52.6	mg/L	JMR	10/01/99
Manganese, water	ICP, EPA Method 200	1.6	mg/L	JMR	10/01/99
Potassium	FLAA, EPA Method 25	210	mg/L	ECM	10/01/99
Sodium, water	FLAA, EPA 273.1	310	mg/L	ECM	10/01/99
Nitrogen, Nitrate	EPA Method 353.2	<0.2	mg/L	BEN	9/24/99
Metals Hardness Calculation	EPA Method 3010				
Hardness	Calculation	644	mg/L	JMR	10/01/99
ICP/Flame Water Digestion	EPA Method 3010	Complete		ECM	9/30/99
003 MW-4S			Sample Date 9/13/1999 Time: 13:52		
Matrix: Water			Collection Method: Grab		
PART 360 ROUTINE					
Nitrogen, Kjeldahl	EPA Method 351.1	70	mg/L	JLH	9/23/99
Nitrogen, Ammonia	EPA Method 350.1	90	mg/L	JLH	9/20/99
Chemical Oxygen Demand	EPA Method 410.4	22	mg/L	SDP	9/17/99
Biochemical Oxygen Demand	EPA Method 405.1	34	mg/L	JLH	9/15/99
Total Dissolved Solids	Std. Mtd. 18th 2540	810	mg/L	JLH	9/16/99
Sulfate	EPA Method 375.4	11	mg/L	ACM	9/16/99
Alkalinity	EPA Method 310.1	660	mg/L	ACM	9/15/99
Phenols	EPA Method 420.1	8	ug/L	SDP	9/22/99
Chloride	EPA Method 325.2	200	mg/L	MLO	9/21/99
Cadmium, water	ICP, EPA 200.7	<0.005	mg/L	JMR	10/01/99
Calcium, water	ICP, EPA 200.7	24.4	mg/L	JMR	10/01/99

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Delaware Engineering
28 Madison Ave. Ext.

Albany NY 12203
Mr. Tony Noce

Task Number 9909-00178
Customer No. 000273
Project No. A80019
Purchase Order # 99-043/008
Report Date 10/04/99

Sampling Information

Project Location: ROME NY/TANNERY RD LANDFILL
Sampled By: NOCE

Date Received 9/14/99

Test Performed	Method	Results	Units	Tech	Analy. Date
003 MW-4S			Sample Date 9/13/1999 Time: 13:52		
Matrix:			Collection Method: Grab		
Lead, water	ICP, EPA 200.7	<0.005	mg/L	JMR	10/01/99
Bromide in Water	EPA Method 320.1	<2	mg/L	MLO	9/28/99
Total Organic Carbon	EPA 415.2	47.8	mg/L	BEN	9/21/99
Iron, water	ICP, EPA 200.7	10.3	mg/L	JMR	10/01/99
Magnesium, water	ICP, EPA 200.7	8.1	mg/L	JMR	10/01/99
Manganese, water	ICP, EPA Method 200	0.62	mg/L	JMR	10/01/99
Potassium	FLAA, EPA Method 25	57	mg/L	ECM	10/01/99
Sodium, water	FLAA, EPA 273.1	150	mg/L	ECM	10/01/99
Nitrogen, Nitrate	EPA Method 353.2	<0.2	mg/L	BEN	9/24/99
Metals Hardness Calculation	EPA Method 3010				
Hardness	Calculation	94	mg/L	JMR	10/01/99
ICP/Flame Water Digestion	EPA Method 3010	Complete		ECM	9/30/99
004 MW-5S			Sample Date 9/13/1999 Time: 14:45		
Matrix: Water			Collection Method: Grab		
PART 360 ROUTINE					
Nitrogen, Kjeldahl	EPA Method 351.1	0.9	mg/L	JLH	9/23/99
Nitrogen, Ammonia	EPA Method 350.1	<0.3	mg/L	JLH	9/20/99
Chemical Oxygen Demand	EPA Method 410.4	32	mg/L	SDP	9/17/99
Biochemical Oxygen Demand	EPA Method 405.1	2.0	mg/L	JLH	9/15/99
Total Dissolved Solids	Std. Mtd. 18th 2540	230	mg/L	JLH	9/16/99
Sulfate	EPA Method 375.4	28	mg/L	ACM	9/16/99
Alkalinity	EPA Method 310.1	300	mg/L	ACM	9/15/99
Phenols	EPA Method 420.1	<1	ug/L	SDP	9/22/99
Chloride	EPA Method 325.2	2.4	mg/L	MLO	9/21/99
Cadmium, water	ICP, EPA 200.7	<0.005	mg/L	JMR	10/01/99
Calcium, water	ICP, EPA 200.7	43.0	mg/L	JMR	10/01/99
Lead, water	ICP, EPA 200.7	<0.005	mg/L	JMR	10/01/99
Bromide in Water	EPA Method 320.1	<2	mg/L	MLO	9/28/99
Total Organic Carbon	EPA 415.2	15.1	mg/L	BEN	9/21/99
Iron, water	ICP, EPA 200.7	14.2	mg/L	JMR	10/01/99
Magnesium, water	ICP, EPA 200.7	9.8	mg/L	JMR	10/01/99
Manganese, water	ICP, EPA Method 200	6.5	mg/L	JMR	10/01/99

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Customer No. 000273
Project No. A80019
Purchase Order # 99-043/008
Report Date 10/04/99

Sampling Information

Project Location: ROME NY/TANNERY RD LANDFILL
Sampled By: NOCE
Date Received 9/14/99

Test Performed	Method	Results	Units	Tech	Analy. Date
004 MW-5S			Sample Date 9/13/1999 Time: 14:45		
Matrix:			Collection Method: Grab		
Potassium	FLAA, EPA Method 25	3.4	mg/L	ECM	10/01/99
Sodium, water	FLAA, EPA 273.1	11	mg/L	ECM	10/01/99
Nitrogen, Nitrate	EPA Method 353.2	<0.2	mg/L	BEN	9/24/99
Metals Hardness Calculation	EPA Method 3010				
Hardness	Calculation	147	mg/L	JMR	10/01/99
ICP/Flame Water Digestion	EPA Method 3010	Complete		ECM	9/30/99
005 MW-7S			Sample Date 9/13/1999 Time: 15:51		
Matrix: Water			Collection Method: Grab		
PART 360 ROUTINE					
Nitrogen, Kjeldahl	EPA Method 351.1	36	mg/L	JLH	9/23/99
Nitrogen, Ammonia	EPA Method 350.1	47	mg/L	JLH	9/20/99
Chemical Oxygen Demand	EPA Method 410.4	14	mg/L	SDP	9/17/99
Biochemical Oxygen Demand	EPA Method 405.1	17	mg/L	JLH	9/15/99
Total Dissolved Solids	Std. Mtd. 18th 2540	710	mg/L	JLH	9/16/99
Sulfate	EPA Method 375.4	12	mg/L	ACM	9/16/99
Alkalinity	EPA Method 310.1	710	mg/L	ACM	9/15/99
Phenols	EPA Method 420.1	10	ug/L	SDP	9/27/99
Chloride	EPA Method 325.2	88	mg/L	MLO	9/21/99
Cadmium, water	ICP, EPA 200.7	<0.005	mg/L	JMR	10/01/99
Calcium, water	ICP, EPA 200.7	74.9	mg/L	JMR	10/01/99
Lead, water	ICP, EPA 200.7	0.006	mg/L	JMR	10/01/99
Bromide in Water	EPA Method 320.1	<2	mg/L	MLO	9/28/99
Total Organic Carbon	EPA 415.2	45.9	mg/L	BEN	9/21/99
Iron, water	ICP, EPA 200.7	40.8	mg/L	JMR	10/01/99
Magnesium, water	ICP, EPA 200.7	39.5	mg/L	JMR	10/01/99
Manganese, water	ICP, EPA Method 200	0.82	mg/L	JMR	10/01/99
Potassium	FLAA, EPA Method 25	48	mg/L	ECM	10/01/99
Sodium, water	FLAA, EPA 273.1	60	mg/L	ECM	10/01/99
Nitrogen, Nitrate	EPA Method 353.2	<0.2	mg/L	BEN	9/24/99
Metals Hardness Calculation	EPA Method 3010				
Hardness	Calculation	350	mg/L	JMR	10/01/99
ICP/Flame Water Digestion	EPA Method 3010	Complete		ECM	9/30/99

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Sampling Information

Project Location: ROME NY/TANNERY RD LANDFILL
Sampled By: NOCE

Date Received 9/14/99

Test Performed	Method	Results	Units	Tech	Analy. Date
006 MW-9S			Sample Date 9/13/1999 Time: 11:45		
Matrix: Water			Collection Method: Grab		
PART 360 ROUTINE					
Nitrogen, Kjeldahl	EPA Method 351.1	0.5	mg/L	JLH	9/23/99
Nitrogen, Ammonia	EPA Method 350.1	<0.3	mg/L	JLH	9/20/99
Chemical Oxygen Demand	EPA Method 410.4	26	mg/L	SDP	9/17/99
Biochemical Oxygen Demand	EPA Method 405.1	3.9	mg/L	JLH	9/15/99
Total Dissolved Solids	Std. Mtd. 18th 2540	360	mg/L	JLH	9/16/99
Sulfate	EPA Method 375.4	12	mg/L	ACM	9/16/99
Alkalinity	EPA Method 310.1	1400	mg/L	ACM	9/15/99
Phenols	EPA Method 420.1	<1	ug/L	SDP	9/27/99
Chloride	EPA Method 325.2	4.1	mg/L	MLO	9/21/99
Cadmium, water	ICP, EPA 200.7	<0.005	mg/L	JMR	10/01/99
Calcium, water	ICP, EPA 200.7	142	mg/L	JMR	10/01/99
Lead, water	ICP, EPA 200.7	0.011	mg/L	JMR	10/01/99
Bromide in Water	EPA Method 320.1	<2	mg/L	MLO	9/28/99
Total Organic Carbon	EPA 415.2	28.6	mg/L	BEN	9/21/99
Iron, water	ICP, EPA 200.7	28.2	mg/L	JMR	10/01/99
Magnesium, water	ICP, EPA 200.7	29.8	mg/L	JMR	10/01/99
Manganese, water	ICP, EPA Method 200	1.7	mg/L	JMR	10/01/99
Potassium	FLAA, EPA Method 25	2.3	mg/L	ECM	10/01/99
Sodium, water	FLAA, EPA 273.1	30	mg/L	ECM	10/01/99
Nitrogen, Nitrate	EPA Method 353.2	<0.2	mg/L	BEN	9/24/99
Metals Hardness Calculation	EPA Method 3010				
Hardness	Calculation	478	mg/L	JMR	10/01/99
ICP/Flame Water Digestion	EPA Method 3010	Complete		ECM	9/30/99
007 MW-12			Sample Date 9/13/1999 Time: 9:36		
Matrix: Water			Collection Method: Grab		
PART 360 ROUTINE					
Nitrogen, Kjeldahl	EPA Method 351.1	170	mg/L	JLH	9/23/99
Nitrogen, Ammonia	EPA Method 350.1	170	mg/L	JLH	9/20/99
Chemical Oxygen Demand	EPA Method 410.4	<10	mg/L	SDP	9/17/99
Biochemical Oxygen Demand	EPA Method 405.1	16	mg/L	JLH	9/15/99
Total Dissolved Solids	Std. Mtd. 18th 2540	1630	mg/L	JLH	9/16/99

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Delaware Engineering
28 Madison Ave. Ext.

Albany NY 12203
Mr. Tony Noce

Task Number 9909-00178
Customer No. 000273
Project No. A80019
Purchase Order # 99-043/008
Report Date 10/04/99

Sampling Information

Project Location: ROME NY/TANNERY RD LANDFILL
Sampled By: NOCE
Date Received 9/14/99

Test Performed	Method	Results	Units	Tech	Analy. Date
007 MW-12			Sample Date 9/13/1999 Time: 9:36		
Matrix:			Collection Method: Grab		
Sulfate	EPA Method 375.4	11	mg/L	ACM	9/16/99
Alkalinity	EPA Method 310.1	280	mg/L	ACM	9/15/99
Phenols	EPA Method 420.1	34	ug/L	SDP	9/27/99
Chloride	EPA Method 325.2	320	mg/L	MLO	9/21/99
Cadmium, water	ICP, EPA 200.7	<0.005	mg/L	JMR	10/01/99
Calcium, water	ICP, EPA 200.7	172	mg/L	JMR	10/01/99
Lead, water	ICP, EPA 200.7	0.022	mg/L	JMR	10/01/99
Bromide in Water	EPA Method 320.1	<2	mg/L	MLO	9/28/99
Total Organic Carbon	EPA 415.2	270.0	mg/L	BEN	9/21/99
Iron, water	ICP, EPA 200.7	58.4	mg/L	JMR	10/01/99
Magnesium, water	ICP, EPA 200.7	97.6	mg/L	JMR	10/01/99
Manganese, water	ICP, EPA Method 200	0.73	mg/L	JMR	10/01/99
Potassium	FLAA, EPA Method 25	190	mg/L	ECM	10/01/99
Sodium, water	FLAA, EPA 273.1	310	mg/L	ECM	10/01/99
Nitrogen, Nitrate	EPA Method 353.2	<0.2	mg/L	BEN	9/24/99
Metals Hardness Calculation	EPA Method 3010				
Hardness	Calculation	832	mg/L	JMR	10/01/99
ICP/Flame Water Digestion	EPA Method 3010	Complete		ECM	9/30/99
008 X-1			Sample Date 9/13/1999 Time: 0:00		
Matrix: Water			Collection Method: Grab		
PART 360 ROUTINE					
Nitrogen, Kjeldahl	EPA Method 351.1	79	mg/L	JLH	9/23/99
Nitrogen, Ammonia	EPA Method 350.1	87	mg/L	JLH	9/20/99
Chemical Oxygen Demand	EPA Method 410.4	23	mg/L	SDP	9/17/99
Biochemical Oxygen Demand	EPA Method 405.1	28	mg/L	JLH	9/15/99
Total Dissolved Solids	Std. Mtd. 18th 2540	850	mg/L	JLH	9/16/99
Sulfate	EPA Method 375.4	6.8	mg/L	ACM	9/16/99
Alkalinity	EPA Method 310.1	660	mg/L	ACM	9/15/99
Phenols	EPA Method 420.1	13	ug/L	SDP	9/27/99
Chloride	EPA Method 325.2	180	mg/L	MLO	9/21/99
Cadmium, water	ICP, EPA 200.7	<0.005	mg/L	JMR	10/01/99
Calcium, water	ICP, EPA 200.7	25.7	mg/L	JMR	10/01/99

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Delaware Engineering
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Albany NY 12203
Mr. Tony Noce

Task Number 9909-00178
Customer No. 000273
Project No. A80019
Purchase Order # 99-043/008
Report Date 10/04/99

Sampling Information
Project Location: ROME NY/TANNERY RD LANDFILL
Sampled By: NOCE

Date Received 9/14/99

Test Performed	Method	Results	Units	Tech	Analy. Date
008 X-1			Sample Date 9/13/1999 Time: 0:00		
Matrix:			Collection Method: Grab		
Lead, water	ICP, EPA 200.7	<0.005	mg/L	JMR	10/01/99
Bromide in Water	EPA Method 320.1	<2	mg/L	MLO	9/28/99
Total Organic Carbon	EPA 415.2	47.3	mg/L	BEN	9/21/99
Iron, water	ICP, EPA 200.7	10.1	mg/L	JMR	10/01/99
Magnesium, water	ICP, EPA 200.7	8.4	mg/L	JMR	10/01/99
Manganese, water	ICP, EPA Method 200	0.62	mg/L	JMR	10/01/99
Potassium	FLAA, EPA Method 25	110	mg/L	ECM	10/01/99
Sodium, water	FLAA, EPA 273.1	180	mg/L	ECM	10/01/99
Nitrogen, Nitrate	EPA Method 353.2	<0.2	mg/L	BEN	9/24/99
Metals Hardness Calculation	EPA Method 3010				
Hardness	Calculation	99	mg/L	JMR	10/01/99
ICP/Flame Water Digestion	EPA Method 3010	Complete		ECM	9/30/99

Unless otherwise noted, samples were analyzed within the holding times specified in the analyical method.

Authorized for Release: _____
David O'Hehir, Laboratory Director

NYS ELAP:10358 MA DEP:NY052 CT DEP:PH-0551 NJ DEP:73581

...LBA... INC.
Century Hill Drive
. Box 787
ham, NY 12110
-786-8100
X 518-786-7700

CHAIN OF CUSTODY RECORD
LABORATORY SERVICES

...SK ... 99[illegible] 2[illegible]

ent DELAWARE ENGINEERING, P.C. Sampler's Name ANTHONY M. NOCE
(please print)
ent Contact ANTHONY M. NOCE Contact DAVE O'HEHIR
ject Location TROY, NY / TANNERY RD LANDFILL Turnaround Time Requested 2 WEEKS (28 SEPT 99)
chase Order 99-043/0008

LAB ID	Sample ID/Description	Date Sampled	MILITARY Time (A = a.m., P = p.m.)	Sample Type: Matrix	Sample Type: COMP	Sample Type: GRAB	# of Containers	Preservative (list by # from list below)	Analysis Required
1	MW-1S	13SEP99	1030	GW		X	9	ICE - OTHER AS REQ'D	NYCRR PART 360
2	MW-3S		1255						ROUTINE PARAMETER
3	MW-4S		1352						LIST - LEACHATE
4	MW-5S		1445						INDICATORS (NH_3,
5	MW-7D		1551						TKN, COD, TOC, NO_3,
6	MW-9S		1145						TOTAL PHENOLS, TDS,
7	MW-12		0936						ALKALINITY, SO_4, BOD_5
8	X-1		—						CHLORIDE, BROMIDE,
		GW 13SEP99							HARDNESS) and
									METALS (Cd, Ca, Fe, Pb, Mg,
									Mn, K, Na)

mpled by: (signature) Anthony M. Noce	Date/Time 14SEP99 0925	Received by: (signature)	Date/Time
linquished by: (signature)		Received by: (signature)	
linquished by: (signature)		Received by: (signature)	
spatched by: (signature)		Received for Laboratory by:	9-14-99 9:25

OTES/COMMENTS/BILLING INFORMATION:

Preservatives

1. HCl	6. Ascorbic
2. HNO_3	7. H_2SO_4
3. NaOH	8. F (Filtered)
4. NaS_2O_3	9. N (not preserved)
5. Zn Acet	10. Other

Method of Shipment: HAND DELIVERED

Sample Condition

1. Samples intact?	Y N
2. Custody seals intact?	Y N
3. Preserved properly?	Y N
4. Ambient or chilled?	
5. C.O.C. received with samples?	Y N

Date: 14 SEPT 99

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FAX 518-786-7700

CHAIN OF CUSTODY RECORD
LABORATORY SERVICES

TASK # 9712-0032

Client Delaware Engineering
Client Contact Ed Fahrenkopf
Project Location Rome IF
Purchase Order

Sampler's Name Ed Fahrenkopf
(please print)
Contact Ed Fahrenkopf
Turnaround Time Requested Normal

LAB ID	Sample ID/Description	Date Sampled	Time A = a.m. P = p.m.	Sample Type: Matrix	Sample Type: COMP	Sample Type: GRAB	# of Containers	Preservative (list by # from list below)	Analysis Required
1	MW-1S	12/2/97	1015	GW		✓	10		
2	MW-9S		1115	GW		✓	9		NYSDEC
3	MW-3S		1158			✓	10		Part 360
4	MW-4S		1315			✓	10		Routine Parameters
5	MW-5S		1245			✓	10		All Samples
6	MW-12		1400			✓	9		
7	MW-7D		1450			✓	10		
8	X-1			GW			9		

	Date/Time		Date/Time
Sampled by: (signature) Ed Fahrenkopf	12/2/97 1500	Received by: (signature)	
Relinquished by: (signature)	12/2/97 0800	Received by: (signature)	
Relinquished by: (signature)		Received by: (signature)	
Dispatched by: (signature)		Received for Laboratory by:	12-21-97 9:05

Preservatives
1. HCl 6. Ascorbic
2. HNO_3 7. H_2SO_4
3. NaOH 8. F (Filtered)
4. NaS_2O_3 9. N (not preserved)
5. Zn Acet 10. Other

Sample Condition
1. Samples intact? (Y) N
2. Custody seals intact? Y N
3. Preserved properly? (Y) N
4. Ambient or chilled?
5. C.O.C. received with samples? Y N

NOTES/COMMENTS/BILLING INFORMATION:

Method of Shipment: Hand

Date: 12-21-97

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Delaware Engineering
28 Madison Ave. Ext.

Albany NY 12203
ED FAHRENKOPF

Task Number: 9912-00325
Customer No.: 000273
Project No.: A80019
Purchase Order #: ROME LF
Report Date: 1/05/00

Sampling Information

Project Location: ROME LF
Sampled By: FAHRENKOPF

Date Received: 12/21/99

Test Performed	Method	Results	Units	Tech	Analy. Date
001 MW-15S			Sample Date 12/20/1999 Time: 10:15		
Matrix: Water			Collection Method: Grab		
PART 360 ROUTINE					
Nitrogen, Kjeldahl	EPA Method 351.1	<0.3	mg/L	JLH	12/30/99
Nitrogen, Ammonia	EPA Method 350.1	<0.3	mg/L	JLH	12/22/99
Chemical Oxygen Demand	EPA Method 410.4	14	mg/L	SDP	12/22/99
Biochemical Oxygen Demand	EPA Method 405.1	2	mg/L	MLO	10/22/99
Total Dissolved Solids	Std. Mtd. 18th 2540	39	mg/L	MLO	12/23/99
Sulfate	EPA Method 375.4	9.8	mg/L	MLO	12/30/00
Alkalinity	EPA Method 310.1	7.8	mg/L	ACM	12/27/99
Phenols	EPA Method 420.1	4	ug/L	SDP	12/29/99
Chloride	EPA Method 325.2	3.7	mg/L	MLO	12/30/99
Hardness	Calculation	14	mg/L	JMR	12/31/99
Cadmium, water	ICP, EPA 200.7	<0.005	mg/L	JMR	12/31/99
Calcium, water	ICP, EPA 200.7	4.2	mg/L	JMR	12/31/99
Lead, water	ICP, EPA 200.7	<0.005	mg/L	JMR	12/31/99
Bromide in Water	EPA Method 320.1	<2	mg/L	MLO	12/30/99
Iron, water	ICP, EPA 200.7	3.1	mg/L	JMR	12/31/99
Magnesium, water	ICP, EPA 200.7	0.94	mg/L	JMR	12/31/99
Manganese, water	ICP, EPA Method 200	0.17	mg/L	JMR	12/31/99
Potassium	FLAA, EPA Method 25	0.7	mg/L	PJD	12/29/99
Sodium, water	FLAA, EPA 273.1	1.8	mg/L	PJD	12/29/99
Sample Analysis by Lab Id #		10350		BEN	1/02/00
Nitrogen, Nitrate	EPA Method 353.2	0.4	mg/L	BEN	1/02/00
Total Organic Carbon	EPA 415.2	7.8	mg/L	BEN	1/02/00
ICP/Flame Water Digestion	EPA Method 3010	Complete		PJD	12/28/99
002 MW-9S			Sample Date 12/20/1999 Time: 11:15		
Matrix: Water			Collection Method: Grab		
PART 360 ROUTINE					
Nitrogen, Kjeldahl	EPA Method 351.1	0.4	mg/L	JLH	12/30/99
Nitrogen, Ammonia	EPA Method 350.1	<0.3	mg/L	JLH	12/22/99
Chemical Oxygen Demand	EPA Method 410.4	76	mg/L	SDP	12/22/99
Biochemical Oxygen Demand	EPA Method 405.1	5	mg/L	MLO	10/22/99
Total Dissolved Solids	Std. Mtd. 18th 2540	340	mg/L	MLO	12/23/99

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Delaware Engineering
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Albany NY 12203
ED FAHRENKOPF

Task Number 9912-00325
Customer No. 000273
Project No. A80019
Purchase Order # ROME LF
Report Date 1/05/00

Sampling Information

Project Location: ROME LF
Sampled By: FAHRENKOPF

Date Received 12/21/99

Test Performed	Method	Results	Units	Tech	Analy. Date
002 MW-9S			Sample Date 12/20/1999 Time: 11:15		
Matrix:			Collection Method: Grab		
Sulfate	EPA Method 375.4	8	mg/L	MLO	12/30/00
Alkalinity	EPA Method 310.1	260	mg/L	ACM	12/27/99
Phenols	EPA Method 420.1	5	ug/L	SDP	12/29/99
Chloride	EPA Method 325.2	<2	mg/L	MLO	12/30/99
Hardness	Calculation	490	mg/L	JMR	12/31/99
Cadmium, water	ICP, EPA 200.7	<0.005	mg/L	JMR	12/31/99
Calcium, water	ICP, EPA 200.7	138	mg/L	JMR	12/31/99
Lead, water	ICP, EPA 200.7	0.017	mg/L	JMR	12/31/99
Bromide in Water	EPA Method 320.1	<2	mg/L	MLO	12/30/99
Iron, water	ICP, EPA 200.7	26.8	mg/L	JMR	12/31/99
Magnesium, water	ICP, EPA 200.7	35.2	mg/L	JMR	12/31/99
Manganese, water	ICP, EPA Method 200	1.9	mg/L	JMR	12/31/99
Potassium	FLAA, EPA Method 25	4.6	mg/L	PJD	12/29/99
Sodium, water	FLAA, EPA 273.1	41.7	mg/L	PJD	12/29/99
Sample Analysis by Lab Id #		10350		BEN	1/02/00
Nitrogen, Nitrate	EPA Method 353.2	0.5	mg/L	BEN	1/02/00
Total Organic Carbon	EPA 415.2	38.5	mg/L	BEN	1/02/00
ICP/Flame Water Digestion	EPA Method 3010	Complete		PJD	12/28/99
003 MW-3S			Sample Date 12/20/1999 Time: 11:58		
Matrix: Water			Collection Method: Grab		
PART 360 ROUTINE					
Nitrogen, Kjeldahl	EPA Method 351.1	89	mg/L	JLH	12/30/99
Nitrogen, Ammonia	EPA Method 350.1	84	mg/L	JLH	12/22/99
Chemical Oxygen Demand	EPA Method 410.4	310	mg/L	SDP	12/22/99
Biochemical Oxygen Demand	EPA Method 405.1	28	mg/L	MLO	10/22/99
Total Dissolved Solids	Std. Mtd. 18th 2540	1710	mg/L	MLO	12/23/99
Sulfate	EPA Method 375.4	16	mg/L	MLO	12/30/00
Alkalinity	EPA Method 310.1	600	mg/L	ACM	12/27/99
Phenols	EPA Method 420.1	8	ug/L	SDP	12/29/99
Chloride	EPA Method 325.2	320	mg/L	MLO	12/30/99
Hardness	Calculation	504	mg/L	JMR	12/31/99
Cadmium, water	ICP, EPA 200.7	<0.005	mg/L	JMR	12/31/99

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Delaware Engineering
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Albany NY 12203
ED FAHRENKOPF

Task Number 9912-00325
Customer No. 000273
Project No. A80019
Purchase Order # ROME LF
Report Date 1/05/00

Sampling Information

Project Location: ROME LF
Sampled By: FAHRENKOPF

Date Received 12/21/99

Test Performed	Method	Results	Units	Tech	Analy. Date
003 MW-3S			Sample Date 12/20/1999 Time: 11:58		
Matrix:			Collection Method: Grab		
Calcium, water	ICP, EPA 200.7	134	mg/L	JMR	12/31/99
Lead, water	ICP, EPA 200.7	<0.005	mg/L	JMR	12/31/99
Bromide in Water	EPA Method 320.1	4	mg/L	MLO	12/30/99
Iron, water	ICP, EPA 200.7	40.8	mg/L	JMR	12/31/99
Magnesium, water	ICP, EPA 200.7	41.0	mg/L	JMR	12/31/99
Manganese, water	ICP, EPA Method 200	1.4	mg/L	JMR	12/31/99
Potassium	FLAA, EPA Method 25	160	mg/L	PJD	12/29/99
Sodium, water	FLAA, EPA 273.1	310	mg/L	PJD	12/29/99
Sample Analysis by Lab Id #		10350		BEN	1/02/00
Nitrogen, Nitrate	EPA Method 353.2	<0.2	mg/L	BEN	1/02/00
Total Organic Carbon	EPA 415.2	123	mg/L	BEN	1/02/00
ICP/Flame Water Digestion	EPA Method 3010	Complete		PJD	12/28/99
004 MW-4S			Sample Date 12/20/1999 Time: 13:15		
Matrix: Water			Collection Method: Grab		
PART 360 ROUTINE					
Nitrogen, Kjeldahl	EPA Method 351.1	4.6	mg/L	JLH	12/30/99
Nitrogen, Ammonia	EPA Method 350.1	15	mg/L	JLH	12/22/99
Chemical Oxygen Demand	EPA Method 410.4	110	mg/L	SDP	12/22/99
Biochemical Oxygen Demand	EPA Method 405.1	24	mg/L	MLO	10/22/99
Total Dissolved Solids	Std. Mtd. 18th 2540	330	mg/L	MLO	12/23/99
Sulfate	EPA Method 375.4	56	mg/L	MLO	12/30/00
Alkalinity	EPA Method 310.1	110	mg/L	ACM	12/27/99
Phenols	EPA Method 420.1	12	ug/L	SDP	12/29/99
Chloride	EPA Method 325.2	23	mg/L	MLO	12/30/99
Hardness	Calculation	49	mg/L	JMR	12/31/99
Cadmium, water	ICP, EPA 200.7	<0.005	mg/L	JMR	12/31/99
Calcium, water	ICP, EPA 200.7	12.6	mg/L	JMR	12/31/99
Lead, water	ICP, EPA 200.7	<0.005	mg/L	JMR	12/31/99
Bromide in Water	EPA Method 320.1	<2	mg/L	MLO	12/30/99
Iron, water	ICP, EPA 200.7	5.3	mg/L	JMR	12/31/99
Magnesium, water	ICP, EPA 200.7	4.3	mg/L	JMR	12/31/99
Manganese, water	ICP, EPA Method 200	0.41	mg/L	JMR	12/31/99

----- Continued on Next Page -----

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Delaware Engineering
28 Madison Ave. Ext.

Albany NY 12203
ED FAHRENKOPF

Task Number 9912-00325
Customer No. 000273
Project No. A80019
Purchase Order # ROME LF
Report Date 1/05/00

Sampling Information

Project Location: ROME LF
Sampled By: FAHRENKOPF

Date Received 12/21/99

Test Performed	Method	Results	Units	Tech	Analy. Date
004 MW-4S			Sample Date 12/20/1999 Time: 13:15		
Matrix:			Collection Method: Grab		
Potassium	FLAA, EPA Method 25	34.2	mg/L	PJD	12/29/99
Sodium, water	FLAA, EPA 273.1	27.9	mg/L	PJD	12/29/99
Sample Analysis by Lab Id #		10350		BEN	1/02/00
Nitrogen, Nitrate	EPA Method 353.2	0.6	mg/L	BEN	1/02/00
Total Organic Carbon	EPA 415.2	35.5	mg/L	BEN	1/02/00
ICP/Flame Water Digestion	EPA Method 3010	Complete		PJD	12/28/99
005 MW-5S			Sample Date 12/20/1999 Time: 12:45		
Matrix: Water			Collection Method: Grab		
PART 360 ROUTINE					
Nitrogen, Kjeldahl	EPA Method 351.1	0.4	mg/L	JLH	12/30/99
Nitrogen, Ammonia	EPA Method 350.1	<0.3	mg/L	JLH	12/22/99
Chemical Oxygen Demand	EPA Method 410.4	20	mg/L	SDP	12/22/99
Biochemical Oxygen Demand	EPA Method 405.1	2	mg/L	MLO	10/22/99
Total Dissolved Solids	Std. Mtd. 18th 2540	150	mg/L	MLO	12/23/99
Sulfate	EPA Method 375.4	31	mg/L	MLO	12/30/00
Alkalinity	EPA Method 310.1	58	mg/L	ACM	12/27/99
Phenols	EPA Method 420.1	3	ug/L	SDP	12/29/99
Chloride	EPA Method 325.2	3.2	mg/L	MLO	12/30/99
Hardness	Calculation	81	mg/L	JMR	12/31/99
Cadmium, water	ICP, EPA 200.7	<0.005	mg/L	JMR	12/31/99
Calcium, water	ICP, EPA 200.7	23.3	mg/L	JMR	12/31/99
Lead, water	ICP, EPA 200.7	<0.005	mg/L	JMR	12/31/99
Bromide in Water	EPA Method 320.1	<2	mg/L	MLO	12/30/99
Iron, water	ICP, EPA 200.7	9.3	mg/L	JMR	12/31/99
Magnesium, water	ICP, EPA 200.7	5.5	mg/L	JMR	12/31/99
Manganese, water	ICP, EPA Method 200	2.6	mg/L	JMR	12/31/99
Potassium	FLAA, EPA Method 25	3.8	mg/L	PJD	12/29/99
Sodium, water	FLAA, EPA 273.1	3.1	mg/L	PJD	12/29/99
Sample Analysis by Lab Id #		10350		BEN	1/02/00
Nitrogen, Nitrate	EPA Method 353.2	0.8	mg/L	BEN	1/02/00
Total Organic Carbon	EPA 415.2	17.1	mg/L	BEN	1/02/00
ICP/Flame Water Digestion	EPA Method 3010	Complete		PJD	12/28/99

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Latham, NY 12110
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Fax: (518) 786-7700

Delaware Engineering
28 Madison Ave. Ext.

Albany NY 12203
ED FAHRENKOPF

Task Number 9912-00325
Customer No. 000273
Project No. A80019
Purchase Order # ROME LF
Report Date 1/05/00

Sampling Information

Project Location: ROME LF
Sampled By: FAHRENKOPF

Date Received 12/21/99

Test Performed	Method	Results	Units	Tech	Analy. Date
006 MW-12			Sample Date 12/20/1999 Time: 14:00		
Matrix: Water			Collection Method: Grab		
PART 360 ROUTINE					
Nitrogen, Kjeldahl	EPA Method 351.1	160	mg/L	JLH	12/30/99
Nitrogen, Ammonia	EPA Method 350.1	160	mg/L	JLH	12/22/99
Chemical Oxygen Demand	EPA Method 410.4	270	mg/L	SDP	12/22/99
Biochemical Oxygen Demand	EPA Method 405.1	16	mg/L	MLO	10/22/99
Total Dissolved Solids	Std. Mtd. 18th 2540	1750	mg/L	MLO	12/23/99
Sulfate	EPA Method 375.4	<5	mg/L	MLO	12/30/00
Alkalinity	EPA Method 310.1	1400	mg/L	ACM	12/27/99
Phenols	EPA Method 420.1	33	ug/L	SDP	12/29/99
Chloride	EPA Method 325.2	330	mg/L	MLO	12/30/99
Hardness	Calculation	635	mg/L	JMR	12/31/99
Cadmium, water	ICP, EPA 200.7	<0.005	mg/L	JMR	12/31/99
Calcium, water	ICP, EPA 200.7	117	mg/L	JMR	12/31/99
Lead, water	ICP, EPA 200.7	0.011	mg/L	JMR	12/31/99
Bromide in Water	EPA Method 320.1	5.1	mg/L	MLO	12/30/99
Iron, water	ICP, EPA 200.7	57.1	mg/L	JMR	12/31/99
Magnesium, water	ICP, EPA 200.7	83.4	mg/L	JMR	12/31/99
Manganese, water	ICP, EPA Method 200	0.39	mg/L	JMR	12/31/99
Potassium	FLAA, EPA Method 25	160	mg/L	PJD	12/29/99
Sodium, water	FLAA, EPA 273.1	240	mg/L	PJD	12/29/99
Sample Analysis by Lab Id #		10350		BEN	1/02/00
Nitrogen, Nitrate	EPA Method 353.2	<0.2	mg/L	BEN	1/02/00
Total Organic Carbon	EPA 415.2	107	mg/L	BEN	1/02/00
ICP/Flame Water Digestion	EPA Method 3010	Complete		PJD	12/28/99
007 MW-7D			Sample Date 12/20/1999 Time: 14:50		
Matrix: Water			Collection Method: Grab		
PART 360 ROUTINE					
Nitrogen, Kjeldahl	EPA Method 351.1	24	mg/L	JLH	12/30/99
Nitrogen, Ammonia	EPA Method 350.1	36	mg/L	JLH	1/03/00
Chemical Oxygen Demand	EPA Method 410.4	110	mg/L	SDP	12/22/99
Biochemical Oxygen Demand	EPA Method 405.1	11	mg/L	MLO	10/22/99
Total Dissolved Solids	Std. Mtd. 18th 2540	660	mg/L	MLO	12/23/99

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Delaware Engineering
28 Madison Ave. Ext.

Albany NY 12203
ED FAHRENKOPF

Task Number 9912-00325
Customer No. 000273
Project No. A80019
Purchase Order # ROME LF
Report Date 1/05/00

Sampling Information

Project Location: ROME LF
Sampled By: FAHRENKOPF

Date Received 12/21/99

Test Performed	Method	Results	Units	Tech	Analy. Date
007 MW-7D			Sample Date 12/20/1999 Time: 14:50		
Matrix:			Collection Method: Grab		
Sulfate	EPA Method 375.4	28	mg/L	MLO	12/30/00
Alkalinity	EPA Method 310.1	470	mg/L	ACM	12/27/99
Phenols	EPA Method 420.1	14	ug/L	SDP	12/29/99
Chloride	EPA Method 325.2	84	mg/L	MLO	12/30/99
Hardness	Calculation	310	mg/L	JMR	12/31/99
Cadmium, water	ICP, EPA 200.7	<0.005	mg/L	JMR	12/31/99
Calcium, water	ICP, EPA 200.7	64.2	mg/L	JMR	12/31/99
Lead, water	ICP, EPA 200.7	0.014	mg/L	JMR	12/31/99
Bromide in Water	EPA Method 320.1	<2	mg/L	MLO	12/30/99
Iron, water	ICP, EPA 200.7	37.7	mg/L	JMR	12/31/99
Magnesium, water	ICP, EPA 200.7	36.5	mg/L	JMR	12/31/99
Manganese, water	ICP, EPA Method 200	0.89	mg/L	JMR	12/31/99
Potassium	FLAA, EPA Method 25	50.5	mg/L	PJD	12/29/99
Sodium, water	FLAA, EPA 273.1	55.5	mg/L	PJD	12/29/99
Sample Analysis by Lab Id #		10350		BEN	1/02/00
Nitrogen, Nitrate	EPA Method 353.2	1.5	mg/L	BEN	1/02/00
Total Organic Carbon	EPA 415.2	38.5	mg/L	BEN	1/02/00
ICP/Flame Water Digestion	EPA Method 3010	Complete		PJD	12/28/99
008 X-1			Sample Date 12/20/1999 Time: 10:15		
Matrix: Water			Collection Method: Grab		
PART 360 ROUTINE					
Nitrogen, Kjeldahl	EPA Method 351.1	38	mg/L	JLH	12/30/99
Nitrogen, Ammonia	EPA Method 350.1	41	mg/L	JLH	1/03/00
Chemical Oxygen Demand	EPA Method 410.4	110	mg/L	SDP	12/22/99
Biochemical Oxygen Demand	EPA Method 405.1	13	mg/L	MLO	10/22/99
Total Dissolved Solids	Std. Mtd. 18th 2540	650	mg/L	MLO	12/23/99
Sulfate	EPA Method 375.4	29	mg/L	MLO	12/30/00
Alkalinity	EPA Method 310.1	530	mg/L	ACM	12/27/99
Phenols	EPA Method 420.1	14	ug/L	SDP	12/29/99
Chloride	EPA Method 325.2	82	mg/L	MLO	12/30/99
Hardness	Calculation	309	mg/L	JMR	12/31/99
Cadmium, water	ICP, EPA 200.7	<0.005	mg/L	JMR	12/31/99

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Task Number 9912-00325
Customer No. 000273
Project No. A80019
Purchase Order # ROME LF
Report Date 1/05/00

Sampling Information

Project Location: ROME LF
Sampled By: FAHRENKOPF

Date Received 12/21/99

Test Performed	Method	Results	Units	Tech	Analy. Date
008 X-1			Sample Date 12/20/1999 Time: 10:15		
Matrix:			Collection Method: Grab		
Calcium, water	ICP, EPA 200.7	63.8	mg/L	JMR	12/31/99
Lead, water	ICP, EPA 200.7	0.012	mg/L	JMR	12/31/99
Bromide in Water	EPA Method 320.1	<2	mg/L	MLO	12/30/99
Iron, water	ICP, EPA 200.7	38.2	mg/L	JMR	12/31/99
Magnesium, water	ICP, EPA 200.7	36.4	mg/L	JMR	12/31/99
Manganese, water	ICP, EPA Method 200	0.89	mg/L	JMR	12/31/99
Potassium	FLAA, EPA Method 25	48.5	mg/L	PJD	12/29/99
Sodium, water	FLAA, EPA 273.1	56.0	mg/L	PJD	12/29/99
Sample Analysis by Lab Id #		10350		BEN	1/02/00
Nitrogen, Nitrate	EPA Method 353.2	1.5	mg/L	BEN	1/02/00
Total Organic Carbon	EPA 415.2	54.4	mg/L	BEN	1/02/00
ICP/Flame Water Digestion	EPA Method 3010	Complete		PJD	12/28/99

Unless otherwise noted, samples were analyzed within the holding times specified in the analyical method.

Authorized for Release: Carol L. Gagnon
Carol L. Gagnon, Laboratory Director

NYS ELAP:10358 MA DEP:NY052 CT DEP:PH-0551

APPENDIX C

SUMMARY 1999 GROUND WATER ELEVATION DATA

Table 4A
Water Level Elevation Data, Comparisons to MW-12
Tannery Road Landfill
Rome, New York

WELL	MEASURING POINT ELEVATION (FT.)	DEPTH TO WATER (FT.)											
		2/26/1999	3/25/1999	4/30/1999	5/27/1999	6/29/1999	7/30/1999	8/24/1999	9/13/1999	10/7/1999	11/16/1999	12/20/1999	1/11/2000
MW-1S	449.59	5.24	4.20	9.86	5.36	7.54	8.24	8.78	9.05	8.63	6.54	5.43	4.25
MW-2S	459.44	6.91	5.76	7.25	7.58	9.20	9.61	10.15	10.43	8.74	7.77	6.75	5.9
MW-3S	456.40	3.55	3.42	3.83	3.72	5.05	6.82	6.71	6.98	4.39	3.9	3.69	3.56
MW-4S	456.19	5.74	3.77	4.09	4.16	5.91	7.12	7.84	8.29	5.91	4.79	4.09	3.74
MW-5S	457.15	4.80	4.01	4.85	5.10	7.43	8.26	8.04	9.57	8.71	7.46	4.98	3.8
MW-7S	452.25	9.46	9.20	8.79	9.52	10.84	11.66	12.29	12.76	12.04	11.77	10.52	9.65
MW-9S	456.38	4.06	3.80	7.09	4.09	5.88	6.96	7.51	7.82	4.62	4.15	4.03	3.78
MW-12	483.11	30.92	30.96	30.96	31.09	31.24	31.53	31.88	32.06	32.32	32.05	31.9	32.22
PZ-1	454.37	6.65	5.27	7.53	7.14	9.29	10.10	10.66	10.99	10.04	8.82	7.2	5.29

WELL	WATER LEVEL ELEVATION (FT.)											
	2/26/1999	3/25/1999	4/30/1999	5/27/1999	6/29/1999	7/30/1999	8/24/1999	9/13/1999	10/7/1999	11/16/1999	12/20/1999	1/11/2000
MW-1S	444.35	445.39	439.73	444.23	442.05	441.35	440.81	440.54	440.96	443.05	444.16	445.34
MW-2S	452.53	453.68	452.19	451.86	450.24	449.83	449.29	449.01	450.70	451.67	452.69	453.54
MW-3S	452.85	452.98	452.57	452.68	451.35	449.58	449.69	449.42	452.01	452.5	452.71	452.84
MW-4S	450.45	452.42	452.10	452.03	450.28	449.07	448.35	447.90	450.28	451.4	452.1	452.45
MW-5S	452.35	453.14	452.30	452.05	449.72	448.89	449.11	447.58	448.44	449.69	452.17	453.35
MW-7S	442.79	443.05	443.46	442.73	441.41	440.59	439.96	439.49	440.21	440.48	441.73	442.6
MW-9S	452.32	452.58	449.29	452.29	450.50	449.42	448.87	448.56	451.76	452.23	452.35	452.6
MW-12	452.19	452.15	452.15	452.02	451.87	451.58	451.23	451.05	450.79	451.06	451.21	450.89
PZ-1	447.72	449.10	446.84	447.23	445.08	444.27	443.71	443.38	444.33	445.55	447.17	449.08

WELL	WATER LEVEL ELEVATION DIFFERENCE (FT.) RELATIVE TO MW-12											
	2/26/1999	3/25/1999	4/30/1999	5/27/1999	6/29/1999	7/30/1999	8/24/1999	9/13/1999	10/7/1999	11/16/1999	12/20/1999	1/11/2000
MW-1S	7.84	6.76	12.42	7.79	9.82	10.23	10.42	10.51	9.83	8.01	7.05	5.55
MW-2S	**-0.34**	**-1.53**	**-0.04**	0.16	1.63	1.75	1.94	2.04	0.09	**-0.61**	**-1.48**	**-2.65**
MW-3S	**-0.66**	**-0.83**	**-0.42**	**-0.66**	0.52	2.00	1.54	1.63	**-1.22**	**-1.44**	**-1.50**	**-1.95**
MW-4S	1.74	**-0.27**	0.05	**-0.01**	1.59	2.51	2.88	3.15	0.51	**-0.34**	**-0.89**	**-1.56**
MW-5S	**-0.16**	**-0.99**	**-0.15**	**-0.03**	2.15	2.69	2.12	3.47	2.35	1.37	**-0.96**	**-2.46**
MW-7S	9.40	9.10	8.69	9.29	10.46	10.99	11.27	11.56	10.58	10.58	9.48	8.29
MW-9S	**-0.13**	**-0.43**	2.86	**-0.27**	1.37	2.16	2.36	2.49	**-0.97**	**-1.17**	**-1.14**	**-1.71**
MW-12	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
PZ-1	4.47	3.05	5.31	4.79	6.79	7.31	7.52	7.67	6.46	5.51	4.04	4.18

Notes:

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 one leachate monitoring well (MW-12). Water levels were not collected from leachate monitoring wells MW-10 and MW-11 due to damage to the wells.

APPENDIX D

MONTHLY INSPECTION FORMS

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 26 FEB99 Inspector: ANTHONY M. NOCE

ON SITE @ 0830 Weather: SUNNY, CLEAR, 20°F

OFF SITE 1217

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)	
	OK	
	OK	
Overall appearance (trash/litter)	(OK)	
Pump Station at Tannery Road:	Condition: (OK)	
Pump #1 Hours: 8573	Pump #2 Hours: 9951	
Leachate Collection System:		
Panel - note conditions and any alarms: (OK)		
Autodialer - test	OK	BEING SERVICED BY BELL ATLANTIC
Totallizers (on Panel display at Tannery Rd)		
RW-1 1182709	RW-3 2335751	
RW-2 1124257	RW-4 356863	
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)	2.33' TO WATER (JUST BELOW THE TOTALIZERS)
Panel note conditions and any alarms: (OK)		
Totallizers (in meter pit)		
RW-1 1177700	RW-3 434100	
RW-2 1691400	RW-4 384300	
Hour Meters		
RW-1 34220	RW-3 1143.1	
RW-2 36879	RW-4 12434	
Landfill Cover Inspection		
Leachate seeps Any new seeps NO	If (YES) describe:	JUST TO THE RIGHT OF THE LANDFILL ACCESS ROAD, WITH THE SLURRY WALL - DISCOLORED FOAMY.. FLOWING *
Western seep condition:		BARELY NOTICEABLE
North seep condition:		BARELY NOTICEABLE
Gas vents - general condition	(OK)	
- Unusual odors, list vents/describe.		SLIGHT H_2S ODOR NOTED
Flares ignited	OK	NO
Perimeter fence	(OK)	
Erosion/animal burrows NO	If (YES) describe:	NUMEROUS SMALL BURROWS (MICE or VOLES)

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 26FEB99 0830 - 1217 Inspector: ANTHONY M. NOCE

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	5.24'	444.35	
MW - 2S	459.44	6.91'	452.53	
MW - 3S	456.4 ice	3.55' **	(452.85)	
MW - 4S	456.19	5.74'	450.45	
MW - 5S	457.15	4.80'	452.35	
MW - 7S	452.25	9.46'	442.79	
MW - 9S	456.38	4.06'	452.32	
MW - 10	488.29	26.01' **	(462.28)	CONCRETE COLLAR BROKEN
MW - 11	503.95	19.51' **	(484.44)	↓
MW - 12	483.11	30.92'	452.19	
PZ - 1*	*452*	6.65'	445.35	

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

NOTES: * TOLD DAVE MARINO ABOUT THIS SEEP AND HE SUGGESTED THAT IT MAY HAVE BEEN CAUSED BY A BROKEN PIPE - HE WILL CHECK ON THIS POSSIBILITY AND CALL ME

** WELL EITHER FROZEN, DRY OR OBSTRUCTED (NO SIGNAL ON THE WATER LEVEL METER)

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 25MAR99 ONSITE@0813 OFFSITE@1706

Inspector: ANTHONY M NOCE

Weather: CLEAR, SUNNY, 30°F - LIGHT BREEZE

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	NOT PLOWED
Overall appearance (trash/litter)	(OK)	
Pump Station at Tannery Road:	Condition: (OK)	
Pump #1 Hours: 9141	Pump #2 Hours: 104316	
Leachate Collection System:		
Meter Panel at Tannery Road Entrance		
Panel - note conditions and any alarms: (OK)		
Autodialer - test	OK	
Totallizers (on Panel display at Tannery Rd)		
RW-1 1246050	RW-3 2361116	
RW-2 1222533	RW-4 377243	
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	DEPTH TO WATER: 2.19'
Panel note conditions and any alarms: (OK)		
Totallizers (in meter pit)		
RW-1 1241000	RW-3 459500	
RW-2 1795700	RW-4 404700	
Hour Meters		
RW-1 35897	RW-3 1209.8	
RW-2 38447	RW-4 1297.6	
Landfill Cover Inspection		
Leachate seeps Any new seeps (NO)	If YES, describe:	
Western seep condition:	NOT NOTICED - SNOW COVER	
North seep condition:	NOT NOTICED - SNOW COVER	
Gas vents - general condition	(OK)	
- Unusual odors, list vents/describe.		
Flares ignited	OK	NO
Perimeter fence	(OK)	
Erosion/animal burrows NO	If YES, describe:	SNOW COVER - NONE EVIDENT

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 25 MAR 99 Inspector: ANTHONY M. NOCE

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
* MW - 1S	449.59	4.20	445.39	
MW - 2S	459.44	5.76	453.68	
* MW - 3S	456.40	3.42	452.98	
* MW - 4S	456.19	3.77	452.42	
* MW - 5S	457.15	4.01	453.14	
MW - 7S	452.25	9.20	443.05	
MW-7D * MW - 9S	456.38	3.80	452.58	
* MW - 10	488.29	26.05**	(462.24**)	
MW - 11	503.95	19.48**	(484.47**)	
* MW - 12	483.11	30.96	452.15	
PZ - 1*	*452*	5.27	446.73	

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

NOTES: * INDICATES WELLS TO BE SAMPLED

AUTOCALIBRATED HORIBA U-10 @ 0925
pH 4.0 = 3.99
COND = 4640 µmhos/cm
TURB. = 0 NTU

** OBSTRUCTION IN WELL - STRONG H_2S ODOR

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 30 APRIL 99
ON SITE @ 0902
OFF SITE @ 1112

Inspector: ANTHONY M. NOCE
Weather: CLEAR, SUNNY, 62°F

GENERAL INSPECTION - To Be Completed Monthly

		Notes/Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	SEE "NOTES" SECTION ON PG. 2
Access Road - surface/paving/snow	(OK)	VERY UNEVEN - SOME RUTTING - LOSS OF GRAVEL
Overall appearance (trash/litter)	(OK)	
Pump Station at Tannery Road:	Condition: (OK)	
Pump #1 Hours: 991.2	Pump #2 Hours: 1111.3	
Leachate Collection System:		
Meter Panel at Tannery Road Entrance		
Panel - note conditions and any alarms: OK		RW-2 and RW-4 "CALL" LIT "METER PIT WATER" ALARM LIT
Autodialer - test	OK	
Totallizers (on Panel display at Tannery Rd)		
RW-1 1335906	RW-3 2395878	
RW-2 1320971	RW-4 4045084	
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	1.74' TO WATER
Panel note conditions and any alarms: OK		RW-1 RW-3 and RW-4 "CALL" LIT
Totallizers (in meter pit)		UNABLE TO READ - UNDERWATER
RW-1	RW-3	
RW-2	RW-4	
Hour Meters		
RW-1 3828.7	RW-3 1390.1	
RW-2 4066.0	RW-4 1367.8	
Landfill Cover Inspection		
Leachate seeps — Any new seeps NO		If YES, describe:
Western seep condition:		SOFT, SPONGY - NOT VISIBLY FLOWING
North seep condition:		NOT OBSERVED
Gas vents - general condition	(OK)	
- Unusual odors, list vents/describe.		
Flares ignited	(OK)	
Perimeter fence	OK	SEE "NOTES" SECTION ON PG. 2
Erosion/animal burrows NO	If (YES), describe:	MINOR - MICE/VOLES/MOLES

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 30 APR 99 Inspector: ANTHONY M. NOCE

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	9.86	439.73	
MW - 2S	459.44	7.25	452.19	
MW - 3S	456.40	3.83	452.57	
MW - 4S	456.19	4.09	452.10	
MW - 5S	457.15	4.85	452.30	
MW - 7S	452.25	8.79	443.46	
MW - 9S	456.38	4.09	452.29	
MW - 10	488.29	(26.28)		OBSTRUCTION - H_2S ODOR
MW - 11	503.95	(19.31)		OBSTRUCTION - H_2S ODOR
MW - 12	483.11	30.96	452.15	
PZ - 1*	*452*	7.53	444.47*	

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

NOTES: (1) RE: PERIMETER FENCE... INNER GATE - LINKS IN THE CHAIN USED TO SECURE THE GATE BENT SO THAT ENTRY IS POSSIBLE W/OUT UNLOCKING THE GATE; 5 MAN GATES HAVE BEEN INSTALLED - NONE ARE LOCKED, AND THE ONE LEADING TO THE MW-2 CLUSTER WAS POORLY INSTALLED (IT WILL BE POSSIBLE TO PUSH THE GATE OPEN EVEN WHEN IT IS LOCKED)

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 5/27/99 Inspector: Alan Tavenner

Weather: Clear, 60°F, several days rain preceeding

GENERAL INSPECTION - To Be Completed Monthly

		Notes/Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	mangates need locks
Access Road - surface/paving/snow	(OK)	
Overall appearance (trash/litter)	(OK)	
Pump Station at Tannery Road:	Condition: OK	
Pump #1 Hours: 1042.7	Pump #2 Hours: 1156.7	
Leachate Collection System:		
Meter Panel at Tannery Road Entrance		
Panel - note conditions and any alarms: OK		RW2, RW-4 call lights on
Autodialer - test	OK	NOT CHECKED

Totallizers (on Panel display at Tannery Rd)

RW-1 1401472 RW-3 2413609

RW-2 1324300 RW-4 424142

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	1" water on floor
Panel note conditions and any alarms: OK		RW1,3,4 call lts on; #3 Rn Lt. on but no flow @ FM

Totallizers (in meter pit)

(Read @ 9:00am 12:30pm)

RW-1 1396400 - 1396800 *1 RW-3 0515000 (0515000) *2

RW-2 ~~202~~ 2051500 - 205200 *1 RW-4 0451500 - 0451600

Hour Meters

RW-1 4003.0 4004.0 RW-3 1914.8 - 1918.1

RW-2 4232.0 4232.8 RW-4 1417.7 - 1417.9

Landfill Cover Inspection			
Leachate seeps	Any new seeps (NO)	If YES, describe:	
	Western seep condition:		Dry- Location not apparent
	North seep condition:		Moist ground- no flowing leachate
Gas vents - general condition		(OK)	
- Unusual odors, list vents/describe.			
Flares ignited		(OK)	3 have gas to burn.
Perimeter fence		(OK)	Needs locks at man-gates
Erosion/animal burrows	(NO)	If YES, describe:	No burrows

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 5/27/99 Inspector: Alan Tavernier

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	5.36	444.23	
MW - 2S	459.44	7.58	451.86	
MW - 3S	456.40	3.72	452.68	
MW - 4S	456.19	4.16	452.03	
MW - 5S	457.15	5.10	452.05	
MW - 7S	452.25	9.52	~~452.29~~ 447.73	
MW - 9S	456.38	4.09	452.29	
MW - 10	488.29	OBSTRUCTED	—	
MW - 11	503.95	OBSTRUCTED	—	
MW - 12	483.11	31.09	452.02	
PZ - 1*	~~452~~ 454.37 #3	7.14	447.23	

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

NOTES: #1 Check flows (Timed meter) RW-1 6.4 GPM ; RW-2 10.5 GPM
#2 RW-2 ran briefly (30-sec) on/off during inspection
#3 PZ-1 surveyed - shot off MW-1.

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 27 JUN 97 — Inspector: ANTHONY M. NOCE
ON SITE @ 0758 — Weather: 77°F, HEAVY OVERCAST, T-SHOWERS
OFF SITE @ 1705

GENERAL INSPECTION - To Be Completed Monthly

		Notes/Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	OK	NO LOCKS ON MAN GATES
Access Road - surface/paving/snow	(OK)	SOME MINOR RUTTING, WEEDS, GRAVEL LOSS
Overall appearance (trash/litter)	(OK)	
Pump Station at Tannery Road:	Condition: (OK)	
Pump #1 Hours: 1098.5	Pump #2 Hours: 1205.7	
Leachate Collection System:		
Meter Panel at Tannery Road Entrance		
Panel - note conditions and any alarms: OK		RW-4 - ALARM. RW-2 and RW-4 - CALL
Autodialer - test	OK	not tested
Totallizers (on Panel display at Tannery Rd)		
RW-1 1473573	RW-3 2443396	
RW-2 1324318	RW-4 472556	
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)	4" WATER IN PIT
Panel note conditions and any alarms: OK		RW-1, RW-3 and RW-4 - CALL
Totallizers (in meter pit)		
RW-1 1473500	RW-3 546000	
RW-2 2177000	RW-4 467700	
Hour Meters		
RW-1 4208.0	RW-3 2705.5	
RW-2 4423.4	RW-4 1563.7	
Landfill Cover Inspection		
Leachate seeps — Any new seeps (NO)	If YES, describe:	
Western seep condition:	DRY - LOCATION NOT APPARENT	
North seep condition:	DRY - LOCATION NOT APPARENT	
Gas vents - general condition	(OK)	
- Unusual odors, list vents/describe.		
Flares ignited	(OK)	
Perimeter fence	(OK)	
Erosion/animal burrows (NO)	If YES, describe:	

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 29 JUN 99 Inspector: ANTHONY M. NOCE

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	7.54	442.05	OK (CONCRETE COLLAR BROKEN)
MW - 2S	459.44	9.20	450.24	GOOD
MW - 3S	456.40	5.05	451.35	GOOD
MW - 4S	456.19	5.91	450.28	GOOD
MW - 5S	457.15	7.43	449.72	GOOD
MW - 7S	452.25	~~13.37~~ 10.84 corr 1 JUL 99	441.41	GOOD
MW - 9S	456.38	5.38	450.50	GOOD
MW - 10	488.29	obstructed		
MW - 11	503.95	obstructed		
MW - 12	483.11	31.24	451.87	GOOD
PZ - 1	454.37	9.29	445.08	GOOD

NOTES: AUTOCALIBRATED HORIBA U-10 @ 0701 (pH 4 = 4.00, COND = 4480 µmhos/cm, TURB = 0)

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 30 JULY 99 Inspector: ANTHONY M. NOCE

Weather: SUNNY, 80°F

ON SITE @ 0824
OFF SITE @ 1336 (to WWTP to return excess chain and bolt cutters)

GENERAL INSPECTION - To Be Completed Monthly

		Notes/Problems
General Site Condition:		
Gates - condition and locks for inner & outer gates:	(OK)	INSTALLED LOCKS/CHAINS ON MAN GATES
Access Road - surface/paving/snow	(OK)*	SOME RUTTING, SOME LOSS OF GRAVEL, ROAD IS BECOMING OVERGROWN IN PLACES
Overall appearance (trash/litter)	(OK)	
Pump Station at Tannery Road:	Condition: (OK)	
Pump #1 Hours: 1142.9	Pump #2 Hours: 1244.7	
Leachate Collection System:		
Meter Panel at Tannery Road Entrance		
Panel - note conditions and any alarms: OK		RW-2 and RW-4 - "CALL"; RW-4 - "ALARM"
Autodialer - test	OK	not tested

Totallizers (on Panel display at Tannery Rd)

RW-1	1547587	RW-3	2477019
RW-2	1324318	RW-4	442568

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)	LESS THAN 1" WATER IN PIT
Panel note conditions and any alarms: OK		RW-1, RW-3 and RW-4 - "CALL"; RW-4 - "ALARM"

Totallizers (in meter pit)

RW-1	1542500	RW-3	575400
RW-2	2289000	RW-4	469900

Hour Meters

RW-1	4392.1	RW-3	3448.6
RW-2	4593.7	RW-4	2307.0

Landfill Cover Inspection			
Leachate seeps	Any new seeps (NO)	If YES, describe:	
	Western seep condition:	NOT OBSERVED	
	North seep condition:	NOT OBSERVED	
Gas vents - general condition		(OK)	
- Unusual odors, list vents/describe.		NONE	
Flares ignited		(OK)	
Perimeter fence		(OK)	
Erosion/animal burrows	(NO)	If YES, describe:	

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 30 JUL 99 Inspector: ANTHONY M. NOCE

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	8.24	441.35	CONCRETE COLLAR CRACKED
MW - 2S	459.44	9.61	449.83	
MW - 3S	456.40	6.82	449.58	
MW - 4S	456.19	7.12	449.07	
MW - 5S	457.15	8.26	448.89	
MW - 7S	452.25	11.66	440.59	
MW - 9S	456.38	6.96	449.42	
MW - 10	488.29	—		OBSTRUCTION
MW - 11	503.95	—		OBSTRUCTION
MW - 12	483.11	31.53	451.58	
PZ - 1	454.37	10.10	444.27	

NOTES: WASP NEST IN BOTTOM RAIL OF MAIN GATE - LEFT A MESSAGE FOR DAVE MARINO WARNING HIM OF THIS

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 24 AUG 99
ON SITE @ 0900
OFF SITE @ 1128

Inspector: ANTHONY M. NOCE
Weather: SUNNY, MOSTLY CLEAR, 71°F

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	SOME RUTTING, SOME LOSS OF GRAVEL, BECOMING OVERGROWN IN PLACES
Overall appearance (trash/litter)	(OK)	NOT MOWED
Pump Station at Tannery Road:	Condition: (OK)	
Pump #1 Hours: 1176.3	Pump #2 Hours: 1274.4	

Leachate Collection System:

Meter Panel at Tannery Road Entrance

Panel - note conditions and any alarms: OK — RW-2 - CALL; RW-4 - ALARM and CALL

Autodialer - test: OK — NOT TESTED

Totallizers (on Panel display at Tannery Rd)

RW-1	1601050	RW-3	2493031
RW-2	1324318	RW-4	442603

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)	POWER OFF @ RW-4
Meter Pit - open lid, check heater, leaks, etc.	(OK)	<1" WATER IN PIT

Panel note conditions and any alarms: OK — RW-1 and RW-3 - CALL; RW-4 - ALARM and CALL

Totallizers (in meter pit)

RW-1	1596000	RW-3	597400
RW-2	2374700	RW-4	469900

Hour Meters

RW-1	4535.8	RW-3	4049.0
RW-2	4723.4	RW-4	2885.2

Landfill Cover Inspection

Leachate seeps	Any new seeps (NO)	If YES, describe:	
	Western seep condition:	NOT APPARENT - DRY	
	North seep condition:	NOT APPARENT - DRY	
Gas vents - general condition		(OK)	
- Unusual odors, list vents/describe.			
Flares ignited		(OK)	
Perimeter fence		(OK)	
Erosion/animal burrows (NO)		If YES, describe:	

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 24 AUG 99 Inspector: ANTHONY M. NOCE

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	8.78	440.81	
MW - 2S	459.44	10.15	449.29	
MW - 3S	456.40	6.71	449.69	
MW - 4S	456.19	7.84	448.35	
MW - 5S	457.15	8.04	449.11	
MW - 7S	452.25	12.29	439.96	GOOD
MW - 9S	456.38	7.51	448.87	
MW - 10	488.29	—	—	WELL DAMAGED
MW - 11	503.95	—	—	WELL DAMAGED
MW - 12	483.11	31.88	451.23	
PZ - 1	454.37	10.66	443.71	

NOTES: STRAYED WASPS' NEST IN MAIN GATE

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 13 SEPT 99 Inspector: ANTHONY M. NOCE
ON SITE @ 0827 Weather: 63°F - CLEAR, SUNNY, BREEZY
OFF SITE @ 1643

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	SOME LOSS OF GRAVEL, SOMEWHAT OVERGROWN IN SPOTS
Overall appearance (trash/litter)	(OK)	NOT MOWED
Pump Station at Tannery Road:	Condition: (OK)	
Pump #1 Hours: 1207.4	Pump #2 Hours: 1298.0	
Leachate Collection System:		
Meter Panel at Tannery Road Entrance		
Panel - note conditions and any alarms:	OK	RW-2 and RW-4 - CALL
Autodialer - test	OK	NOT TESTED
Totallizers (on Panel display at Tannery Rd)		
RW-1 1642611	RW-3 2513021	
RW-2 1370238	RW-4 442655	
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)	RW-4 PUMP UNDER REPAIR
Meter Pit - open lid, check heater, leaks, etc.	(OK)	~1" WATER IN METER PIT
Panel note conditions and any alarms:	OK	RW-1, RW-2 and RW-4 - CALL; RW-4 - ALARM
Totallizers (in meter pit)		
RW-1 1637500	RW-3 6144100	
RW-2 2440100	RW-4 469900	
Hour Meters		
RW-1 4649.6	RW-3 4527.6	
RW-2 4822.3	RW-4 2885.2	
Landfill Cover Inspection		
Leachate seeps - Any new seeps	(NO)	If YES, describe:
Western seep condition:		NOT APPARENT - DRY
North seep condition:		NOT APPARENT - DRY
Gas vents - general condition	(OK)	
- Unusual odors, list vents/describe.		
Flares ignited	(OK)	
Perimeter fence	(OK)	
Erosion/animal burrows	(NO)	If YES, describe:

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 13 SEPT 99 Inspector: ANTHONY M. NOCE

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	9.05	440.54	OK - CONCRETE COLLAR BROKEN
MW - 2S	459.44	10.43	449.01	
MW - 3S	456.40	6.98	449.42	
MW - 4S	456.19	8.29	447.90	GOOD
MW - 5S	457.15	9.57	447.58	GOOD
MW - 7S	452.25	12.76	439.49	GOOD
MW - 9S	456.38	7.82	448.56	GOOD
MW - 10	488.29	obstruction		
MW - 11	503.95	obstruction		
MW - 12	483.11	32.06	451.05	OK
PZ - 1	454.37	10.99	443.38	GOOD

NOTES:

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 7 OCT 99
ON SITE @ 1024
OFF SITE @ 1356

Inspector: ANTHONY M. NOCE
ED FAHRENKOPF

Weather: ~~50°F~~, CLEAR & SUNNY
0700 7 OCT 99 45° F

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)	loss gravel, some rutting
Overall appearance (trash/litter)	(OK)	
Pump Station at Tannery Road:	Condition: (OK)	
Pump #1 Hours: 1236.8	Pump #2 Hours: 1328.8	
Leachate Collection System:		
Meter Panel at Tannery Road Entrance		
Panel - note conditions and any alarms: (OK)		
Autodialer - test	OK	NOT TESTED
Totallizers (on Panel display at Tannery Rd)		
RW-1 1690981	RW-3 253536	
RW-2 1718215	RW-4 442655	
Panel/Wells on Landfill		
Manholes along road - general condition, erosion, overflows	(OK)	
Pump Well No's 1, 2, 3 & 4 - Well head condition/integrity Base patch 4' diameter next to RW 1	OK	RW-4 Down
Meter Pit - open lid, check heater, leaks, etc.	(OK)	
Panel note conditions and any alarms: (OK)		
Totallizers (in meter pit)		
RW-1 1685803	RW-3 633700	
RW-2 2518000	RW-4 (out) 4699003	
Hour Meters		
RW-1 ~~288~~ 47803	RW-3 5103.3	
RW-2 4939.1	RW-4 2885.2	
Landfill Cover Inspection		
Leachate seeps Any new seeps (NO)	If YES, describe:	
Western seep condition:	Not Apparent	
North seep condition:	Not Apparent	
Gas vents - general condition	(OK)	
- Unusual odors, list vents/describe.		
Flares ignited IS not burning	(OK)	
Perimeter fence	(OK)	
Erosion/animal burrows NO	If (YES), describe:	

Woodchuck borrow 75 yards from ~~Meter~~ pit top of landfill toward county landfill. Showed Dave Morino and he ~~said~~ had it filled in

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 10/7/99 Inspector: TN/ECF

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	8.63	440.96	Cement Pad Broken
MW - 2S	459.44	8.74	450.70	OK pad cracked
MW - 3S	456.40	4.39	452.01	cracked pad
MW - 4S	456.19	5.91	450.28	OK
MW - 5S	457.15	8.71	448.44	OK
MW - 7S	452.25	12.04	440.21	OK
MW - 9S	456.38	4.62	451.76	OK needs cap
MW - 10	488.29	obstructed		Obstructed
MW - 11	503.95	Obstructed		Obstructed
MW - 12	483.11	32.32	450.79	OK
PZ - 1	454.37	10.04	444.33	OK

NOTES:

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date: 10/7/99 Inspector: TN/EGF
Weather: Sunny 50°

ANNUAL GAS VENT INSPECTION (To be completed each Fall)

Gas Vent Number	H_2S (ppm)	Detectable Odors Yes	Detectable Odors No	General Vent Condition Notes/Comments
1	O		X	OK
2	O	X		slight solvent/vinegar odor OK condition
3	O	X		slight odor same as 2 ok condition
4	O		X	OK condition
5	O		X	OK condition
6	O		X	OK Condition
7	Flare			Burning
8	Flare			Burning
9	O		X	
10	Flare			Burning
11	Flare			Burning
12	Flare			Burning
13	Flare			Burning
14	O		X	OK Condition
15	Flare		Not	Burning
16	O	X		slight sweet odor condition OK
17	O		✓	OK condition
18	O		✓	OK condition
19	O		✓	OK condition
20	O		✓	OK condition 44% by volume [redacted] comb.
21	O		✓	Condition OK
22	1ppm	✓		Condition OK H_2S odor 13% by volume
23	O		✓	Condition OK
24	1ppm	✓		Condition OK H_2S 48% by volume methane
25	O		✓	Condition OK

O = no H_2S odor detected

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date: 10/7/99 Inspector: GGF/TN
Weather: Sunny

ANNUAL GAS VENT INSPECTION (To be completed each Fall)

Gas Vent Number	H_2S (ppm)	Detectable Odors Yes	Detectable Odors No	General Vent Condition Notes/Comments
26	0		✓	Condition OK
27	0		✓	Condition OK
28	0	✓		sweet odor Condition OK
29	~~2~~ 1ppm	✓		~~H2S~~ Condition OK H_2S odor
30	4 ppm	✓		Condition H_2S odor 43% by volume
31	0	✓		Condition OK sweet odor
32	0		✓	Condition OK 49% by volume
33	2ppm	✓		H_2S Condition OK
34	0		✓	Condition OK
35	0		✓	Condition OK
36	0		✓	Condition OK
37	0		✓	Condition OK
38	0		✓	Condition OK - condensation 48% by volume
39	7ppm	✓		Condition OK H_2S
40	0		✓	Condition OK
41	0		✓	Condition OK 46% by volume methane
42	0	✓	✓	Condition OK sweet odor, slight
43	0		✓	Condition OK 38% by volume
44	0		✓	Condition OK
45	0	✓	✓	Condition OK slight sweet odor
46	0		✓	Condition OK

~~0= no H_2S detected~~

0= no H_2S detected

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 11/16/99 Inspector: G. Kuric / K. O'Connor

Weather: Cloudy, cold, windy

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)	Grass mowed
Pump Station at Tannery Road:	Condition: OK	RW-2 Call
Pump #1 Hours: 1290.3	Pump #2 Hours: 1376.2	
Leachate Collection System:		
Meter Panel at Tannery Road Entrance		
Panel - note conditions and any alarms: (OK)		
Autodialer - test	(OK)	Not tested

Totallizers (on Panel display at Tannery Rd)

RW-1 1751639 RW-3 2563013

RW-2 1520333 RW-4 412655

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)	RW-4 under repair
Meter Pit - open lid, check heater, leaks, etc.	(OK)	2 1" Holes in pit
Panel note conditions and any alarms: (OK)		RW-1 ; RW-3 - Call

Totallizers (in meter pit)

RW-1 171650[illegible] RW-3 656200

RW-2 [illegible]6201[illegible]0 RW-4 469900

Hour Meters

RW-1 4945.0 RW-3 5802.7

RW-2 5092.8 RW-4 2885.2

Landfill Cover Inspection

Leachate seeps	Any new seeps (NO)	If YES, describe:	
	Western seep condition:	None	
	North seep condition:	None	
Gas vents - general condition		(OK)	
- Unusual odors, list vents/describe.			
Flares ignited		(OK)	
Perimeter fence		(OK)	
Erosion/animal burrows	(NO)	If YES, describe:	

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 11/16/99 Inspector: G. Kerzic / K. O'Connor

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	6.54'	443.05	Cracked collar
MW - 2S	459.44	7.77'	451.67	O.K.
MW - 3S	456.40	3.90'	452.50	O.K.
MW - 4S	456.19	4.79'	451.40	O.K.
MW - 5S	457.15	7.46'	449.69	O.K
MW - 7S	452.25	11.77'	440.48	O.K
MW - 9S	456.38	4.15'	452.23	O.K no cap on well casing
MW - 10	488.29	obstruction		
MW - 11	503.95	obstruction		
MW - 12	483.11	32.05'	451.06	O.K.
PZ - 1	454.37	8.82	445.55	OK.

NOTES:

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 12/29/99 1400 Inspector: EGF

Weather: Cloudy, light Rain 35°

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	✓
MW - 2S	459.44	OK	✓
Access Road - surface/paving/snow		OK	✓
Overall appearance (trash/litter)		OK	✓
Pump Station at Tannery Road:	Condition:	OK	✓
Pump #1 Hours: 01345.9	Pump #2 Hours:	01426.7	
Leachate Collection System:			
MW - 7S	452.25		
Panel - note conditions and any alarms:		OK	RW-2 Call light on
Autodialer - test		OK	Not tested

Totallizers (on Panel display at Tannery Rd) Calif 3/30/00

RW-1	~~1820493~~ 1820490	RW-3	~~2583507~~ 2583507
RW-2	~~1638004~~ 1638004	RW-4	~~4426553~~ 4426553

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	Call lights on for RW-3 & RW-2(1)

Totallizers (in meter pit)

RW-1	~~1814520.0~~ 1815200	RW-3	~~0684900~~ 0684800
RW-2	~~2737600~~ 2737600	RW-4	~~0469900~~ 0469900

Hour Meters

RW-1	~~5~~ 132.9	RW-3	6615.2
RW-2	5270.9	RW-4	2995.2

Note Call lights on for RW-3 & RW-1

Landfill Cover Inspection

Leachate seeps	Any new seeps (NO)	If YES, describe:	
	Western seep condition:	ok no seep	
	North seep condition:	ok no seep	
Gas vents - general condition		OK	OK
- Unusual odors, list vents/describe.			sulfidy
Flares ignited	Not all	OK	✓
Perimeter fence	OK	OK	✓
Erosion/animal burrows	(NO)	If YES, describe:	

TANNERY ROAD LANDFILL, ROME, NY
INSPECTION CHECKLIST

Date & Time: 12/20/99 Inspector: GLF

Monitoring Well Water Level Data

WELL No	Measure Pt Elev.	Depth to Water (ft)	Groundwater Elevation (ft)	Well Condition
MW - 1S	449.59	5.43	444.16	OK
MW - 2S	459.44	6.75	452.69	OK
MW - 3S	456.4	3.69	452.71	OK
MW - 4S	456.19	4.09	452.10	OK
MW - 5S	457.15	4.98	452.17	OK
MW - 7S	452.25	10.52	441.73	OK
MW - 9S	456.38	4.03	452.35	OK
MW - 10	488.29	~~Damaged~~	~~451.21~~	
MW - 11	503.95	Damaged		
MW - 12	483.11	31.90	451.21	OK
PZ - 1*	*452*	7.20	447.17	OK

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

NOTES:

APPENDIX E

QUARTERLY LEACHATE FLOW DATA SUMMARIES

Table 5
Operational Data Summary
Tannery Road Landfill
Rome, New York

Pump Station at Tannery Road

Hour Meters

	02/26/99	03/25/99	04/30/99	*Total Hours Operated, 02/26/99 - 04/30/99*
Pump #1	859.3	914.1	991.2	131.9
Pump #2	995.1	1,043.6	1,111.3	116.2

Leachate Collection System

Totalizers on Panel Display at Tannery Road Gate

	02/26/99	03/25/99	*Total Flow, 02/26/99 - 03/25/99*	04/30/99	*Total Flow, 03/25/99 - 04/30/99*
RW-1	1182709	1246050	633410	1335906	89,856.0
RW-2	1124257	1222533	982760	1320971	98,438.0
RW-3	2335751	2361116	253650	2395878	34,762.0
RW-4	356863	377243		404504	27,261.0

Totalizers in Meter Pit

	02/26/99	03/25/99	*Total Flow, 02/26/99 - 03/25/99*	04/30/99	*Total Flow, 03/25/99 - 04/30/99*
RW-1	1177700	1241000	633000	N/A	N/A
RW-2	1691400	1795700	1043000	N/A	N/A
RW-3	434100	459500	254000	N/A	N/A
RW-4	384300	404700	204000	N/A	N/A

Note: Totalizer readings are not available for 4/30/99 because of the high water level in the meter pit.

Hour Meters

	02/26/99	03/25/99	04/30/99	*Total Hours Operated, 02/26/99 - 04/30/99*
RW-1	3422.0	3589.7	3828.7	406.7
RW-2	3687.9	3844.7	4066.0	378.1
RW-3	1143.1	1209.8	1390.1	247.0
RW-4	1243.4	1297.6	1367.8	124.4

Table 5
Operational Data Summary
Tannery Road Landfill
Rome, New York

Pump Station at Tannery Road

Hour Meters

	07/30/99	08/24/99	09/13/99	10/07/99	*Total Hours Operated, 07/30/99 - 10/07/99*
Pump #1	1,142.9	1,176.3	1,202.4	1,236.8	93.9
Pump #2	1,244.7	1,274.4	1,298.0	1,328.8	84.1

Leachate Collection System

Totalizers on Panel Display at Tannery Road Gate

	07/30/99	08/24/99	09/13/99	10/07/99	*Total Flow, 07/30/99 - 10/07/99*
RW-1	1547587	1601050	1642611	1690981	143,394.0
RW-2	1324318	1324318	1340238	1418215	93,897.0
RW-3	2477049	2493031	2513021	2535360	58,311.0
RW-4	442568	442603	442655	442655	87.0

Totalizers in Meter Pit

	07/30/99	08/24/99	09/13/99	10/07/99	*Total Flow, 07/30/99 - 10/07/99*
RW-1	1542500	1596000	1637500	1685800	143,300.0
RW-2	2289000	2374700	2440100	2518000	229,000.0
RW-3	575400	597400	614400	633700	58,300.0
RW-4	469900	469900	469900	469900	0.0

Hour Meters

	07/30/99	08/24/99	09/13/99	10/07/99	*Total Hours Operated, 07/30/99 - 10/07/99*
RW-1	4392.1	4535.8	4649.6	4780.3	244.5
RW-2	4593.7	4723.4	4822.3	4939.1	215.7
RW-3	3448.6	4049.0	4527.6	5103.3	1,054.3
RW-4	2307.0	2885.2	2885.2	2885.2	0.0

Table 5
Operational Data Summary
Tannery Road Landfill
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Pump Station at Tannery Road

Hour Meters

	04/30/99	05/27/99	06/29/99	07/30/99	*Total Hours Operated, 04/30/99 - 07/30/99*
Pump #1	991.2	1,042.7	1,098.5	1,142.9	151.7
Pump #2	1,111.3	1,156.7	1,205.7	1,244.7	133.4

Leachate Collection System

Totalizers on Panel Display at Tannery Road Gate

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	04/30/99	05/27/99	06/29/99	07/30/99	*Total Flow, 04/30/99 - 07/30/99*
RW-1	1335906	1401472	1478578	1547587	211,681.0
RW-2	1320971	1324300	1324318	1324318	3,347.0
RW-3	2395878	2413609	2443396	2477049	81,171.0
RW-4	404504	424142	442556	442568	38,064.0

Totalizers in Meter Pit

	04/30/99	05/27/99	06/29/99	07/30/99	*Total Flow, 05/27/99 - 07/30/99*
RW-1	N/A	1396400	1473500	1542500	146,100.0
RW-2	N/A	2051500	2177100	2289000	237,500.0
RW-3	N/A	515000	546800	575400	60,400.0
RW-4	N/A	451500	469900	469900	18,400.0

Note: Totalizer readings were not available for 4/30/99 because of the high water level in the meter pit.

Hour Meters

	04/30/99	05/27/99	06/29/99	07/30/99	*Total Hours Operated, 04/30/99 - 07/30/99*
RW-1	3828.7	4003.0	4208.0	4392.1	389.1
RW-2	4066.0	4232.0	4423.4	4593.7	361.7
RW-3	1390.1	1914.8	2705.5	3448.6	1,533.8
RW-4	1367.8	1417.7	1563.9	2307.0	889.3

Table 5
Operational Data Summary
Tannery Road Landfill
Rome, New York

Pump Station at Tannery Road

Hour Meters

	10/07/99	11/16/99	12/20/99	1/11/2000	*Total Hours Operated, 10/07/99 - 01/11/00*
Pump #1	1,236.8	1,290.3	1,345.9	1385.2	148.4
Pump #2	1,328.8	1,376.8	1,426.7	1,462.2	133.4

Leachate Collection System

Totalizers on Panel Display at Tannery Road Gate

	10/07/99	11/16/99	12/20/99	1/11/2000	*Total Flow, 10/07/99 - 01/11/00*
RW-1	1690981	1751639	1820493	1865063	174,082.0
RW-2	1418215	1520333	1638004	1715313	297,098.0
RW-3	2535360	2563013	2583507	2603776	68,416.0
RW-4	442655	442655	442655	442655	0.0

Totalizers in Meter Pit

	10/07/99	11/16/99	12/20/99	1/11/2000	*Total Flow, 10/07/99 - 01/11/00*
RW-1	1685800	1746500	1815200	1859900	174,100.0
RW-2	2518000	2620100	2737600	2815100	297,100.0
RW-3	633700	656200	684800	705100	71,400.0
RW-4	469900	469900	469900	469900	0.0

Hour Meters

	10/07/99	11/16/99	12/20/99		*Total Hours Operated, 10/07/99 - 01/11/00*
RW-1	4780.3	4945.0	5132.9	5245.1	300.1
RW-2	4939.1	5092.8	5270.9	5388.4	295.6
RW-3	5103.3	5802.7	6615.2	7143.1	1,340.4
RW-4	2885.2	2885.2	2885.2	2885.2	0.0