CITY OF ROME

TANNERY ROAD LANDFILL

OFF-SITE INVESTIGATON REPORT

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

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TABLE OF CONTENTS

List of Tables

List of Figures

List of Appendices

1.0 INTRODUCTION

Pursuant to a request by the New York State Department of Environmental Conservation (NYSDEC), the City of Rome has completed an investigation to determine the potential presence of any seeps (ground water discharge locations) on properties adjacent to the landfill that may exhibit impacts from landfill related chemicals. The investigation was implemented by Delaware Engineering, PC, pursuant to the September 2002 work plan (City of Rome, Tannery Road Landfill Off Site Investigation Work Plan).

The following tasks were implemented during this investigation:

- Off-Site reconnaissance
- Collection and analysis of aqueous samples from seven seep locations
- Collection and analysis of sediment samples from three of the seven seep locations.
- Collection and analysis of three surface water and three sediment samples from Canada Creek.

Results from the investigation are presented in the sections that follow.

2.0 OFF-SITE RECONNAISANCE

A reconnaissance of the area within a half-mile radius of the landfill for the presence of ground water seeps was conducted on April 30, 2003 and May 5, 2003. If a seep exhibited iron precipitation or field parameter measurements (pH, conductivity) above background ground water values it was considered a potentially impacted seep. The locations of off-site seeps identified during the field reconnaissance are depicted on Figure 1.

Four seeps; SP-1, SP-9, SP-7 and the drainage feature located along the railroad bed trail (Trail seep) exhibited significant iron precipitation. Photographs of each of these areas are provided in Appendix B.

SP-1, SP-9 and the drainage feature along the railroad bed all merge on the west side of Tannery Road. The flow crosses under Tannery Road via a culvert and discharges to Canada Creek, adjacent to and on the south side of the railroad bed. The flow from these seeps flows through a well defined drainage feature to Canada Creek. These seeps may potentially represent natural areas of ground water discharge that would be present without any increase in ground water elevations associated with the landfill. Surface water and a sediment sample were collected at the SP-1 location and from the drainage located along the railroad bed (Trail).

The SP-7 seep is located east of the City of Rome landfill and the Herkimer County Ash landfill, on the west side of Tannery road, north of the landfill entrance. The seep flows east under Tannery Road via a culvert and discharges to Canada Creek. Surface water and a sediment sample were collected at the SP-7 location. The flow from seep area SP-7 flows through a well defined drainage feature to Canada Creek. This seep may potentially represent a natural area of ground water discharge that would be present without the presence of any increase in ground water elevations associated with the landfill.

An area of standing water with some iron staining and iron floc (SP-2) was observed northeast of the landfill, just east of the landfill fence. This area exhibited significantly less iron precipitation than the seeps (SP-1, SP-9, Trail and SP-7) located further east of the landfill and therefore a sample was not collected at this location.

Two small areas of limited staining, SP-3 and SP-4, were observed on the west side of the landfill, just outside the fence, along the edge of the wetland. Surface water and a sediment sample were collected at the SP-4 location at the edge of the wetland.

Two seeps, SP-5 and SP-8 are located approximately 1,400 feet south of the landfill at the west end of a wetland area. There was no significant staining in either area. Both seeps appear to represent natural surface water expressions. A sample was collected at the SP-8 location to provide documentation that the landfill is not having an impact on surface waters located south of the landfill.

SP-6 is located at the northwest end of the constructed wetland located south of the landfill. The seep area is located just outside the landfill fence. Surface water and a sediment sample were collected at this location.

A small pond is located approximately 1,500 feet southwest of the landfill entrance. There was no visible staining in the pond and field pH (6.9) and conductivity (100 uhmos/cm) were consistent with background values. No sample was collected from the pond.

The banks of Canada Creek were examined from the bridge on Tannery Road downstream approximately 1,500 feet. With the exception of the flow from SP-1 and SP-7, only one additional seep (CCSP) was observed. The CCSP seep was located on the west bank of Canada Creek between the SP-1 and SP-7 discharges to Canada Creek. The seep emanated from a debris pile located approximately 50 feet from the stream bank. The source of this seep is potentially the existing debris pile and not the Tannery Road landfill. The flow from this seep into Canada Creek was significantly less than the flows from SP-1 and SP-7. Since samples were collected in Canada Creek downstream of the SP-1 and SP-7 flows, no sample was collected downstream of this seep.

Surface water and sediment samples were collected from Canada Creek, immediately downstream from where the SP-1 and SP-7 flows discharged to Canada Creek. A surface water and sediment sample were also collected upstream of the landfill, on the south side of the Tannery Road bridge over Canada Creek.

3.0 SEEP SURFACE WATER ANALYTICAL RESULTS

The surface water analytical data for the surface water seep samples are presented in Tables 1 and 2. The SP-1 seep water sample was analyzed for the NYSDEC Target Compound List (TCL) organic compounds, the Target Analyte List (TAL) inorganics and the NYSDEC Part 360 Routine leachate indicator parameters. The Trail water sample was analyzed for the NYSDEC TCL organic compounds, the NYSDEC Part 360 Routine leachate indicator parameters and several metals. Samples SP-4, SP-6, SP-7 and SP-8 were analyzed for the NYSDEC TCL volatile organic compounds and the Part 360 Routine leachate indicator parameters.

Analytical results are compared to the NYSDEC surface water standards, primarily the standard based on human water source {H(WS)} where available. Values that exceed the standard are highlighted in bold in the tables.

The SP-1, Trail and SP-6 seep samples exhibited ammonia concentrations that were above the surface water/ground water standard (2.0 mg/L). The SP-7 ammonia concentration was just below the surface water/ground water standard and was higher than the ammonia concentration typically present in natural surface waters.

The total phenols concentration in the SP-4 seep sample was higher than the surface water standard. However, total phenols were not detected in the samples from SP-1, SP-7 or the Trail seep sample, all of which exhibited ammonia concentrations that were higher than the SP-4 ammonia concentration. The total phenols reported in the SP-4 sample may not be related to landfill leachate.

The iron concentration in all six seep samples and the manganese concentration in all seep samples except SP-8, were above the surface water standard. The SP-1 antimony concentration was higher than the surface water standard. No volatile organic, semi-volatile organic or pesticide/PCBs were detected in any of the seep samples.

Ammonia is present at elevated concentrations in the landfill leachate. The detection of ammonia at elevated concentrations in the SP-1, Trail, SP-6 and SP-7 samples is indicative that these discharges are affected by leachate or contaminated ground water during at least some period of time during the year.

The manganese reported in the seep samples is most likely to a significant extent naturally derived. Sample SP-4 exhibited the highest manganese concentration and one of the lowest ammonia concentrations. The manganese concentration reported in the SP-4 seep sample was higher than concentrations reported in the LW-10 and LW-12 landfill leachate wells.

4.0 SEEP SEDIMENT DATA

The seep sediment data are presented in Tables 3 and 4. Seep sediment samples were collected at seep aqueous locations SP-1, Trail and SP-7. The SP-1 SED and the Trail-

SED samples were analyzed for the NYSDEC TCL/TAL parameters and the Part 360 leachate indicator parameters. The SP-7 sample was analyzed for the Part 360 Volatile leachate indicator parameters and the NYSDEC TCL volatile organics.

Sediment data are compared to the NYSDEC sediment screening criteria and the USEPA generic Soil Screening Levels (SSLs) for residential scenario (the lower of the ingestion-dermal value or the inhalation value) and the migration to ground water scenario (20 fold dilution attenuation factor). If a chemical was not detected at or above the laboratory reporting limit in all three seep sediment samples, then the NYSDEC sediment screening criteria and the USEPA SSLs were not provided in the table.

Sediment sample SP-1 SED was a black sandy silt with some organic debris (decaying leaves and vegetation). Sample SP-7 SED was a black to gray silty sand mixed with a red iron floc, with some organic debris. The Trail Sed sample was a brown fine sand with an orange discoloration.

No seep sediment chemical concentrations were above the USEPA generic residential SSLs. The data indicate that contact with the sediments does not represent a threat to public health. Contact with sediments by recreational users of the trail adjacent to the drainage ditch where the trail sediment sample was collected, does not represent a significant public health threat.

The SP-7 sediment sample cadmium, lead and manganese concentrations were higher than the NYSDEC sediment screening criteria lowest effect levels, but were less than the respective severe effect levels. The SP-7 sediment iron concentration was above the NYSDEC severe effect level. The NYSDEC metals sediment criteria are based on protection of aquatic life. The lowest effect level indicates a level of sediment contamination that can be tolerated by the majority of benthic organisms, but may still cause toxicity to a few species. The severe effect level indicates concentrations that will produce a pronounced impact on sediment benthic communities.

The SP-7 seep is an unclassified intermittent drainage that does not represent a significant aquatic habitat. However, SP-7 discharges to Canada Creek. Therefore a surface water and sediment sample were collected from Canada Creek immediately downstream from where SP-7 discharged to Canada Creek. Canada Creek surface water and sediment data are discussed in Section 5.0.

5.0 CANADA CREEK SURFACE WATER AND SEDIMENT DATA

Surface water and sediment samples were collected at three locations on Canada Creek: upstream of the landfill on the downstream side of the bridge on Tannery Road (Sample ID CC-up/CCUPSED); approximately 50 feet downstream of where the flow from seep SP-1, seep SP-9 and the trail drainage channel adjacent to the abandoned railroad bed enter Canada Creek (Sample ID CC-1/CC-1 SED); and approximately 50 feet downstream from where the flow from SP-7 enters Canada Creek (Sample ID CCDN/CCDNSED). All samples were analyzed for the NYSDEC TCL volatile organics

and the NYSDEC Part 360 routine parameters. Sampling locations are depicted on Figure 1.

5.1 Canada Creek Surface Water Data

Canada Creek surface water data are summarized in Table 5. Downstream Canada Creek surface water sample chemical concentrations were generally consistent with upstream concentrations.

No volatile organic compounds were detected in any of the surface water samples collected from Canada Creek. With the exception of total phenols in the Canada Creek downstream sample CCDn, no analyte concentrations in any of the surface water samples were above the NYSDEC applicable surface water standards. Total phenols were reported in the Canada Creek CCDn downstream sample at a concentration of 0.0023 mg/L, which is just above the laboratory reporting limit of 0.002 mg/L and the NYSDEC surface water standard of 0.001 mg/L. The 0.001 mg/L standard is based on potential aesthetic impacts on potable water and Canada Creek is not used as a potable water source.

Based on the data from the chemical analyses that were performed, The Canada Creek surface water data indicate that the closed City of Rome, Tannery Road landfill is not having a significant impact on Canada Creek surface water quality.

5.2 Canada Creek Sediment Data

Canada Creek sediment data were collected at the same locations as the surface water samples. Sediment samples were collected from the surface of the streambed to a depth of approximately six inches. At all three locations the material was silt with some sand and gravel.

Analytical results are summarized in Table 6. The table includes applicable NYSDEC sediment screening criteria chemical concentrations. If a chemical was not detected at or above the laboratory reporting limit in all three sediment samples, the NYSDEC sediment screening criteria value is not provided in the table.

With the exception of manganese in the Canada Creek upstream sample (CCUPSED), no Canada Creek sediment sample metal concentrations were above the applicable NYSDEC lowest effect level concentrations. The downstream Canada Creek CC-1 SED sample chloride, TKN, TOC, calcium and magnesium concentrations were higher than the upstream Canada Creek sediment sample concentrations. However, the CC-1 SED concentrations were consistent with background concentrations typically present in natural uncontaminated soils. The reported concentrations do not represent a threat to aquatic life or human health. The downstream sediment data indicate that the City of Rome, Tannery Road landfill has not had a significant impact on sediment quality with respect to the parameters tested.

Parameter	Natural Soil Background Concentration Range (ppm)	CC-1 Sediment Concentration (ppm)
Chloride*	10 – 1,000	74
Total Nitrogen*	200 – 5,000	786 (TKN + Nitrate)
Calcium**	130 - 35,000	2,600
Magnesium**	1,700 – 4,000	2,200

* Source: Brady, N.C., The Nature and Properties of Soils, 8th Edition, 1974, Macmillian Publishing, Co., Inc.

** Source: NYSDEC, McGovern, C. E., Background Concentrations of 20 Elements in Soils With Special Regard For New York State.

6.0 SUMMARY AND CONCLUSIONS

This section presents a summary of the data gathered during the off-site investigation and provides conclusions reached based on the data.

6.1 SUMMARY

During the off-site reconnaissance, several small seeps were observed around the perimeter of the landfill (SP-2, SP-3, SP-4 and SP-6), with more significant seeps present northeast and east of the landfill. Three seeps, SP-1, the seep adjacent to the railroad bed trail (Trail) and seep SP-9, located northeast of the landfill, merge on the west side of Tannery Road. The flow crosses under Tannery Road via a culvert and discharges to Canada Creek, adjacent to and on the south side of the railroad bed. Seep SP-7 is located immediately east of the landfill, on the west side of Tannery road, north of the landfill entrance. Seep SP-7 flows east under Tannery Road via a culvert and discharges to Canada Creek. Surface water and a sediment sample were collected at the SP-7 location. SP-5 and SP-8 were located approximately 1,400 feet south of the landfill at the west end of a wetland area located south of the landfill. There was no significant staining in either area. Both seeps appear to represent natural surface water expressions.

Ammonia, iron and manganese were detected at elevated concentrations in the SP-1, Trail, SP-6 and SP-7 samples. The data is indicative that these discharges are affected by leachate or contaminated ground water during at least some period of time during the year.

No seep sediment chemical concentrations were above the USEPA generic residential SSLs. The data indicate that contact with the sediments does not represent a threat to public health. Contact with sediments by recreational users of the trail adjacent to the drainage ditch where the trail sediment sample was collected, does not represent a significant public health threat.

The banks of Canada Creek were examined from the bridge on Tannery Road downstream approximately 1,500 feet. With the exception of the flow from SP-1 and SP-7, there was only one additional seep (CCSP) observed. The CCSP seep was located on the west bank of Canada Creek between the SP-1 and SP-7 discharges to Canada Creek. The seep emanated from a debris pile located approximately 50 feet from the stream bank. The source of this seep is potentially the existing debris pile and not the Tannery Road landfill. Surface water and sediment samples from Canada Creek were collected at three locations: upstream of the landfill; approximately 50 feet downstream of where the flow from seep SP-1, seep SP-9 and the drainage channel adjacent to the abandoned railroad bed enter Canada Creek; and approximately 50 feet downstream from where the flow from SP-7 enters Canada Creek.

Based on the data from the chemical analyses that were performed, The Canada Creek surface water data indicate that the closed City of Rome, Tannery Road landfill is not having a significant impact on Canada Creek surface water quality. With the exception of manganese in the Canada Creek upstream sample, no Canada Creek sediment sample metal concentrations were above the applicable NYSDEC lowest effect level concentrations. Although the downstream Canada Creek CC-1 SED sample chloride, TKN, TOC, calcium and magnesium concentrations were higher than the upstream Canada Creek sediment sample concentrations, the CC-1 SED concentrations were consistent with background concentrations typically present in natural uncontaminated soils. The reported concentrations do not represent a threat to aquatic life or human health. The downstream sediment data indicate that the City of Rome, Tannery Road landfill has not had a significant impact on sediment quality with respect to the parameters tested.

6.2 CONCLUSIONS

The following conclusions are provided based on the data gathered during the implementation of the off-site investigation.

- There are several areas located northeast and east of the Tannery Road landfill (SP-1, SP-7, Trail) where ground water discharges (seeps) exhibit concentrations of leachate indicator parameters that exceed surface water standards. Data indicate that ground water contamination associated with landfill leachate is having an impact on water quality at these locations.

- Sediment concentrations at the seeps northeast and east of the landfill are below USEPA residential generic soil screening levels. For the chemicals tested, incidental contact with the seep sediments does not represent a human health threat.

- With the exception of a localized seep (SP-6) immediately adjacent to the landfill, surface waters south of the landfill do not exhibit elevated concentrations of landfill related chemicals. The landfill is not having an impact surface water quality south of the landfill.

- The seep (SP-4) located at the western edge of the landfill exhibits elevated concentrations of typical leachate indicator parameters. This seep flows only during periods of high ground water levels in the spring and is not present from early summer through the winter months.

- The landfill is not having a significant impact on Canada Creek surface water or sediment quality. Canada Creek surface water and sediment concentrations, immediately downstream of two discharges that originate from impacted seep locations, are consistent with upstream concentrations.

7.0 RECOMMENDATIONS

- Based on the expanded ground water monitoring performed in March 2003 (results were presented in the March 2003 quarterly monitoring report), monitoring well MW-2D should be added to the routine quarterly monitoring. It is anticipated that quarterly sampling of ground water from monitoring well MW-2D will begin in March 2004.

- Obtain access to the Herkimer County Ash Landfill ground water monitoring wells to enable collection of ground water elevation data on a monthly basis in conjunction with the monthly City of Rome landfill ground water elevation monitoring.

- Pursuant to the request from the New York State Department of Environmental Conservation, conduct a supplemental feasibility/remedial design study to evaluate potential alternatives that would provide additional leachate collection and treatment and minimize off-site migration of leachate/impacted ground water.

- Pursue with the New York State Department of Environmental Conservation potential funding sources for a supplemental feasibility/remedial design study.

TABLES

Table 1
Leachate Seep Analytical Data
City of Rome
Tannery Road Landfill: Off-Site Leachate Seep Evaluation

Sample ID	SP-1	Trail	SP-4	SP-6	SP-7	SP-8	NYSDEC Surface Water Standard
Field or Physical							
Conductivity (μmhos/cm)	490	359	630	549	590	70	NS
pH (s.u.)	6.7	7.3	7.0	6.6	7.1	**6.2**	6.5-8.5
Temperature (deg C)	9.6	18.1	17	14.5	1407	12.5	NS
Turbidity (NTU)	50	2	200	290	14.7	2	****
Dissolved Oxygen	4.0	7.7	3.2	4.3	7.4	5.3	NA
Part 360 Leachate Indicator (mg/L)							
Ammonia-Nitrogen	**3.72**	**13**	1.0	**2.0**	1.9	0.1	2 H(WS)t
Biochemical Oxygen Demand	5	<4	21	<10	8.2	<4	NS
Bromide	<1	<0.1	<0.1	<0.1	0.29	<0.1	2 H(WS)t
Chemical Oxygen Demand	38.4	40	200	140	53	77	NS
Chloride	27.1	18	2.7	4.3	23	3	250 H(WS)t
Nitrate-Nitrogen	0.15	0.14	1.1	0.32	0.44	1.7	10 H(WS)t
Sulfate	48.5	18	2.4	20	20	3.5	250 H(WS)t
Total Alkalinity	130	72	260	220	140	28	NS
Total Dissolved Solids	250	230	320	380	250	100	500
Total Hardness	125	100	270	280	140	40	NS
Total Kjeldahl Nitrogen	4.48	12	8.4	4.7	1.9	1.3	NS
Total Organic Carbon	17	14	42	42	18	29	NS
Total Phenols	<0.002	<0.002	**0.0082**	<0.002	<0.002	<0.002	0.001
Cyanide	<0.01						0.2 H(WS)t
Part 360 Routine Metals (mg/L)							
Cadmium	<0.0006	<0.01	<0.01	<0.01	<0.01	<0.01	0.005 H(WS)t
Calcium	38.4	27	82	76	44	12	NS
Iron	**29.4**	**5.5**	**80**	**38**	**1.7**	**1.7**	0.3 A(C)
Lead	<0.0021	<0.01	<0.01	<0.01	<0.01	<0.01	0.05 H(WS)t
Magnesium	7.17	8.1	16	22	8.4	2.5	35 H(WS)t
Manganese	**0.408**	**1.6**	**2.9**	**1.7**	**0.38**	0.22	0.3 (EG)t
Potassium	6.83	14	7.3	4.6	11	1.4	NS
Sodium	18.4	19	2.6	5.7	20	1.2	NS
Aluminum	0.274	0.253					0.1 A(C)***
Antimony	**0.0085**	<0.0077					0.003 H(WS)t
Arsenic	<0.0021	<0.01					0.05 H(WS)t
Barium	0.338	0.17					1 H (WS)t
Beryllium	<0.0002						0.003 H(WS)t
Chromium	<0.0052	<0.0007					0.05 H(WS)t
Cobalt	<0.0013	0.0016					0.005 A(C)
Copper	0.061	<0.007					0.2 H(WS)t
Mercury	<0.0001						0.0007 H(WS)t
Nickel	<0.001	0.0042					0.1 H(WS)t
Selenium	R	<0.01					0.01 H(WS)t
Silver	<0.001	<0.001					0.05 H(WS)t
Thallium	<0.004	<0.01					0.0005 (GV) H(WS)t
Vanadium	<0.0117	<0.01					0.014 A(C)
Zinc	0.247	0.0186					2 H(WS)t

Table 1
Leachate Seep Analytical Data
City of Rome
Tannery Road Landfill: Off-Site Leachate Seep Evaluation

Sample ID	SP-1	Trail	SP-4	SP-6	SP-7	SP-8	NYSDEC Surface Water Standard
Volatile Organics (ug/L)							
1,1,1-Trichloroethane	<5	<5	<5	<5	<5	<5	5 H(WS)t
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	<5	<5	0.2 (GV) H(WS)t
1,1,2-Trichloroethane	<5	<5	<5	<5	<5	<5	1 H(WS)t
1,1-Dichloroethane	<5	<5	<5	<5	<5	<5	5 H(WS)t
1,1-Dichloroethene	<5	<5	<5	<5	<5	<5	0.7 (GV) H(WS)t
1,2-Dichloroethane	<5	<5	<5	<5	<5	<5	0.6 H(WS)t
1,2-Dichloroethene (total)	<5	<5	<5	<5	<5	<5	5 H(WS)t**
1,2-Dichloropropane	<5	<5	<5	<5	<5	<5	1 H(WS)t
2-Butanone	<10	<10	<10	<10	<10	<10	50 (GV) H(WS)t
2-Hexanone	<10	<10	<10	<10	<10	<10	NS
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	NS
Acetone	<10	<10	<10	<10	<10	<10	50 (GV) H(WS)t
Benzene	<5	<5	<5	<5	<5	<5	1 H(WS)t
Bromodichloromethane	<5	<5	<5	<5	<5	<5	50 (GV) H(WS)t
Bromoform	<5	<5	<5	<5	<5	<5	50 (GV) H(WS)t
Bromomethane	<5	<5	<5	<5	<5	<5	5 H(WS)t
Carbon Disulfide	<5	<5	<5	<5	<5	<5	60 (GV H(WS)t
Carbon Tetrachloride	<5	<5	<5	<5	<5	<5	0.4 (GV) H(WS)t
Chlorobenzene	<5	<5	<5	<5	<5	<5	5 H(WS)t
Chloroethane	<5	<5	<5	<5	<5	<5	5 (GV) H(WS)t
Chloroform	<5	<5	<5	<5	<5	<5	7 H(WS)t
Chloromethane	<5	<5	<5	<5	<5	<5	5 H(WS)t
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	0.4 H(WS)**
Dibromochloromethane	<5	<5	<5	<5	<5	<5	50 (GV) H(WS)t
Ethylbenzene	<5	<5	<5	<5	<5	<5	5 H(WS)t
Methylene Chloride	<5	<10	<10	<10	<10	<10	5 H(WS)t
Styrene	<5	<5	<5	<5	<5	<5	5 (GV) H(WS)t
Tetrachloroethene	<5	<5	<5	<5	<5	<5	0.7 (GV) H(WS)t
Toluene	<5	<5	<5	<5	<5	<5	5 (GV) H(WS)t
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	0.4 H(WS)**
Trichloroethene	<5	<5	<5	<5	<5	<5	5 H(WS)t
Vinyl Chloride	<5	<5	<5	<5	<5	<5	0.3 (GV) H(WS)t
Xylene (total)	<5	<5	<5	<5	<5	<5	5 H(WS)t

1) < indicates that the parameter was not detected at or above the reporting limit indicated.
2) A (C) indicates chronic aquatic based standard.
3) H(WS) indicates human health based standard.
4) *No increase that will cause a substantial visible contrast to natural conditions.
5) NS indicates that no standard has been promulgated.
6) Values outlined in bold exceeded the applicable NYSDEC surface water standard/guidance value.
7)** Indicates applies to the sum of the isomers
8) "t" indicates standard based on Class A and AA type suface water
9) "J" Indicates estimated concentration below the PQL but above the instrument detection limit, or based on data validation.
10) "EG" indicates standard for Aesthetics fresh waters (E) and human health or Aesthetics (G)
11) *** Standard applies to ionic aluminum
12) "R" indicates rejected based on data validation

Table 2
Leachate Seep Semi-Volatile and Pesticide/PCB Analytical Data
City of Rome
Tannery Road Landfill: Off-Site Leachate Seep Evaluation

Compound (ug/L)	SP-1	Trail
Phenol	<5	<6
bis(2-Chloroethyl)Ether	<5	<6
2-Chlorophenol	<5	<6
1,3-Dichlorobenzene	<5	<6
1,4-Dichlorobenzene	<5	<6
1,2-Dichlorobenzene	<5	<6
2-Methylphenol	<5	<6
2,2'-oxybis(1-Chloropropane)	<5	<6
4-Methylphenol	<5	<6
N-Nitroso-di-n-propylamine	<5	<6
Hexachloroethane	<5	<6
Nitrobenzene	<5	<6
Isophorone	<5	<6
2-Nitrophenol	<5	<6
2,4-Dimethylphenol	<5	<6
2,4-Dichlorophenol	<5	<6
1,2,4-Trichlorobenzene	<5	<6
Naphthalene	<5	<6
4-Chloroaniline	<5	<6
Hexachlorobutadiene	<5	<6
bis(2-Chloroethoxy)methane	<5	<6
4-Chloro-3-Methylphenol	<5	<6
2-Methylnaphthalene	<5	<6
Hexachlorocyclopentadiene	<5	<6
2,4,6-Trichlorophenol	<5	<6
2,4,5-Trichlorophenol	<5	<6
2-Chloronaphthalene	<5	<6
2-Nitroaniline	<25	<28
Dimethylphthalate	<5	<6
Acenaphthylene	<5	<6
2,6-Dinitrotoluene	<5	<6
3-Nitroaniline	<25	<28
Acenaphthene	<5	<6
2,4-Dinitrophenol	<25	<28
4-Nitrophenol	<25	<28
Dibenzofuran	<5	<6
2,4-Dinitrotoluene	<5	<6
Diethylphthalate	<5	<6
4-Chlorophenyl-phenylether	<5	<6
Fluorene	<5	<6
4-Nitroaniline	<25	<28
4,6-Dinitro-2-methylphenol	<25	<28
N-Nitrosodiphenylamine	<5	<6
4-Bromophenyl-phenylether	<5	<6
Hexachlorobenzene	<5	<6
Pentachlorophenol	<25	<28
Phenanthrene	<5	<6
Anthracene	<5	<6

Table 2
Leachate Seep Semi-Volatile and Pesticide/PCB Analytical Data
City of Rome
Tannery Road Landfill: Off-Site Leachate Seep Evaluation

Compound (ug/L)	SP-1	Trail
Carbazole	<5	<6
Di-n-butylphthalate	2J	<6
Fluoranthene	<5	<6
Pyrene	<5	<6
Butylbenzylphthalate	<5	<6
3,3'-Dichlorobenzidine	<10	<11
Benzo(a)anthracene	<5	<6
Chrysene	<5	<6
bis(2-Ethylhexyl)phthalate	<5	<6
Di-n-octylphthalate	<5	<6
Benzo(b)fluoranthene	<5	<6
Benzo(k)fluoranthene	<5	<6
Benzo(a)pyrene	<5	<6
Indeno(1,2,3-cd)pyrene	<5	<6
Dibenz(a,h)anthracene	<5	<6
Benzo(g,h,i)perylene	<5	<6
Pesticide/PCBs (ug/L)		
alpha-BHC	<0.05	<0.05
beta-BHC	<0.05	<0.05
delta-BHC	<0.05	<0.05
gamma-BHC (Lindane)	<0.05	<0.05
Heptachlor	<0.05	<0.05
Aldrin	<0.05	<0.05
Heptachlor epoxide	<0.05	<0.05
Endosulfan I	<0.05	<0.05
Dieldrin	<0.1	<0.1
4,4'-DDE	<0.1	<0.1
Endrin	<0.1	<0.1
Endosulfan II	<0.1	<0.1
4,4'-DDD	<0.1	<0.1
Endosulfan sulfate	<0.1	<0.1
4,4'-DDT	<0.1	<0.1
Methoxychlor	<0.5	<0.5
Endrin ketone	<0.1	<0.1
Endrin aldehyde	<0.1	<0.1
alpha-Chlordane	<0.05	<0.05
gamma-Chlordane	<0.05	<0.05
Toxaphene	<5	<5
Aroclor-1016	<1	<1
Aroclor-1221	<1	<1
Aroclor-1232	<1	<1
Aroclor-1242	<1	<1
Aroclor-1248	<1	<1
Aroclor-1254	<1	<1
Aroclor-1260	<1	<1

Table 3
Seep Sediment Sample Analytical Data
City of Rome
Tannery Road Landfill: Off-Site Leachate Seep Evaluation

Compound	Sample ID	SP-1 SED	Trail SED	SP-7 SED	USEPA Generic SSLs For Residential Screening Ingestion-Dermal/Migration to Groundwater (20 DAF)	NYSDEC Sediment Screening Criteria Benthic Aquatic Life Chronic Criteria *	
Part 360 Leachate Indicator (mg/Kg)							
Ammonia-Nitrogen		35.8	28.8	110			
Bromide		<19	<13	<2			
Chemical Oxygen Demand		433	127	1,000			
Chloride		122	43	140			
Nitrate-Nitrogen		<0.38	<0.26	3.6			
Sulfate		290	<13	46			
Total Kjeldahl Nitrogen		1,920	718	800			
Total Organic Carbon		16,900	10,400	34,200			
Total Phenols		<0.38	<0.26	<0.1		0.003	
Cyanide		<0.29	<0.18				
						Lowest Effect Level	Severe Effect Level
Part 360 Metal (mg/Kg)							
Cadmium		<0.23	<0.15	**6.9**	70/8	0.6	9
Calcium		1,800	873	5,800			
Iron		17,100	**20,000**	**110,000**		20,000	40,000
Lead		2.1	<0.54	**48**	400 (Ingestion/Dermal)	31	110
Magnesium		1,150	1,100	1,100			
Manganese		86.7	57	**860**		460	1,100
Potassium		328	293	270			
Sodium		196	72.4	<200			
Aluminum		3,740	3,410				
Antimony		<1.2	1		31/5	2.0	25.0
Arsenic		<0.79	<0.54		0.4/29	6.0	33.0
Barium		79	84.8		5,500/1,600		
Beryllium		0.21	0.13		160/63		
Chromium		2.9	2.2		230/38	26.0	110.0
Cobalt		5.7	1.6				
Copper		54.3	<0.46			16.0	110.0

Table 3
Seep Sediment Sample Analytical Data
City of Rome
Tannery Road Landfill: Off-Site Leachate Seep Evaluation

Compound	Sample ID	SP-1 SED	Trail SED	SP-7 SED	USEPA Generic SSLs For Residential Screening	NYSDEC Sediment Screening Criteria	
Mercury		0.036	0.033		10/2	0.2	1.3
Nickel		<0.38	<0.26		1,600/130	16.0	50.0
Selenium		R	R		390/5		
Silver		<0.38	<0.26		390/34	1.0	2.2
Thallium		<1.5	<1.0		6/0.7		
Vanadium		12.7	7.8		550/6,000		
Zinc		207	12.8		23,000/12,000	120.0	270.0
Volatile Organics (ug/Kg)						**Benthic Aquatic Life Chronic Criteria ***	
1,1,1-Trichloroethane		<9	<6	<10			
1,1,2,2-Tetrachloroethane		<9	<6	<10			
1,1,2-Trichloroethane		<9	<6	<10			
1,1-Dichloroethane		<9	<6	<10			
1,1-Dichloroethene		<9	<6	<10			
1,2-Dichloroethane		<9	<6	<10			
1,2-Dichloroethene (total)		<9	<6	<10			
1,2-Dichloropropane		<9	<6	<10			
2-Butanone		<19	<13	<20			
2-Hexanone		<19	<13	<20			
4-Methyl-2-Pentanone		<19	<13	<20			
Acetone		29	28	140	7,800/16		
Benzene		<9	<6	<10		144	
Bromodichloromethane		<9	<6	<10			
Bromoform		<9	<6	<10			
Bromomethane		<19	<13	<10			
Carbon Disulfide		<9	<6	<10			
Carbon Tetrachloride		<9	<6	<10			
Chlorobenzene		<9	<6	<10		17.99	
Chloroethane		<19	<13	<10			
Chloroform		<9	<6	<10			
Chloromethane		<19	<13	<10			

Table 3
Seep Sediment Sample Analytical Data
City of Rome
Tannery Road Landfill: Off-Site Leachate Seep Evaluation

Compound	Sample ID	SP-1 SED	Trail SED	SP-7 SED	USEPA Generic SSLs For Residential Screening	NYSDEC Sediment Screening Criteria
cis-1,3-Dichloropropene		<9	<6	<10		
Dibromochloromethane		<9	<6	<10		
Ethylbenzene		<9	<6	<10		123
Methylene Chloride		<9	<6	<20		
Styrene		<9	<6	<10		
Tetrachloroethene		<9	<6	<20		
Toluene		<9	<6	<10		252
trans-1,3-Dichloropropene		<9	<6	<10		
Trichloroethene		<9	<6	<10		
Vinyl Chloride		<19	<13	<10		
Xylene (total)		<9	<6	<10		473

* NYSDEC Sediment Criteria for organic chemicals calculated using the total organic carbon value from the upstream Canada Creek Sample

Table 4
Leachate Seep Sediment Semi-Volatile and PCB/Pesticide Analytical Data
City of Rome
Tannery Road Landfill: Off-Site Leachate Seep Evaluation

Compound (ug/Kg)	SP-SED-1	Trail-SED
Phenol	<603	<430
bis(2-Chloroethyl)Ether	<603	<430
2-Chlorophenol	<603	<430
1,3-Dichlorobenzene	<603	<430
1,4-Dichlorobenzene	<603	<430
1,2-Dichlorobenzene	<603	<430
2-Methylphenol	<603	<430
2,2'-oxybis(1-Chloropropane)	<603	<430
4-Methylphenol	<603	<430
N-Nitroso-di-n-propylamine	<603	<430
Hexachloroethane	<603	<430
Nitrobenzene	<603	<430
Isophorone	<603	<430
2-Nitrophenol	<603	<430
2,4-Dimethylphenol	<603	<430
2,4-Dichlorophenol	<603	<430
1,2,4-Trichlorobenzene	<603	<430
Naphthalene	<603	<430
4-Chloroaniline	<603	<430
Hexachlorobutadiene	<603	<430
bis(2-Chloroethoxy)methane	<603	<430
4-Chloro-3-Methylphenol	<603	<430
2-Methylnaphthalene	<603	<430
Hexachlorocyclopentadiene	<603	<430
2,4,6-Trichlorophenol	<603	<430
2,4,5-Trichlorophenol	<603	<430
2-Chloronaphthalene	<603	<430
2-Nitroaniline	<3,100	<2,100
Dimethylphthalate	<603	<430
Acenaphthylene	<603	<430
2,6-Dinitrotoluene	<603	<430
3-Nitroaniline	<3,100	<2,100
Acenaphthene	<603	<430
2,4-Dinitrophenol	<3,100	<2,100
4-Nitrophenol	<3,100	<2,100
Dibenzofuran	<603	<430
2,4-Dinitrotoluene	<603	<430
Diethylphthalate	<603	<430
4-Chlorophenyl-phenylether	<603	<430
Fluorene	<603	<430
4-Nitroaniline	<3,100	<2,100
4,6-Dinitro-2-methylphenol	<3,100	<2,100
N-Nitrosodiphenylamine	<603	<430
4-Bromophenyl-phenylether	<603	<430
Hexachlorobenzene	<603	<430
Pentachlorophenol	<3,100	<2,100
Phenanthrene	<603	<430

Table 4
Leachate Seep Sediment Semi-Volatile and PCB/Pesticide Analytical Data
City of Rome
Tannery Road Landfill: Off-Site Leachate Seep Evaluation

Compound (ug/Kg)	SP-SED-1	Trail-SED
Anthracene	<603	<430
Carbazole	<603	<430
Di-n-butylphthalate	<603	<430
Fluoranthene	<603	<430
Pyrene	<603	<430
Butylbenzylphthalate	<603	<430
3,3'-Dichlorobenzidine	<3,100	<850
Benzo(a)anthracene	<603	<430
Chrysene	<603	<430
bis(2-Ethylhexyl)phthalate	<603	<430
Di-n-octylphthalate	<603	<430
Benzo(b)fluoranthene	<603	<430
Benzo(k)fluoranthene	<603	<430
Benzo(a)pyrene	<603	<430
Indeno(1,2,3-cd)pyrene	<603	<430
Dibenz(a,h)anthracene	<603	<430
Benzo(g,h,i)perylene	<603	<430
Pesticide/PCBs (ug/Kg)		
alpha-BHC	<3.1	<2.1
beta-BHC	<3.1	<2.1
delta-BHC	<3.1	<2.1
gamma-BHC (Lindane)	<3.1	<2.1
Heptachlor	<3.1	<2.1
Aldrin	<3.1	<2.1
Heptachlor epoxide	<3.1	<2.1
Endosulfan I	<3.1	<2.1
Dieldrin	<6.3	<4.3
4,4'-DDE	<6.3	<4.3
Endrin	<6.3	<4.3
Endosulfan II	<6.3	<4.3
4,4'-DDD	<6.3	<4.3
Endosulfan sulfate	<6.3	<4.3
4,4'-DDT	<6.3	<4.3
Methoxychlor	<31	<21
Endrin ketone	<6.3	<4.3
Endrin aldehyde	<6.3	<4.3
alpha-Chlordane	<3.1	<2.1
gamma-Chlordane	<3.1	<2.1
Toxaphene	<310	<210
Aroclor-1016	<63	<43
Aroclor-1221	<63	<43
Aroclor-1232	<63	<43
Aroclor-1242	<63	<43
Aroclor-1248	<63	<43
Aroclor-1254	<63	<43
Aroclor-1260	<63	<43

Table 5
Canada Creek Surface Water Samples
City of Rome
Tannery Road Landfill: Off-Site Leachate Seep Evaluation

Compound / Sample ID	Candada Creek CC up (Upstream)	Canada Creek CC-1 (Downstream)	Canada Creek CC Dn (Downstream)	NYSDEC Surface Water Standard
Field or Physical				
Conductivity (μmhos/cm)	187	189	187	NS
pH (s.u.)	8.0	8.08	8.06	6.5-8.5
Temperature (deg C)	13.5	13.5	13.6	NS
Turbidity (NTU)	0	0	0	****
Dissolved Oxygen	13.6	13.6	13.2	NA
Part 360 Leachate Indicator (mg/L)				
Ammonia-Nitrogen *	<0.03	0.19	<0.03	1.35 A (C)
Biochemical Oxygen Demand (BOD)	<4	<4	<4	NS
Bromide	<0.1	<0.1	<0.1	2 H(WS)t
Chemical Oxygen Demand	6.6	6.2	5.7	NS
Chloride	9.3	8.9	8.9	250 H(WS)t
Nitrate-Nitrogen	1.7	1.7	1.7	10 H(WS)t
Sulfate	8.9	9	9	250 H(WS)t
Total Alkalinity	24	80	34	NS
Total Dissolved Solids	130	100	110	500
Total Hardness	96	97	100	NS
Total Kjeldahl Nitrogen	0.14	<0.1	0.15	NS
Total Organic Carbon	2.7	2.9	2.7	NS
Total Phenols	<0.002	<0.002	**0.0023**	0.001
Part 360 Metal (mg/L)				
Cadmium **	<0.01	<0.01	<0.01	0.002 A(C)
Calcium	26	26	27	NS
Iron	0.18	0.23	0.19	0.3 A(C)
Lead **	<0.01	<0.01	<0.01	0.0036 A(C)
Magnesium	7.5	7.7	7.8	35 H(WS)t
Manganese	0.044	0.052	0.047	0.3 (EG)t
Potassium	<1	<1	<1	NS
Sodium	4.6	4.7	4.6	NS

Table 5
Canada Creek Surface Water Samples
City of Rome
Tannery Road Landfill: Off-Site Leachate Seep Evaluation

Compound	Sample ID	Candada Creek CC up (Upstream)	Canada Creek CC-1 (Downstream)	Canada Creek CC Dn (Downstream)	NYSDEC Surface Water Standard
Volatile Organics (ug/L)					
1,1,1-Trichloroethane		<5	<5	<5	5 H(WS)t
1,1,2,2-Tetrachloroethane		<5	<5	<5	0.2 (GV) H(WS)t
1,1,2-Trichloroethane		<5	<5	<5	1 H(WS)t
1,1-Dichloroethane		<5	<5	<5	5 H(WS)t
1,1-Dichloroethene		<5	<5	<5	0.7 (GV) H(WS)t
1,2-Dichloroethane		<5	<5	<5	0.6 H(WS)t
1,2-Dichloroethene (total)		<5	<5	<5	5 H(WS)t**
1,2-Dichloropropane		<5	<5	<5	1 H(WS)t
2-Butanone		<10	<10	<10	50 (GV) H(WS)t
2-Hexanone		<10	<10	<10	NS
4-Methyl-2-Pentanone		<10	<10	<10	NS
Acetone		<10	<10	<10	50 (GV) H(WS)t
Benzene		<5	<5	<5	1 H(WS)t
Bromodichloromethane		<5	<5	<5	50 (GV) H(WS)t
Bromoform		<5	<5	<5	50 (GV) H(WS)t
Bromomethane		<5	<5	<5	5 H(WS)t
Carbon Disulfide		<5	<5	<5	60 (GV H(WS)t
Carbon Tetrachloride		<5	<5	<5	0.4 (GV) H(WS)t
Chlorobenzene		<5	<5	<5	5 H(WS)t
Chloroethane		<5	<5	<5	5 (GV) H(WS)t
Chloroform		<5	<5	<5	7 H(WS)t
Chloromethane		<5	<5	<5	5 H(WS)t
cis-1,3-Dichloropropene		<5	<5	<5	0.4 H(WS)**
Dibromochloromethane		<5	<5	<5	50 (GV) H(WS)t
Ethylbenzene		<5	<5	<5	5 H(WS)t
Methylene Chloride		<10	<10	<10	5 H(WS)t
Styrene		<5	<5	<5	5 (GV) H(WS)t
Tetrachloroethene		<5	<5	<5	0.7 (GV) H(WS)t
Toluene		<5	<5	<5	5 (GV) H(WS)t
trans-1,3-Dichloropropene		<5	<5	<5	0.4 H(WS)**

Table 5
Canada Creek Surface Water Samples
City of Rome
Tannery Road Landfill: Off-Site Leachate Seep Evaluation

Compound	Sample ID	Candada Creek CC up (Upstream)	Canada Creek CC-1 (Downstream)	Canada Creek CC Dn (Downstream)	NYSDEC Surface Water Standard
Trichloroethene		<5	<5	<5	5 H(WS)t
Vinyl Chloride		<5	<5	<5	0.3 (GV) H(WS)t
Xylene (total)		<5	<5	<5	5 H(WS)t

* Ammonia standard calculated using upstream data
** Standard calculated using upstream hardness concentration

Table 6
Canada Creek Sediment Samples
City of Rome
Tannery Road Landfill: Off-Site Leachate Seep Evaluation

Compound	Sample ID	Candada Creek CCUPSED (Upstream)	Canada Creek CC-1 SED (Downstream)	Canada Creek CCDNSED (Downstream)	NYSDEC Sediment Screening Criteria	
					Benthic Aquatic Life Chronic Criteria *	
Part 360 Leachate Indicator (mg/Kg)						
Ammonia-Nitrogen		24	26	21		
Bromide		<1	<1	<1		
Chemical Oxygen Demand		450	260	76		
Chloride		40	74	63		
Nitrate-Nitrogen		1.7	2.8	1.4		
Sulfate		26	30	20		
Total Kjeldahl Nitrogen		410	760	150		
Total Organic Carbon		5,140	9,860	2,930		
Total Phenols		<0.1	<0.1	<0.1	0.003	
					Lowest Effect Level	Severe Effect Level
Part 360 Metal (mg/Kg)						
Cadmium		<1	<1	<1	0.6	9
Calcium		1,100	2,600	1,600		
Iron		7,500	7,000	6,900	20,000	40,000
Lead		4.4	4.8	4.2	31	110
Magnesium		1,100	2,200	1,400		
Manganese		**460**	410	180	460	1,100
Potassium		180	190	160		
Sodium		<100	<100	<100		
Volatile Organics (ug/Kg)					Benthic Aquatic Life Chronic Criteria *	
1,1,1-Trichloroethane		<7	<7	<7		
1,1,2,2-Tetrachloroethane		<7	<7	<7		
1,1,2-Trichloroethane		<7	<7	<7		
1,1-Dichloroethane		<7	<7	<7		
1,1-Dichloroethene		<7	<7	<7		
1,2-Dichloroethane		<7	<7	<7		
1,2-Dichloroethene (total)		<7	<7	<7		

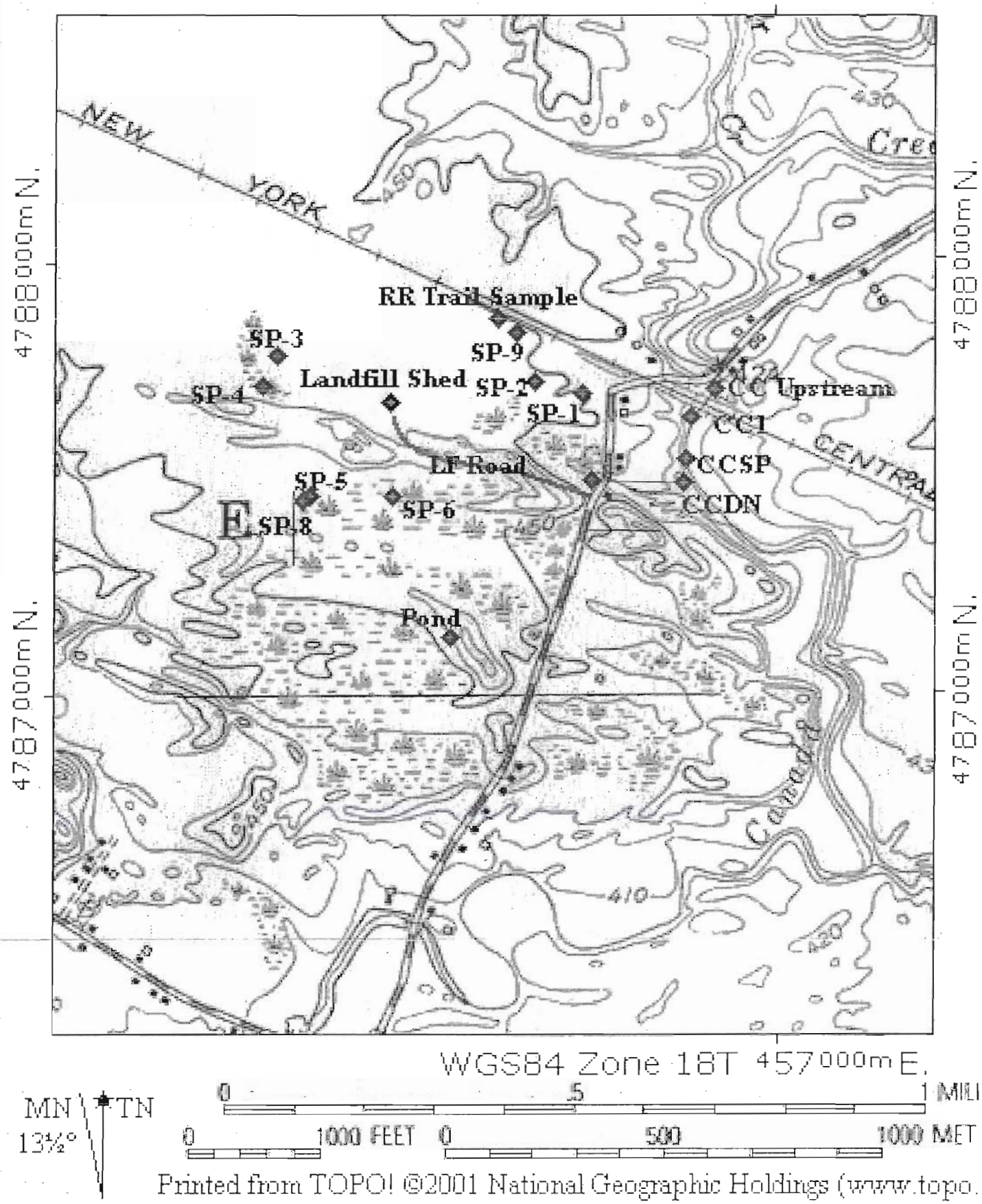
Table 6
Canada Creek Sediment Samples
City of Rome
Tannery Road Landfill: Off-Site Leachate Seep Evaluation

Compound	Sample ID	Candada Creek CCUPSED (Upstream)	Canada Creek CC-1 SED (Downstream)	Canada Creek CCDNSED (Downstream)	NYSDEC Sediment Screening Criteria
1,2-Dichloropropane		<7	<7	<7	
2-Butanone		<10	<10	<10	
2-Hexanone		<10	<10	<10	
4-Methyl-2-Pentanone		<10	<10	<10	
Acetone		<10	<10	<10	
Benzene		<7	<7	<7	144
Bromodichloromethane		<7	<7	<7	
Bromoform		<7	<7	<7	
Bromomethane		<7	<7	<7	
Carbon Disulfide		<7	<7	<7	
Carbon Tetrachloride		<7	<7	<7	
Chlorobenzene		<7	<7	<7	17.99
Chloroethane		<7	<7	<7	
Chloroform		<7	<7	<7	
Chloromethane		<7	<7	<7	
cis-1,3-Dichloropropene		<7	<7	<7	
Dibromochloromethane		<7	<7	<7	
Ethylbenzene		<7	<7	<7	123
Methylene Chloride		<10	<10	<10	
Styrene		<7	<7	<7	
Tetrachloroethene		<10	<10	<10	
Toluene		<7	<7	<7	252
trans-1,3-Dichloropropene		<7	<7	<7	
Trichloroethene		<7	<7	<7	
Vinyl Chloride		<7	<7	<7	
Xylene (total)		<7	<7	<7	473

* NYSDEC Sediment Criteria for organic chemicals calculated using the total organic carbon value from the upstream Canada Creek Sar

FIGURES

Figure 1 Tannery Road Landfill Off-Site Investigation



APPENDIX A

LABORATORY REPORTING SHEETS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SP-1

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: DE0304 SAS No.: SDG No.: SED-1

Matrix: (soil/water) WATER Lab Sample ID: SP-1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: C1380

Level: (low/med) LOW Date Received: 05/01/03

% Moisture: not dec._____ Date Analyzed: 05/09/03

GC Column: RTX502.2 ID: .32 (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	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5 1.	JH
67-64-1	Acetone	10 6.	JH
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
156-60-5	1,2-Dichloroethene-trans	5.	U
67-66-3	Chloroform	5 1.	JH
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
156-59-2	1,2-Dichloroethene-cis	5.	U
106-42-3	m,p-Xylenes	5.	U
95-47-6	o-Xylene	5.	U

CCF

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SP-1

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: DE0304 SAS No.: SDG No.: SED-1
Matrix: (soil/water) WATER Lab Sample ID: SP-1
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: C1380
Level: (low/med) LOW Date Received: 05/01/03
% Moisture: not dec._____ Date Analyzed: 05/09/03
GC Column: RTX502.2 ID: .32 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	110543	Hexane	6.56	6.0	BN
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SP-1

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: DE0304 SAS No.: SDG No.: SED-1
Matrix: (soil/water) WATER Lab Sample ID: SP-1
Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B0898
Level: (low/med) LOW Date Received: 05/01/03
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/06/03
Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 05/27/03
Injection Volume: 2.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5.	U
111-44-4	bis(2-Chloroethyl)ether	5.	U
95-57-8	2-Chlorophenol	5.	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
95-48-7	2-Methylphenol	5.	U
108-60-1	bis(2-chloroisopropyl)ether	5.	U
106-44-5	4-Methylphenol	5.	U
621-64-7	n-Nitroso-di-n-propylamine	5.	U
67-72-1	Hexachloroethane	5.	U
98-95-3	Nitrobenzene	5.	U
78-59-1	Isophorone	5.	U
88-75-5	2-Nitrophenol	5.	U
105-67-9	2,4-Dimethylphenol	5.	U
111-91-1	bis(2-Chloroethoxy)methane	5.	U
120-83-2	2,4-Dichlorophenol	5.	U
120-82-1	1,2,4-Trichlorobenzene	5.	U
91-20-3	Naphthalene	5.	U
106-47-8	4-Chloroaniline	5.	U
87-68-3	Hexachlorobutadiene	5.	U
59-50-7	4-Chloro-3-methylphenol	5.	U
91-57-6	2-Methylnaphthalene	5.	U
77-47-4	Hexachlorocyclopentadiene	5.	U
88-06-2	2,4,6-Trichlorophenol	5.	U
95-95-4	2,4,5-Trichlorophenol	5.	U
91-58-7	2-Chloronaphthalene	5.	U
88-74-4	2-Nitroaniline	25.	U
131-11-3	Dimethylphthalate	5.	U
208-96-8	Acenaphthylene	5.	U
606-20-2	2,6-Dinitrotoluene	5.	U
99-09-2	3-Nitroaniline	25.	U
83-32-9	Acenaphthene	5.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SP-1

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: DE0304 SAS No.: SDG No.: SED-1
Matrix: (soil/water) WATER Lab Sample ID: SP-1
Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B0898
Level: (low/med) LOW Date Received: 05/01/03
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/06/03
Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 05/27/03
Injection Volume: 2.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25.	U
100-02-7	4-Nitrophenol	25.	U
132-64-9	Dibenzofuran	5.	U
121-14-2	2,4-Dinitrotoluene	5.	U
84-66-2	Diethylphthalate	5.	U
7005-72-3	4-Chlorophenyl-phenylether	5.	U
86-73-7	Fluorene	5.	U
100-01-6	4-Nitroaniline	25.	U
534-52-1	4,6-Dinitro-2-methylphenol	25.	U
86-30-6	n-Nitrosodiphenylamine	5.	U
101-55-3	4-Bromophenyl-phenylether	5.	U
118-74-1	Hexachlorobenzene	5.	U
87-86-5	Pentachlorophenol	25.	U
85-01-8	Phenanthrene	5.	U
120-12-7	Anthracene	5.	U
86-74-8	Carbazole	5.	U
84-74-2	Di-n-butylphthalate	2.	J
206-44-0	Fluoranthene	5.	U
129-00-0	Pyrene	5.	U
85-68-7	Butylbenzylphthalate	5.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U
56-55-3	Benzo(a)anthracene	5.	U
218-01-9	Chrysene	5.	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.	U
117-84-0	Di-n-octylphthalate	5.	U
205-99-2	Benzo(b)fluoranthene	5.	U
207-08-9	Benzo(k)fluoranthene	5.	U
50-32-8	Benzo(a)pyrene	5.	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.	U
53-70-3	Dibenzo(a,h)anthracene	5.	U
191-24-2	Benzo(g,h,i)perylene	5.	U

(1) - Cannot be separated from diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SP-1

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: DE0304 SAS No.: SDG No.: SED-1
Matrix: (soil/water) WATER Lab Sample ID: SP-1
Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: B0898
Level: (low/med) LOW Date Received: 05/01/03
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/06/03
Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 05/27/03
Injection Volume: 2.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	ALDOL CONDENSATE	6.25	2.	J
2.	541-02-6	Cyclopentasiloxane, decameth	14.12	1.	BJ N
3.	- -	UNKNOWN	31.44	1.	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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13.					
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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SP-1

Lab Name:	AES, INC.				Contract:		
Lab Code:	AES	Case No.	DE 0304	SAS No.:	SDG No.:	SED-1	
Matrix: (soil/water)	Water				Lab Sample ID:	SP-1	
Sample wt/vol:	1000.0	ML			Lab File ID:	B720	
% Moisture:	0				Date Received:	05/01/03	
Extraction: (SepF/Cont/Sonc)	SepF				Date Extracted:	05/05/03	
Concentrated Extract Volume:	10000	uL			Date Analyzed:	05/12/03	
Injection Volume:	1.5	uL			Dilution Factor:	1.0	
GPC Cleanup: (Y/N)	N	pH:	7.0		Sulfur Cleanup: (Y/N)	Y	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4'-DDE	0.1	U
72-20-8	Endrin	0.1	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4'-DDD	0.1	U
1031-07-8	Endosulfan Sulfate	0.1	U
50-29-3	4,4'-DDT	0.1	U
72-43-5	Methoxychlor	0.5	U
53494-70-5	Endrin Ketone	0.1	U
7421-36-3	Endrin Aldehyde	0.1	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.05	U
8001-35-2	Toxaphene	5	U
12674-11-2	Aroclor 1016	1	U
11104-28-2	Aroclor 1221	1	U
11141-16-5	Aroclor 1232	1	U
53469-21-9	Aroclor 1242	1	U
12672-29-6	Aroclor 1248	1	U
11097-69-1	Aroclor 1254	1	U
11096-82-5	Aroclor 1260	1	U

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SP-1

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: DE_0304 SAS No.: ____ SDG No.: SED-1_

Matrix (soil/water): WATER_ Lab Sample ID: SP-1_____

Level (low/med): LOW___ Date Received: 05/01/03

% Solids: _____

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	274			P
7440-36-0	Antimony	8.5	B	N	P
7440-38-2	Arsenic	2.1	U		P
7440-39-3	Barium	338			P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium	38400			P
7440-47-3	Chromium	5.2	U		P
7440-48-4	Cobalt	1.3	U		P
7440-50-8	Copper	61.0			P
7439-89-6	Iron	29400			P
7439-92-1	Lead	2.1	U		P
7439-95-4	Magnesium	7170			P
7439-96-5	Manganese	408			P
7439-97-6	Mercury	0.10	U	N	AV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	6830		E	P
7782-49-2	Selenium	3.2	U	N	P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	18400		E	P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	11.7	U		P
7440-66-6	Zinc	247			P
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts:_____

Comments:

_____

_____

_____

_____

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

SP-1

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0304 SAS No.: SDG No.: SED-1

Matrix (soil/water): Water Lab Sample ID: 030324026-001

Level (Low/Med): Low Date Received: 5/1/03

% Solids: 0.0

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N	4480			EPA 351.3
Ammonia, as N	3720			EPA 350.1
Nitrate	150			EPA 300.0
Chemical Oxygen Demand (COD)	38400			EPA 410.4
Biochemical Oxygen Demand (BOD 5)	5000			EPA 405.1
Total Organic Carbon (TOC)	17000			EPA 415.2
Total Dissolved Solids (TDS)	250000			EPA 160.1
Sulfate	48500			EPA 300.0
Alkalinity	130000			EPA 310.1
Total Phenols	2	U		EPA 420.1
Chloride	27100			EPA 300.0
Bromide	1000	U		EPA 300.0
Total Suspended Solids (TSS)				EPA 160.2
Specific Conductance				EPA 120.1
Cyanide	10	U		EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments _____

_____

_____

FORM I - CONV

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: Trail **LSL Sample ID:** 0306008-001

Location:

Sampled: 04/30/03 11:00 **Sampled By:** EF

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	100	mg/l	5/2/03	5/2/03	PEF
(1) EPA 350.1 Ammonia					
Ammonia as N	13	mg/l		5/12/03	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	12	mg/l	5/9/03	5/13/03	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	<4	mg/l		5/2/03 09:03	MM
(1) EPA 420.1 Recoverable Phenolics ML					
Phenolics, Total Recoverable	<0.002	mg/l	5/5/03	5/14/03	DWK
(1) EPA 6010 Total Metals					
Cadmium	<0.01	mg/l	5/2/03	5/2/03	PEF
Calcium	27	mg/l	5/2/03	5/2/03	PEF
Iron	5.5	mg/l	5/2/03	5/2/03	PEF
Lead	<0.01	mg/l	5/2/03	5/2/03	PEF
Magnesium	8.1	mg/l	5/2/03	5/2/03	PEF
Manganese	1.6	mg/l	5/2/03	5/2/03	PEF
Potassium	14	mg/l	5/2/03	5/2/03	PEF
Sodium	19	mg/l	5/2/03	5/2/03	PEF
(1) EPA 8260B TCL Volatiles					
Acetone	<10	ug/l		5/12/03	LEF
Benzene	<5	ug/l		5/12/03	LEF
Bromodichloromethane	<5	ug/l		5/12/03	LEF
Bromoform	<5	ug/l		5/12/03	LEF
Bromomethane	<5	ug/l		5/12/03	LEF
2-Butanone (MEK)	<10	ug/l		5/12/03	LEF
Carbon disulfide	<5	ug/l		5/12/03	LEF
Carbon tetrachloride	<5	ug/l		5/12/03	LEF
Chlorobenzene	<5	ug/l		5/12/03	LEF
Chloroethane	<5	ug/l		5/12/03	LEF
Chloroform	<5	ug/l		5/12/03	LEF
Chloromethane	<5	ug/l		5/12/03	LEF
Dibromochloromethane	<5	ug/l		5/12/03	LEF
1,1-Dichloroethane	<5	ug/l		5/12/03	LEF
1,2-Dichloroethane	<5	ug/l		5/12/03	LEF
1,1-Dichloroethene	<5	ug/l		5/12/03	LEF
1,2-Dichloroethene, Total	<5	ug/l		5/12/03	LEF
1,2-Dichloropropane	<5	ug/l		5/12/03	LEF
cis-1,3-Dichloropropene	<5	ug/l		5/12/03	LEF
trans-1,3-Dichloropropene	<5	ug/l		5/12/03	LEF
Ethyl benzene	<5	ug/l		5/12/03	LEF
2-Hexanone	<10	ug/l		5/12/03	LEF
Methylene chloride	<10	ug/l		5/12/03	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/l		5/12/03	LEF
Styrene	<5	ug/l		5/12/03	LEF

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: Trail LSL Sample ID: 0306008-001

Location:

Sampled: 04/30/03 11:00 Sampled By: EF

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8260B TCL Volatiles					
1,1,2,2-Tetrachloroethane	<5	ug/l		5/12/03	LEF
Tetrachloroethene	<5	ug/l		5/12/03	LEF
Toluene	<5	ug/l		5/12/03	LEF
1,1,1-Trichloroethane	<5	ug/l		5/12/03	LEF
1,1,2-Trichloroethane	<5	ug/l		5/12/03	LEF
Trichloroethene	<5	ug/l		5/12/03	LEF
Vinyl chloride	<5	ug/l		5/12/03	LEF
Xylenes (Total)	<5	ug/l		5/12/03	LEF
Surrogate (1,2-DCA-d4)	103	%R		5/12/03	LEF
Surrogate (Tol-d8)	98	%R		5/12/03	LEF
Surrogate (4-BFB)	101	%R		5/12/03	LEF
(1) EPA Method 300.0 A					
Bromide	<0.1	mg/l		5/2/03	RAF
Chloride	18	mg/l		5/2/03	RAF
Nitrate as N	0.14	mg/l		5/2/03 10:05	RAF
Sulfate	18	mg/l		5/2/03	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	40	mg/l		5/5/03	DWK
(1) SM 18 2320B, Alkalinity as CaCO3					
Alkalinity	72	mg/l		5/7/03	SCO
This result should be considered an estimate due to the presence of headspace in the sample container.					
(1) SM 19 5310C TOC					
Total Organic Carbon	14	mg/l		5/6/03	SCO
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	230	mg/l		5/7/03	MM

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Trail TRAN 1 dof

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: DE0304 SAS No.: SDG No.: SED-1
Matrix: (soil/water) WATER Lab Sample ID: TRAN 1
Sample wt/vol: 900.0 (g/mL) ML Lab File ID: B0906
Level: (low/med) LOW Date Received: 05/06/03
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/09/03
Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 05/28/03
Injection Volume: 2.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	6.	U
111-44-4	bis(2-Chloroethyl)ether	6.	U
95-57-8	2-Chlorophenol	6.	U
541-73-1	1,3-Dichlorobenzene	6.	U
106-46-7	1,4-Dichlorobenzene	6.	U
95-50-1	1,2-Dichlorobenzene	6.	U
95-48-7	2-Methylphenol	6.	U
108-60-1	bis(2-chloroisopropyl)ether	6.	U
106-44-5	4-Methylphenol	6.	U
621-64-7	n-Nitroso-di-n-propylamine	6.	U
67-72-1	Hexachloroethane	6.	U
98-95-3	Nitrobenzene	6.	U
78-59-1	Isophorone	6.	U
88-75-5	2-Nitrophenol	6.	U
105-67-9	2,4-Dimethylphenol	6.	U
111-91-1	bis(2-Chloroethoxy)methane	6.	U
120-83-2	2,4-Dichlorophenol	6.	U
120-82-1	1,2,4-Trichlorobenzene	6.	U
91-20-3	Naphthalene	6.	U
106-47-8	4-Chloroaniline	6.	U
87-68-3	Hexachlorobutadiene	6.	U
59-50-7	4-Chloro-3-methylphenol	6.	U
91-57-6	2-Methylnaphthalene	6.	U
77-47-4	Hexachlorocyclopentadiene	6.	U
88-06-2	2,4,6-Trichlorophenol	6.	U
95-95-4	2,4,5-Trichlorophenol	6.	U
91-58-7	2-Chloronaphthalene	6.	U
88-74-4	2-Nitroaniline	28.	U
131-11-3	Dimethylphthalate	6.	U
208-96-8	Acenaphthylene	6.	U
606-20-2	2,6-Dinitrotoluene	6.	U
99-09-2	3-Nitroaniline	28.	U
83-32-9	Acenaphthene	6.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Trail Eqf
~~TRAN 1~~

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: DE0304 SAS No.: SDG No.: SED-1
Matrix: (soil/water) WATER Lab Sample ID: TRAN 1
Sample wt/vol: 900.0 (g/mL) ML Lab File ID: B0906
Level: (low/med) LOW Date Received: 05/06/03
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/09/03
Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 05/28/03
Injection Volume: 2.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	28.	U
100-02-7	4-Nitrophenol	28.	U
132-64-9	Dibenzofuran	6.	U
121-14-2	2,4-Dinitrotoluene	6.	U
84-66-2	Diethylphthalate	6.	U
7005-72-3	4-Chlorophenyl-phenylether	6.	U
86-73-7	Fluorene	6.	U
100-01-6	4-Nitroaniline	28.	U
534-52-1	4,6-Dinitro-2-methylphenol	28.	U
86-30-6	n-Nitrosodiphenylamine	6.	U
101-55-3	4-Bromophenyl-phenylether	6.	U
118-74-1	Hexachlorobenzene	6.	U
87-86-5	Pentachlorophenol	28.	U
85-01-8	Phenanthrene	6.	U
120-12-7	Anthracene	6.	U
86-74-8	Carbazole	6.	U
84-74-2	Di-n-butylphthalate	6.	U
206-44-0	Fluoranthene	6.	U
129-00-0	Pyrene	6.	U
85-68-7	Butylbenzylphthalate	6.	U
91-94-1	3,3'-Dichlorobenzidine	11.	U
56-55-3	Benzo(a)anthracene	6.	U
218-01-9	Chrysene	6.	U
117-81-7	bis(2-Ethylhexyl)phthalate	6.	U
117-84-0	Di-n-octylphthalate	6.	U
205-99-2	Benzo(b)fluoranthene	6.	U
207-08-9	Benzo(k)fluoranthene	6.	U
50-32-8	Benzo(a)pyrene	6.	U
193-39-5	Indeno(1,2,3-cd)pyrene	6.	U
53-70-3	Dibenzo(a,h)anthracene	6.	U
191-24-2	Benzo(g,h,i)perylene	6.	U

(1) - Cannot be separated from diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TRAIL ~~TRAN 1~~

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: DE0304 SAS No.: SDG No.: SED-1
Matrix: (soil/water) WATER Lab Sample ID: TRAN 1
Sample wt/vol: 900.0 (g/mL) ML Lab File ID: B0906
Level: (low/med) LOW Date Received: 05/06/03
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/09/03
Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 05/28/03
Injection Volume: 2.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	UNKNOWN	31.44	3.	BJ
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

~~TRANT~~ Trail EGF

Lab Name:	AES, INC.				Contract:		
Lab Code:	AES	Case No.	DE 0304	SAS No.:	SDG No.:	SED-1	
Matrix: (soil/water)	Water				Lab Sample ID:	TRAN 1	
Sample wt/vol:	1000.0	ML			Lab File ID:	B724	
% Moisture:	0				Date Received:	05/06/03	
Extraction: (SepF/Cont/Sonc)	SepF				Date Extracted:	05/07/03	
Concentrated Extract Volume:	10000	uL			Date Analyzed:	05/12/03	
Injection Volume:	1.5	uL			Dilution Factor:	1.0	
GPC Cleanup: (Y/N)	N	pH:	6.0		Sulfur Cleanup: (Y/N)	Y	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.1	U
72-55-9	4,4'-DDE	0.1	U
72-20-8	Endrin	0.1	U
33213-65-9	Endosulfan II	0.1	U
72-54-8	4,4'-DDD	0.1	U
1031-07-8	Endosulfan Sulfate	0.1	U
50-29-3	4,4'-DDT	0.1	U
72-43-5	Methoxychlor	0.5	U
53494-70-5	Endrin Ketone	0.1	U
7421-36-3	Endrin Aldehyde	0.1	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.05	U
8001-35-2	Toxaphene	5	U
12674-11-2	Aroclor 1016	1	U
11104-28-2	Aroclor 1221	1	U
11141-16-5	Aroclor 1232	1	U
53469-21-9	Aroclor 1242	1	U
12672-29-6	Aroclor 1248	1	U
11097-69-1	Aroclor 1254	1	U
11096-82-5	Aroclor 1260	1	U

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID:	SP-4	**LSL Sample ID:**	0306214-001
Location:	Rome Landfill		
Sampled:	05/05/03 13:00 **Sampled By:** EF		
Sample Matrix:	NPW		

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	270	mg/l	5/8/03	5/8/03	PEF
(1) EPA 350.1 Ammonia					
Ammonia as N	1.0	mg/l		5/16/03	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	8.4	mg/l	5/16/03	5/19/03	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	21	mg/l		5/7/03 08:20	MM
(1) EPA 420.1 Recoverable Phenolics ML					
Phenolics, Total Recoverable	0.0082	mg/l	5/12/03	5/20/03	DWK
(1) EPA 6010 Total Metals					
Boron	<0.5	mg/l	5/8/03	5/8/03	PEF
Cadmium	<0.01	mg/l	5/8/03	5/8/03	PEF
Calcium	82	mg/l	5/8/03	5/8/03	PEF
Iron	80	mg/l	5/8/03	5/8/03	PEF
Lead	<0.01	mg/l	5/8/03	5/8/03	PEF
Magnesium	16	mg/l	5/8/03	5/8/03	PEF
Manganese	2.9	mg/l	5/8/03	5/8/03	PEF
Potassium	7.3	mg/l	5/8/03	5/8/03	PEF
Sodium	2.6	mg/l	5/8/03	5/8/03	PEF
(1) EPA 8260B TCL Volatiles					
Acetone	<10	ug/l		5/16/03	LEF
Benzene	<5	ug/l		5/16/03	LEF
Bromodichloromethane	<5	ug/l		5/16/03	LEF
Bromoform	<5	ug/l		5/16/03	LEF
Bromomethane	<5	ug/l		5/16/03	LEF
2-Butanone (MEK)	<10	ug/l		5/16/03	LEF
Carbon disulfide	<5	ug/l		5/16/03	LEF
Carbon tetrachloride	<5	ug/l		5/16/03	LEF
Chlorobenzene	<5	ug/l		5/16/03	LEF
Chloroethane	<5	ug/l		5/16/03	LEF
Chloroform	<5	ug/l		5/16/03	LEF
Chloromethane	<5	ug/l		5/16/03	LEF
Dibromochloromethane	<5	ug/l		5/16/03	LEF
1,1-Dichloroethane	<5	ug/l		5/16/03	LEF
1,2-Dichloroethane	<5	ug/l		5/16/03	LEF
1,1-Dichloroethene	<5	ug/l		5/16/03	LEF
1,2-Dichloroethene, Total	<5	ug/l		5/16/03	LEF
1,2-Dichloropropane	<5	ug/l		5/16/03	LEF
cis-1,3-Dichloropropene	<5	ug/l		5/16/03	LEF
trans-1,3-Dichloropropene	<5	ug/l		5/16/03	LEF
Ethyl benzene	<5	ug/l		5/16/03	LEF
2-Hexanone	<10	ug/l		5/16/03	LEF
Methylene chloride	<10	ug/l		5/16/03	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/l		5/16/03	LEF

Life Science Laboratories, Inc.

Date Printed: 5/20/03

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering *Albany, NY*

Sample ID:	SP-4	**LSL Sample ID:**	0306214-001
Location:	Rome Landfill		
Sampled:	05/05/03 13:00 **Sampled By:** EF		
Sample Matrix:	NPW		

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8260B TCL Volatiles					
Styrene	<5	ug/l		5/16/03	LEF
1,1,2,2-Tetrachloroethane	<5	ug/l		5/16/03	LEF
Tetrachloroethene	<5	ug/l		5/16/03	LEF
Toluene	<5	ug/l		5/16/03	LEF
1,1,1-Trichloroethane	<5	ug/l		5/16/03	LEF
1,1,2-Trichloroethane	<5	ug/l		5/16/03	LEF
Trichloroethene	<5	ug/l		5/16/03	LEF
Vinyl chloride	<5	ug/l		5/16/03	LEF
Xylenes (Total)	<5	ug/l		5/16/03	LEF
Surrogate (1,2-DCA-d4)	106	%R		5/16/03	LEF
Surrogate (Tol-d8)	99	%R		5/16/03	LEF
Surrogate (4-BFB)	112	%R		5/16/03	LEF
(1) EPA Method 300.0 A					
Bromide	<0.1	mg/l		5/6/03	RAF
Chloride	2.7	mg/l		5/6/03	RAF
Nitrate as N	1.1	mg/l		5/6/03 18:50	RAF
Sulfate	2.4	mg/l		5/6/03	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	200	mg/l		5/13/03	DWK
(1) SM 18 2320B, Alkalinity as CaCO3					
Alkalinity	260	mg/l		5/7/03	SCO
This result should be considered an estimate due to matrix interferences.					
(1) SM 19 5310C TOC					
Total Organic Carbon	42	mg/l		5/6/03	SCO
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	320	mg/l		5/5/03	MM

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: SP-6 **LSL Sample ID:** 0306214-002

Location: Rome Landfill

Sampled: 05/05/03 12:00 **Sampled By:** EF

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	280	mg/l	5/8/03	5/8/03	PEF
(1) EPA 350.1 Ammonia					
Ammonia as N	2.0	mg/l		5/16/03	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	4.7	mg/l	5/16/03	5/19/03	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	<10	mg/l		5/7/03 08:25	MM
This result should be considered an estimate due to low oxygen depletion.					
(1) EPA 420.1 Recoverable Phenolics ML					
Phenolics, Total Recoverable	<0.002	mg/l	5/12/03	5/20/03	DWK
(1) EPA 6010 Total Metals					
Boron	<0.5	mg/l	5/8/03	5/8/03	PEF
Cadmium	<0.01	mg/l	5/8/03	5/8/03	PEF
Calcium	76	mg/l	5/8/03	5/8/03	PEF
Iron	38	mg/l	5/8/03	5/8/03	PEF
Lead	<0.01	mg/l	5/8/03	5/8/03	PEF
Magnesium	22	mg/l	5/8/03	5/8/03	PEF
Manganese	1.7	mg/l	5/8/03	5/8/03	PEF
Potassium	4.6	mg/l	5/8/03	5/8/03	PEF
Sodium	5.7	mg/l	5/8/03	5/8/03	PEF
(1) EPA 8260B TCL Volatiles					
Acetone	<10	ug/l		5/16/03	LEF
Benzene	<5	ug/l		5/16/03	LEF
Bromodichloromethane	<5	ug/l		5/16/03	LEF
Bromoform	<5	ug/l		5/16/03	LEF
Bromomethane	<5	ug/l		5/16/03	LEF
2-Butanone (MEK)	<10	ug/l		5/16/03	LEF
Carbon disulfide	<5	ug/l		5/16/03	LEF
Carbon tetrachloride	<5	ug/l		5/16/03	LEF
Chlorobenzene	<5	ug/l		5/16/03	LEF
Chloroethane	<5	ug/l		5/16/03	LEF
Chloroform	<5	ug/l		5/16/03	LEF
Chloromethane	<5	ug/l		5/16/03	LEF
Dibromochloromethane	<5	ug/l		5/16/03	LEF
1,1-Dichloroethane	<5	ug/l		5/16/03	LEF
1,2-Dichloroethane	<5	ug/l		5/16/03	LEF
1,1-Dichloroethene	<5	ug/l		5/16/03	LEF
1,2-Dichloroethene, Total	<5	ug/l		5/16/03	LEF
1,2-Dichloropropane	<5	ug/l		5/16/03	LEF
cis-1,3-Dichloropropene	<5	ug/l		5/16/03	LEF
trans-1,3-Dichloropropene	<5	ug/l		5/16/03	LEF
Ethyl benzene	<5	ug/l		5/16/03	LEF
2-Hexanone	<10	ug/l		5/16/03	LEF
Methylene chloride	<10	ug/l		5/16/03	LEF

Life Science Laboratories, Inc.

Date Printed: 5/20/03

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering *Albany, NY*

Sample ID:	SP-6	**LSL Sample ID:**	0306214-002
Location:	Rome Landfill		
Sampled:	05/05/03 12:00	**Sampled By:** EF	
Sample Matrix:	NPW		

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8260B TCL Volatiles					
4-Methyl-2-pentanone (MIBK)	<10	ug/l		5/16/03	LEF
Styrene	<5	ug/l		5/16/03	LEF
1,1,2,2-Tetrachloroethane	<5	ug/l		5/16/03	LEF
Tetrachloroethene	<5	ug/l		5/16/03	LEF
Toluene	<5	ug/l		5/16/03	LEF
1,1,1-Trichloroethane	<5	ug/l		5/16/03	LEF
1,1,2-Trichloroethane	<5	ug/l		5/16/03	LEF
Trichloroethene	<5	ug/l		5/16/03	LEF
Vinyl chloride	<5	ug/l		5/16/03	LEF
Xylenes (Total)	<5	ug/l		5/16/03	LEF
Surrogate (1,2-DCA-d4)	101	%R		5/16/03	LEF
Surrogate (Tol-d8)	99	%R		5/16/03	LEF
Surrogate (4-BFB)	117	%R		5/16/03	LEF
(1) EPA Method 300.0 A					
Bromide	<0.1	mg/l		5/6/03	RAF
Chloride	4.3	mg/l		5/6/03	RAF
Nitrate as N	0.32	mg/l		5/6/03 19:43	RAF
Sulfate	20	mg/l		5/6/03	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	140	mg/l		5/13/03	DWK
(1) SM 18 2320B, Alkalinity as CaCO3					
Alkalinity	220	mg/l		5/7/03	SCO
(1) SM 19 5310C TOC					
Total Organic Carbon	42	mg/l		5/6/03	SCO
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	380	mg/l		5/5/03	MM

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: SP-7 LSL Sample ID: 0306008-005

Location:

Sampled: 04/30/03 16:00 Sampled By: EF

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	140	mg/l	5/2/03	5/2/03	PEF
(1) EPA 350.1 Ammonia					
Ammonia as N	1.9	mg/l		5/12/03	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	1.9	mg/l	5/9/03	5/13/03	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	8.2	mg/l		5/2/03 09:11	MM
(1) EPA 420.1 Recoverable Phenolics ML					
Phenolics, Total Recoverable	<0.002	mg/l	5/5/03	5/14/03	DWK
(1) EPA 6010 Total Metals					
Cadmium	<0.01	mg/l	5/2/03	5/2/03	PEF
Calcium	44	mg/l	5/2/03	5/2/03	PEF
Iron	1.7	mg/l	5/2/03	5/2/03	PEF
Lead	<0.01	mg/l	5/2/03	5/2/03	PEF
Magnesium	8.4	mg/l	5/2/03	5/2/03	PEF
Manganese	0.38	mg/l	5/2/03	5/2/03	PEF
Potassium	11	mg/l	5/2/03	5/2/03	PEF
Sodium	20	mg/l	5/2/03	5/2/03	PEF
(1) EPA 8260B TCL Volatiles					
Acetone	<10	ug/l		5/12/03	LEF
Benzene	<5	ug/l		5/12/03	LEF
Bromodichloromethane	<5	ug/l		5/12/03	LEF
Bromoform	<5	ug/l		5/12/03	LEF
Bromomethane	<5	ug/l		5/12/03	LEF
2-Butanone (MEK)	<10	ug/l		5/12/03	LEF
Carbon disulfide	<5	ug/l		5/12/03	LEF
Carbon tetrachloride	<5	ug/l		5/12/03	LEF
Chlorobenzene	<5	ug/l		5/12/03	LEF
Chloroethane	<5	ug/l		5/12/03	LEF
Chloroform	<5	ug/l		5/12/03	LEF
Chloromethane	<5	ug/l		5/12/03	LEF
Dibromochloromethane	<5	ug/l		5/12/03	LEF
1,1-Dichloroethane	<5	ug/l		5/12/03	LEF
1,2-Dichloroethane	<5	ug/l		5/12/03	LEF
1,1-Dichloroethene	<5	ug/l		5/12/03	LEF
1,2-Dichloroethene, Total	<5	ug/l		5/12/03	LEF
1,2-Dichloropropane	<5	ug/l		5/12/03	LEF
cis-1,3-Dichloropropene	<5	ug/l		5/12/03	LEF
trans-1,3-Dichloropropene	<5	ug/l		5/12/03	LEF
Ethyl benzene	<5	ug/l		5/12/03	LEF
2-Hexanone	<10	ug/l		5/12/03	LEF
Methylene chloride	<10	ug/l		5/12/03	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/l		5/12/03	LEF
Styrene	<5	ug/l		5/12/03	LEF

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: SP-7 LSL Sample ID: 0306008-005

Location:

Sampled: 04/30/03 16:00 Sampled By: EF

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8260B TCL Volatiles					
1,1,2,2-Tetrachloroethane	<5	ug/l		5/12/03	LEF
Tetrachloroethene	<5	ug/l		5/12/03	LEF
Toluene	<5	ug/l		5/12/03	LEF
1,1,1-Trichloroethane	<5	ug/l		5/12/03	LEF
1,1,2-Trichloroethane	<5	ug/l		5/12/03	LEF
Trichloroethene	<5	ug/l		5/12/03	LEF
Vinyl chloride	<5	ug/l		5/12/03	LEF
Xylenes (Total)	<5	ug/l		5/12/03	LEF
Surrogate (1,2-DCA-d4)	107	%R		5/12/03	LEF
Surrogate (Tol-d8)	94	%R		5/12/03	LEF
Surrogate (4-BFB)	100	%R		5/12/03	LEF
(1) EPA Method 300.0 A					
Bromide	0.29	mg/l		5/2/03	RAF
Chloride	23	mg/l		5/2/03	RAF
Nitrate as N	0.44	mg/l		5/2/03 11:51	RAF
Sulfate	20	mg/l		5/2/03	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	53	mg/l		5/5/03	DWK
(1) SM 18 2320B, Alkalinity as CaCO3					
Alkalinity	140	mg/l		5/7/03	SCO
(1) SM 19 5310C TOC					
Total Organic Carbon	18	mg/l		5/6/03	SCO
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	250	mg/l		5/5/03	MM

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

- - LABORATORY ANALYSIS REPORT - -

Delaware Engineering *Albany, NY*

Sample ID:	SP-8	**LSL Sample ID:**	0306214-003
Location:	Rome Landfill		
Sampled:	05/05/03 11:00 **Sampled By:** EF		
Sample Matrix:	NPW		

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	40	mg/l	5/8/03	5/8/03	PEF
(1) EPA 350.1 Ammonia					
Ammonia as N	0.10	mg/l		5/16/03	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	1.3	mg/l	5/16/03	5/19/03	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	<4	mg/l		5/7/03 08:26	MM
(1) EPA 420.1 Recoverable Phenolics ML					
Phenolics, Total Recoverable	~~<0.0002~~ <0.002 EQL	mg/l	5/12/03	5/20/03	DWK
(1) EPA 6010 Total Metals					
Boron	<0.5	mg/l	5/8/03	5/8/03	PEF
Cadmium	<0.01	mg/l	5/8/03	5/8/03	PEF
Calcium	12	mg/l	5/8/03	5/8/03	PEF
Iron	1.7	mg/l	5/8/03	5/8/03	PEF
Lead	<0.01	mg/l	5/8/03	5/8/03	PEF
Magnesium	2.5	mg/l	5/8/03	5/8/03	PEF
Manganese	0.22	mg/l	5/8/03	5/8/03	PEF
Potassium	1.4	mg/l	5/8/03	5/8/03	PEF
Sodium	1.2	mg/l	5/8/03	5/8/03	PEF
(1) EPA 8260B TCL Volatiles					
Acetone	<10	ug/l		5/16/03	LEF
Benzene	<5	ug/l		5/16/03	LEF
Bromodichloromethane	<5	ug/l		5/16/03	LEF
Bromoform	<5	ug/l		5/16/03	LEF
Bromomethane	<5	ug/l		5/16/03	LEF
2-Butanone (MEK)	<10	ug/l		5/16/03	LEF
Carbon disulfide	<5	ug/l		5/16/03	LEF
Carbon tetrachloride	<5	ug/l		5/16/03	LEF
Chlorobenzene	<5	ug/l		5/16/03	LEF
Chloroethane	<5	ug/l		5/16/03	LEF
Chloroform	<5	ug/l		5/16/03	LEF
Chloromethane	<5	ug/l		5/16/03	LEF
Dibromochloromethane	<5	ug/l		5/16/03	LEF
1,1-Dichloroethane	<5	ug/l		5/16/03	LEF
1,2-Dichloroethane	<5	ug/l		5/16/03	LEF
1,1-Dichloroethene	<5	ug/l		5/16/03	LEF
1,2-Dichloroethene, Total	<5	ug/l		5/16/03	LEF
1,2-Dichloropropane	<5	ug/l		5/16/03	LEF
cis-1,3-Dichloropropene	<5	ug/l		5/16/03	LEF
trans-1,3-Dichloropropene	<5	ug/l		5/16/03	LEF
Ethyl benzene	<5	ug/l		5/16/03	LEF
2-Hexanone	<10	ug/l		5/16/03	LEF
Methylene chloride	<10	ug/l		5/16/03	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/l		5/16/03	LEF

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering *Albany, NY*

Sample ID: SP-8 **LSL Sample ID:** 0306214-003

Location: Rome Landfill

Sampled: 05/05/03 11:00 **Sampled By:** EF

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8260B TCL Volatiles					
Styrene	<5	ug/l		5/16/03	LEF
1,1,2,2-Tetrachloroethane	<5	ug/l		5/16/03	LEF
Tetrachloroethene	<5	ug/l		5/16/03	LEF
Toluene	<5	ug/l		5/16/03	LEF
1,1,1-Trichloroethane	<5	ug/l		5/16/03	LEF
1,1,2-Trichloroethane	<5	ug/l		5/16/03	LEF
Trichloroethene	<5	ug/l		5/16/03	LEF
Vinyl chloride	<5	ug/l		5/16/03	LEF
Xylenes (Total)	<5	ug/l		5/16/03	LEF
Surrogate (1,2-DCA-d4)	108	%R		5/16/03	LEF
Surrogate (Tol-d8)	101	%R		5/16/03	LEF
Surrogate (4-BFB)	116	%R		5/16/03	LEF
(1) EPA Method 300.0 A					
Bromide	<0.1	mg/l		5/6/03	RAF
Chloride	3.0	mg/l		5/6/03	RAF
Nitrate as N	1.7	mg/l		5/6/03 20:01	RAF
Sulfate	3.5	mg/l		5/6/03	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	77	mg/l		5/13/03	DWK
(1) SM 18 2320B, Alkalinity as CaCO3					
Alkalinity	28	mg/l		5/7/03	SCO
(1) SM 19 5310C TOC					
Total Organic Carbon	29	mg/l		5/6/03	SCO
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	100	mg/l		5/5/03	MM

Life Science Laboratories, Inc.

Date Printed: 5/20/03

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SED-1
SP-1 Sed

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: DE0304 SAS No.: SDG No.: SED-1
Matrix: (soil/water) SOIL Lab Sample ID: SED-1
Sample wt/vol: 5.000 (g/mL) G Lab File ID: C1382
Level: (low/med) LOW Date Received: 05/01/03
% Moisture: not dec. 47. Date Analyzed: 05/09/03
GC Column: RTX502.2 ID: .32 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	19.	U
74-83-9	Bromomethane	19.	U
75-01-4	Vinyl Chloride	19.	U
75-00-3	Chloroethane	19.	U
75-09-2	Methylene Chloride	9 5.	JM
67-64-1	Acetone	29.	
75-15-0	Carbon Disulfide	9.	U
75-35-4	1,1-Dichloroethene	9.	U
75-34-3	1,1-Dichloroethane	9.	U
156-60-5	1,2-Dichloroethene-trans	9.	U
67-66-3	Chloroform	9 4.	JM
107-06-2	1,2-Dichloroethane	9.	U
78-93-3	2-Butanone	19 7.	BJM
71-55-6	1,1,1-Trichloroethane	9.	U
56-23-5	Carbon Tetrachloride	9.	U
75-27-4	Bromodichloromethane	9.	U
78-87-5	1,2-Dichloropropane	9.	U
10061-01-5	cis-1,3-Dichloropropene	9.	U
79-01-6	Trichloroethene	9.	U
124-48-1	Dibromochloromethane	9.	U
79-00-5	1,1,2-Trichloroethane	9.	U
71-43-2	Benzene	9.	U
10061-02-6	trans-1,3-Dichloropropene	9.	U
75-25-2	Bromoform	9.	U
108-10-1	4-Methyl-2-Pentanone	19.	U
591-78-6	2-Hexanone	19.	U
127-18-4	Tetrachloroethene	9.	U
79-34-5	1,1,2,2-Tetrachloroethane	9.	U
108-88-3	Toluene	9.	U
108-90-7	Chlorobenzene	9.	U
100-41-4	Ethylbenzene	9.	U
100-42-5	Styrene	9.	U
156-59-2	1,2-Dichloroethene-cis	9.	U
106-42-3	m,p-Xylenes	9.	U
95-47-6	o-Xylene	9.	U

EQF EQF EQF

1E

EPA SAMPLE NO.

SED-1
SP-1 SED

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: DE0304 SAS No.: SDG No.: SED-1
Matrix: (soil/water) SOIL Lab Sample ID: SED-1
Sample wt/vol: 5.000 (g/mL) G Lab File ID: C1382
Level: (low/med) LOW Date Received: 05/01/03
% Moisture: not dec. 47. Date Analyzed: 05/09/03
GC Column: RTX502.2 ID: .32 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 2

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~110543~~	~~Hexane~~	~~6.60~~	~~42.~~	~~BN~~
2.	98828	Benzene,(1-methylethyl)-	17.09	17.	N
3.					
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SP-SED-1

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: DE0304 SAS No.: SDG No.: SED-1
Matrix: (soil/water) SOIL Lab Sample ID: SED-1
Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0899
Level: (low/med) LOW Date Received: 05/01/03
% Moisture: 47. decanted: (Y/N) N Date Extracted: 05/01/03
Concentrated Extract Volume: 2000.0 (uL) Date Analyzed: 05/27/03
Injection Volume: 2.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 6.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	630.	U
111-44-4	bis(2-Chloroethyl)ether	630.	U
95-57-8	2-Chlorophenol	630.	U
541-73-1	1,3-Dichlorobenzene	630.	U
106-46-7	1,4-Dichlorobenzene	630.	U
95-50-1	1,2-Dichlorobenzene	630.	U
95-48-7	2-Methylphenol	630.	U
108-60-1	bis(2-chloroisopropyl)ether	630.	U
106-44-5	4-Methylphenol	630.	U
621-64-7	n-Nitroso-di-n-propylamine	630.	U
67-72-1	Hexachloroethane	630.	U
98-95-3	Nitrobenzene	630.	U
78-59-1	Isophorone	630.	U
88-75-5	2-Nitrophenol	630.	U
105-67-9	2,4-Dimethylphenol	630.	U
111-91-1	bis(2-Chloroethoxy)methane	630.	U
120-83-2	2,4-Dichlorophenol	630.	U
120-82-1	1,2,4-Trichlorobenzene	630.	U
91-20-3	Naphthalene	630.	U
106-47-8	4-Chloroaniline	630.	U
87-68-3	Hexachlorobutadiene	630.	U
59-50-7	4-Chloro-3-methylphenol	630.	U
91-57-6	2-Methylnaphthalene	630.	U
77-47-4	Hexachlorocyclopentadiene	630.	U
88-06-2	2,4,6-Trichlorophenol	630.	U
95-95-4	2,4,5-Trichlorophenol	630.	U
91-58-7	2-Chloronaphthalene	630.	U
88-74-4	2-Nitroaniline	3100.	U
131-11-3	Dimethylphthalate	630.	U
208-96-8	Acenaphthylene	630.	U
606-20-2	2,6-Dinitrotoluene	630.	U
99-09-2	3-Nitroaniline	3100.	U
83-32-9	Acenaphthene	630.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD-SED-1

Lab Name: AES, Inc. Contract:

Lab Code: AES Case No.: DE0304 SAS No.: SDG No.: SED-1

Matrix: (soil/water) SOIL Lab Sample ID: SED-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0899

Level: (low/med) LOW Date Received: 05/01/03

% Moisture: 47. decanted: (Y/N) N Date Extracted: 05/01/03

Concentrated Extract Volume: 2000.0 (uL) Date Analyzed: 05/27/03

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	3100.	U
100-02-7	4-Nitrophenol	3100.	U
132-64-9	Dibenzofuran	630.	U
121-14-2	2,4-Dinitrotoluene	630.	U
84-66-2	Diethylphthalate	630.	U
7005-72-3	4-Chlorophenyl-phenylether	630.	U
86-73-7	Fluorene	630.	U
100-01-6	4-Nitroaniline	3100.	U
534-52-1	4,6-Dinitro-2-methylphenol	3100.	U
86-30-6	n-Nitrosodiphenylamine	630.	U
101-55-3	4-Bromophenyl-phenylether	630.	U
118-74-1	Hexachlorobenzene	630.	U
87-86-5	Pentachlorophenol	3100.	U
85-01-8	Phenanthrene	630.	U
120-12-7	Anthracene	630.	U
86-74-8	Carbazole	630.	U
84-74-2	Di-n-butylphthalate	630.	U
206-44-0	Fluoranthene	630.	U
129-00-0	Pyrene	630.	U
85-68-7	Butylbenzylphthalate	630.	U
91-94-1	3,3'-Dichlorobenzidine	1300.	U
56-55-3	Benzo(a)anthracene	630.	U
218-01-9	Chrysene	630.	U
117-81-7	bis(2-Ethylhexyl)phthalate	630.	U
117-84-0	Di-n-octylphthalate	630.	U
205-99-2	Benzo(b)fluoranthene	630.	U
207-08-9	Benzo(k)fluoranthene	630.	U
50-32-8	Benzo(a)pyrene	630.	U
193-39-5	Indeno(1,2,3-cd)pyrene	630.	U
53-70-3	Dibenzo(a,h)anthracene	630.	U
191-24-2	Benzo(g,h,i)perylene	630.	U

(1) - Cannot be separated from diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SP - SED-1 dup

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: DE0304 SAS No.: SDG No.: SED-1
Matrix: (soil/water) SOIL Lab Sample ID: SED-1
Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0899
Level: (low/med) LOW Date Received: 05/01/03
% Moisture: 47. decanted: (Y/N) N Date Extracted: 05/01/03
Concentrated Extract Volume: 2000.0 (uL) Date Analyzed: 05/27/03
Injection Volume: 2.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 6.4

Number TICs found: 4

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	ALDOL CONDENSATE	6.34	40000.	BJ
2.	10544-50-0	Cyclic octaatomic sulfur	28.33	7000.	J N
3.	- -	UNKNOWN	29.04	600.	J
4.	483-65-8	Phenanthrene, 1-methyl-7-(1-	30.16	800.	J N
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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Sp= SED-1

Lab Name:	AES, INC.				Contract:		
Lab Code:	AES	Case No.	DE 0304	SAS No.:	SDG No.:	SED-1	
Matrix: (soil/water)	Soil				Lab Sample ID:	SED-1	
Sample wt/vol:	30.0	G			Lab File ID:	B731	
% Moisture:	47				Date Received:	05/01/03	
Extraction: (SepF/Cont/Sonc)	Sonc				Date Extracted:	05/05/03	
Concentrated Extract Volume:	10000	uL			Date Analyzed:	05/13/03	
Injection Volume:	1.5	uL			Dilution Factor:	1.0	
GPC Cleanup: (Y/N)	N	pH:	6.4		Sulfur Cleanup: (Y/N)	Y	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.1	U
319-85-7	beta-BHC	3.1	U
319-86-8	delta-BHC	3.1	U
58-89-9	gamma-BHC(Lindane)	3.1	U
76-44-8	Heptachlor	3.1	U
309-00-2	Aldrin	3.1	U
1024-57-3	Heptachlor epoxide	3.1	U
959-98-8	Endosulfan I	3.1	U
60-57-1	Dieldrin	6.3	U
72-55-9	4,4'-DDE	6.3	U
72-20-8	Endrin	6.3	U
33213-65-9	Endosulfan II	6.3	U
72-54-8	4,4'-DDD	6.3	U
1031-07-8	Endosulfan Sulfate	6.3	U
50-29-3	4,4'-DDT	6.3	U
72-43-5	Methoxychlor	31	U
53494-70-5	Endrin Ketone	6.3	U
7421-36-3	Endrin Aldehyde	6.3	U
5103-71-9	alpha-Chlordane	3.1	U
5103-74-2	gamma-Chlordane	3.1	U
8001-35-2	Toxaphene	310	U
12674-11-2	Aroclor 1016	63	U
11104-28-2	Aroclor 1221	63	U
11141-16-5	Aroclor 1232	63	U
53469-21-9	Aroclor 1242	63	U
12672-29-6	Aroclor 1248	63	U
11097-69-1	Aroclor 1254	63	U
11096-82-5	Aroclor 1260	63	U

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SED-1

SF-1 SED

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: DE_0304 SAS No.: _____ SDG No.: SED-1_

Matrix (soil/water): SOIL__ Lab Sample ID: SED-1_____

Level (low/med): LOW___ Date Received: 05/01/03

% Solids: 53.0__

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3740			P
7440-36-0	Antimony	1.2	U	N	P
7440-38-2	Arsenic	0.79	U		P
7440-39-3	Barium	79.0			P
7440-41-7	Beryllium	0.21	B		P
7440-43-9	Cadmium	0.23	U		P
7440-70-2	Calcium	1800	B		P
7440-47-3	Chromium	2.9	B		P
7440-48-4	Cobalt	5.7	B		P
7440-50-8	Copper	54.3		E	P
7439-89-6	Iron	17100			P
7439-92-1	Lead	2.1		N	P
7439-95-4	Magnesium	1150	B		P
7439-96-5	Manganese	86.7			P
7439-97-6	Mercury	0.036	B		AV
7440-02-0	Nickel	0.38	U		P
7440-09-7	Potassium	328	B	E	P
7782-49-2	Selenium	1.2	U	N	P
7440-22-4	Silver	0.38	U		P
7440-23-5	Sodium	196	B	E	P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	12.7	B		P
7440-66-6	Zinc	207		N	P
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

SP-1 Sed 66.1
SED-1

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0304 SAS No.: SDG No.: SED-1

Matrix (soil/water): Soil Lab Sample ID: 030324026-002

Level (Low/Med): Low Date Received: 5/1/03

% Solids: 53.1

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N	1920			EPA 351.3
Ammonia, as N	35.8			EPA 350.1
Nitrate	0.38	U		EPA 300.0
Chemical Oxygen Demand (COD)	433			EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	16900			EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate	290			EPA 300.0
Alkalinity				EPA 310.1
Total Phenols	0.38	U		EPA 420.1
Chloride	122			EPA 300.0
Bromide	19	U		EPA 300.0
Total Suspended Solids (TSS)				EPA 160.2
Specific Conductance				EPA 120.1
Cyanide	0.29	U		EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments _____

FORM I - CONV

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TRAIL SED

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: DE0304 SAS No.: SDG No.: SED-1
Matrix: (soil/water) SOIL Lab Sample ID: TRAIL SED
Sample wt/vol: 5.000 (g/mL) G Lab File ID: C1383
Level: (low/med) LOW Date Received: 05/01/03
% Moisture: not dec. 22. Date Analyzed: 05/09/03
GC Column: RTX502.2 ID: .32 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13.	U
74-83-9	Bromomethane	13.	U
75-01-4	Vinyl Chloride	13.	U
75-00-3	Chloroethane	13.	U
75-09-2	Methylene Chloride	~~6~~ 3.	J M
67-64-1	Acetone	28.	
75-15-0	Carbon Disulfide	6.	U
75-35-4	1,1-Dichloroethene	6.	U
75-34-3	1,1-Dichloroethane	6.	U
156-60-5	1,2-Dichloroethene-trans	6.	U
67-66-3	Chloroform	~~6~~ 4.	J M
107-06-2	1,2-Dichloroethane	6.	U
78-93-3	2-Butanone	~~13~~ 4.	BJ M
71-55-6	1,1,1-Trichloroethane	6.	U
56-23-5	Carbon Tetrachloride	6.	U
75-27-4	Bromodichloromethane	6.	U
78-87-5	1,2-Dichloropropane	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U
79-01-6	Trichloroethene	6.	U
124-48-1	Dibromochloromethane	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U
71-43-2	Benzene	6.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U
75-25-2	Bromoform	6.	U
108-10-1	4-Methyl-2-Pentanone	13.	U
591-78-6	2-Hexanone	13.	U
127-18-4	Tetrachloroethene	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U
108-88-3	Toluene	6.	U
108-90-7	Chlorobenzene	6.	U
100-41-4	Ethylbenzene	6.	U
100-42-5	Styrene	6.	U
156-59-2	1,2-Dichloroethene-cis	6.	U
106-42-3	m,p-Xylenes	6.	U
95-47-6	o-Xylene	6.	U

C&OT

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TRAIL SED

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: DE0304 SAS No.: SDG No.: SED-1
Matrix: (soil/water) SOIL Lab Sample ID: TRAIL SED
Sample wt/vol: 5.000 (g/mL) G Lab File ID: C1383
Level: (low/med) LOW Date Received: 05/01/03
% Moisture: not dec. 22. Date Analyzed: 05/09/03
GC Column: RTX502.2 ID: .32 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	110543	Hexane	6.64	10.	BN
2.					
3.					
4.					
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRAIL SED

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: DE0304 SAS No.: SDG No.: SED-1
Matrix: (soil/water) SOIL Lab Sample ID: TRAIL SED
Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0900
Level: (low/med) LOW Date Received: 05/01/03
% Moisture: 22. decanted: (Y/N) N Date Extracted: 05/01/03
Concentrated Extract Volume: 2000.0 (uL) Date Analyzed: 05/27/03
Injection Volume: 2.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 6.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	430.	U
111-44-4	bis(2-Chloroethyl)ether	430.	U
95-57-8	2-Chlorophenol	430.	U
541-73-1	1,3-Dichlorobenzene	430.	U
106-46-7	1,4-Dichlorobenzene	430.	U
95-50-1	1,2-Dichlorobenzene	430.	U
95-48-7	2-Methylphenol	430.	U
108-60-1	bis(2-chloroisopropyl)ether	430.	U
106-44-5	4-Methylphenol	430.	U
621-64-7	n-Nitroso-di-n-propylamine	430.	U
67-72-1	Hexachloroethane	430.	U
98-95-3	Nitrobenzene	430.	U
78-59-1	Isophorone	430.	U
88-75-5	2-Nitrophenol	430.	U
105-67-9	2,4-Dimethylphenol	430.	U
111-91-1	bis(2-Chloroethoxy)methane	430.	U
120-83-2	2,4-Dichlorophenol	430.	U
120-82-1	1,2,4-Trichlorobenzene	430.	U
91-20-3	Naphthalene	430.	U
106-47-8	4-Chloroaniline	430.	U
87-68-3	Hexachlorobutadiene	430.	U
59-50-7	4-Chloro-3-methylphenol	430.	U
91-57-6	2-Methylnaphthalene	430.	U
77-47-4	Hexachlorocyclopentadiene	430.	U
88-06-2	2,4,6-Trichlorophenol	430.	U
95-95-4	2,4,5-Trichlorophenol	430.	U
91-58-7	2-Chloronaphthalene	430.	U
88-74-4	2-Nitroaniline	2100.	U
131-11-3	Dimethylphthalate	430.	U
208-96-8	Acenaphthylene	430.	U
606-20-2	2,6-Dinitrotoluene	430.	U
99-09-2	3-Nitroaniline	2100.	U
83-32-9	Acenaphthene	430.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRAIL SED

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: DE0304 SAS No.: SDG No.: SED-1
Matrix: (soil/water) SOIL Lab Sample ID: TRAIL SED
Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0900
Level: (low/med) LOW Date Received: 05/01/03
% Moisture: 22. decanted: (Y/N) N Date Extracted: 05/01/03
Concentrated Extract Volume: 2000.0 (uL) Date Analyzed: 05/27/03
Injection Volume: 2.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 6.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2100.	U
100-02-7	4-Nitrophenol	2100.	U
132-64-9	Dibenzofuran	430.	U
121-14-2	2,4-Dinitrotoluene	430.	U
84-66-2	Diethylphthalate	430.	U
7005-72-3	4-Chlorophenyl-phenylether	430.	U
86-73-7	Fluorene	430.	U
100-01-6	4-Nitroaniline	2100.	U
534-52-1	4,6-Dinitro-2-methylphenol	2100.	U
86-30-6	n-Nitrosodiphenylamine	430.	U
101-55-3	4-Bromophenyl-phenylether	430.	U
118-74-1	Hexachlorobenzene	430.	U
87-86-5	Pentachlorophenol	2100.	U
85-01-8	Phenanthrene	430.	U
120-12-7	Anthracene	430.	U
86-74-8	Carbazole	430.	U
84-74-2	Di-n-butylphthalate	430.	U
206-44-0	Fluoranthene	430.	U
129-00-0	Pyrene	430.	U
85-68-7	Butylbenzylphthalate	430.	U
91-94-1	3,3'-Dichlorobenzidine	850.	U
56-55-3	Benzo(a)anthracene	430.	U
218-01-9	Chrysene	430.	U
117-81-7	bis(2-Ethylhexyl)phthalate	430.	U
117-84-0	Di-n-octylphthalate	430.	U
205-99-2	Benzo(b)fluoranthene	430.	U
207-08-9	Benzo(k)fluoranthene	430.	U
50-32-8	Benzo(a)pyrene	430.	U
193-39-5	Indeno(1,2,3-cd)pyrene	430.	U
53-70-3	Dibenzo(a,h)anthracene	430.	U
191-24-2	Benzo(g,h,i)perylene	430.	U

(1) - Cannot be separated from diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TRAIL SED

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: DE0304 SAS No.: SDG No.: SED-1
Matrix: (soil/water) SOIL Lab Sample ID: TRAIL SED
Sample wt/vol: 30.0 (g/mL) G Lab File ID: B0900
Level: (low/med) LOW Date Received: 05/01/03
% Moisture: 22. decanted: (Y/N) N Date Extracted: 05/01/03
Concentrated Extract Volume: 2000.0 (uL) Date Analyzed: 05/27/03
Injection Volume: 2.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 6.9

Number TICs found: 1 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	- -	ALDOL CONDENSATE	6.39	40000.	BJ
2.					
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Trail SED

Lab Name:	AES, INC.				Contract:		
Lab Code:	AES		Case No.	DE 0304	SAS No.:	SDG No.:	SED-1
Matrix: (soil/water)	Soil					Lab Sample ID:	Trail SED
Sample wt/vol:	30.0	G				Lab File ID:	B728
% Moisture:	22					Date Received:	02/24/03
Extraction: (SepF/Cont/Sonc)	Sonc					Date Extracted:	05/05/03
Concentrated Extract Volume:	10000	uL				Date Analyzed:	05/13/03
Injection Volume:	1.5	uL				Dilution Factor:	1.0
GPC Cleanup: (Y/N)	N	pH:	6.9			Sulfur Cleanup: (Y/N)	Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC(Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.3	U
72-55-9	4,4'-DDE	4.3	U
72-20-8	Endrin	4.3	U
33213-65-9	Endosulfan II	4.3	U
72-54-8	4,4'-DDD	4.3	U
1031-07-8	Endosulfan Sulfate	4.3	U
50-29-3	4,4'-DDT	4.3	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin Ketone	4.3	U
7421-36-3	Endrin Aldehyde	4.3	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor 1016	43	U
11104-28-2	Aroclor 1221	43	U
11141-16-5	Aroclor 1232	43	U
53469-21-9	Aroclor 1242	43	U
12672-29-6	Aroclor 1248	43	U
11097-69-1	Aroclor 1254	43	U
11096-82-5	Aroclor 1260	43	U

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRAIL SED

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES__ Case No.: DE_0304 SAS No.: ____ SDG No.: SED-1_

Matrix (soil/water): SOIL__ Lab Sample ID: TRAIL_SED__

Level (low/med): LOW___ Date Received: 05/01/03

% Solids: 78.0__

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3410			P
7440-36-0	Antimony	1.0	B	N	P
7440-38-2	Arsenic	0.54	U		P
7440-39-3	Barium	84.8			P
7440-41-7	Beryllium	0.13	B		P
7440-43-9	Cadmium	0.15	U		P
7440-70-2	Calcium	873	B		P
7440-47-3	Chromium	2.2	B		P
7440-48-4	Cobalt	1.6	B		P
7440-50-8	Copper	0.46	U	E	P
7439-89-6	Iron	20000			P
7439-92-1	Lead	0.54	U	N	P
7439-95-4	Magnesium	1100	B		P
7439-96-5	Manganese	57.1			P
7439-97-6	Mercury	0.033	B		AV
7440-02-0	Nickel	0.26	U		P
7440-09-7	Potassium	293	B	E	P
7782-49-2	Selenium	0.82	U	N	P
7440-22-4	Silver	0.26	U		P
7440-23-5	Sodium	72.4	B	E	P
7440-28-0	Thallium	1.0	U	N	P
7440-62-2	Vanadium	7.8	B		P
7440-66-6	Zinc	12.8		N	P
7440-42-8	Boron				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

Trail SED

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: DE 0304 SAS No.: SDG No.: SED-1

Matrix (soil/water): Soil Lab Sample ID: 030324026-003

Level (Low/Med): Low Date Received: 5/1/03

% Solids: 78.0

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

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N	718			EPA 351.3
Ammonia, as N	28.8			EPA 350.1
Nitrate	0.26	U		EPA 300.0
Chemical Oxygen Demand (COD)	127			EPA 410.4
Biochemical Oxygen Demand (BOD 5)				EPA 405.1
Total Organic Carbon (TOC)	10400			EPA 415.2
Total Dissolved Solids (TDS)				EPA 160.1
Sulfate	13	U		EPA 300.0
Alkalinity				EPA 310.1
Total Phenols	0.26	U		EPA 420.1
Chloride	43			EPA 300.0
Bromide	13	U		EPA 300.0
Total Suspended Solids (TSS)				EPA 160.2
Specific Conductance				EPA 120.1
Cyanide	0.18	U		EPA 335.3
pH				EPA 150.1
Turbidity				EPA 180.1
Color				EPA 110.1
Hexavalent Chromium				SW 7196

Comments

FORM I - CONV

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: SP-7SED LSL Sample ID: 0306010-004

Location:

Sampled: 04/30/03 0:00 Sampled By: EF

Sample Matrix: SHW Dry Wt

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ASTM D3987-85 Water Extraction of Waste					
Water Extraction				5/5/03	RAF
(1) EPA 160.3 Total Solids					
Total Solids @ 103-105 C	46	%		5/5/03	MM
(1) EPA 350.1 Ammonia					
Ammonia as N	110	mg/kg dry		5/12/03	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	800	mg/kg dry	5/13/03	5/14/03	DRB
(1) EPA 6010 Total Metals					
Cadmium	6.9	mg/kg dry	5/5/03	5/2/03	PEF
Calcium	5800	mg/kg dry	5/5/03	5/2/03	PEF
Iron	110000	mg/kg dry	5/5/03	5/12/03	PEF
Lead	48	mg/kg dry	5/5/03	5/12/03	PEF
Magnesium	1100	mg/kg dry	5/5/03	5/2/03	PEF
Manganese	860	mg/kg dry	5/5/03	5/12/03	PEF
Potassium	270	mg/kg dry	5/5/03	5/2/03	PEF
Sodium	<200	mg/kg dry	5/5/03	5/2/03	PEF
(1) EPA 8260B TCL Volatiles					
Acetone	140	ug/kg dry		5/14/03	LEF
Benzene	<10	ug/kg dry		5/14/03	LEF
Bromodichloromethane	<10	ug/kg dry		5/14/03	LEF
Bromoform	<10	ug/kg dry		5/14/03	LEF
Bromomethane	<10	ug/kg dry		5/14/03	LEF
2-Butanone (MEK)	<20	ug/kg dry		5/14/03	LEF
Carbon disulfide	<10	ug/kg dry		5/14/03	LEF
Carbon tetrachloride	<10	ug/kg dry		5/14/03	LEF
Chlorobenzene	<10	ug/kg dry		5/14/03	LEF
Chloroethane	<10	ug/kg dry		5/14/03	LEF
Chloroform	<10	ug/kg dry		5/14/03	LEF
Chloromethane	<10	ug/kg dry		5/14/03	LEF
Dibromochloromethane	<10	ug/kg dry		5/14/03	LEF
1,1-Dichloroethane	<10	ug/kg dry		5/14/03	LEF
1,2-Dichloroethane	<10	ug/kg dry		5/14/03	LEF
1,1-Dichloroethene	<10	ug/kg dry		5/14/03	LEF
1,2-Dichloroethene, Total	<10	ug/kg dry		5/14/03	LEF
1,2-Dichloropropane	<10	ug/kg dry		5/14/03	LEF
cis-1,3-Dichloropropene	<10	ug/kg dry		5/14/03	LEF
trans-1,3-Dichloropropene	<10	ug/kg dry		5/14/03	LEF
Ethyl benzene	<10	ug/kg dry		5/14/03	LEF
2-Hexanone	<20	ug/kg dry		5/14/03	LEF
Methylene chloride	<20	ug/kg dry		5/14/03	LEF
4-Methyl-2-pentanone (MIBK)	<20	ug/kg dry		5/14/03	LEF
Styrene	<10	ug/kg dry		5/14/03	LEF
1,1,2,2-Tetrachloroethane	<10	ug/kg dry		5/14/03	LEF
Tetrachloroethene	<20*	ug/kg dry		5/14/03	LEF
Toluene	<10	ug/kg dry		5/14/03	LEF

Life Science Laboratories, Inc.

Date Printed: 5/19/03

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering *Albany, NY*

Sample ID: SP-7SED **LSL Sample ID:** 0306010-004

Location:

Sampled: 04/30/03 0:00 **Sampled By:** EF

Sample Matrix: SHW Dry Wt

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8260B TCL Volatiles					
1,1,1-Trichloroethane	<10	ug/kg dry		5/14/03	LEF
1,1,2-Trichloroethane	<10	ug/kg dry		5/14/03	LEF
Trichloroethene	<10	ug/kg dry		5/14/03	LEF
Vinyl chloride	<10	ug/kg dry		5/14/03	LEF
Xylenes (Total)	<10	ug/kg dry		5/14/03	LEF
Surrogate (1,2-DCA-d4)	100	%R		5/14/03	LEF
Surrogate (Tol-d8)	107	%R		5/14/03	LEF
Surrogate (4-BFB)	133	%R		5/14/03	LEF
Surrogate recovery was above established control limit due to low Internal Standard recovery. Sample results may be biased high.					
**Elevated detection limit due to the presence of this compound at a low level in the Method Blank.*					
(1) EPA 9060 Total Organic Carbon					
Total Organic Carbon	34200	mg/kg		5/13/03 13:53	TP
Analysis performed by ELAP #10670.					
(1) EPA 9065 Total Phenolics (Dry Wt Basis)					
Phenolics, Total Recoverable	<0.1	mg/kg dry	5/12/03	5/15/03	DWK
(1) Water Extractable EPA 300.0A					
Bromide	<2	mg/kg dry		5/5/03	RAF
Chloride	140	mg/kg dry		5/5/03	RAF
Nitrate as N	3.6	mg/kg dry		5/5/03 23:20	RAF
Although the NYS DOH ELAP specified holding time for this analysis was exceeded, this result may still be valid under NYS DEC 6NYCRR part 360 regulations.					
Sulfate	46	mg/kg dry		5/5/03	RAF
(1) Water Extractable HACH 8000 COD					
Chemical Oxygen Demand	1000	mg/kg dry		5/13/03	DWK

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: CC up LSL Sample ID: 0306008-002

Location:

Sampled: 04/30/03 17:00 Sampled By: EF

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	96	mg/l	5/2/03	5/2/03	PEF
(1) EPA 350.1 Ammonia					
Ammonia as N	<0.03	mg/l		5/12/03	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	0.14	mg/l	5/9/03	5/13/03	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	<4	mg/l		5/2/03 09:05	MM
(1) EPA 420.1 Recoverable Phenolics ML					
Phenolics, Total Recoverable	<0.002	mg/l	5/5/03	5/14/03	DWK
(1) EPA 6010 Total Metals					
Cadmium	<0.01	mg/l	5/2/03	5/2/03	PEF
Calcium	26	mg/l	5/2/03	5/2/03	PEF
Iron	0.18	mg/l	5/2/03	5/2/03	PEF
Lead	<0.01	mg/l	5/2/03	5/2/03	PEF
Magnesium	7.5	mg/l	5/2/03	5/2/03	PEF
Manganese	0.044	mg/l	5/2/03	5/2/03	PEF
Potassium	<1	mg/l	5/2/03	5/2/03	PEF
Sodium	4.6	mg/l	5/2/03	5/2/03	PEF
(1) EPA 8260B TCL Volatiles					
Acetone	<10	ug/l		5/12/03	LEF
Benzene	<5	ug/l		5/12/03	LEF
Bromodichloromethane	<5	ug/l		5/12/03	LEF
Bromoform	<5	ug/l		5/12/03	LEF
Bromomethane	<5	ug/l		5/12/03	LEF
2-Butanone (MEK)	<10	ug/l		5/12/03	LEF
Carbon disulfide	<5	ug/l		5/12/03	LEF
Carbon tetrachloride	<5	ug/l		5/12/03	LEF
Chlorobenzene	<5	ug/l		5/12/03	LEF
Chloroethane	<5	ug/l		5/12/03	LEF
Chloroform	<5	ug/l		5/12/03	LEF
Chloromethane	<5	ug/l		5/12/03	LEF
Dibromochloromethane	<5	ug/l		5/12/03	LEF
1,1-Dichloroethane	<5	ug/l		5/12/03	LEF
1,2-Dichloroethane	<5	ug/l		5/12/03	LEF
1,1-Dichloroethene	<5	ug/l		5/12/03	LEF
1,2-Dichloroethene, Total	<5	ug/l		5/12/03	LEF
1,2-Dichloropropane	<5	ug/l		5/12/03	LEF
cis-1,3-Dichloropropene	<5	ug/l		5/12/03	LEF
trans-1,3-Dichloropropene	<5	ug/l		5/12/03	LEF
Ethyl benzene	<5	ug/l		5/12/03	LEF
2-Hexanone	<10	ug/l		5/12/03	LEF
Methylene chloride	<10	ug/l		5/12/03	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/l		5/12/03	LEF
Styrene	<5	ug/l		5/12/03	LEF

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: CC up LSL Sample ID: 0306008-002

Location:

Sampled: 04/30/03 17:00 Sampled By: EF

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8260B TCL Volatiles					
1,1,2,2-Tetrachloroethane	<5	ug/l		5/12/03	LEF
Tetrachloroethene	<5	ug/l		5/12/03	LEF
Toluene	<5	ug/l		5/12/03	LEF
1,1,1-Trichloroethane	<5	ug/l		5/12/03	LEF
1,1,2-Trichloroethane	<5	ug/l		5/12/03	LEF
Trichloroethene	<5	ug/l		5/12/03	LEF
Vinyl chloride	<5	ug/l		5/12/03	LEF
Xylenes (Total)	<5	ug/l		5/12/03	LEF
Surrogate (1,2-DCA-d4)	108	%R		5/12/03	LEF
Surrogate (Tol-d8)	98	%R		5/12/03	LEF
Surrogate (4-BFB)	104	%R		5/12/03	LEF
(1) EPA Method 300.0 A					
Bromide	<0.1	mg/l		5/2/03	RAF
Chloride	9.3	mg/l		5/2/03	RAF
Nitrate as N	1.7	mg/l		5/2/03 10:58	RAF
Sulfate	8.9	mg/l		5/2/03	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	6.6	mg/l		5/5/03	DWK
(1) SM 18 2320B, Alkalinity as CaCO3					
Alkalinity	24	mg/l		5/7/03	SCO
This result should be considered an estimate due to the presence of headspace in the sample container.					
(1) SM 19 5310C TOC					
Total Organic Carbon	2.7	mg/l		5/6/03	SCO
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	130	mg/l		5/5/03	MM

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: CC Dn LSL Sample ID: 0306008-003

Location:

Sampled: 04/30/03 18:00 Sampled By: EF

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	100	mg/l	5/2/03	5/2/03	PEF
(1) EPA 350.1 Ammonia					
Ammonia as N	<0.03	mg/l		5/12/03	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	0.15	mg/l	5/9/03	5/13/03	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	<4	mg/l		5/2/03 09:07	MM
(1) EPA 420.1 Recoverable Phenolics ML					
Phenolics, Total Recoverable	0.0023	mg/l	5/5/03	5/14/03	DWK
(1) EPA 6010 Total Metals					
Cadmium	<0.01	mg/l	5/2/03	5/2/03	PEF
Calcium	27	mg/l	5/2/03	5/2/03	PEF
Iron	0.19	mg/l	5/2/03	5/2/03	PEF
Lead	<0.01	mg/l	5/2/03	5/2/03	PEF
Magnesium	7.8	mg/l	5/2/03	5/2/03	PEF
Manganese	0.047	mg/l	5/2/03	5/2/03	PEF
Potassium	<1	mg/l	5/2/03	5/2/03	PEF
Sodium	4.6	mg/l	5/2/03	5/2/03	PEF
(1) EPA 8260B TCL Volatiles					
Acetone	<10	ug/l		5/12/03	LEF
Benzene	<5	ug/l		5/12/03	LEF
Bromodichloromethane	<5	ug/l		5/12/03	LEF
Bromoform	<5	ug/l		5/12/03	LEF
Bromomethane	<5	ug/l		5/12/03	LEF
2-Butanone (MEK)	<10	ug/l		5/12/03	LEF
Carbon disulfide	<5	ug/l		5/12/03	LEF
Carbon tetrachloride	<5	ug/l		5/12/03	LEF
Chlorobenzene	<5	ug/l		5/12/03	LEF
Chloroethane	<5	ug/l		5/12/03	LEF
Chloroform	<5	ug/l		5/12/03	LEF
Chloromethane	<5	ug/l		5/12/03	LEF
Dibromochloromethane	<5	ug/l		5/12/03	LEF
1,1-Dichloroethane	<5	ug/l		5/12/03	LEF
1,2-Dichloroethane	<5	ug/l		5/12/03	LEF
1,1-Dichloroethene	<5	ug/l		5/12/03	LEF
1,2-Dichloroethene, Total	<5	ug/l		5/12/03	LEF
1,2-Dichloropropane	<5	ug/l		5/12/03	LEF
cis-1,3-Dichloropropene	<5	ug/l		5/12/03	LEF
trans-1,3-Dichloropropene	<5	ug/l		5/12/03	LEF
Ethyl benzene	<5	ug/l		5/12/03	LEF
2-Hexanone	<10	ug/l		5/12/03	LEF
Methylene chloride	<10	ug/l		5/12/03	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/l		5/12/03	LEF
Styrene	<5	ug/l		5/12/03	LEF

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: CC Dn LSL Sample ID: 0306008-003

Location:

Sampled: 04/30/03 18:00 Sampled By: EF

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8260B TCL Volatiles					
1,1,2,2-Tetrachloroethane	<5	ug/l		5/12/03	LEF
Tetrachloroethene	<5	ug/l		5/12/03	LEF
Toluene	<5	ug/l		5/12/03	LEF
1,1,1-Trichloroethane	<5	ug/l		5/12/03	LEF
1,1,2-Trichloroethane	<5	ug/l		5/12/03	LEF
Trichloroethene	<5	ug/l		5/12/03	LEF
Vinyl chloride	<5	ug/l		5/12/03	LEF
Xylenes (Total)	<5	ug/l		5/12/03	LEF
Surrogate (1,2-DCA-d4)	110	%R		5/12/03	LEF
Surrogate (Tol-d8)	94	%R		5/12/03	LEF
Surrogate (4-BFB)	98	%R		5/12/03	LEF
(1) EPA Method 300.0 A					
Bromide	<0.1	mg/l		5/2/03	RAF
Chloride	8.9	mg/l		5/2/03	RAF
Nitrate as N	1.7	mg/l		5/2/03 11:15	RAF
Sulfate	9.0	mg/l		5/2/03	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	5.7	mg/l		5/5/03	DWK
(1) SM 18 2320B, Alkalinity as CaCO3					
Alkalinity	34	mg/l		5/7/03	SCO
This result should be considered an estimate due to the presence of headspace in the sample container.					
(1) SM 19 5310C TOC					
Total Organic Carbon	2.7	mg/l		5/6/03	SCO
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	110	mg/l		5/7/03	MM

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: CC-R1 eaf LSL Sample ID: 0306008-004

Location:

Sampled: 04/30/03 17:30 Sampled By: EF

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Total Hardness as CaCO3					
Hardness, Total	97	mg/l	5/2/03	5/2/03	PEF
(1) EPA 350.1 Ammonia					
Ammonia as N	0.19	mg/l		5/12/03	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	<0.1	mg/l	5/9/03	5/13/03	DRB
(1) EPA 405.1 BOD-5					
Biochemical Oxygen Demand, 5 Day	<4	mg/l		5/2/03 09:10	MM
(1) EPA 420.1 Recoverable Phenolics ML					
Phenolics, Total Recoverable	<0.002	mg/l	5/5/03	5/14/03	DWK
(1) EPA 6010 Total Metals					
Cadmium	<0.01	mg/l	5/2/03	5/2/03	PEF
Calcium	26	mg/l	5/2/03	5/2/03	PEF
Iron	0.23	mg/l	5/2/03	5/2/03	PEF
Lead	<0.01	mg/l	5/2/03	5/2/03	PEF
Magnesium	7.7	mg/l	5/2/03	5/2/03	PEF
Manganese	0.052	mg/l	5/2/03	5/2/03	PEF
Potassium	<1	mg/l	5/2/03	5/2/03	PEF
Sodium	4.7	mg/l	5/2/03	5/2/03	PEF
(1) EPA 8260B TCL Volatiles					
Acetone	<10	ug/l		5/12/03	LEF
Benzene	<5	ug/l		5/12/03	LEF
Bromodichloromethane	<5	ug/l		5/12/03	LEF
Bromoform	<5	ug/l		5/12/03	LEF
Bromomethane	<5	ug/l		5/12/03	LEF
2-Butanone (MEK)	<10	ug/l		5/12/03	LEF
Carbon disulfide	<5	ug/l		5/12/03	LEF
Carbon tetrachloride	<5	ug/l		5/12/03	LEF
Chlorobenzene	<5	ug/l		5/12/03	LEF
Chloroethane	<5	ug/l		5/12/03	LEF
Chloroform	<5	ug/l		5/12/03	LEF
Chloromethane	<5	ug/l		5/12/03	LEF
Dibromochloromethane	<5	ug/l		5/12/03	LEF
1,1-Dichloroethane	<5	ug/l		5/12/03	LEF
1,2-Dichloroethane	<5	ug/l		5/12/03	LEF
1,1-Dichloroethene	<5	ug/l		5/12/03	LEF
1,2-Dichloroethene, Total	<5	ug/l		5/12/03	LEF
1,2-Dichloropropane	<5	ug/l		5/12/03	LEF
cis-1,3-Dichloropropene	<5	ug/l		5/12/03	LEF
trans-1,3-Dichloropropene	<5	ug/l		5/12/03	LEF
Ethyl benzene	<5	ug/l		5/12/03	LEF
2-Hexanone	<10	ug/l		5/12/03	LEF
Methylene chloride	<10	ug/l		5/12/03	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/l		5/12/03	LEF
Styrene	<5	ug/l		5/12/03	LEF

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering *Albany, NY*

Sample ID: ~~CC-1~~ CC-1 EW LSL Sample ID: 0306008-004

Location:

Sampled: 04/30/03 17:30 Sampled By: EF

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8260B TCL Volatiles					
1,1,2,2-Tetrachloroethane	<5	ug/l		5/12/03	LEF
Tetrachloroethene	<5	ug/l		5/12/03	LEF
Toluene	<5	ug/l		5/12/03	LEF
1,1,1-Trichloroethane	<5	ug/l		5/12/03	LEF
1,1,2-Trichloroethane	<5	ug/l		5/12/03	LEF
Trichloroethene	<5	ug/l		5/12/03	LEF
Vinyl chloride	<5	ug/l		5/12/03	LEF
Xylenes (Total)	<5	ug/l		5/12/03	LEF
Surrogate (1,2-DCA-d4)	109	%R		5/12/03	LEF
Surrogate (Tol-d8)	98	%R		5/12/03	LEF
Surrogate (4-BFB)	100	%R		5/12/03	LEF
(1) EPA Method 300.0 A					
Bromide	<0.1	mg/l		5/2/03	RAF
Chloride	8.9	mg/l		5/2/03	RAF
Nitrate as N	1.7	mg/l		5/2/03 11:33	RAF
Sulfate	9.0	mg/l		5/2/03	RAF
(1) HACH 8000 COD					
Chemical Oxygen Demand	6.2	mg/l		5/5/03	DWK
(1) SM 18 2320B, Alkalinity as CaCO3					
Alkalinity	80	mg/l		5/7/03	SCO
(1) SM 19 5310C TOC					
Total Organic Carbon	2.9	mg/l		5/6/03	SCO
(1) SM18-2540C Total Dissolved Solids					
Total Dissolved Solids @ 180 C	100	mg/l		5/5/03	MM

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: CCUPSED LSL Sample ID: 0306010-001

Location:

Sampled: 04/30/03 0:00 Sampled By: EF

Sample Matrix: SHW Dry Wt

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ASTM D3987-85 Water Extraction of Waste					
Water Extraction				5/5/03	RAF
(1) EPA 160.3 Total Solids					
Total Solids @ 103-105 C	73	%		5/5/03	MM
(1) EPA 350.1 Ammonia					
Ammonia as N	24	mg/kg dry		5/12/03	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	410	mg/kg dry	5/13/03	5/14/03	DRB
(1) EPA 6010 Total Metals					
Cadmium	<1	mg/kg dry	5/5/03	5/5/03	PEF
Calcium	1100	mg/kg dry	5/5/03	5/5/03	PEF
Iron	7500	mg/kg dry	5/5/03	5/5/03	PEF
Lead	4.4	mg/kg dry	5/5/03	5/5/03	PEF
Magnesium	1100	mg/kg dry	5/5/03	5/5/03	PEF
Manganese	460	mg/kg dry	5/5/03	5/5/03	PEF
Potassium	180	mg/kg dry	5/5/03	5/5/03	PEF
Sodium	<100	mg/kg dry	5/5/03	5/5/03	PEF
(1) EPA 8260B TCL Volatiles					
Acetone	<10	ug/kg dry		5/13/03	LEF
Benzene	<7	ug/kg dry		5/13/03	LEF
Bromodichloromethane	<7	ug/kg dry		5/13/03	LEF
Bromoform	<7	ug/kg dry		5/13/03	LEF
Bromomethane	<7	ug/kg dry		5/13/03	LEF
2-Butanone (MEK)	<10	ug/kg dry		5/13/03	LEF
Carbon disulfide	<7	ug/kg dry		5/13/03	LEF
Carbon tetrachloride	<7	ug/kg dry		5/13/03	LEF
Chlorobenzene	<7	ug/kg dry		5/13/03	LEF
Chloroethane	<7	ug/kg dry		5/13/03	LEF
Chloroform	<7	ug/kg dry		5/13/03	LEF
Chloromethane	<7	ug/kg dry		5/13/03	LEF
Dibromochloromethane	<7	ug/kg dry		5/13/03	LEF
1,1-Dichloroethane	<7	ug/kg dry		5/13/03	LEF
1,2-Dichloroethane	<7	ug/kg dry		5/13/03	LEF
1,1-Dichloroethene	<7	ug/kg dry		5/13/03	LEF
1,2-Dichloroethene, Total	<7	ug/kg dry		5/13/03	LEF
1,2-Dichloropropane	<7	ug/kg dry		5/13/03	LEF
cis-1,3-Dichloropropene	<7	ug/kg dry		5/13/03	LEF
trans-1,3-Dichloropropene	<7	ug/kg dry		5/13/03	LEF
Ethyl benzene	<7	ug/kg dry		5/13/03	LEF
2-Hexanone	<10	ug/kg dry		5/13/03	LEF
Methylene chloride	<10	ug/kg dry		5/13/03	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/kg dry		5/13/03	LEF
Styrene	<7	ug/kg dry		5/13/03	LEF
1,1,2,2-Tetrachloroethane	<7	ug/kg dry		5/13/03	LEF
Tetrachloroethene	<10*	ug/kg dry		5/13/03	LEF
Toluene	<7	ug/kg dry		5/13/03	LEF

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID:	CCUPSED	**LSL Sample ID:**	0306010-001
Location:			
Sampled:	04/30/03 0:00	**Sampled By:**	EF
Sample Matrix:	SHW Dry Wt		

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time		Analyst Initials
(1) EPA 8260B TCL Volatiles						
1,1,1-Trichloroethane	<7	ug/kg dry		5/13/03		LEF
1,1,2-Trichloroethane	<7	ug/kg dry		5/13/03		LEF
Trichloroethene	<7	ug/kg dry		5/13/03		LEF
Vinyl chloride	<7	ug/kg dry		5/13/03		LEF
Xylenes (Total)	<7	ug/kg dry		5/13/03		LEF
Surrogate (1,2-DCA-d4)	101	%R		5/13/03		LEF
Surrogate (Tol-d8)	107	%R		5/13/03		LEF
Surrogate (4-BFB)	117	%R		5/13/03		LEF
**Elevated detection limit due to the presence of this compound at a low level in the Method Blank.*						
(1) EPA 9060 Total Organic Carbon						
Total Organic Carbon	5140	mg/kg		5/13/03	13:03	TP
Analysis performed by ELAP #10670.						
(1) EPA 9065 Total Phenolics (Dry Wt Basis)						
Phenolics, Total Recoverable	<0.1	mg/kg dry	5/12/03	5/15/03		DWK
A trace amount of this analyte was detected in the laboratory blank.						
(1) Water Extractable EPA 300.0A						
Bromide	<1	mg/kg dry		5/5/03		RAF
Chloride	40	mg/kg dry		5/5/03		RAF
Nitrate as N	1.7	mg/kg dry		5/5/03	21:52	RAF
Although the NYS DOH ELAP specified holding time for this analysis was exceeded, this result may still be valid under NYS DEC 6NYCRR part 360 regulations.						
Sulfate	26	mg/kg dry		5/5/03		RAF
(1) Water Extractable HACH 8000 COD						
Chemical Oxygen Demand	450	mg/kg dry		5/13/03		DWK

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering *Albany, NY*

Sample ID: CCDNSED LSL Sample ID: 0306010-002

Location:

Sampled: 04/30/03 0:00 Sampled By: EF

Sample Matrix: SHW Dry Wt

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ASTM D3987-85 Water Extraction of Waste					
Water Extraction				5/5/03	RAF
(1) EPA 160.3 Total Solids					
Total Solids @ 103-105 C	74	%		5/5/03	MM
(1) EPA 350.1 Ammonia					
Ammonia as N	21	mg/kg dry		5/12/03	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	150	mg/kg dry	5/13/03	5/14/03	DRB
(1) EPA 6010 Total Metals					
Cadmium	<1	mg/kg dry	5/5/03	5/5/03	PEF
Calcium	1600	mg/kg dry	5/5/03	5/5/03	PEF
Iron	6900	mg/kg dry	5/5/03	5/5/03	PEF
Lead	4.2	mg/kg dry	5/5/03	5/5/03	PEF
Magnesium	1400	mg/kg dry	5/5/03	5/5/03	PEF
Manganese	180	mg/kg dry	5/5/03	5/5/03	PEF
Potassium	160	mg/kg dry	5/5/03	5/5/03	PEF
Sodium	<100	mg/kg dry	5/5/03	5/5/03	PEF
(1) EPA 8260B TCL Volatiles					
Acetone	<10	ug/kg dry		5/13/03	LEF
Benzene	<7	ug/kg dry		5/13/03	LEF
Bromodichloromethane	<7	ug/kg dry		5/13/03	LEF
Bromoform	<7	ug/kg dry		5/13/03	LEF
Bromomethane	<7	ug/kg dry		5/13/03	LEF
2-Butanone (MEK)	<10	ug/kg dry		5/13/03	LEF
Carbon disulfide	<7	ug/kg dry		5/13/03	LEF
Carbon tetrachloride	<7	ug/kg dry		5/13/03	LEF
Chlorobenzene	<7	ug/kg dry		5/13/03	LEF
Chloroethane	<7	ug/kg dry		5/13/03	LEF
Chloroform	<7	ug/kg dry		5/13/03	LEF
Chloromethane	<7	ug/kg dry		5/13/03	LEF
Dibromochloromethane	<7	ug/kg dry		5/13/03	LEF
1,1-Dichloroethane	<7	ug/kg dry		5/13/03	LEF
1,2-Dichloroethane	<7	ug/kg dry		5/13/03	LEF
1,1-Dichloroethene	<7	ug/kg dry		5/13/03	LEF
1,2-Dichloroethene, Total	<7	ug/kg dry		5/13/03	LEF
1,2-Dichloropropane	<7	ug/kg dry		5/13/03	LEF
cis-1,3-Dichloropropene	<7	ug/kg dry		5/13/03	LEF
trans-1,3-Dichloropropene	<7	ug/kg dry		5/13/03	LEF
Ethyl benzene	<7	ug/kg dry		5/13/03	LEF
2-Hexanone	<10	ug/kg dry		5/13/03	LEF
Methylene chloride	<10	ug/kg dry		5/13/03	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/kg dry		5/13/03	LEF
Styrene	<7	ug/kg dry		5/13/03	LEF
1,1,2,2-Tetrachloroethane	<7	ug/kg dry		5/13/03	LEF
Tetrachloroethene	<10*	ug/kg dry		5/13/03	LEF
Toluene	<7	ug/kg dry		5/13/03	LEF

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering *Albany, NY*

Sample ID: CCDNSED LSL Sample ID: 0306010-002

Location:

Sampled: 04/30/03 0:00 Sampled By: EF

Sample Matrix: SHW Dry Wt

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8260B TCL Volatiles					
1,1,1-Trichloroethane	<7	ug/kg dry		5/13/03	LEF
1,1,2-Trichloroethane	<7	ug/kg dry		5/13/03	LEF
Trichloroethene	<7	ug/kg dry		5/13/03	LEF
Vinyl chloride	<7	ug/kg dry		5/13/03	LEF
Xylenes (Total)	<7	ug/kg dry		5/13/03	LEF
Surrogate (1,2-DCA-d4)	99	%R		5/13/03	LEF
Surrogate (Tol-d8)	109	%R		5/13/03	LEF
Surrogate (4-BFB)	114	%R		5/13/03	LEF
**Elevated detection limit due to the presence of this compound at a low level in the Method Blank.*					
(1) EPA 9060 Total Organic Carbon					
Total Organic Carbon	2930	mg/kg		5/13/03 14:10	TP
Analysis performed by ELAP #10670.					
(1) EPA 9065 Total Phenolics (Dry Wt Basis)					
Phenolics, Total Recoverable	<0.1	mg/kg dry	5/12/03	5/15/03	DWK
(1) Water Extractable EPA 300.0A					
Bromide	<1	mg/kg dry		5/5/03	RAF
Chloride	63	mg/kg dry		5/5/03	RAF
Nitrate as N	1.4	mg/kg dry		5/5/03 22:45	RAF
Although the NYS DOH ELAP specified holding time for this analysis was exceeded, this result may still be valid under NYS DEC 6NYCRR part 360 regulations.					
Sulfate	20	mg/kg dry		5/5/03	RAF
(1) Water Extractable HACH 8000 COD					
Chemical Oxygen Demand	76	mg/kg dry		5/13/03	DWK

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: CC-1SED LSL Sample ID: 0306010-003

Location:

Sampled: 04/30/03 0:00 Sampled By: EF

Sample Matrix: SHW Dry Wt

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) ASTM D3987-85 Water Extraction of Waste					
Water Extraction				5/5/03	RAF
(1) EPA 160.3 Total Solids					
Total Solids @ 103-105 C	68	%		5/5/03	MM
(1) EPA 350.1 Ammonia					
Ammonia as N	26	mg/kg dry		5/12/03	DRB
(1) EPA 351.2 TKN as N					
Total Kjeldahl Nitrogen	760	mg/kg dry	5/13/03	5/14/03	DRB
(1) EPA 6010 Total Metals					
Cadmium	<1	mg/kg dry	5/5/03	5/5/03	PEF
Calcium	2600	mg/kg dry	5/5/03	5/5/03	PEF
Iron	7000	mg/kg dry	5/5/03	5/5/03	PEF
Lead	4.8	mg/kg dry	5/5/03	5/5/03	PEF
Magnesium	2200	mg/kg dry	5/5/03	5/5/03	PEF
Manganese	410	mg/kg dry	5/5/03	5/5/03	PEF
Potassium	190	mg/kg dry	5/5/03	5/5/03	PEF
Sodium	<100	mg/kg dry	5/5/03	5/5/03	PEF
(1) EPA 8260B TCL Volatiles					
Acetone	<10	ug/kg dry		5/13/03	LEF
Benzene	<7	ug/kg dry		5/13/03	LEF
Bromodichloromethane	<7	ug/kg dry		5/13/03	LEF
Bromoform	<7	ug/kg dry		5/13/03	LEF
Bromomethane	<7	ug/kg dry		5/13/03	LEF
2-Butanone (MEK)	<10	ug/kg dry		5/13/03	LEF
Carbon disulfide	<7	ug/kg dry		5/13/03	LEF
Carbon tetrachloride	<7	ug/kg dry		5/13/03	LEF
Chlorobenzene	<7	ug/kg dry		5/13/03	LEF
Chloroethane	<7	ug/kg dry		5/13/03	LEF
Chloroform	<7	ug/kg dry		5/13/03	LEF
Chloromethane	<7	ug/kg dry		5/13/03	LEF
Dibromochloromethane	<7	ug/kg dry		5/13/03	LEF
1,1-Dichloroethane	<7	ug/kg dry		5/13/03	LEF
1,2-Dichloroethane	<7	ug/kg dry		5/13/03	LEF
1,1-Dichloroethene	<7	ug/kg dry		5/13/03	LEF
1,2-Dichloroethene, Total	<7	ug/kg dry		5/13/03	LEF
1,2-Dichloropropane	<7	ug/kg dry		5/13/03	LEF
cis-1,3-Dichloropropene	<7	ug/kg dry		5/13/03	LEF
trans-1,3-Dichloropropene	<7	ug/kg dry		5/13/03	LEF
Ethyl benzene	<7	ug/kg dry		5/13/03	LEF
2-Hexanone	<10	ug/kg dry		5/13/03	LEF
Methylene chloride	<10	ug/kg dry		5/13/03	LEF
4-Methyl-2-pentanone (MIBK)	<10	ug/kg dry		5/13/03	LEF
Styrene	<7	ug/kg dry		5/13/03	LEF
1,1,2,2-Tetrachloroethane	<7	ug/kg dry		5/13/03	LEF
Tetrachloroethene	<10*	ug/kg dry		5/13/03	LEF
Toluene	<7	ug/kg dry		5/13/03	LEF

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

-- LABORATORY ANALYSIS REPORT --

Delaware Engineering Albany, NY

Sample ID: CC-1SED LSL Sample ID: 0306010-003

Location:

Sampled: 04/30/03 0:00 Sampled By: EF

Sample Matrix: SHW Dry Wt

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time		Analyst Initials
(1) EPA 8260B TCL Volatiles						
1,1,1-Trichloroethane	<7	ug/kg dry		5/13/03		LEF
1,1,2-Trichloroethane	<7	ug/kg dry		5/13/03		LEF
Trichloroethene	<7	ug/kg dry		5/13/03		LEF
Vinyl chloride	<7	ug/kg dry		5/13/03		LEF
Xylenes (Total)	<7	ug/kg dry		5/13/03		LEF
Surrogate (1,2-DCA-d4)	103	%R		5/13/03		LEF
Surrogate (Tol-d8)	107	%R		5/13/03		LEF
Surrogate (4-BFB)	114	%R		5/13/03		LEF
**Elevated detection limit due to the presence of this compound at a low level in the Method Blank.*						
(1) EPA 9060 Total Organic Carbon						
Total Organic Carbon	9860	mg/kg		5/13/03	14:18	TP
Analysis performed by ELAP #10670.						
(1) EPA 9065 Total Phenolics (Dry Wt Basis)						
Phenolics, Total Recoverable	<0.1	mg/kg dry	5/12/03	5/15/03		DWK
(1) Water Extractable EPA 300.0A						
Bromide	<1	mg/kg dry		5/5/03		RAF
Chloride	74	mg/kg dry		5/5/03		RAF
Nitrate as N	2.8	mg/kg dry		5/5/03	23:02	RAF
Although the NYS DOH ELAP specified holding time for this analysis was exceeded, this result may still be valid under NYS DEC 6NYCRR part 360 regulations.						
Sulfate	30	mg/kg dry		5/5/03		RAF
(1) Water Extractable HACH 8000 COD						
Chemical Oxygen Demand	260	mg/kg dry		5/13/03		DWK

APPENDIX B

SEEP PHOTOGRAPHS

SEEP SP-1 LOCATED NORTHEAST OF LANDFILL

SEEP SP-9 LOCATED NORTHEAST OF LANDFILL

SEEP ALONG RAILROAD BED (TRAIL)

SEEP SP-7 EAST OF LANDFILL

SEEP SP-4 WEST SIDE OF LANDFILL

SEEP SP-6 SOUTH SIDE OF LANDFILL