

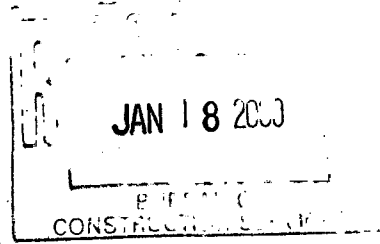
Report. HW. 633042. 2000-01-05. Polka Dot
Dry Cleaning Investigation



O'BRIEN & GERE
ENGINEERS, INC.

January 5, 2000

Mr. Steven Stucker
Niagara Mohawk Power Corporation
300 Erie Boulevard, West
Syracuse, NY 13202



Re: Polka Dot Property

File: 1118.080 #2

Dear Mr. Stucker:

The following presents a summary of the investigations conducted at the Polka Dot Dry Cleaning property located on Erie Boulevard in the City of Rome, New York. This work was completed in connection with the above-referenced project as outlined in our letter dated October 15, 1999.

Monitoring well installation

Two monitoring wells, designated MW-9 and MW-10, were installed on October 4, 1999 at the locations presented on the attached figure. The borings for the wells were completed using hollow-stem auger drilling methods in accordance with NMPC's Generic Field Sampling Plan dated November 1997. Soil samples were collected continuously from the surface to the terminal depth of the boring and screened for VOCs using a photoionization detector (PID). Consistent with the wells previously installed at the Niagara Mohawk Property, the monitoring wells were installed to 19 ft below grade and constructed of 15 ft of 2 inch ID PVC, 0.010 inch slot well screen attached to PVC riser casing. The wellheads were completed using flush-mounted protective casings. Upon completion, the wells were developed to remove fine-grained materials and enhance the hydraulic connection between the well and aquifer material. Well logs containing detailed soil descriptions, PID readings, and well completion information are included as Attachment 1.

Soils generated during the well completion were placed in drums and staged at the adjacent Niagara Mohawk Power Corporation (NMPC) property pending offsite disposal.

The drilling equipment was decontaminated after completion of each well using a high-pressure steam cleaner. The decontamination pad was established on the adjacent NMPC Property for this purpose.

Soils and ground water analysis

Two soil samples from each of the new well borings were submitted to O'Brien & Gere Laboratories, Inc. for analysis of TCL/TAL parameters in accordance with NYS ASP methods with Category B deliverables. QA/QC samples were not collected. However, the analytical data was reviewed by Data



O'Brien & Gere Engineers, Inc., an O'Brien & Gere company
5000 Brittonfield Parkway / P.O. Box 4873, Syracuse, New York 13221-4873
(315) 437-6100 / FAX (315) 463-7554 • [http:// www.obg.com](http://www.obg.com)
... and offices in major U.S. cities

Validation Services, Inc. and the results included on Tables 1, 2, 3, and 4 were qualified as appropriate based on this review. Analytical report forms are included as Attachment 2.

Ground water samples were collected from each of the wells on October 19, 1999. Consistent with the October 15, 1999 letter, the samples were collected using disposable PVC bailers following removal of three well volumes of water from the well. Field measurements of pH, specific conductance, and temperature were collected during well purging and sample collection. This information is contained on the ground water sampling logs included as Attachment 3.

The collected ground water samples were submitted to O'Brien & Gere Laboratories, Inc. for analysis of volatile organic compounds (VOCs) in accordance with USEPA method 8260 and PAHs in accordance with USEPA method 8270. The analyses were conducted in accordance with NYS ASP procedures and Category B deliverable packages were provided. The analytical data was reviewed by Data Validation Services, Inc. and the results included on the Tables 5 and 6 were qualified as appropriate based on this review. Analytical report forms are included as Attachment 2.

Summary

Review of the well logs indicates that the soils underlying the site consist of fine to coarse sand at the surface, with grain size becoming finer with depth to predominantly fine sand. A peat layer was also noted in the MW-9 location from 4 to 8 ft. Ground water was encountered at approximately 6 ft below grade.

The PID screening results were at background levels. In the absence of PID data for guidance, soil samples were collected from the following intervals for analysis.

MW-9 10-12 ft
MW-9 18-20 ft
MW-10 6-8 ft
MW-10 18-20 ft

Analytical data indicate that the soil from the 10 to 12 ft sample from MW-9 contained tetrachloroethene (PCE) at 10 ppb and trichloroethene (TCE) at approximately 2 ppb. In addition, the soil from the 6 to 8 ft sample from MW-10 contained 6 ppb of PCE. No other volatile or semi-volatile compounds were detected. Inorganic constituents were also detected in the soils with the levels being considered to be within background range.

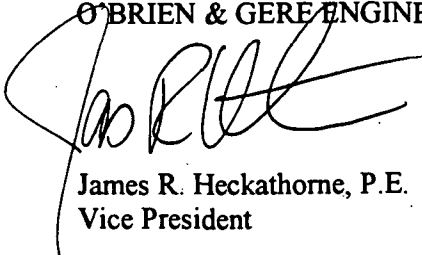
The analytical results of the ground water samples indicate the presence of volatile organic compounds PCE at 12 ppb, TCE at 3 ppb, 1,1,1-trichloroethane at 2 ppb, and chloroform at 2 ppb in MW-9. In MW-10, low levels (1 to 2 ppb) of a few polynuclear aromatic hydrocarbons were found to be present. Chloroform was also detected at 23 ppb. No other volatile or semi-volatile organic compounds were detected.

Mr. Steven Stucker
January 5, 2000
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Should you have any questions pertaining to this information or the project in general, please do not hesitate to contact this office.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.



James R. Heckathorne, P.E.
Vice President

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Attachments

cc: DY Wright - O'Brien & Gere



TCL Volatile Organic Compound Data

Compound	TAGM Recommended Soil Cleanup mg/Kg	MW-09 10 - 12 ft 10/14/99 mg/Kg Soil	MW-09 18 - 20 ft 10/14/99 mg/Kg Soil	MW-10 18 - 20 ft 10/14/99 mg/Kg Soil	MW-10 6 - 8 ft 10/14/99 mg/Kg Soil
1,1,1-Trichloroethane	0.8	0.013 U	0.012 U	0.012 U	0.011 U
1,1,2,2-Tetrachloroethane	0.6	0.013 U	0.012 U	0.012 U	0.011 U
1,1,2-Trichloroethane	NC	0.013 U	0.012 U	0.012 U	0.011 U
1,1-Dichloroethane	0.2	0.013 U	0.012 U	0.012 U	0.011 U
1,1-Dichloroethene	0.4	0.013 U	0.012 U	0.012 U	0.011 U
1,2-Dichloroethane	0.1	0.013 U	0.012 U	0.012 U	0.011 U
1,2-Dichloroethene	NC	0.013 U	0.012 U	0.012 U	0.011 U
1,2-Dichloropropane	NC	0.013 U	0.012 U	0.012 U	0.011 U
2-Butanone (MEK)	0.3	0.013 U	0.012 U	0.012 U	0.011 U
2-Hexanone	NC	0.013 U	0.012 U	0.012 U	0.011 U
4-Methyl-2-pentanone (MIBK)	1	0.013 U	0.012 U	0.012 U	0.011 U
Acetone	0.2	0.013 U	0.012 U	0.012 U	0.011 U
Benzene	0.06	0.013 U	0.012 U	0.012 U	0.011 U
Bromodichloromethane	NC	0.013 U	0.012 U	0.012 U	0.011 U
Bromoform	NC	0.013 U	0.012 U	0.012 U	0.011 U
Bromomethane	NC	0.013 U	0.012 U	0.012 U	0.011 U
Carbon disulfide	2.7	0.013 U	0.012 U	0.012 U	0.011 U
Carbon tetrachloride	0.6	0.013 U	0.012 U	0.012 U	0.011 U
Chlorobenzene	1.7	0.013 U	0.012 U	0.012 U	0.011 U
Chloroethane	1.9	0.013 U	0.012 U	0.012 U	0.011 U
Chloroform	0.3	0.013 U	0.012 U	0.004 J	0.011 U
Chloromethane	NC	0.013 U	0.012 U	0.012 U	0.011 U
Dibromochloromethane	NC	0.013 U	0.012 U	0.012 U	0.011 U
Ethylbenzene	5.5	0.013 U	0.012 U	0.012 U	0.011 U
Methylene chloride	0.1	0.002 J	0.012 U	0.002 J	0.002 J

NOTES: NC - no applicable criteria, --- - not analyzed, J or B - estimated value, E - outside instrument linear range, D - diluted analysis, N - tentatively identified, R - unusable, use data from alternate analysis.
* - exceeds standard.



TCL Volatile Organic Compound Data

Compound	TAGM Recommended Soil Cleanup mg/Kg	MW-09 10 - 12 ft 10/14/99 mg/Kg Soil	MW-09 18 - 20 ft 10/14/99 mg/Kg Soil	MW-10 18 - 20 ft 10/14/99 mg/Kg Soil	MW-10 6 - 8 ft 10/14/99 mg/Kg Soil
Styrene	NC	0.013 U	0.012 U	0.012 U	0.011 U
Tetrachloroethene	1.4	0.01 J	0.012 U	0.012 U	0.006 J
Toluene	1.5	0.013 U	0.012 U	0.012 U	0.011 U
Trichloroethene	0.7	0.002 J	0.012 U	0.012 U	0.011 U
Vinyl chloride	0.2	0.013 U	0.012 U	0.012 U	0.011 U
Xylene (total)	1.2	0.013 U	0.012 U	0.012 U	0.011 U
cis-1,2-Dichloroethene	0.25	0.013 U	0.012 U	0.012 U	0.011 U
cis-1,3-Dichloropropylenc	NC	0.013 U	0.012 U	0.012 U	0.011 U
trans-1,2-Dichloroethene	0.3	0.013 U	0.012 U	0.012 U	0.011 U
trans-1,3-Dichloropropene	NC	0.013 U	0.012 U	0.012 U	0.011 U

NOTES: NC - no applicable criteria, --- - not analyzed, J or B - estimated value, E - outside instrument linear range, D - diluted analysis, N - tentatively identified, R - unusable, use data from alternate analysis.
* - exceeds standard.



TCL Semivolatile Organic Compound Data

Compound	TAGM Recommended Soil Cleanup mg/Kg	MW-09 10 - 12 ft 10/14/99 mg/Kg Soil	MW-09 18 - 20 ft 10/14/99 mg/Kg Soil	MW-10 18 - 20 ft 10/14/99 mg/Kg Soil	MW-10 6 - 8 ft 10/14/99 mg/Kg Soil
1,2,4-Trichlorobenzene	3.4	0.42 U	0.42 U	0.39 U	0.38 U
1,2-Dichlorobenzene	7.9	0.42 U	0.42 U	0.39 U	0.38 U
1,3-Dichlorobenzene	1.6	0.42 U	0.42 U	0.39 U	0.38 U
1,4-Dichlorobenzene	8.5	0.42 U	0.42 U	0.39 U	0.38 U
2,2'-oxybis(1-Chloropropane)	NC	0.42 U	0.42 U	0.39 U	0.38 U
2,4,5-Trichlorophenol	0.1	1.1 U	1.0 U	0.98 U	0.95 U
2,4,6-Trichlorophenol	NC	0.42 U	0.42 U	0.39 U	0.38 U
2,4-Dichlorophenol	0.4	0.42 U	0.42 U	0.39 U	0.38 U
2,4-Dimethylphenol	NC	0.42 U	0.42 U	0.39 U	0.38 U
2,4-Dinitrophenol	0.2	1.1 U	1.0 U	0.98 U	0.95 U
2,4-Dinitrotoluene	NC	0.42 U	0.42 U	0.39 U	0.38 U
2,6-Dinitrotoluene	1	0.42 U	0.42 U	0.39 U	0.38 U
2-Chloronaphthalene	NC	0.42 U	0.42 U	0.39 U	0.38 U
2-Chlorophenol	0.8	0.42 U	0.42 U	0.39 U	0.38 U
2-Methylnaphthalene	36.4	0.42 U	0.42 U	0.39 U	0.38 U
2-Methylphenol	0.1	0.42 U	0.42 U	0.39 U	0.38 U
2-Nitroaniline	0.43	1.1 U	1.0 U	0.98 U	0.95 U
2-Nitrophenol	0.33	0.42 U	0.42 U	0.39 U	0.38 U
3,3-Dichlorobenzidine	NC	0.42 U	0.42 U	0.39 U	0.38 U
3-Nitroaniline	0.5	1.1 U	1.0 U	0.98 U	0.95 U
4,6-Dinitro-2-methylphenol	NC	1.1 U	1.0 U	0.98 U	0.95 U
4-Bromophenyl phenyl ether	NC	0.42 U	0.42 U	0.39 U	0.38 U
4-Chloro-3-methylphenol	0.24	0.42 U	0.42 U	0.39 U	0.38 U
4-Chloroaniline	0.22	0.42 U	0.42 U	0.39 U	0.38 U
4-Chlorophenyl phenyl ether	NC	0.42 U	0.42 U	0.39 U	0.38 U

NOTES: NC - no applicable criteria, --- - not analyzed, J or B - estimated value, E - outside instrument linear range, D - diluted analysis, N - tentatively identified, R - unusable, use data from alternate analysis.
* - exceeds standard.



TCL Semivolatile Organic Compound Data

Compound	TAGM Recommended Soil Cleanup mg/Kg	MW-09 10 - 12 ft 10/14/99 mg/Kg Soil	MW-09 18 - 20 ft 10/14/99 mg/Kg Soil	MW-10 18 - 20 ft 10/14/99 mg/Kg Soil	MW-10 6 - 8 ft 10/14/99 mg/Kg Soil
4-Methylphenol	0.9	0.42 U	0.42 U	0.39 U	0.38 U
4-Nitroaniline	NC	1.1 U	1.0 U	0.98 U	0.95 U
4-Nitrophenol	0.1	1.1 U	1.0 U	0.98 U	0.95 U
Acenaphthene	50	0.42 U	0.42 U	0.39 U	0.38 U
Acenaphthylene	41	0.42 U	0.42 U	0.39 U	0.38 U
Anthracene	50	0.42 U	0.42 U	0.39 U	0.38 U
Benzo(a)anthracene	0.224*	0.42 U	0.42 U	0.39 U	0.38 U
Benzo[a]pyrene	0.061*	0.42 U	0.42 U	0.39 U	0.38 U
Benzo(b)fluoranthene	0.224*	0.42 U	0.42 U	0.39 U	0.38 U
Benzo(ghi)perylene	50	0.42 U	0.42 U	0.39 U	0.38 U
Benzo(k)fluoranthene	0.224*	0.42 U	0.42 U	0.39 U	0.38 U
Butyl benzyl phthalate	50	0.42 U	0.42 U	0.39 U	0.38 U
Carbazole	NC	0.42 U	0.42 U	0.39 U	0.38 U
Chrysene	0.4*	0.42 U	0.42 U	0.39 U	0.38 U
Di-n-butyl phthalate	8.1	0.42 U	0.42 U	0.39 U	0.38 U
Di-n-octyl phthalate	50	0.42 U	0.42 U	0.39 U	0.38 U
Dibenzo(a,h)anthracene	0.014*	0.42 U	0.42 U	0.39 U	0.38 U
Dibenzofuran	6.2	0.42 U	0.42 U	0.39 U	0.38 U
Diethyl phthalate	7.1	0.42 U	0.42 U	0.39 U	0.38 U
Dimethyl phthalate	2	0.42 U	0.42 U	0.39 U	0.38 U
Fluoranthene	50	0.42 U	0.42 U	0.39 U	0.38 U
Fluorene	50	0.42 U	0.42 U	0.39 U	0.38 U
Hexachlorobenzene	0.41	0.42 U	0.42 U	0.39 U	0.38 U
Hexachlorobutadiene	NC	0.42 U	0.42 U	0.39 U	0.38 U
Hexachlorocyclopentadiene	NC	0.42 U	0.42 U	0.39 U	0.38 U

NOTES: NC - no applicable criteria, --- - not analyzed, J or B - estimated value, E - outside instrument linear range, D - diluted analysis, N - tentatively identified, R - unusable, use data from alternate analysis.
* - exceeds standard.



TCL Semivolatile Organic Compound Data

Compound	TAGM Recommended Soil Cleanup mg/Kg	MW-09 10 - 12 ft 10/14/99 mg/Kg Soil	MW-09 18 - 20 ft 10/14/99 mg/Kg Soil	MW-10 18 - 20 ft 10/14/99 mg/Kg Soil	MW-10 6 - 8 ft 10/14/99 mg/Kg Soil
Hexachloroethane	NC	0.42 U	0.42 U	0.39 U	0.38 U
Indeno(1,2,3-cd)pyrene	3.2*	0.42 U	0.42 U	0.39 U	0.38 U
Isophorone	4.4	0.42 U	0.42 U	0.39 U	0.38 U
N-Nitrosodipropylamine	NC	0.42 U	0.42 U	0.39 U	0.38 U
Naphthalene	13	0.42 U	0.42 U	0.39 U	0.38 U
Nitrobenzene	0.2	0.42 U	0.42 U	0.39 U	0.38 U
Pentachlorophenol	1	1.1 U	1.0 U	0.98 U	0.95 U
Phenanthrene	50	0.42 U	0.42 U	0.39 U	0.38 U
Phenol	0.03	0.42 U	0.42 U	0.39 U	0.38 U
Pyrene	50	0.42 U	0.42 U	0.39 U	0.38 U
bis(2-Chloroethoxy)methane	NC	0.42 U	0.42 U	0.39 U	0.38 U
bis(2-Ghloroethyl)ether	NC	0.42 U	0.42 U	0.39 U	0.38 U
bis(2-Ethylhexyl)phthalate (BEHP)	50	0.22 J	0.25 J	0.78	0.58
n-Nitrosodiphenylamine	NC	0.42 U	0.42 U	0.39 U	0.38 U

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* - exceeds standard.



Compound	TAGM Recommended Soil Cleanup mg/Kg	MW-09 10 - 12 ft 10/14/99 mg/Kg Soil	MW-09 18 - 20 ft 10/14/99 mg/Kg Soil	MW-10 18 - 20 ft 10/14/99 mg/Kg Soil	MW-10 6 - 8 ft 10/14/99 mg/Kg Soil
4,4'-DDD	2.9	0.0002 J	0.0042 U	0.0039 U	0.0038 U
4,4'-DDE	2.1	0.0003 J	0.0001 J	0.0001 J P	0.0004 J
4,4'-DDT	2.1	0.0042 U	0.0042 U	0.0039 U	0.0038 U
Aldrin	0.041	0.0021 U	0.0021 U	0.002 U	0.0019 U
Aroclor 1016	NC	0.042 U	0.042 U	0.039 U	0.038 U
Aroclor 1221	NC	0.084 U	0.083 U	0.079 U	0.076 U
Aroclor 1232	NC	0.042 U	0.042 U	0.039 U	0.038 U
Aroclor 1242	NC	0.042 U	0.042 U	0.039 U	0.038 U
Aroclor 1248	NC	0.042 U	0.042 U	0.039 U	0.038 U
Aroclor 1254	NC	0.042 U	0.042 U	0.039 U	0.038 U
Aroclor 1260	NC	0.042 U	0.042 U	0.039 U	0.038 U
Dieldrin	0.044	0.0042 U	0.0042 U	0.0039 U	0.0038 U
Endosulfan I	0.9	0.0021 U	0.0021 U	0.002 U	0.0019 U
Endosulfan II	0.9	0.0042 U	0.0042 U	0.0039 U	0.0038 U
Endosulfan sulfate	1	0.0042 U	0.0042 U	0.0039 U	0.0038 U
Endrin	0.1	0.0042 U	0.0042 U	0.0039 U	0.0038 U
Endrin aldehyde	NC	0.0042 U	0.0042 U	0.0039 U	0.0038 U
Endrin ketone	NC	0.0042 U	0.0042 U	0.0039 U	0.0038 U
Heptachlor	0.1	0.0021 U	0.0021 U	0.002 U	0.0019 U
Heptachlor epoxide	0.02	0.0 J	0.0021 U	0.002 U	0.0019 U
Methoxychlor	NC	0.021 U	0.021 U	0.02 U	0.019 U
Toxaphene	NC	0.21 U	0.21 U	0.2 U	0.19 U
alpha-BHC	0.11	0.0021 U	0.0021 U	0.002 U	0.0019 U
alpha-Chlordane	NC	0.0021 U	0.0021 U	0.0021 U	0.0021 U
beta-BHC	0.2	0.0021 U	0.0021 U	0.002 U	0.0019 U

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* - exceeds standard.



Niagara Mohawk Power Corp.

Rome Former MGP Site

Subsurface Soil Samples

TAL Inorganic Data

Compound	TAGM Recommended Soil Cleanup mg/Kg	MW-09 10 - 12 ft 10/14/99 mg/Kg Soil	MW-09 18 - 20 ft 10/14/99 % Soil	MW-10 18 - 20 ft 10/14/99 mg/Kg Soil	MW-10 6 - 8 ft 10/14/99 mg/Kg Soil
Aluminum	SB	4460	3580	3380	6180
Antimony	SB	0.63 U	0.62 U	0.59 U	0.57 U
Arsenic	7.5	2.3 J	1.8 J	1.5 J	2.8
Barium	300	21.1 J	14.7 J	14.0 J	25.9 J
Beryllium	0.16	0.31 J*	0.21 J*	0.19 J*	0.57 J*
Cadmium	10	0.08 U	0.08 U	0.07 U	0.07 U
Calcium	SB	1440	14500	14700	3390
Chromium	50	6.7	5.6	5.3	8.5
Cobalt	30	2.7 J	2.0 J	1.8 J	3.4 J
Copper	25	11.1	8.1	7.2	16.7
Iron	2000	12000 *	9460 *	8190 *	13700 *
Lead	NC	4.8	2.5	4.1	4.4
Magnesium	SB	1810	2850	2270	2290
Manganese	SB	149	171	154	214
Mercury	0.1	0.070 U	0.07 U	0.06 U	0.06 U
Nickel	13	8.2 J	6.4 J	6.2 J	10.4
Potassium	SB	1020 J	857 J	853 J	1290
Selenium	2	0.76 U	0.75 U	0.71 U	0.69 U
Silver	SB	0.20 U	0.20 U	0.18 U	0.18 U
Sodium	SB	110 J	104 J	91.7 J	116 J
Thallium	SB	1.3 U	1.3 U	1.2 U	1.2 U
Vanadium	150	11.2 J	8.8 J	7.7 J	12.0
Zinc	20	24.0 *	20.0	17.6	29.0 *
Cyanide	NC	0.63 U	0.62 U	0.59 U	0.57 U

NOTES: NC - no applicable criteria, --- - not analyzed, J or B - estimated value, E - outside instrument linear range, D - diluted analysis, N - tentatively identified, R - unusable, use data from alternate analysis.
* - exceeds standard.
SB - Site background.

TCL Volatile Organic Compound Data

Compound	NYS Class GA Standards (3/98) ug/L	MW-09	MW-10
		10/21/99 ug/L Water	10/21/99 ug/L Water
1,1,1-Trichloroethane	5	2	0.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U
1,1,2-Trichloroethane	5	0.5 U	0.5 U
1,1-Dichloroethane	5	0.5 U	0.5 U
1,1-Dichloroethene	5	0.5 U	0.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U
1,2-Dichloropropane	1	0.5 U	0.5 U
2-Butanone (MEK)	NC	10 U	10 U
2-Hexanone	NC	5 U	5 U
4-Methyl-2-pentanone (MIBK)	NC	5 U	5 U
Acetone	NC	10 U	10 U
Benzene	1	10 U	10 U
Bromodichloromethane	NC	0.5 U	0.5 U
Bromoform	NC	0.5 U	0.5 U
Bromomethane	5	1 U	1 U
Carbon disulfide	NC	0.2 U	0.5 U
Carbon tetrachloride	5	0.5 U	0.5 U
Chlorobenzene	5	0.5 U	0.5 U
Chloroethane	5	1 U	1 U
Chloroform	7	2	23 *
Chloromethane	5	1 U	1 U
Dibromochloromethane	NC	0.5 U	0.5 U
Ethylbenzene	5	10 U	10 U
Methylene chloride	5	2 U	2 U
Styrene	5	0.5 U	0.5 U

NOTES: NC - no applicable criteria, --- - not analyzed, J or B - estimated value, E - outside instrument linear range, D - diluted analysis, N - tentatively identified, R - unusable, use data from alternate analysis.
 * - exceeds standard.



Niagara Mohawk Power Corp.
Rome Former MGP Site
Ground Water Samples

TCL Volatile Organic Compound Data

Compound	NYS Class GA Standards (3/98) ug/L	MW-09	MW-10
		10/21/99 ug/L Water	10/21/99 ug/L Water
Tetrachloroethene	5	12 *	0.7
Toluene	5	10 U	10 U
Trichloroethene	5	3	0.5 U
Vinyl chloride	2	0.1 J	1 U
Xylene (total)	5	10 U	10 U
cis-1,2-Dichloroethene	NC	0.3 J	0.5 U
cis-1,3-Dichloropropylene	0.4	0.5 U	0.5 U
trans-1,2-Dichloroethene	NC	0.5 U	0.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U

NOTES: NC - no applicable criteria, --- - not analyzed, J or B - estimated value, E - outside instrument linear range, D - diluted analysis, N - tentatively identified, R - unusable, use data from alternate analysis.
* - exceeds standard.



Niagara Mohawk Power Corp.
Rome Former MGP Site
Ground Water Samples

TCL Semivolatile Organic Compound Data

Compound	NYS Class GA Standards (3/98) ug/L	MW-09	MW-10
		10/21/99 ug/L Water	10/21/99 ug/L Water
2-Chloronaphthalene	NC	11 U	10 U
2-Methylnaphthalene	NC	11 U	10 U
Acenaphthene	NC	11 U	10 U
Acenaphthylene	NC	11 U	10 U
Anthracene	NC	11 U	10 U
Benzo(a)anthracene	NC	11 U	1 J
Benzo[a]pyrene	NC	11 U	10 U
Benzo(b)fluoranthene	NC	11 U	1 J
Benzo(ghi)perylene	NC	11 U	10 U
Benzo(k)fluoranthene	NC	11 U	10 U
Chrysene	NC	11 U	1 J
Dibenzo(a,h)anthracene	NC	11 U	10 U
Fluoranthene	NC	11 U	2 J
Fluorene	NC	11 U	10 U
Indeno(1,2,3-cd)pyrene	NC	11 U	10 U
Naphthalene	10	11 U	10 U
Phenanthrene	NC	11 U	10 U
Pyrene	NC	11 U	2 J
PAHs (total)	NC	---	7

NOTES: NC - no applicable criteria, --- - not analyzed, J or B - estimated value, E - outside instrument linear range, D - diluted analysis, N - tentatively identified, R - unusable, use data from alternate analysis.
* - exceeds standard.



DM

Polka Dot village Inc.
410 Erie Blvd West
Rome NY 13440

June 3, 2002

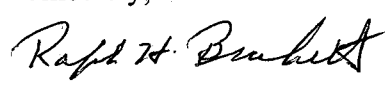
Mr. John Spellman
Bureau of Western Remedial Action
Division of Hazardous Waste Remediation
NYS Dept of Environmental Conservation
625 Broadway
Albany NY 12233-7010

Re: Rome Polka Dot Laundry Property

Dear Mr. Spellman:

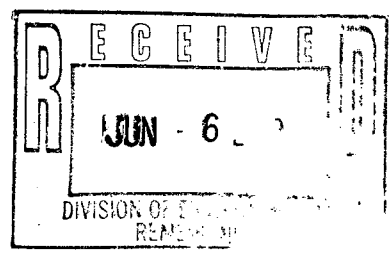
I enclose for your review a copy of the investigation report of soil quality for the Polka Dot property located at 410 Erie Blvd., Rome NY. This investigation was made by the Polka Dot after receiving the results of the Burger King property which showed considerable contamination. Any input you might have would be greatly appreciated as our data indicates that significant impacts have occurred to the Polka Dot Village property from past MGP operations. After the discovery of contamination we closed the laundry. If needed, you may contact me at (315) 337-0172 and mail is being received at 1606 North George St., Rome NY 13440.

Sincerely,



Ralph H. Brackett
Polka Dot Village Inc.

Cc: Steven Stucker,CPG
William C. Weiss, Esq.



GEOSCIENCE TECHNICAL SERVICES, INC.

Box 172, Clinton, NY 13323
(315) 853-7039

**INVESTIGATION OF SOIL QUALITY
410 ERIE BOULEVARD WEST
ROME, NEW YORK**

prepared for

**Ralph Brackett
1606 North George Street
Rome, New York**

May 24, 2002

GEOSCIENCE TECHNICAL SERVICES, INC.

Box 172, Clinton, NY 13323
(315) 853-7039

May 24, 2002

Ralph Brackett
1606 North George Street
Rome NY 13440

Dear Mr. Brackett:

Enclosed herewith is our report on an investigation of soil quality at 410 Erie Boulevard West in Rome, New York.

We appreciate the opportunity to have provided you with these services. Please call me if you have any questions.

Yours truly,

David O. Cook

David O. Cook, Ph.D.
President

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FIGURES

1. Sketch showing locations of soil borings.

TABLES

1. Results of soil analyses for those samples with detections.

APPENDICES

- A. Descriptions of soil samples.
- B. Report from Upstate Laboratories on analysis of soil samples.

1.0 INTRODUCTION

This report presents the results of a soil quality investigation performed at 410 Erie Boulevard West in Rome, New York. The property contains the Polka Dot Village, a laundromat.

The investigation involved making six soil borings to a depth of 12 feet and collecting continuous soil samples in the borings. The samples were screened in the field and selected samples were analyzed for polynuclear aromatic hydrocarbons. Results have been compared to recommended clean-up levels established by the Department of Environmental Conservation (NYS DEC).

Subcontractors included Paragon Environmental Construction (Syracuse NY) who provided soil boring services and Upstate Laboratories (also in Syracuse) who conducted the soil analyses. Geoscience Technical Services directed the project, supervised field work, described soil samples, evaluated the results, and prepared this report.

2.0 BACKGROUND

The property is located on the north side of Erie Boulevard West and extends to Woodrow Avenue in the rear. The laundromat is a one story masonry building on a concrete slab. A paved parking lot lies in the alcove on the east side of the building. The rear section of the lot is vegetated with grass and weeds.

Concern about soil quality relates to a former manufactured gas plant which operated on two parcels immediately east and west of the subject property. The east parcel at 106 South Madison Street is now occupied by a Burger King restaurant. The west parcel at 412 Erie Boulevard West is used as a natural gas regulator station. The manufacturing gas plant was active in the 19th and early 20th centuries.

Investigations conducted by O'Brien & Gere Engineers under contract to Niagara Mohawk have identified coal tar residue from the manufacturing gas plant in the subsurface at the two adjacent parcels. The residue contains polynuclear aromatic hydrocarbons (PAH's). O'Brien & Gere made two soil borings on the Polka Dot property and installed monitoring wells. No PAH's were found in two soil samples analyzed from each boring. Traces of several PAH's were detected in a ground water sample from one of the wells.

The water table was encountered at a depth of 5 to 8 feet below the ground surface. Water table elevations indicated that shallow ground water flows towards the

south-southwest.

The O'Brien & Gere work is documented in a report titled "Preliminary Site Assessment, Jay & Madison Street Site" prepared for Niagara Mohawk and dated October 2001.

It was decided to conduct an additional investigation on the Polka Dot property by making shallow borings to check soil quality in the vicinity of the water table. That work is described in the following sections of our report.

3.0 FIELD OPERATIONS

3.1 Soil Boring

Borings were made at six stations shown in Figure 1. Locations included one station in front of the building, four stations in the parking lot, and one station in the rear of the property. The borings were designated GTS-1 to GTS-6.

Soil boring took place on April 17, 2002 using a Geoprobe unit mounted on a pick-up truck. The Geoprobe hydraulically vibrates and shoves the drill string into the ground. Samples were collected in 2 inch diameter, 4 foot long plastic liners called macrocores. Sampling took place in three 4 foot increments at each station, reaching a depth of 12 feet below the ground surface.

The boring was supervised and samples were described by a geologist from Geoscience Technical Services.

3.2 Sample Screening

Samples in the 4 foot core liners were described in terms of recovery, grain size, color, consistency, moisture, and any other noteworthy features. Subsamples were screened for volatile organic compounds (VOC's) using a MiniRAE Plus Classic photoionization detector (organic vapor analyzer or OVA). The OVA was calibrated to read in parts per million of an isobutylene standard.

The screening took place using the headspace method. In this method, about 50 grams of soil are placed in a ziplock bag which is inflated and sealed. The bag is then shaken to promote VOC volatilization. After shaking, the intake of the OVA is placed in the bag and the instrument reading is observed. The observed values are useful in a relative sense but do not indicate concentrations of specific compounds.

Sample descriptions are contained in Appendix A.

One sample was selected from each boring for laboratory analysis. The selection was based on indications of contamination including OVA reading, odor, and color. Included were the following:

GTS-1 4'-8', upper section
GTS-2 8'-12', upper section
GTS-3 4'-8', lower section
GTS-4 8'-12', lower section
GTS-5 8'-12'
GTS-6 0'-4', lower section

The above samples were packed into 8 ounce glass jars with teflon lids and kept in a cooler during transport to the laboratory.

4.0 SAMPLE ANALYSIS

The soil samples were analyzed by Upstate Laboratories Inc. in Syracuse who are licensed by the State of New York. Each sample was analyzed for polynuclear aromatic hydrocarbons (PAH's) by US EPA method 8270. As previously mentioned, PAH's are semi-volatile organic compounds associated with coal tar residue.

5.0 RESULTS

5.1 Subsurface Geology

Unconsolidated sediments encountered in the borings are summarized below:

gravelly sand and silt - this gray, slightly cohesive sediment extended from the ground surface to a depth of 4 to 7 feet. It is interpreted as fill.

silt and clay - a thin layer of fine-grained sediment was present beneath the fill in GTS-1, GTS-2, GTS-3, GTS-4, and GTS-5. In the former two borings, it took the form of brown organic silt. In the latter two borings, the layer consisted of gray-brown silty clay with no significant organic component. Both the organic silt and the silty clay were very cohesive.

fine to medium sand - the lowest unit penetrated by the borings was a gray, somewhat cohesive fine to medium sand. The sand was encountered approximately 6 to 10 feet below the ground surface.

Based on the degree of saturation in sediment samples, the water table was located at a depth of 6 to 10 feet.

None of the borings encountered refusal indicative of bedrock or a hard substrate.

These results match the stratigraphy described in the O'Brien & Gere report. They found fill overlying silty sand in the upper 20 to 30 feet of borings. Organic matter was present in one of the borings they made on the Polka Dot property.

5.2 Soil Quality

Analytical results for the six soil samples analyzed are documented in a report from Upstate Laboratories which is contained in Appendix B. The data are summarized in Table 1 and discussed below.

PAH's were detected in three of the six sample analyzed: GTS-1 4'-8'u, GTS-3 4'-8'l, and GTS-6 0'-4'l. No PAH's were detected in the samples from GTS-2, GTS-4, and GTS-5.

Numbers of compounds detected in the former three samples and the range in concentrations are listed below. The concentration units, mg/kg, are equivalent to parts per million.

	<u># compounds detected</u>	<u>concentration range</u>
GTS-1 4'-8'u	10	4.4 to 11.0 mg/kg
GTS-3 4'-8'l	12	54 to 250 mg/kg
GTS-6 0'-4'l	8	4.3 to 18 mg/kg

The sample from GTS-3, located in the parking lot, was thus the most heavily impacted. GTS-1 was also in the parking lot and GTS-6 was located in the north section of the property.

5.3 Comparison with NYS DEC Criteria

NYS DEC established recommended cleanup levels for soil in Technical and Administrative Guidance Memorandum #4046 titled "Determination of Soil Cleanup Objectives and Cleanup Levels" dated November 16, 1992. Recommended cleanup levels for the PAH's detected in boring samples are shown in Table 1. Individual compounds exceeded the levels in the GTS-1, GTS-2, and GTS-3 samples as summarized below

	<u># compounds with exceedances</u>
GTS-1 4'-8'u	6
GTS-3 4'-8'l	12
GTS-6 0'-4'l	2

The O'Brien & Gere report calls out screening levels for total PAH's and total carcinogenic PAH's. The respective levels are 500 ppm and 10 mg/kg. Carcinogenic PAH's include:

benzo(a)anthracene	chrysene
benzo(a)pyrene	dibenzo(a,h)anthracene
benzo(b)fluoranthene	ideno(1,2,3-cd)pyrene
benzo(g,h,i)perylene	

The sample data are compared with these screening levels below. Concentrations are in mg/kg.

	<u>GTS-1 4'-8'u</u>	<u>GTS-3 4'-8'l</u>	<u>GTS-6 0'-4'l</u>	screening <u>value</u>
PAH's	79.0	1314	89.6	500
carcinogenic PAH's	53.4	499	4.3	10

The GTS-3 sample thus exceeded the total PAH's screening value, and both the GTS-1 and GTS-3 samples exceeded the total carcinogenic PAH's screening value.

6.0 CONCLUSIONS

This investigation has identified PAH contamination of soil in samples from three of six borings made at 410 Erie Boulevard West. Concentrations of certain individual compounds exceeded NYS DEC recommended clean-up levels in GTS-1 4'-8'u, GTS-3 4'-8'l, and GTS-6 0'-4'l. The screening value for total PAH's was exceeded by the GTS-3 sample, and the GTS-1 and GTS-3 samples exceeded the total carcinogenic PAH's screening value.

These results indicate that the property has been impacted by coal tar residue from the former manufacturing gas plant. Further investigation is needed to determine the full extent of contamination and to identify appropriate remedial measures.

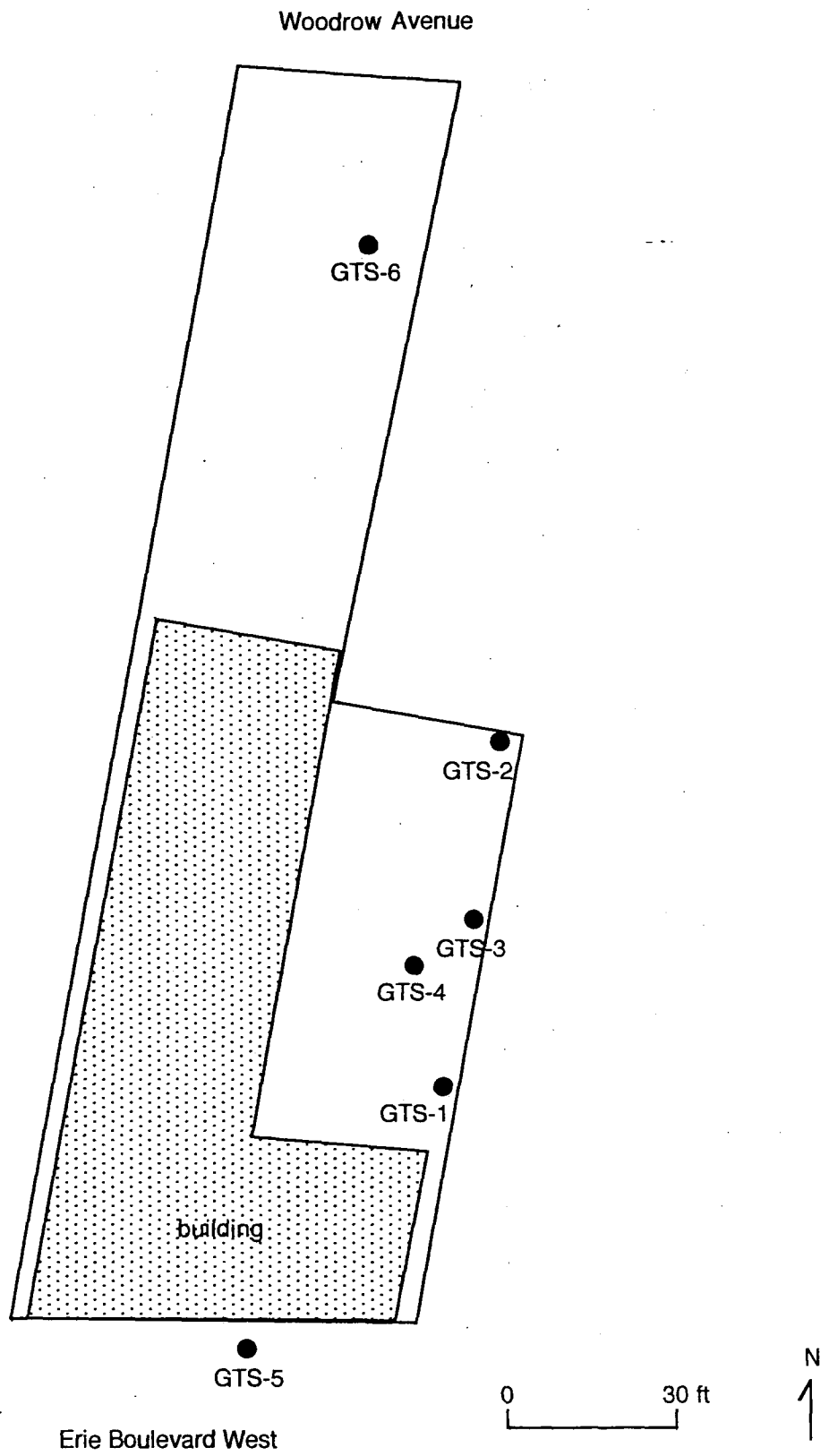


Figure 1. Sketch showing locations of soil borings.

Table 1. Results of soil analyses for those samples with detections. Concentrations are in mg/kg. Exceedances of NYS DEC recommended soil clean-up objectives from TAGM 4046 are highlighted.

compound	GTS-1 4'-8'u	GTS-3 4'-8'l	GTS-6 0'-4'l	TAGM 4046
naphthalene	ND	<u>64</u>	<u>18</u>	13
acenaphthene	ND	ND	7.9	50
fluorene	ND	<u>55</u>	5.6	50
phenanthrene	7.2	<u>250</u> -	26	50
anthracene	ND	<u>95</u>	5.4	50
fluoranthene	9	<u>210</u> >	9.4	50
pyrene	9	<u>180</u>	13	50
chrysene	<u>7.3</u>	<u>89</u>	ND	0.4
benzo(a)anthracene	<u>8</u>	<u>110</u> >	<u>4.3</u>	0.22
benzo(b)fluoroanthene	<u>11</u>	<u>100</u>	ND	1.1
benzo(k)fluoranthene	<u>4.4</u>	ND	ND	1.1
benzo(a)pyrene	<u>11</u>	<u>92</u>	ND	0.061
ideno(1,2,3cd)pyrene	<u>7.7</u>	<u>54</u>	ND	3.2
benzo(g,h,i)perylene	8.4	<u>54</u>	ND	50
total PAH's	79	1314	89.6	

Appendix A. Descriptions of soil samples.

DESCRIPTIONS OF SOIL SAMPLES

date: 4/17/02

location: 410 Erie Boulevard West, Rome

observer: David Cook

boring: GTS-1

sampling interval: 0 to 4 feet

sample recovered: 23 inches

	<u>0" - 9"</u>	<u>9" - 23"</u>
texture:	gravelly silty sand	gravelly sandy silt
color:	pale brown	very dark gray
consistency:	slightly compact	slightly compact
moisture:	moist	moist
OVA reading:	1.6 ppm	0.4 ppm
comments:	coal and ash fragments in lower 6 inches	

boring: GTS-1

sampling interval: 4 to 8 feet

sample recovered: 25 inches

	<u>0" - 4"</u>	<u>4" - 25"</u>
texture:	gravelly silty sand	grav. sandy silt grading to organic silt
color:	light gray	very dark gray grading to dark brown
consistency:	slightly cohesive	cohesive
moisture:	moist	moist
OVA reading:	0.7 ppm	0.2 ppm
comments:	some ash in 0 to 4 inch section; sample of 0 - 4 inch section taken for analysis at 0840.	

boring: GTS-1

sampling interval: 8 to 12 feet

sample recovered: 44 inches

	<u>0" - 8"</u>	<u>8" - 44"</u>
texture:	organic silt	fine sand
color:	very dark gray	olive gray
consistency:	cohesive	slightly cohesive
moisture:	moist	saturated
OVA reading:	0.7 ppm	0.3 ppm

boring: GTS-2

sampling interval: 0 to 4 feet

sample recovered: 23 inches

texture: gravelly silty sand

color: dark grayish brown

consistency: loose

moisture: moist

OVA reading: 0.1 ppm

boring: GTS-2

sampling interval: 4 to 8 feet

sample recovered: 27 inches

	<u>0" - 15"</u>	<u>15" - 27"</u>
texture:	gravelly silty sand	fine sand
color:	black	brown
consistency:	slightly cohesive	slightly cohesive
moisture:	moist	saturated
OVA reading:	0.1 ppm	0.1 ppm

comments: sample of 0 to 15" section taken for analysis at 0910

boring: GTS-2

sampling interval: 8 to 12 feet

sample recovered: 48 inches

texture: medium to fine sand

color: brown

consistency: cohesive

moisture: saturated

OVA reading: 0.1 ppm

comments: lower 4 inches black organic silt, OVA = 0.1

boring: GTS-3

sampling interval: 0 to 4 feet

sample recovered: 20 inches

	<u>0" - 12"</u>	<u>12" - 20"</u>
texture:	gravelly silty sand	gravelly sand
color:	very dark gray	dark gray
consistency:	slightly cohesive	loose
moisture:	moist	moist
OVA reading:	0.9 ppm	0.1 ppm

comments: ash and coal in 12 to 20 inch section

boring: GTS-3

sampling interval: 4 to 8 feet

sample recovered: 39 inches

	<u>0" - 35"</u>	<u>35" - 39"</u>
texture:	gravelly silty sand grading to organic silt	fine to medium sand
color:	very dark gray	dark gray
consistency:	cohesive	slightly cohesive
moisture:	moist	saturated
OVA reading:	17 ppm	22 ppm

comments: some ash near top; oily odor in bottom; sample of 35 to 39 inch section taken for analysis at 0945

boring: GTS-3
sampling interval: 8 to 12 feet
sample recovered: 31 inches
texture: fine to medium sand
color: olive gray grading to light olive brown
consistency: cohesive
moisture: saturated
OVA reading: 24 ppm

boring: GTS-4
sampling interval: 0 to 4 feet
sample recovered: 20 inches

	<u>0" - 7"</u>	<u>7" - 20"</u>
texture:	gravelly silty sand	gravelly silty sand
color:	pale brown	very dark gray
consistency:	loose	slightly cohesive
moisture:	moist	moist
OVA reading:	1.0 ppm	0.1 ppm

comments: some ash and glass fragments in 7 in 20 inch section

boring: GTS-4
sampling interval: 4 to 8 feet
sample recovered: 14 inches
texture: gravelly silty sand grading to sandy silt
color: very dark gray
consistency: cohesive
moisture: moist
OVA reading: 0.5 ppm

boring: GTS-4
sampling interval: 8 to 12 feet
sample recovered: 29 inches

	<u>0" - 4"</u>	<u>4" - 29"</u>
texture:	silty clay	fine sand
color:	dark gray	dark gray grading to grayish brown
consistency:	very cohesive	slightly cohesive
moisture:	moist	saturated
OVA reading:	0.1 ppm	0.1 ppm

comments: sample of 4 to 29 inch section taken for analysis at 1025

boring: GTS-5
sampling interval: 0 to 4 feet
sample recovered: 24 inches
texture: gravelly silty sand
color: pale brown grading to dark gray
consistency: slightly cohesive
moisture: moist
OVA reading: 0.1 ppm
comments: coal and brick fragments near bottom

boring: GTS-5
sampling interval: 4 to 8 feet
sample recovered: 48 inches

	<u>0" - 14"</u>	<u>14" - 45"</u>	<u>45" - 48"</u>
texture:	gravelly silty sand	sandy silt to silty clay	fine sand
color:	dark grayish brown	dark gray	gray
consistency:	slightly cohesive	very cohesive	cohesive
moisture:	moist	moist	moist
OVA reading:	0.1 ppm	0.1 ppm	0.1 ppm

boring: GTS-5
sampling interval: 8 to 12 feet
sample recovered: 39 inches
texture: medium sand
color: light olive brown
consistency: slightly cohesive
moisture: saturated
OVA reading: 0.1 ppm
comments: sample taken for analysis at 1100

boring: GTS-6
sampling interval: 0 to 4 feet
sample recovered: 26 inches

	<u>0" - 14"</u>	<u>14" - 26"</u>
texture:	gravelly sand	gravelly silty sand
color:	yellowish brown	very dark gray
consistency:	loose	slightly cohesive
moisture:	moist	moist
OVA reading:	0.1 ppm	4.3 ppm

comments: some coal and ash in lower section; sample of 14 to 26 inch section taken for analysis at 1120

boring: GTS-6
sampling interval: 4 to 8 inches

sample recovered: 20 inches

	<u>0" - 6"</u>	<u>6" - 20"</u>
texture:	gravelly silty sand	fine to medium sand
color:	gray	grayish brown
consistency:	slightly cohesive	slightly cohesive
moisture:	moist	saturated
OVA reading:	0.1 ppm	0.1 ppm

boring: GTS-6

sampling interval: 8 to 12 feet

sample recovered: 34 inches

texture: fine sand

color: brown

consistency: cohesive

moisture: saturated

OVA reading: 0.1 ppm

Appendix B. Report from Upstate Laboratories on analysis of soil samples.

Upstate Laboratories inc.

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

Mailing: Box 289 • Syracuse, NY 13206

Albany (518) 459-3134

Binghamton (607) 724-0478

Buffalo (716) 649-2533

Rochester (716) 436-9070

New Jersey (201) 343-5353

May 8, 2002

Mr. David Cook
GeoScience Technical Services
P.O. Box 1036
Old Lyme, CT 06371

Re: Analysis Report #10802028 - Polka Dot Laundramat

Dear Mr. Cook:

Please find enclosed the results for your samples which were received on April 17, 2002.

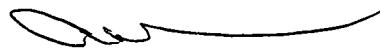
We have included the Chain of Custody Record as part of your report. You may need to reference this form for a more detailed explanation of your sample. Samples will be disposed of approximately one month from final report date.

Should you have any questions, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.



Anthony J. Scala
Director

AJS/rd

Enclosures: report, invoice

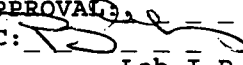

cc/encs: N. Scala, ULI
file

Note: Faxed results were given to your office on 5/06/02. AJS

Disclaimer: The test results and procedures utilized, and laboratory interpretations of data obtained by ULI as contained in this report are believed by ULI to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of ULI for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

DATE: 05/08/02

Jpstate Laboratories, Inc.
Analysis Results
Report Number: 10802028
Client I.D.: GEOSCIENCE TECHNICAL SERVICES

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

ID:10802028 Mat:Soil POLKA DOT LAUNDRAMAT GTS-1 4'-8'U 0840H 04/17/02 G

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	82%		05/07/02			WD9179
Polynuclear Aromatic Hydrocarbons						
Naphthalene	<4000ug/kg dw		05/01/02	5		SA3384
Acenaphthylene	<4000ug/kg dw		05/01/02	5		SA3384
Acenaphthene	<4000ug/kg dw		05/01/02	5		SA3384
Fluorene	<4000ug/kg dw		05/01/02	5		SA3384
Phenanthrene	7200ug/kg dw		05/01/02			SA3384
Anthracene	<4000ug/kg dw		05/01/02	5		SA3384
Fluoranthene	9000ug/kg dw		05/01/02			SA3384
Pyrene	9000ug/kg dw		05/01/02			SA3384
Chrysene	7300ug/kg dw		05/01/02			SA3384
Benzo(a)anthracene	8000ug/kg dw		05/01/02			SA3384
Benzo(b)fluoranthene	11,000ug/kg dw		05/01/02			SA3384
Benzo(k)fluoranthene	4400ug/kg dw		05/01/02			SA3384
Benzo(a)pyrene	11,000ug/kg dw		05/01/02			SA3384
Indeno(1,2,3-cd)pyrene	7700ug/kg dw		05/01/02			SA3384
Dibenzo(a,h)anthracene	<4000ug/kg dw		05/01/02	5		SA3384
Benzo(ghi)perylene	8400ug/kg dw		05/01/02			SA3384

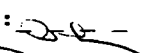

ID:10802029 Mat:Soil POLKA DOT LAUNDRAMAT GTS-2 8'-12'U 0910H 04/17/02 G

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	85%		05/07/02			WD9179
Polynuclear Aromatic Hydrocarbons						
Naphthalene	<390ug/kg dw		05/02/02			SA3384
Acenaphthylene	<390ug/kg dw		05/02/02			SA3384
Acenaphthene	<390ug/kg dw		05/02/02			SA3384
Fluorene	<390ug/kg dw		05/02/02			SA3384
Phenanthrene	<390ug/kg dw		05/02/02			SA3384
Anthracene	<390ug/kg dw		05/02/02			SA3384
Fluoranthene	<390ug/kg dw		05/02/02			SA3384
Pyrene	<390ug/kg dw		05/02/02			SA3384
Chrysene	<390ug/kg dw		05/02/02			SA3384
Benzo(a)anthracene	<390ug/kg dw		05/02/02			SA3384
Benzo(b)fluoranthene	<390ug/kg dw		05/02/02			SA3384
Benzo(k)fluoranthene	<390ug/kg dw		05/02/02			SA3384
Benzo(a)pyrene	<390ug/kg dw		05/02/02			SA3384
Indeno(1,2,3-cd)pyrene	<390ug/kg dw		05/02/02			SA3384
Dibenzo(a,h)anthracene	<390ug/kg dw		05/02/02			SA3384
Benzo(ghi)perylene	<390ug/kg dw		05/02/02			SA3384

lw = Dry weight

DATE: 05/08/02

Upstate Laboratories, Inc.
Analysis Results
Report Number: 10802028
Client I.D.: GEOSCIENCE TECHNICAL SERVICES

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

ID:10802030 Mat:Soil POLKA DOT LAUNDRAMAT GTS-3 4'-8'L 0945H 04/17/02 G

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	84%		05/07/02			WD9179
Polynuclear Aromatic Hydrocarbons						
Naphthalene	64,000ug/kg dw		05/02/02			SA3384
Acenaphthylene	<48,000ug/kg dw		05/02/02	5		SA3384
Acenaphthene	<48,000ug/kg dw		05/02/02	5		SA3384
Fluorene	55,000ug/kg dw		05/02/02			SA3384
Phenanthrene	250,000ug/kg dw		05/02/02			SA3384
Anthracene	95,000ug/kg dw		05/02/02			SA3384
Fluoranthene	210,000ug/kg dw		05/02/02			SA3384
Pyrene	180,000ug/kg dw		05/02/02			SA3384
Chrysene	89,000ug/kg dw		05/02/02			SA3384
Benzo(a)anthracene	110,000ug/kg dw		05/02/02			SA3384
Benzo(b)fluoranthene	100,000ug/kg dw		05/02/02			SA3384
Benzo(k)fluoranthene	<48,000ug/kg dw		05/02/02	5		SA3384
Benzo(a)pyrene	92,000ug/kg dw		05/02/02			SA3384
Indeno(1,2,3-cd)pyrene	54,000ug/kg dw		05/02/02			SA3384
Dibenzo(a,h)anthracene	<48,000ug/kg dw		05/02/02	5		SA3384
Benzo(ghi)perylene	54,000ug/kg dw		05/02/02			SA3384

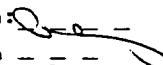

ID:10802031 Mat:Soil POLKA DOT LAUNDRAMAT GTS-4 8'-12'L 1025H 04/17/02 G

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	81%		05/07/02			WD9179
Polynuclear Aromatic Hydrocarbons						
Naphthalene	<410ug/kg dw		05/01/02			SA3384
Acenaphthylene	<410ug/kg dw		05/01/02			SA3384
Acenaphthene	<410ug/kg dw		05/01/02			SA3384
Fluorene	<410ug/kg dw		05/01/02			SA3384
Phenanthrene	<410ug/kg dw		05/01/02			SA3384
Anthracene	<410ug/kg dw		05/01/02			SA3384
Fluoranthene	<410ug/kg dw		05/01/02			SA3384
Pyrene	<410ug/kg dw		05/01/02			SA3384
Chrysene	<410ug/kg dw		05/01/02			SA3384
Benzo(a)anthracene	<410ug/kg dw		05/01/02			SA3384
Benzo(b)fluoranthene	<410ug/kg dw		05/01/02			SA3384
Benzo(k)fluoranthene	<410ug/kg dw		05/01/02			SA3384
Benzo(a)pyrene	<410ug/kg dw		05/01/02			SA3384
Indeno(1,2,3-cd)pyrene	<410ug/kg dw		05/01/02			SA3384
Dibenzo(a,h)anthracene	<410ug/kg dw		05/01/02			SA3384
Benzo(ghi)perylene	<410ug/kg dw		05/01/02			SA3384

w = Dry weight

DATE: 05/08/02

Jpstate Laboratories, Inc.
Analysis Results
Report Number: 10802028
Client I.D.: GEOSCIENCE TECHNICAL SERVICES

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

ID:10802032 Mat:Soil POLKA DOT LAUNDRAMAT GTS-5 8'-12' 1100H 04/17/02 G

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	80%		05/07/02			WD9179
Polynuclear Aromatic Hydrocarbons						
Naphthalene	<420ug/kg dw		05/01/02			SA3384
Acenaphthylene	<420ug/kg dw		05/01/02			SA3384
Acenaphthene	<420ug/kg dw		05/01/02			SA3384
Fluorene	<420ug/kg dw		05/01/02			SA3384
Phenanthrene	<420ug/kg dw		05/01/02			SA3384
Anthracene	<420ug/kg dw		05/01/02			SA3384
Fluoranthene	<420ug/kg dw		05/01/02			SA3384
Pyrene	<420ug/kg dw		05/01/02			SA3384
Chrysene	<420ug/kg dw		05/01/02			SA3384
Benzo (a) anthracene	<420ug/kg dw		05/01/02			SA3384
Benzo (b) fluoroanthene	<420ug/kg dw		05/01/02			SA3384
Benzo (k) fluoranthene	<420ug/kg dw		05/01/02			SA3384
Benzo (a) pyrene	<420ug/kg dw		05/01/02			SA3384
Indeno (1,2,3-cd) pyrene	<420ug/kg dw		05/01/02			SA3384
Dibenzo (a,h) anthracene	<420ug/kg dw		05/01/02			SA3384
Benzo (ghi) perylene	<420ug/kg dw		05/01/02			SA3384

ID:10802033 Mat:Soil POLKA DOT LAUNDRAMAT GTS-6 0'-4'L 1120H 04/17/02 G

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	89%		05/07/02			WD9179
Polynuclear Aromatic Hydrocarbons						
Naphthalene	18,000ug/kg dw		05/02/02			SA3384
Acenaphthylene	<3700ug/kg dw		05/02/02		5	SA3384
Acenaphthene	7900ug/kg dw		05/02/02			SA3384
Fluorene	5600ug/kg dw		05/02/02			SA3384
Phenanthrene	26,000ug/kg dw		05/02/02			SA3384
Anthracene	5400ug/kg dw		05/02/02			SA3384
Fluoranthene	9400ug/kg dw		05/02/02			SA3384
Pyrene	13,000ug/kg dw		05/02/02			SA3384
Chrysene	<3700ug/kg dw		05/02/02		5	SA3384
Benzo (a) anthracene	4300ug/kg dw		05/02/02			SA3384
Benzo (b) fluoroanthene	<3700ug/kg dw		05/02/02		5	SA3384
Benzo (k) fluoranthene	<3700ug/kg dw		05/02/02		5	SA3384
Benzo (a) pyrene	<3700ug/kg dw		05/02/02		5	SA3384
Indeno (1,2,3-cd) pyrene	<3700ug/kg dw		05/02/02		5	SA3384
Dibenzo (a,h) anthracene	<3700ug/kg dw		05/02/02		5	SA3384
Benzo (ghi) perylene	<3700ug/kg dw		05/02/02		5	SA3384

iw = Dry weight

KEY PAGE

- 1 MATRIX INTERFERENCE PRECLUDES LOWER DETECTION LIMITS
- 2 REFERENCE SAMPLE/CCV RECOVERY WAS OUTSIDE OF CONTROL LIMITS
- 3 METHOD BLANK RESULT WAS ABOVE THE CONTROL LIMITS
- 4 ANALYSIS NOT PERFORMED BECAUSE OF INSUFFICIENT SAMPLE
- 5 THE PRESENCE OF OTHER TARGET ANALYTE(S) PRECLUDES LOWER DETECTION LIMITS
- 6 BLANK CORRECTED
- 7 HEAD SPACE PRESENT IN SAMPLE
- 8 QUANTITATION LIMIT IS GREATER THAN THE CALCULATED REGULATORY LEVEL. THE
9 QUANTITATION LIMIT THEREFORE BECOMES THE REGULATORY LEVEL.
- 10 THE OIL WAS TREATED AS A SOLID AND LEACHED WITH EXTRACTION FLUID
- 11 RESULTS ARE REPORTED ON AN AS REC.D BASIS
- 12 POSSIBLE CONTAMINATION FROM FIELD/LABORATORY
- 13 SAMPLE ANALYZED OVER HOLDING TIME
- 14 DISSOLVED VALUE MAY BE HIGHER THAN TOTAL DUE TO CONTAMINATION FROM
15 THE FILTERING PROCEDURE
- 16 SAMPLED BY ULI
- 17 DISSOLVED VALUE MAY BE HIGHER THAN TOTAL; HOWEVER, THE VALUES ARE
18 WITHIN EXPERIMENTAL ERROR
- 19 AN INHIBITORY FACTOR WAS OBSERVED IN THIS ANALYSIS
- 20 PARAMETER NOT ANALYZED WITHIN 15 MINUTES OF SAMPLING
- 21 THE SERIAL DILUTION OF THIS SAMPLE SUGGESTS A POSSIBLE PHYSICAL AND/OR CHEMICAL
22 INTERFERENT IN THIS DETERMINATION. THE DATA MAY BE BIASED EITHER HIGH OR LOW.
- 23 CALCULATION BASED ON DRY WEIGHT
- 24 INDICATES AN ESTIMATED VALUE, DETECTED BUT BELOW THE PRACTICAL QUANTITATION
25 LIMITS
- 26 UG/KG AS REC.D / UG/KG DRY WT
- 27 MG/KG AS REC.D / MG/KG DRY WT
- 28 INSUFFICIENT SAMPLE PRECLUDES LOWER DETECTION LIMITS
- 29 SAMPLE DILUTED/BLANK CORRECTED
- 30 ND (NON-DETECTED)
- 31 DUPLICATE SAMPLE OUTSIDE QC CRITERIA
- 32 SPIKE RECOVERY ABNORMALLY HIGH/LOW DUE TO MATRIX INTERFERENCE
- 33 POST-DIGESTION SPIKE FOR FURNACE AA ANALYSIS IS OUTSIDE OF THE CONTROL
34 LIMITS (85-115%); HOWEVER, THE SAMPLE CONCENTRATION IS BELOW THE PQL
35 ANALYZED BY METHOD OF STANDARD ADDITIONS
- 36 FIELD MEASURED PARAMETER TAKEN BY CLIENT
- 37 TARGET ANALYTE IS BIODEGRADED AND/OR ENVIRONMENTALLY WEATHERED
- 38 MILLIGRAMS PER LITER (MG/L) LINEAR ALKYL SULFONATE (LAS)/ POUNDS (LBS)
39 PER DAY LAS
- 40 THE SAMPLE WAS ANALYZED ON A TOTAL BASIS; THE TEST RESULT CAN BE COMPARED
41 TO THE TCLP REGULATORY CRITERIA BY DIVIDING THE TEST RESULT BY 20,
42 CREATING A THEORETICAL TCLP VALUE
- 43 THE HYDROCARBONS DETECTED IN THE SAMPLE DID NOT CROSS-MATCH WITH COMMON
44 PETROLEUM DISTILLATES
- 45 MATRIX INTERFERENCE CAUSING SPIKES TO RESULT IN LESS THAN 50.0% RECOVERY
- 46 MILLIGRAMS PER LITER (MG/L) / POUNDS (LBS) PER DAY
- 47 MILLIGRAMS PER LITER (MG/L) OF RESIDUAL CHLORINE (CL₂) / POUNDS (LBS)
48 PER DAY OF CL₂
- 49 MICROGRAMS PER LITER (UG/L) / POUNDS (LBS) PER DAY
- 50 (B) DETECTED IN BLANK
- 51 (D) ALL COMPOUNDS IDENTIFIED IN AN ANALYSIS AT A SECONDARY DILUTION FACTOR
- 52 (E) COMPOUNDS WHOSE CONCENTRATIONS EXCEED THE CALIBRATION RANGE OF THE GC/MS
53 INSTRUMENT FOR THAT SPECIFIC ANALYSIS
- 54 (J) DETECTED BELOW THE CRQL
- 55 (a) SAMPLE(S) RECEIVED AT THE IMPROPER TEMPERATURE
- 56 (b) HEADSPACE IN VOA VIAL(S)
- 57 (c) HEADSPACE IN ALKALINITY BOTTLE(S)
- 58 (d) SAMPLE CONTAINER(S) RECEIVED BROKEN

Chain Of Custody Record

5/1

Client: GEO SCIENCE TECH, SVCS		Client Project # / Project Name: PSIKA DOT LAUNDRAMAT				No. of Containers	1) 2) 3) 4) 5) 6) 7) 8) 9) 10)	Special Turnaround Time _____	
Client Contact: DAVID COOK		Phone # 315 853-7039		Site Location (city/state): ROME NY				(Lab Notification required)	
Sample Location:	Date	Time	Matrix	Grab or Comp.	ULI Internal Use Only			Remarks	
GTS-1 4'-8' U	4/17/02	0840	SOIL	GRAB	10802028	1	X		
GTS-2 8'-12' U	↓	0910	↓	↓	29	2	↓		
GTS-3 4'-8' L	↓	0945	↓	↓	30	3	↓		
GTS-4 8'-12' L	↓	1025	↓	↓	31	4	↓		
GTS-5 8'-12' L	↓	1100	↓	↓	32	5	↓		
GTS-6 0'-4' L	↓	1120	↓	↓	33	6	↓		

Parameter and method: SVOC'S - PAH'S 8270	sample bottle: GLASS	type: 802	size: NONE	pres.:	Sampled by: (Please Print) DAVID COOK	ULI Internal Use Only Delivery (check one): <input type="checkbox"/> ULI Sampled <input type="checkbox"/> Pickup <input checked="" type="checkbox"/> Dropoff <input type="checkbox"/> CC Client		
Company: GTS					Relinquished by: (Signature) D. S. Cook	Date: 4/17/02	Time: 1442	Received by: (Signature)
					Relinquished by: (Signature)	Date	Time	Received by: (Signature)
					Relinquished by: (Signature)	Date	Time	Received by: (Signature)
					Relinquished by: (Signature)	Date	Time	Rec'd for Lab by: (Signature) P. Obuse

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



Attachment 1

Well Logs

Table 1
 Niagara Mohawk Corporation
 Rome (Jay and Madison Street) Site
 Monitoring Well Specifications Summary

Well No.	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6S	MW-6D	MW-7S	MW-7D	MW-8S	MW-8D	MW-9	MW-10
Ground Elevation (ft)				433.0	431.9	433.2	433.3	430.5	430.4	431.7	431.2	434.1	433.8
Top of PVC Elev (ft)	433.1	433.3	432.6	435.3	434.3	435.4	435.3	432.4	432.4	433.3	433.2	433.8	433.3
Screen Elev (ft)	429.53-414.53	429.27-414.27	429.11-414.11	428.29-413.29	427.36-412.36	428.96-413.96	401.05-396.05	427.48-412.48	399.95-394.95	428.01-413.01	393.17-388.17	430.13-415.13	429.81-414.81
Ground Water Elev. (ft)													
5/27/98	427.20	427.13	426.82	426.76	426.43	427.07	427.09	426.65	426.71	426.34	426.66	NI	NI
10/30/98	426.36	426.33	426.09	426.04	425.78	426.26	426.24	425.94	425.96	425.73	425.85	NI	NI
10/21/99	427.34	427.18	426.72	425.82	427.46	426.49	426.97	426.71	426.66	426.43	426.51	427.09	427.39

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING MW-9
-------------------------------------------	------------------------	----------------------------------

Client: Niagara Mohawk Power Corporation (Jay and Madison Street Site)	Drill Method: 4.25 inch HSA Sampler: 2-inch split spoon Hammer: geoprobe	Page 1 of 1 Location:
Proj. Loc: Rome, NY File No.: 1118.080	Fall:	Start Date: 10/14/99 End Date:

Boring Company: Parratt-Wolff, Inc. Foreman: Jim L. Drill Rig: CME-55 OBG Geologist: Chawn O'Dell	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Screen</td><td>=</td><td rowspan="3" style="text-align: center;"> </td> </tr> <tr> <td>Riser</td><td></td> </tr> <tr> <td>Steel</td><td>//</td> </tr> </table>	Screen	=		Riser		Steel	//
Screen	=							
Riser								
Steel	//							

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing	
									PID (ppm)	UV light
0	1	0-2	-	2.0/1.6'	-	Asphalt 0-2" Grayish brown 5YR 3/2, damp, fine SAND, some fine to coarse gravel (angular), little medium to coarse sand.			0.1	neg
2	2	2-4	-	2.0/1.3	-	Brownish gray 5YR 4/1, damp to wet, fine to medium SAND, some silt, little fine to coarse gravel (subangular to angular).			0.0	neg
4	3	4-6	-	2.0/0.5	-	Appears to be slough following the augers down. Fine to coarse GRAVEL (angular), little asphalt, little silt and fine to coarse sand.	soil cutting from 4-8 appears to be PEAT very soft	===	0.1	neg
6	4	6-8	-	2.0/0.1	-	Poor recovery. Fine to coarse GRAVEL (angular), little asphalt, trace silt, fine sand.		===	0.0	neg
8	5	8-10	-	2.0/0.1	-	Poor recovery, GRAVEL LODGED in split spoon tip.		===	0.0	neg
10	6	10-12	-	2.0/2.0	-	Grayish brown 5YR 3/2, saturated, fine SAND, little silt.		===	0.1	neg
12	7	12-14	-	2.0/2.0	-	Grayish brown 5YR 3/2, saturated, fine SAND, little silt.		===	0.1	neg
14	8	14-16	-	2.0/2.0	-	Grayish brown 5YR 3/2, saturated, fine SAND, little silt.		===	0.1	neg
16	9	16-18	-	2.0/2.0	-	grayish brown 5YR 3/2, saturated, fine SAND, little silt.		===	0.1	neg
18	10	18-20	-	2.0/2.0	-	Grayish brown 5YR 3/2, saturated, fine SAND, little silt.		===	0.0	neg
								BOW 19.0'		

Notes:	Well Installation: 2" x 10 slotted PVC screen - 19 to 4 ft Sand Pack (00 morie) - 4 to 3 ft Sand choke (00 morie) - 3 to 2.5 ft	Bentonite Seal - 2.5 to 1.5 ft Sand choke (00 morie) - 1.5 to 1 ft Grout - 1 to surface
--------	---------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------

Attachment 2

Analytical Reports

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 10/21/99
 Site Name NIMO-POLKA DOT
 Location ROME, NY
 Project No. 1118.080
 Personnel PGB/BAK

Weather 60 sunny
 Well # MW-9
 Evacuation Method Boiler-Disp
 Sampling Method Boiler-Disp

Well Information:

Depth of Well * 19.20 ft
 Depth to Water * 6.72 ft
 Length of Water Column 12.48 ft
 Volume of Water in Well 2.03 gal.(s)
 3X Volume of Water in Well 6.10 gal.(s)

Water Volume /ft. for:
 α 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling _____ gal.(s)
 Did well go dry? _____

* Measurements taken from Well Casing Protective Casing (Other, Specify)

Instrument Calibration:

pH Buffer Readings
 4.0 Standard _____
 7.0 Standard _____
 10.0 Standard _____

Conductivity Standard Readings
 84 S Standard _____
 1413 S Standard _____

Water parameters:

Gallons Removed	Temperature Readings	pH Readings	Conductivity Readings uS/cm
initial _____	initial _____	initial _____	initial _____
<u>2</u>	<u>14.7</u>	<u>7.36</u>	<u>1742</u>
<u>4</u>	<u>15.1</u>	<u>7.33</u>	<u>1650</u>
<u>6</u>	<u>15.1</u>	<u>7.33</u>	<u>1655</u>
_____	_____	_____	_____
_____	_____	_____	_____

Water Sample:

Time Collected 5:00

Physical Appearance at Start

Color light Brown
 Odor None
 Turbidity (> 100 NTU) >100 NTU
 Sheen/Free Product -

Physical Appearance at Sampling

Color Golden Brown
 Odor None
 Turbidity (> 100 NTU) >100
 Sheen/Free Product -

Samples collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
<u>45 ML</u>	<u>VIAL</u>	<u>3</u>		<u>HCL</u>	<u>-</u>
<u>1 L</u>	<u>GLASS AMBY</u>	<u>2</u>		<u>-</u>	<u>-</u>

Notes:

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 10/21/99
 Site Name NIMO-POLKA DOT
 Location ROME, NY
 Project No. 1118.080
 Personnel PGB/BAK

Weather ~60 sunny, breeze
 Well # MW-10
 Evacuation Method Bailer - Disp.
 Sampling Method Bailer - Disp. S.S.

Well Information:

Depth of Well * 19.00 ft.
 Depth to Water * 6.72 ft.
 Length of Water Column 12.28 ft.
 Volume of Water in Well 2.00 gal.(s)
 3X Volume of Water in Well 6.00 gal.(s)

Water Volume ft. for:
 2" Diameter Well = 0.163 X LWC
 4" Diameter Well = 0.653 X LWC
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling _____ gal.(s)
 Did well go dry? _____

* Measurements taken from Well Casing Protective Casing (Other, Specify) _____

Instrument Calibration:

pH Buffer Readings
 4.0 Standard _____
 7.0 Standard _____
 10.0 Standard _____

Conductivity Standard Readings
 84 S Standard _____
 1413 S Standard _____

Water parameters:

Gallons Removed

Temperature Readings

pH Readings

Conductivity Readings uS/cm

initial _____
2
4
8

initial _____
14.7
14.9
14.8

initial _____
7.92
7.85
7.97

initial _____
1760
1790
1680

Water Sample:

Time Collected 4:20

Physical Appearance at Start

Color light Brown
 Odor None
 Turbidity (> 100 NTU) 4.7100
 Sheen/Free Product - None

Physical Appearance at Sampling

Color Golden Brown
 Odor None
 Turbidity (> 100 NTU) 7.100
 Sheen/Free Product None

Samples collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
<u>40ml</u>	<u>Glass</u>	<u>3</u>	<u>-</u>	<u>HCL</u>	<u>6.2</u>
<u>1-liter</u>	<u>Glass-Amber</u>	<u>2</u>	<u>-</u>	<u>-</u>	<u>-</u>

Notes: Sampled with stainless steel bailer.

Data Validation Services

120 Cobble Creek Road P. O. Box 208

North Creek, N. Y. 12853

Phone 518-251-4429

Facsimile 518-251-4428

December 14, 1999

Deborah Wright
O'Brien & Gere Engineers
5000 Brittonfield Parkway
Syracuse, NY 13221

RE: Data Usability Summary Report for NMPC-Rome Site Data Package
OBG Labs data packages for samples collected October 1999

Dear Ms. Wright:

Review has been completed for the data packages generated by O'Brien and Gere Laboratories, pertaining to samples collected 10/14/99 and 10/21/99 at the Niagara Mohawk Jay Street Site. Fourteen aqueous field samples were analysed for TCL volatiles and PAHs. Four soil samples were analysed for TCL volatiles, semivolatiles, pesticide/PCBs, and metals/CN. Matrix spikes/duplicates, and a trip blank were also processed. Methodologies utilized are those of the 1995 NYSDEC ASP/SW846.

The data packages submitted contained full deliverables for validation, but this usability report is generated from review of the summary form information, with review of sample raw data, and some review of associated QC raw data. Full validation has not been performed. However, the reported summary tables have been reviewed for application of USEPA Regional and National validation qualifiers, as affects the usability of the sample data. The following items were reviewed:

- * Laboratory Narrative Discussion
- * Custody Documentation
- * Holding Times
- * Surrogate and Internal Standard Recoveries
- * Matrix Spike Recoveries/Duplicate Correlations
- * Field Duplicate Correlations
- * Preparation/Calibration Blanks
- * Control Spike/Laboratory Control Samples
- * Instrumental Tunes
- * Calibration Standards
- * Instrument IDLs
- * Method Compliance

Those items listed above which show deficiency are discussed within the text of this narrative. All other items were determined to be acceptable.

pg. 2/4

In summary, sample reported values, with the exception of pesticide and methylene chloride detections, are usable for project goals, with minor qualification of some of the organic results as estimated. Many of the pesticide detections are edited to nondetection due to possible matrix contribution to the responses.

The soil matrix effect on recovery of most metals was not evaluated for accuracy and precision.

Copies of the laboratory case narrative and laboratory NYSDEC Sample Analytical Requirement Summary Forms are attached to this text, and should be reviewed in conjunction with this report. All included in this submission are client tables which have been edited with red-ink, to reflect the validation qualifiers.

The following text discusses quality issues of concern.

General

Per NYSDEC ASP Category B deliverables requirements, the case narratives should have included the "verbatim" statement.

AQUEOUS SAMPLES

TCL Volatile Analyses by EPA8260B

Some of the samples exhibited slightly outlying internal and/or surrogate standard responses. Because this was also observed in method and trip blanks, the outlying recoveries appear to be a function of the sample processing, rather than matrix effect. In two cases, the reanalysis was performed beyond allowable holding time. Therefore only the initial analysis results should be used. Most of the associated values were nondetection, and are unaffected, as shown by the reported MDLs. The qualification that are indicated are the following; the variance is not expected to be great:

- | | |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MW-3 | All detected values should be considered estimated ("J") |
| MW-8S | Use dilution result for toluene, tetrachloroethene, ethylbenzene, xylenes, and styrene
Use initial analysis results for all others, with no qualification for any analytes. |
| MW-1 | Exhibited one surrogate recovery that was one percentage point high; the samples was not reanalysed. There is no significant effect on the reported values. |

Methylene chloride detections in the samples are considered contamination, and results edited to nondetection. Although not qualified, low level carbon disulfide detections are also suspect as potential contamination.

Matrix spikes of MW-8S were acceptable. An observed elevated response for acetone in the LCS control does not affect the associated samples results, which are nondetection for that analyte.

The summary Forms 4 and 5 should not have denoted a heated purge for these analyses.

pg. 3/4

PAHs by EPA 8270

Certain of the samples exhibited elevated concentrations of naphthalene which required dilution analyses. These values should have been flagged as "E" on the initial analysis report forms. In these cases, the result for naphthalene should be derived from the dilution analysis. All other analyte values can be used without qualification from the initial analysis. The affected samples are MW-4, MW-5, MW-4D, and MW-7S.

Due to high concentrations of sample analytes, the matrix spikes of MW-8S are not useful for evaluation of accuracy and precision.

SOIL SAMPLES**TCL Volatile Analyses by ASP 95-1**

No qualifications to reported results were indicated. Quality control requirements were met.

Matrix spikes of MW-9(10-12) were acceptable.

Although not recommended for qualification, low level methylene chloride detections are suspect as possible contamination.

TCL Semivolatile by ASP 95-2

MW-9(10-12) showed low recoveries of internal standards on repeated analysis. The reanalysis result should be used, as it showed only one slightly low response. Based upon evaluation of reported MDLs, there is no additional qualification to reported results indicated (the only associated detection is already estimated).

Matrix spikes of MW-10(6-8) showed acceptable accuracy and precision. The observed slightly elevated recoveries in the LCS does not affect sample reported results, which are nondetection for those analytes.

All Tentatively Identified Compounds (TICs) reported in the samples are rejected, as they were detected in the associated method blank. These should have been flagged by the laboratory with the "B" flag.

Although not qualified, the detected concentrations of bis(2-ethylhexyl)phthalate are at levels typical of contamination, and results should be used with caution.

pg. 4/4

TCL Pesticide/PCBs by ASP 95-3

Most of the pesticide detections exhibited very poor dual column correlation, and are therefore considered interference or matrix contribution. Some of the responses indicating detected values were also found in the method blank. All sample detected results (as indicated on the attached tables) are edited to nondetection, with the following exceptions:

MW-9(10-12)	No edits to heptachlor epoxide, 4,4'-DDE, and 4,4'-DDD
MW-9(18-20)	No edits to delta-BHC and 4,4'-DDE
MW-10(6-8)	No edit to 4,4'-DDE
MW-10(18-20)	No edit to 4,4'-DDE

Matrix spikes of MW-9(18-20) were acceptable.

The elevated recovery of surrogate DCB on the florisol cleanup (128%) does not adversely affect sample reported results.

TAL Metals/CN by ASP CLP-M

With the exception of mercury and cyanide (which were acceptable for MW-10(18-20)), no accuracy and precision results were reported for project or batch QC. Additionally, no serial dilution evaluation was performed for this project. Therefore the matrix effects of the samples are not determined for the elements analysed by ICP.

As reported, no qualifications are indicated for the metals/CN sample results.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,


Judy Harry

Att.

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Method: 8270**

Client: Niagara Mohawk
Project: Rome Former MGP Site
Proj. Desc: Jay & Madison

Job No.: 1118.082.517
Certification NY No.: 10155

Sample: N3561
Samp. Description: MW-9
Instrument: HP5972A GCMS#5
Units: ug/L
Number of analytes: 18

Collected: 10/21/99
Received: 10/22/99
Prepared: 10/25/99
Matrix: Water
QC Batch: 102599W1
%Solids:
Sample Size: .95 L

Parameter	Result	Qual	MDL	RL	Dilution	Analyzed	Notes
Naphthalene	<11.	U	.38	10.5	1	10/28/99	
2-Methylnaphthalene	<11.	U	.14	10.5	1	10/28/99	
2-Chloronaphthalene	<11.	U	.25	10.5	1	10/28/99	
Acenaphthylene	<11.	U	.27	10.5	1	10/28/99	
Acenaphthene	<11.	U	.26	10.5	1	10/28/99	
Fluorene	<11.	U	.42	10.5	1	10/28/99	
Phenanthrene	<11.	U	.25	10.5	1	10/28/99	
Anthracene	<11.	U	.18	10.5	1	10/28/99	
Fluoranthene	<11.	U	.24	10.5	1	10/28/99	
Pyrene	<11.	U	.21	10.5	1	10/28/99	
Benzo[a]anthracene	<11.	U	.22	10.5	1	10/28/99	
Chrysene	<11.	U	.32	10.5	1	10/28/99	
Benzo[b]fluoranthene	<11.	U	.27	10.5	1	10/28/99	
Benzo[k]fluoranthene	<11.	U	.31	10.5	1	10/28/99	
Benzo[a]pyrene	<11.	U	.22	10.5	1	10/28/99	
Indeno[1,2,3-cd]pyrene	<11.	U	.76	10.5	1	10/28/99	
Dibenz[a,h]anthracene	<11.	U	.67	10.5	1	10/28/99	
Benzo[g,h,i]perylene	<11.	U	.86	10.5	1	10/28/99	

Surrogate	Result	Qual	Limits	Dilution	Analyzed
Nitrobenzene-d5 (surrogate)	101.%		35-114	1	10/28/99
2-Fluorobiphenyl (surrogate)	86.%		43-116	1	10/28/99
Terphenyl-d14 (surrogate)	82.%		33-141	1	10/28/99
1,2-Dichlorobenzene-d4 (surrogate)	88.%		16-110	1	10/28/99

Notes:

- # - Outside control limits U - Undetected at the reported level.
- J - reported value is estimated.
- E - concentration exceeded the calibration range and is estimated.

Authorized: *Monika Santucci*
Date: November 1, 1999 Monika Santucci

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8270

Client: Niagara Mohawk
Project: Rome Former MGP Site
Proj. Desc: Jay & Madison

Job No.: 1118.082.517
Certification NY No.: 10155

Sample: N3560
Samp. Description: MW-10
Instrument: HP5972A GCMS#5
Units: ug/L
Number of analytes: 18

Collected: 10/21/99
Received: 10/22/99
Prepared: 10/25/99
Matrix: Water
QC Batch: 102599W1
%Solids:
Sample Size: 1 L

Parameter	Result	Qual	MDL	RL	Dilution	Analyzed	Notes
Naphthalene	<10.	U	.36	10.	1	10/28/99	
2-Methylnaphthalene	<10.	U	.13	10.	1	10/28/99	
2-Chloronaphthalene	<10.	U	.24	10.	1	10/28/99	
Acenaphthylene	<10.	U	.26	10.	1	10/28/99	
Acenaphthene	<10.	U	.25	10.	1	10/28/99	
Fluorene	<10.	U	.4	10.	1	10/28/99	
Phenanthrene	<10.	U	.24	10.	1	10/28/99	
Anthracene	<10.	U	.17	10.	1	10/28/99	
Fluoranthene	J 2.	J	.23	10.	1	10/28/99	
Pyrene	J 2.	J	.2	10.	1	10/28/99	
Benzo [a] anthracene	J 1.	J	.21	10.	1	10/28/99	
Chrysene	J 1.	J	.3	10.	1	10/28/99	
Benzo [b] fluoranthene	J 1.	J	.26	10.	1	10/28/99	
Benzo [k] fluoranthene	<10.	U	.29	10.	1	10/28/99	
Benzo [a] pyrene	<10.	U	.21	10.	1	10/28/99	
Indeno [1,2,3-cd] pyrene	<10.	U	.72	10.	1	10/28/99	
Dibenz [a, h] anthracene	<10.	U	.64	10.	1	10/28/99	
Benzo [g, h, i] perylene	<10.	U	.82	10.	1	10/28/99	

Surrogate	Result	Qual	Limits	Dilution	Analyzed
Nitrobenzene-d5 (surrogate)	108.%		35-114	1	10/28/99
2-Fluorobiphenyl (surrogate)	93.%		43-116	1	10/28/99
Terphenyl-d14 (surrogate)	76.%		33-141	1	10/28/99
1,2-Dichlorobenzene-d4 (surrogate)	96.%		16-110	1	10/28/99

Notes:

- Outside control limits U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: *Monika Santucci*
Date: November 1, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Method: 8260**

Client: Niagara Mohawk
Project: Rome Former MGP Site
Proj. Desc: Jay & Madison

Job No.: 1118.082.517
Certification NY No.: 10155

Sample: N3561
Samp. Description: MW-9
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 34

Collected: 10/21/99
Received: 10/22/99
Prepared: 10/26/99
Matrix: Water
QC Batch: 102699W1
%Solids:
Purge volume: 25 mL

Parameter	Result	Qual	MDL	RL	Dilution	Analyzed	Notes
Bromoform	<.5	U	.108	.5	1	10/26/99	
Xylene (total)	<10.	U	.02	10.	1	10/26/99	
Styrene	<.5	U	.011	.5	1	10/26/99	
1,1,2,2-Tetrachloroethane	<.5	U	.052	.5	1	10/26/99	

Surrogate	Result	Qual	Limits	Dilution	Analyzed
Dibromofluoromethane (surrogate)	101.%		70-131	1	10/26/99
1,2-Dichloroethane-d4 (surrogate)	100.%		76-114	1	10/26/99
Toluene-d8 (surrogate)	105.%		88-110	1	10/26/99
Bromofluorobenzene (surrogate)	91.%		86-115	1	10/26/99

Notes:

- Outside control limits U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 11, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Method: 8260**

Client: Niagara Mohawk
Project: Rome Former MGP Site
Proj. Desc: Jay & Madison

Job No.: 1118.082.517
Certification NY No.: 10155

Sample: N3561
Samp. Description: MW-9
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 34

Collected: 10/21/99
Received: 10/22/99
Prepared: 10/26/99
Matrix: Water
QC Batch: 102699W1
%Solids:
Purge volume: 25 mL

Parameter	Result	Qual	MDL	RL	Dilution	Analyzed	Notes
Chloromethane	<1.	U	.07	1.	1	10/26/99	
Vinyl chloride	J .1	J	.02	1.	1	10/26/99	
Bromomethane	<1.	U	.06	1.	1	10/26/99	
Chloroethane	<1.	U	.07	1.	1	10/26/99	
Acetone	<10.	U	.31	10.	1	10/26/99	
1,1-Dichloroethene	<.5	U	.144	.5	1	10/26/99	
Methylene chloride	J .7	J	.061	2.0	1	10/26/99	
Carbon disulfide	J .2	J	.014	.5	1	10/26/99	
trans-1,2-Dichloroethene	<.5	U	.14	.5	1	10/26/99	
1,1-Dichloroethane	<.5	U	.054	.5	1	10/26/99	
2-Butanone	<10.	U	.58	10.	1	10/26/99	
cis-1,2-Dichloroethene	J .3	J	.145	.5	1	10/26/99	
Chloroform	2.		.061	.5	1	10/26/99	
1,2-Dichloroethane	<.5	U	.067	.5	1	10/26/99	
1,1,1-Trichloroethane	2.		.049	.5	1	10/26/99	
Carbon tetrachloride	<.5	U	.06	.5	1	10/26/99	
Benzene	<10.	U	.03	10.	1	10/26/99	
1,2-Dichloropropane	<.5	U	.067	.5	1	10/26/99	
Trichloroethene	3.		.057	.5	1	10/26/99	
Bromodichloromethane	<.5	U	.025	.5	1	10/26/99	
cis-1,3-Dichloropropene	<.5	U	.049	.5	1	10/26/99	
4-Methyl-2-pentanone	<5.	U	.11	5.	1	10/26/99	
trans-1,3-Dichloropropene	<.5	U	.06	.5	1	10/26/99	
1,1,2-Trichloroethane	<.5	U	.079	.5	1	10/26/99	
Toluene	<10.	U	.02	10.	1	10/26/99	
Dibromochloromethane	<.5	U	.049	.5	1	10/26/99	
2-Hexanone	<5.	U	.31	5.	1	10/26/99	
Tetrachloroethene	12.		.087	.5	1	10/26/99	
Chlorobenzene	<.5	U	.014	.5	1	10/26/99	
Ethylbenzene	<10.	U	.02	10.	1	10/26/99	

- Outside control limits U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 11, 1999 Monika Santucci

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Method: 8260**

Client: Niagara Mohawk
Project: Rome Former MGP Site
Proj. Desc: Jay & Madison

Job No.: 1118.082.517
Certification NY No.: 10155

Sample: N3560RE
Samp. Description: MW-10
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 34

Collected: 10/21/99
Received: 10/22/99
Prepared: 11/05/99
Matrix: Water
QC Batch: 110599W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Qual	MDL	RL	Dilution	Analyzed	Notes
Bromoform	<.5	U	.108	.5	1	11/05/99	
Xylene (total)	<10.	U	.02	10.	1	11/05/99	
Styrene	<.5	U	.011	.5	1	11/05/99	
1,1,2,2-Tetrachloroethane	<.5	U	.052	.5	1	11/05/99	

Surrogate	Result	Qual	Limits	Dilution	Analyzed
Dibromofluoromethane (surrogate)	107.%		70-131	1	11/05/99
1,2-Dichloroethane-d4 (surrogate)	105.%		76-114	1	11/05/99
Toluene-d8 (surrogate)	101.%		88-110	1	11/05/99
Bromofluorobenzene (surrogate)	82.% #		86-115	1	11/05/99

Notes:

- Outside control limits U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 11, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: Niagara Mohawk
Project: Rome Former MGP Site
Proj. Desc: Jay & Madison

Job No.: 1118.082.517
Certification NY No.: 10155

Sample: N3560RE
Samp. Description: MW-10
Instrument: HP5970 GC/MS#2
Units: ug/L
Number of analytes: 34

Collected: 10/21/99
Received: 10/22/99
Prepared: 11/05/99
Matrix: Water
QC Batch: 110599W2
%Solids:
Purge volume: 25 mL

Parameter	Result	Qual	MDL	RL	Dilution	Analyzed	Notes
Chloromethane	<1.	U	.07	1.	1	11/05/99	
Vinyl chloride	<1.	U	.02	1.	1	11/05/99	
Bromomethane	<1.	U	.06	1.	1	11/05/99	
Chloroethane	<1.	U	.07	1.	1	11/05/99	
Acetone	<10.	U	.31	10.	1	11/05/99	
1,1-Dichloroethene	<.5	U	.144	.5	1	11/05/99	
Methylene chloride	J .5	J	.061	2.0	1	11/05/99	
Carbon disulfide	<.5	U	.014	.5	1	11/05/99	
trans-1,2-Dichloroethene	<.5	U	.14	.5	1	11/05/99	
1,1-Dichloroethane	<.5	U	.054	.5	1	11/05/99	
2-Butanone	<10.	U	.58	10.	1	11/05/99	
cis-1,2-Dichloroethene	<.5	U	.145	.5	1	11/05/99	
Chloroform	21.		.061	.5	1	11/05/99	
1,2-Dichloroethane	<.5	U	.067	.5	1	11/05/99	
1,1,1-Trichloroethane	<.5	U	.049	.5	1	11/05/99	
Carbon tetrachloride	<.5	U	.06	.5	1	11/05/99	
Benzene	<10.	U	.03	10.	1	11/05/99	
1,2-Dichloropropane	<.5	U	.067	.5	1	11/05/99	
Trichloroethene	<.5	U	.057	.5	1	11/05/99	
Bromodichloromethane	<.5	U	.025	.5	1	11/05/99	
cis-1,3-Dichloropropene	<.5	U	.049	.5	1	11/05/99	
4-Methyl-2-pentanone	<5.	U	.11	5.	1	11/05/99	
trans-1,3-Dichloropropene	<.5	U	.06	.5	1	11/05/99	
1,1,2-Trichloroethane	<.5	U	.079	.5	1	11/05/99	
Toluene	<10.	U	.02	10.	1	11/05/99	
Dibromochloromethane	<.5	U	.049	.5	1	11/05/99	
2-Hexanone	<5.	U	.31	5.	1	11/05/99	
Tetrachloroethene	J .5	J	.087	.5	1	11/05/99	
Chlorobenzene	<.5	U	.014	.5	1	11/05/99	
Ethylbenzene	<10.	U	.02	10.	1	11/05/99	

- Outside control limits U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 11, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

**O'Brien & Gere
Laboratories, Inc.**

**Analytical Results
Method: 8260**

Client: Niagara Mohawk
Project: Rome Former MGP Site
Proj. Desc: Jay & Madison

Job No.: 1118.082.517
Certification NY No.: 10155

Sample: N3560
Samp. Description: MW-10
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 34

Collected: 10/21/99
Received: 10/22/99
Prepared: 10/26/99
Matrix: Water
QC Batch: 102699W1
%Solids:
Purge volume: 25 mL

Parameter	Result	Qual	MDL	RL	Dilution	Analyzed	Notes
Bromoform	<.5	U	.108	.5	1	10/26/99	
Xylene (total)	<10.	U	.02	10.	1	10/26/99	
Styrene	<.5	U	.011	.5	1	10/26/99	
1,1,2,2-Tetrachloroethane	<.5	U	.052	.5	1	10/26/99	

Surrogate	Result	Qual	Limits	Dilution	Analyzed
Dibromofluoromethane (surrogate)	109.%		70-131	1	10/26/99
1,2-Dichloroethane-d4 (surrogate)	109.%		76-114	1	10/26/99
Toluene-d8 (surrogate)	109.%		88-110	1	10/26/99
Bromofluorobenzene (surrogate)	100.%		86-115	1	10/26/99

Notes:

- Outside control limits U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 11, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8260

Client: Niagara Mohawk
Project: Rome Former MGP Site
Proj. Desc: Jay & Madison

Job No.: 1118.082.517
Certification NY No.: 10155

Sample: N3560
Samp. Description: MW-10
Instrument: HP5973 GCMS#3
Units: ug/L
Number of analytes: 34

Collected: 10/21/99
Received: 10/22/99
Prepared: 10/26/99
Matrix: Water
QC Batch: 102699W1
%Solids:
Purge volume: 25 mL

Parameter	Result	Qual	MDL	RL	Dilution	Analyzed	Notes
Chloromethane	<1.	U	.07	1.	1	10/26/99	
Vinyl chloride	<1.	U	.02	1.	1	10/26/99	
Bromomethane	<1.	U	.06	1.	1	10/26/99	
Chloroethane	<1.	U	.07	1.	1	10/26/99	
Acetone	<10.	U	.31	10.	1	10/26/99	
1,1-Dichloroethene	<.5	U	.144	.5	1	10/26/99	
Methylene chloride	J .8	J	.061	2.0	1	10/26/99	
Carbon disulfide	<.5	U	.014	.5	1	10/26/99	
trans-1,2-Dichloroethene	<.5	U	.14	.5	1	10/26/99	
1,1-Dichloroethane	<.5	U	.054	.5	1	10/26/99	
2-Butanone	<10.	U	.58	10.	1	10/26/99	
cis-1,2-Dichloroethene	<.5	U	.145	.5	1	10/26/99	
Chloroform	23.		.061	.5	1	10/26/99	
1,2-Dichloroethane	<.5	U	.067	.5	1	10/26/99	
1,1,1-Trichloroethane	<.5	U	.049	.5	1	10/26/99	
Carbon tetrachloride	<.5	U	.06	.5	1	10/26/99	
Benzene	<10.	U	.03	10.	1	10/26/99	
1,2-Dichloropropane	<.5	U	.067	.5	1	10/26/99	
Trichloroethene	<.5	U	.057	.5	1	10/26/99	
Bromodichloromethane	<.5	U	.025	.5	1	10/26/99	
cis-1,3-Dichloropropene	<.5	U	.049	.5	1	10/26/99	
4-Methyl-2-pentanone	<5.	U	.11	5.	1	10/26/99	
trans-1,3-Dichloropropene	<.5	U	.06	.5	1	10/26/99	
1,1,2-Trichloroethane	<.5	U	.079	.5	1	10/26/99	
Toluene	<10.	U	.02	10.	1	10/26/99	
Dibromochloromethane	<.5	U	.049	.5	1	10/26/99	
2-Hexanone	<5.	U	.31	5.	1	10/26/99	
Tetrachloroethene	.7		.087	.5	1	10/26/99	
Chlorobenzene	<.5	U	.014	.5	1	10/26/99	
Ethylbenzene	<10.	U	.02	10.	1	10/26/99	

- Outside control limits U - Undetected at the reported level.
J - reported value is estimated.
E - concentration exceeded the calibration range and is estimated.

Authorized: _____
Date: November 11, 1999 Monika Santucci

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC Sample

N3075

Lab Name: O'Brien & Gere Laboratories Contract: Niagara Mo
 Lab Code: OBG Case No.: 1118.080 SAS No.: _____ SDG No.: 3552
 Matrix: (soil/water) SOIL Lab Sample ID: MW-9 (10-12')
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: G6271.D
 Level: (low/med) LOW Date Received: 10/15/99
 % Moisture: not dec. 21 Date Analyzed: 10/19/99
 GC Column: J & W D ID: 0.45 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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		2	J
67-64-1	Acetone		13	U
75-15-0	Carbon disulfide		13	U
75-35-4	1,1-Dichloroethene		13	U
75-35-3	1,1-Dichloroethane		13	U
540-59-0	1,2-Dichloroethene (total)		13	U
67-66-3	Chloroform		13	U
107-06-2	1,2-Dichloroethane		13	U
78-93-3	2-Butanone		13	U
71-55-6	1,1,1-Trichloroethane		13	U
56-23-5	Carbon Tetrachloride		13	U
75-27-4	Bromodichloromethane		13	U
78-87-5	1,2-Dichloropropane		13	U
10061-01-5	cis-1,3-Dichloropropene		13	U
79-01-6	Trichloroethene		2	J
71-43-2	Benzene		13	U
124-48-1	Dibromochloromethane		13	U
10061-02-6	trans-1,3-Dichloropropene		13	U
79-00-5	1,1,2-Trichloroethane		13	U
75-25-2	Bromoform		13	U
108-10-1	4-Methyl-2-pentanone		13	U
591-78-6	2-Hexanone		13	U
127-18-4	Tetrachloroethene		10	J
79-34-5	1,1,2,2-Tetrachloroethane		13	U
108-88-3	Toluene		13	U
108-90-7	Chlorobenzene		13	U
100-41-4	Ethylbenzene		13	U
100-42-5	Styrene		13	U
1330-20-7	Xylene (total)		13	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC Sample

N3076

Lab Name: O'Brien & Gere Laboratories Contract: Niagara Mo
 Lab Code: OBG Case No.: 1118.080 SAS No.: _____ SDG No.: 3552
 Matrix: (soil/water) SOIL Lab Sample ID: MW-9 (18-20')
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: G6272.D
 Level: (low/med) LOW Date Received: 10/15/99
 % Moisture: not dec. 20 Date Analyzed: 10/19/99
 GC Column: J & W D ID: 0.45 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		12	U
74-83-9	Bromomethane		12	U
75-01-4	Vinyl Chloride		12	U
75-00-3	Chloroethane		12	U
75-09-2	Methylene chloride		12	U
67-64-1	Acetone		12	U
75-15-0	Carbon disulfide		12	U
75-35-4	1,1-Dichloroethene		12	U
75-35-3	1,1-Dichloroethane		12	U
540-59-0	1,2-Dichloroethene (total)		12	U
67-66-3	Chloroform		12	U
107-06-2	1,2-Dichloroethane		12	U
78-93-3	2-Butanone		12	U
71-55-6	1,1,1-Trichloroethane		12	U
56-23-5	Carbon Tetrachloride		12	U
75-27-4	Bromodichloromethane		12	U
78-87-5	1,2-Dichloropropane		12	U
10061-01-5	cis-1,3-Dichloropropene		12	U
79-01-6	Trichloroethene		12	U
71-43-2	Benzene		12	U
124-48-1	Dibromochloromethane		12	U
10061-02-6	trans-1,3-Dichloropropene		12	U
79-00-5	1,1,2-Trichloroethane		12	U
75-25-2	Bromoform		12	U
108-10-1	4-Methyl-2-pentanone		12	U
591-78-6	2-Hexanone		12	U
127-18-4	Tetrachloroethene		12	U
79-34-5	1,1,2,2-Tetrachloroethane		12	U
108-88-3	Toluene		12	U
108-90-7	Chlorobenzene		12	U
100-41-4	Ethylbenzene		12	U
100-42-5	Styrene		12	U
1330-20-7	Xylene (total)		12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC Sample

N3077

Lab Name: O'Brien & Gere Laboratories Contract: Niagara Mo
 Lab Code: OBG Case No.: 1118.080 SAS No.: _____ SDG No.: 3552
 Matrix: (soil/water) SOIL Lab Sample ID: MW-10 (6-8')
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: G6273.D
 Level: (low/med) LOW Date Received: 10/15/99
 % Moisture: not dec. 12.5 Date Analyzed: 10/19/99
 GC Column: J & W D ID: 0.45 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane		11	U
74-83-9	Bromomethane		11	U
75-01-4	Vinyl Chloride		11	U
75-00-3	Chloroethane		11	U
75-09-2	Methylene chloride		2	J
67-64-1	Acetone		11	U
75-15-0	Carbon disulfide		11	U
75-35-4	1,1-Dichloroethene		11	U
75-35-3	1,1-Dichloroethane		11	U
540-59-0	1,2-Dichloroethene (total)		11	U
67-66-3	Chloroform		11	U
107-06-2	1,2-Dichloroethane		11	U
78-93-3	2-Butanone		11	U
71-55-6	1,1,1-Trichloroethane		11	U
56-23-5	Carbon Tetrachloride		11	U
75-27-4	Bromodichloromethane		11	U
78-87-5	1,2-Dichloropropane		11	U
10061-01-5	cis-1,3-Dichloropropene		11	U
79-01-6	Trichloroethene		11	U
71-43-2	Benzene		11	U
124-48-1	Dibromochloromethane		11	U
10061-02-6	trans-1,3-Dichloropropene		11	U
79-00-5	1,1,2-Trichloroethane		11	U
75-25-2	Bromoform		11	U
108-10-1	4-Methyl-2-pentanone		11	U
591-78-6	2-Hexanone		11	U
127-18-4	Tetrachloroethene		6	J
79-34-5	1,1,2,2-Tetrachloroethane		11	U
108-88-3	Toluene		11	U
108-90-7	Chlorobenzene		11	U
100-41-4	Ethylbenzene		11	U
100-42-5	Styrene		11	U
1330-20-7	Xylene (total)		11	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC Sample

N3078

Lab Name: O'Brien & Gere Laboratories Contract: Niagara Mo
 Lab Code: OBG Case No.: 1118.080 SAS No.: _____ SDG No.: 3552
 Matrix: (soil/water) SOIL Lab Sample ID: MW-10 (18-20)
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: G6274.D
 Level: (low/med) LOW Date Received: 10/15/99
 % Moisture: not dec. 15.2 Date Analyzed: 10/19/99
 GC Column: J & W D ID: 0.45 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane		12	U
74-83-9	Bromomethane		12	U
75-01-4	Vinyl Chloride		12	U
75-00-3	Chloroethane		12	U
75-09-2	Methylene chloride		2	J
67-64-1	Acetone		12	U
75-15-0	Carbon disulfide		12	U
75-35-4	1,1-Dichloroethene		12	U
75-35-3	1,1-Dichloroethane		12	U
540-59-0	1,2-Dichloroethene (total)		12	U
67-66-3	Chloroform		4	J
107-06-2	1,2-Dichloroethane		12	U
78-93-3	2-Butanone		12	U
71-55-6	1,1,1-Trichloroethane		12	U
56-23-5	Carbon Tetrachloride		12	U
75-27-4	Bromodichloromethane		12	U
78-87-5	1,2-Dichloropropane		12	U
10061-01-5	cis-1,3-Dichloropropene		12	U
79-01-6	Trichloroethene		12	U
71-43-2	Benzene		12	U
124-48-1	Dibromochloromethane		12	U
10061-02-6	trans-1,3-Dichloropropene		12	U
79-00-5	1,1,2-Trichloroethane		12	U
75-25-2	Bromoform		12	U
108-10-1	4-Methyl-2-pentanone		12	U
591-78-6	2-Hexanone		12	U
127-18-4	Tetrachloroethene		12	U
79-34-5	1,1,2,2-Tetrachloroethane		12	U
108-88-3	Toluene		12	U
108-90-7	Chlorobenzene		12	U
100-41-4	Ethylbenzene		12	U
100-42-5	Styrene		12	U
1330-20-7	Xylene (total)		12	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE

N3075

Lab Name: O'Brien & Gere Laboratories Contract: Niagara Mo
 Lab Code: OBG Case No.: 1118.080 SAS No.: _____ SDG No.: 3552
 Matrix: (soil/water) SOIL Lab Sample ID: MW-9 (10-12')
 Sample wt/vol: 30 (g/ml) G Lab File ID: H6717.D
 Level: (low/med) LOW Date Received: 10/15/99
 % Moisture: 21 decanted:(Y/N) N Date Extracted: 10/20/99
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/25/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
111-44-4	bis(2-Chloroethyl)ether	420		U
108-95-2	Phenol	420		U
95-57-8	2-Chlorophenol	420		U
541-73-1	1,3-Dichlorobenzene	420		U
106-46-7	1,4-Dichlorobenzene	420		U
95-50-1	1,2-Dichlorobenzene	420		U
108-60-1	2,2'-oxybis(1-chloropropane)	420		U
95-48-7	2-Methylphenol	420		U
67-72-1	Hexachloroethane	420		U
621-64-7	N-Nitroso-di-n-propylamine	420		U
106-44-5	4-Methylphenol	420		U
98-95-3	Nitrobenzene	420		U
78-59-1	Isophorone	420		U
88-75-5	2-Nitrophenol	420		U
105-67-9	2,4-Dimethylphenol	420		U
111-91-1	bis(2-Chloroethoxy)methane	420		U
120-83-2	2,4-Dichlorophenol	420		U
120-82-1	1,2,4-Trichlorobenzene	420		U
91-20-3	Naphthalene	420		U
106-47-8	4-Chloroaniline	420		U
87-68-3	Hexachlorobutadiene	420		U
59-50-7	4-Chloro-3-methylphenol	420		U
91-57-6	2-Methylnaphthalene	420		U
77-47-4	Hexachlorocyclopentadiene	420		U
88-06-2	2,4,6-Trichlorophenol	420		U
95-95-4	2,4,5-Trichlorophenol	1100		U
91-58-7	2-Chloronaphthalene	420		U
88-74-4	2-Nitroaniline	1100		U
208-96-8	Acenaphthylene	420		U
131-11-3	Dimethyl phthalate	420		U
606-20-2	2,6-Dinitrotoluene	420		U
83-32-9	Acenaphthene	420		U
99-09-2	3-Nitroaniline	1100		U
51-28-5	2,4-Dinitrophenol	1100		U
132-64-9	Dibenzofuran	420		U
121-14-2	2,4-Dinitrotoluene	420		U
100-02-7	4-Nitrophenol	1100		U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE

N3075

Lab Name: O'Brien & Gere Laboratories Contract: Niagara Mo
 Lab Code: OBG Case No.: 1118.080 SAS No.: _____ SDG No.: 3552
 Matrix: (soil/water) SOIL Lab Sample ID: MW-9 (10-12')
 Sample wt/vol: 30 (g/ml) G Lab File ID: H6717.D
 Level: (low/med) LOW Date Received: 10/15/99
 % Moisture: 21 decanted:(Y/N) N Date Extracted: 10/20/99
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/25/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
86-73-7	Fluorene	420		U
7005-72-3	4-Chlorophenyl phenyl ether	420		U
84-66-2	Diethyl phthalate	420		U
100-01-6	4-Nitroaniline	1100		U
534-52-1	4,6-Dinitro-2-methylphenol	1100		U
86-30-6	n-Nitrosodiphenylamine	420		U
101-55-3	4-Bromophenyl phenyl ether	420		U
118-74-1	Hexachlorobenzene	420		U
87-86-5	Pentachlorophenol	1100		U
85-01-8	Phenanthrene	420		U
120-12-7	Anthracene	420		U
84-74-2	Di-n-butyl phthalate	420		U
206-44-0	Fluoranthene	420		U
129-00-0	Pyrene	420		U
85-68-7	Butyl benzyl phthalate	420		U
91-94-1	3,3'-Dichlorobenzidine	420		U
56-55-3	Benzo[a]anthracene	420		U
218-01-9	Chrysene	420		U
117-81-7	bis(2-Ethylhexyl)phthalate	190		J
117-84-0	Di-n-octyl phthalate	420		U
205-99-2	Benzo[b]fluoranthene	420		U
207-08-9	Benzo[k]fluoranthene	420		U
50-32-8	Benzo[a]pyrene	420		U
193-39-5	Indeno[1,2,3-cd]pyrene	420		U
53-70-3	Dibenz[a,h]anthracene	420		U
191-24-2	Benzo[g,h,i]perylene	420		U
86-74-8	Carbazole	420		U

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET NYSDEC SAMPLE
 TENTATIVELY IDENTIFIED COMPOUNDS

N3075

Lab Name: O'Brien & Gere Laboratories Contract: Niagara Mo
 Lab Code: OBG Case No.: 1118.080. SAS No.: _____ SDG No.: 3552
 Matrix: (soil/water) SOIL Lab Sample ID: MW-9 (10-12')
 Sample wt/vol: 30 (g/ml) G Lab File ID: H6717.D
 Level: (low/med) LOW Date Received: 10/15/99
 % Moisture: 21 decanted: (Y/N) N Date Analyzed: 10/25/99
 Concentrated Extract Volume: 500 (uL) Dilution Factor: 1.0
 Injection Volume: 2.0 (uL) Soil Aliquot Volume: 2 (uL)
 GPC Cleanup: (Y/N) Y pH: 7

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.17	140	J
2.	unknown	15.04	450	J
3.	unknown	17.07	210	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE

N3075RE

Lab Name: O'Brien & Gere Laboratories Contract: Niagara Mo
 Lab Code: OBG Case No.: 1118.080 SAS No.: _____ SDG No.: 3552
 Matrix: (soil/water) SOIL Lab Sample ID: MW-9 (10-12')
 Sample wt/vol: 30 (g/ml) G Lab File ID: H6743.D
 Level: (low/med) LOW Date Received: 10/15/99
 % Moisture: 21 decanted:(Y/N) N Date Extracted: 10/20/99
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/27/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
111-44-4	bis(2-Chloroethyl)ether		420	U
108-95-2	Phenol		420	U
95-57-8	2-Chlorophenol		420	U
541-73-1	1,3-Dichlorobenzene		420	U
106-46-7	1,4-Dichlorobenzene		420	U
95-50-1	1,2-Dichlorobenzene		420	U
108-60-1	2,2'-oxybis(1-chloropropane)		420	U
95-48-7	2-Methylphenol		420	U
67-72-1	Hexachloroethane		420	U
621-64-7	N-Nitroso-di-n-propylamine		420	U
106-44-5	4-Methylphenol		420	U
98-95-3	Nitrobenzene		420	U
78-59-1	Isophorone		420	U
88-75-5	2-Nitrophenol		420	U
105-67-9	2,4-Dimethylphenol		420	U
111-91-1	bis(2-Chloroethoxy)methane		420	U
120-83-2	2,4-Dichlorophenol		420	U
120-82-1	1,2,4-Trichlorobenzene		420	U
91-20-3	Naphthalene		420	U
106-47-8	4-Chloroaniline		420	U
87-68-3	Hexachlorobutadiene		420	U
59-50-7	4-Chloro-3-methylphenol		420	U
91-57-6	2-Methylnaphthalene		420	U
77-47-4	Hexachlorocyclopentadiene		420	U
88-06-2	2,4,6-Trichlorophenol		420	U
95-95-4	2,4,5-Trichlorophenol		1100	U
91-58-7	2-Chloronaphthalene		420	U
88-74-4	2-Nitroaniline		1100	U
208-96-8	Acenaphthylene		420	U
131-11-3	Dimethyl phthalate		420	U
606-20-2	2,6-Dinitrotoluene		420	U
83-32-9	Acenaphthene		420	U
99-09-2	3-Nitroaniline		1100	U
51-28-5	2,4-Dinitrophenol		1100	U
132-64-9	Dibenzofuran		420	U
121-14-2	2,4-Dinitrotoluene		420	U
100-02-7	4-Nitrophenol		1100	U

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET NYSDEC SAMPLE
 TENTATIVELY IDENTIFIED COMPOUNDS

N3075RE

Lab Name: O'Brien & Gere Laboratories Contract: Niagara Mo
 Lab Code: OBG Case No.: 1118.080 SAS No.: _____ SDG No.: 3552
 Matrix: (solli/water) SOIL Lab Sample ID: MW-9 (10-12')
 Sample wt/vol: 30 (g/ml) G Lab File ID: H6743.D
 Level: (low/med) LOW Date Received: 10/15/99
 % Moisture: 21 decanted: (Y/N) N Date Analyzed: 10/27/99
 Concentrated Extract Volume: 500 (uL) Dilution Factor: 1.0
 Injection Volume: 2.0 (uL) Soil Aliquot Volume: 2 (uL)
 GPC Cleanup: (Y/N) Y pH: 7

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.11	150	J
2.	unknown	14.99	540	J
3.	unknown	17.03	320	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE

N3075RE

Lab Name: O'Brien & Gere Laboratories Contract: Niagara Mo
 Lab Code: OBG Case No.: 1118.080. SAS No.: _____ SDG No.: 3552
 Matrix: (soil/water) SOIL Lab Sample ID: MW-9 (10-12)
 Sample wt/vol: 30 (g/ml) G Lab File ID: H6743.D
 Level: (low/med) LOW Date Received: 10/15/99
 % Moisture: 21 decanted:(Y/N) N Date Extracted: 10/20/99
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/27/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
86-73-7	Fluorene	420		U
7005-72-3	4-Chlorophenyl phenyl ether	420		U
84-66-2	Diethyl phthalate	420		U
100-01-6	4-Nitroaniline	1100		U
534-52-1	4,6-Dinitro-2-methylphenol	1100		U
86-30-6	n-Nitrosodiphenylamine	420		U
101-55-3	4-Bromophenyl phenyl ether	420		U
118-74-1	Hexachlorobenzene	420		U
87-86-5	Pentachlorophenol	1100		U
85-01-8	Phenanthrene	420		U
120-12-7	Anthracene	420		U
84-74-2	Di-n-butyl phthalate	420		U
206-44-0	Fluoranthene	420		U
129-00-0	Pyrene	420		U
85-68-7	Butyl benzyl phthalate	420		U
91-94-1	3,3'-Dichlorobenzidine	420		U
56-55-3	Benzo[a]anthracene	420		U
218-01-9	Chrysene	420		U
117-81-7	bis(2-Ethylhexyl)phthalate	220		J
117-84-0	Di-n-octyl phthalate	420		U
205-99-2	Benzo[b]fluoranthene	420		U
207-08-9	Benzo[k]fluoranthene	420		U
50-32-8	Benzo[a]pyrene	420		U
193-39-5	Indeno[1,2,3-cd]pyrene	420		U
53-70-3	Dibenz[a,h]anthracene	420		U
191-24-2	Benzo[g,h,i]perylene	420		U
86-74-8	Carbazole	420		U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE

N3076

Lab Name: O'Brien & Gere Laboratories Contract: Niagara Mo
 Lab Code: OBG Case No.: 1118.080. SAS No.: _____ SDG No.: 3552
 Matrix: (soil/water) SOIL Lab Sample ID: MW-9 (18-20)
 Sample wt/vol: 30 (g/ml) G Lab File ID: H6712.D
 Level: (low/med) LOW Date Received: 10/15/99
 % Moisture: 20 decanted:(Y/N) N Date Extracted: 10/20/99
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/25/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
111-44-4	bis(2-Chloroethyl)ether	420		U
108-95-2	Phenol	420		U
95-57-8	2-Chlorophenol	420		U
541-73-1	1,3-Dichlorobenzene	420		U
106-46-7	1,4-Dichlorobenzene	420		U
95-50-1	1,2-Dichlorobenzene	420		U
108-60-1	2,2'-oxybis(1-chloropropane)	420		U
95-48-7	2-Methylphenol	420		U
67-72-1	Hexachloroethane	420		U
621-64-7	N-Nitroso-di-n-propylamine	420		U
106-44-5	4-Methylphenol	420		U
98-95-3	Nitrobenzene	420		U
78-59-1	Isophorone	420		U
88-75-5	2-Nitrophenol	420		U
105-67-9	2,4-Dimethylphenol	420		U
111-91-1	bis(2-Chloroethoxy)methane	420		U
120-83-2	2,4-Dichlorophenol	420		U
120-82-1	1,2,4-Trichlorobenzene	420		U
91-20-3	Naphthalene	420		U
106-47-8	4-Chloroaniline	420		U
87-68-3	Hexachlorobutadiene	420		U
59-50-7	4-Chloro-3-methylphenol	420		U
91-57-6	2-Methylnaphthalene	420		U
77-47-4	Hexachlorocyclopentadiene	420		U
88-06-2	2,4,6-Trichlorophenol	420		U
95-95-4	2,4,5-Trichlorophenol	1000		U
91-58-7	2-Chloronaphthalene	420		U
88-74-4	2-Nitroaniline	1000		U
208-96-8	Acenaphthylene	420		U
131-11-3	Dimethyl phthalate	420		U
606-20-2	2,6-Dinitrotoluene	420		U
83-32-9	Acenaphthene	420		U
99-09-2	3-Nitroaniline	1000		U
51-28-5	2,4-Dinitrophenol	1000		U
132-64-9	Dibenzofuran	420		U
121-14-2	2,4-Dinitrotoluene	420		U
100-02-7	4-Nitrophenol	1000		U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE

N3076

Lab Name: O'Brien & Gere Laboratories Contract: Niagara Mo
 Lab Code: OBG Case No.: 1118.080 SAS No.: _____ SDG No.: 3552
 Matrix: (soil/water) SOIL Lab Sample ID: MW-9 (18-20)
 Sample wt/vol: 30 (g/ml) G Lab File ID: H6712.D
 Level: (low/med) LOW Date Received: 10/15/99
 % Moisture: 20 decanted:(Y/N) N Date Extracted: 10/20/99
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/25/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
86-73-7	Fluorene	420		U
7005-72-3	4-Chlorophenyl phenyl ether	420		U
84-66-2	Diethyl phthalate	420		U
100-01-6	4-Nitroaniline	1000		U
534-52-1	4,6-Dinitro-2-methylphenol	1000		U
86-30-6	n-Nitrosodiphenylamine	420		U
101-55-3	4-Bromophenyl phenyl ether	420		U
118-74-1	Hexachlorobenzene	420		U
87-86-5	Pentachlorophenol	1000		U
85-01-8	Phenanthrene	420		U
120-12-7	Anthracene	420		U
84-74-2	Di-n-butyl phthalate	420		U
206-44-0	Fluoranthene	420		U
129-00-0	Pyrene	420		U
85-68-7	Butyl benzyl phthalate	420		U
91-94-1	3,3'-Dichlorobenzidine	420		U
56-55-3	Benzo[a]anthracene	420		U
218-01-9	Chrysene	420		U
117-81-7	bis(2-Ethylhexyl)phthalate	250		J
117-84-0	Di-n-octyl phthalate	420		U
205-99-2	Benzo[b]fluoranthene	420		U
207-08-9	Benzo[k]fluoranthene	420		U
50-32-8	Benzo[a]pyrene	420		U
193-39-5	Indeno[1,2,3-cd]pyrene	420		U
53-70-3	Dibenz[a,h]anthracene	420		U
191-24-2	Benzo[g,h,i]perylene	420		U
86-74-8	Carbazole	420		U

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET NYSDEC SAMPLE
 TENTATIVELY IDENTIFIED COMPOUNDS

N3076

Lab Name: O'Brien & Gere Laboratories Contract: Niagara Mo
 Lab Code: OBG Case No.: 1118.080. SAS No.: _____ SDG No.: 3552
 Matrix: (soil/water) SOIL Lab Sample ID: MW-9 (18-20')
 Sample wt/vol: 30 (g/ml) G Lab File ID: H6712.D
 Level: (low/med) LOW Date Received: 10/15/99
 % Moisture: 20 decanted: (Y/N) N Date Analyzed: 10/25/99
 Concentrated Extract Volume: 500 (uL) Dilution Factor: 1.0
 Injection Volume: 2.0 (uL) Soil Aliquot Volume: 2 (uL)
 GPC Cleanup: (Y/N) Y pH: 7

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.15	150	J
2.	unknown	15.04	470	J
3.	unknown	17.07	210	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE

N3077

Lab Name: O'Brien & Gere Laboratories Contract: Niagara Mo
 Lab Code: OBG Case No.: 1118.080 SAS No.: _____ SDG No.: 3552
 Matrix: (soil/water) SOIL Lab Sample ID: MW-10 (6-8)
 Sample wt/vol: 30 (g/ml) G Lab File ID: H5713.D
 Level: (low/med) LOW Date Received: 10/15/99
 % Moisture: 12.5 decanted:(Y/N) N Date Extracted: 10/20/99
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/25/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
111-44-4	bis(2-Chloroethyl)ether	380		U
108-95-2	Phenol	380		U
95-57-8	2-Chlorophenol	380		U
541-73-1	1,3-Dichlorobenzene	380		U
106-46-7	1,4-Dichlorobenzene	380		U
95-50-1	1,2-Dichlorobenzene	380		U
108-60-1	2,2'-oxybis(1-chloropropane)	380		U
95-48-7	2-Methylphenol	380		U
67-72-1	Hexachloroethane	380		U
621-64-7	N-Nitroso-di-n-propylamine	380		U
106-44-5	4-Methylphenol	380		U
98-95-3	Nitrobenzene	380		U
78-59-1	Isophorone	380		U
88-75-5	2-Nitrophenol	380		U
105-67-9	2,4-Dimethylphenol	380		U
111-91-1	bis(2-Chloroethoxy)methane	380		U
120-83-2	2,4-Dichlorophenol	380		U
120-82-1	1,2,4-Trichlorobenzene	380		U
91-20-3	Naphthalene	380		U
106-47-8	4-Chloroaniline	380		U
87-68-3	Hexachlorobutadiene	380		U
59-50-7	4-Chloro-3-methylphenol	380		U
91-57-6	2-Methylnaphthalene	380		U
77-47-4	Hexachlorocyclopentadiene	380		U
88-06-2	2,4,6-Trichlorophenol	380		U
95-95-4	2,4,5-Trichlorophenol	950		U
91-58-7	2-Chloronaphthalene	380		U
88-74-4	2-Nitroaniline	950		U
208-96-8	Acenaphthylene	380		U
131-11-3	Dimethyl phthalate	380		U
606-20-2	2,6-Dinitrotoluene	380		U
83-32-9	Acenaphthene	380		U
99-09-2	3-Nitroaniline	950		U
51-28-5	2,4-Dinitrophenol	950		U
132-64-9	Dibenzofuran	380		U
121-14-2	2,4-Dinitrotoluene	380		U
100-02-7	4-Nitrophenol	950		U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE

N3077

Lab Name: O'Brien & Gere Laboratories Contract: Niagara Mo
 Lab Code: OBG Case No.: 1118.080 SAS No.: _____ SDG No.: 3552
 Matrix: (soil/water) SOIL Lab Sample ID: MW-10 (6-8')
 Sample wt/vol: 30 (g/ml) G Lab File ID: H6713.D
 Level: (low/med) LOW Date Received: 10/15/99
 % Moisture: 12.5 decanted:(Y/N) N Date Extracted: 10/20/99
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/25/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
86-73-7	Fluorene	380		U
7005-72-3	4-Chlorophenyl phenyl ether	380		U
84-66-2	Diethyl phthalate	380		U
100-01-6	4-Nitroaniline	950		U
534-52-1	4,6-Dinitro-2-methyphenol	950		U
86-30-6	n-Nitrosodiphenylamine	380		U
101-55-3	4-Bromophenyl phenyl ether	380		U
118-74-1	Hexachlorobenzene	380		U
87-86-5	Pentachlorophenol	950		U
85-01-8	Phenanthrene	380		U
120-12-7	Anthracene	380		U
84-74-2	Di-n-butyl phthalate	380		U
206-44-0	Fluoranthene	380		U
129-00-0	Pyrene	380		U
85-68-7	Butyl benzyl phthalate	380		U
91-94-1	3,3'-Dichlorobenzidine	380		U
56-55-3	Benzo[a]anthracene	380		U
218-01-9	Chrysene	380		U
117-81-7	bis(2-Ethylhexyl)phthalate	580		
117-84-0	Di-n-octyl phthalate	380		U
205-99-2	Benzo[b]fluoranthene	380		U
207-08-9	Benzo[k]fluoranthene	380		U
50-32-8	Benzo[a]pyrene	380		U
193-39-5	Indeno[1,2,3-cd]pyrene	380		U
53-70-3	Dibenz[a,h]anthracene	380		U
191-24-2	Benzo[g,h,i]perylene	380		U
86-74-8	Carbazole	380		U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET NYSDEC SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

N3077

Lab Name: O'Brien & Gere Laboratories Contract: Niagara Mo
 Lab Code: OBG Case No.: 1118.080. SAS No.: _____ SDG No.: 3552
 Matrix: (soil/water) SOIL Lab Sample ID: MW-10 (6-8')
 Sample wt/vol: 30 (g/ml) G Lab File ID: H6713.D
 Level: (low/med) LOW Date Received: 10/15/99
 % Moisture: 12.5 decanted: (Y/N) N Date Analyzed: 10/25/99
 Concentrated Extract Volume: 500 (uL) Dilution Factor: 1.0
 Injection Volume: 2.0 (uL) Soil Aliquot Volume: 2 (uL)
 GPC Cleanup: (Y/N) Y pH: 7

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

Number TICs found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.16	140	J
2.	unknown	15.05	460	J
3.	unknown	17.07	150	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE

N3078

Lab Name: O'Brien & Gere Laboratories Contract: Niagara Mo
 Lab Code: OBG Case No.: 1118.080 SAS No.: _____ SDG No.: 3552
 Matrix: (soil/water) SOIL Lab Sample ID: MW-10 (18-20'
 Sample wt/vol: 30 (g/ml) G Lab File ID: H5716.D
 Level: (low/med) LOW Date Received: 10/15/99
 % Moisture: 15.2 decanted:(Y/N) N Date Extracted: 10/20/99
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/25/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
111-44-4	bis(2-Chloroethyl)ether	390		U
108-95-2	Phenol	390		U
95-57-8	2-Chlorophenol	390		U
541-73-1	1,3-Dichlorobenzene	390		U
106-46-7	1,4-Dichlorobenzene	390		U
95-50-1	1,2-Dichlorobenzene	390		U
108-60-1	2,2'-oxybis(1-chloropropane)	390		U
95-48-7	2-Methylphenol	390		U
67-72-1	Hexachloroethane	390		U
621-64-7	N-Nitroso-di-n-propylamine	390		U
106-44-5	4-Methylphenol	390		U
98-95-3	Nitrobenzene	390		U
78-59-1	Isophorone	390		U
88-75-5	2-Nitrophenol	390		U
105-67-9	2,4-Dimethylphenol	390		U
111-91-1	bis(2-Chloroethoxy)methane	390		U
120-83-2	2,4-Dichlorophenol	390		U
120-82-1	1,2,4-Trichlorobenzene	390		U
91-20-3	Naphthalene	390		U
106-47-8	4-Chloroaniiline	390		U
87-68-3	Hexachlorobutadiene	390		U
59-50-7	4-Chloro-3-methylphenol	390		U
91-57-6	2-Methylnaphthalene	390		U
77-47-4	Hexachlorocyclopentadiene	390		U
88-06-2	2,4,6-Trichlorophenol	390		U
95-95-4	2,4,5-Trichlorophenol	980		U
91-58-7	2-Chloronaphthalene	390		U
88-74-4	2-Nitroaniline	980		U
208-96-8	Acenaphthylene	390		U
131-11-3	Dimethyl phthalate	390		U
606-20-2	2,6-Dinitrotoluene	390		U
83-32-9	Acenaphthene	390		U
99-09-2	3-Nitroaniline	980		U
51-28-5	2,4-Dinitrophenol	980		U
132-64-9	Dibenzofuran	390		U
121-14-2	2,4-Dinitrotoluene	390		U
100-02-7	4-Nitrophenol	980		U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE

N3078

Lab Name: O'Brien & Gere Laboratories Contract: Niagara Mo
 Lab Code: OBG Case No.: 1118.080 SAS No.: _____ SDG No.: 3552
 Matrix: (soil/water) SOIL Lab Sample ID: MW-10 (18-20'
 Sample wt/vol: 30 (g/ml) G Lab File ID: H6716.D
 Level: (low/med) LOW Date Received: 10/15/99
 % Moisture: 15.2 decanted:(Y/N) N Date Extracted: 10/20/99
 Concentrated Extract Volume: 500 (uL) Date Analyzed: 10/25/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
86-73-7	Fluorene	390		U
7005-72-3	4-Chlorophenyl phenyl ether	390		U
84-66-2	Diethyl phthalate	390		U
100-01-6	4-Nitroaniline	980		U
534-52-1	4,6-Dinitro-2-methylphenol	980		U
86-30-6	n-Nitrosodiphenylamine	390		U
101-55-3	4-Bromophenyl phenyl ether	390		U
118-74-1	Hexachlorobenzene	390		U
87-86-5	Pentachlorophenol	980		U
85-01-8	Phenanthrene	390		U
120-12-7	Anthracene	390		U
84-74-2	Di-n-butyl phthalate	390		U
206-44-0	Fluoranthene	390		U
129-00-0	Pyrene	390		U
85-68-7	Butyl benzyl phthalate	390		U
91-94-1	3,3'-Dichlorobenzidine	390		U
56-55-3	Benzo[a]anthracene	390		U
218-01-9	Chrysene	390		U
117-81-7	bis(2-Ethylhexyl)phthaiate	780		
117-84-0	Di-n-octyl phthalate	390		U
205-99-2	Benzo[b]fluoranthene	390		U
207-08-9	Benzo[k]fluoranthene	390		U
50-32-8	Benzo[a]pyrene	390		U
193-39-5	Indenof[1,2,3-cd]pyrene	390		U
53-70-3	Dibenz[a,h]anthracene	390		U
191-24-2	Benzo[g,h,i]perylene	390		U
86-74-8	Carbazole	390		U

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET NYSDEC SAMPLE
 TENTATIVELY IDENTIFIED COMPOUNDS

N3078

Lab Name: O'Brien & Gere Laboratories Contract: Niagara Mo
 Lab Code: OBG Case No.: 1118.080 SAS No.: _____ SDG No.: 3552
 Matrix: (soil/water) SOIL Lab Sample ID: MW-10 (18-20'
 Sample wt/vol: 30 (g/ml) G Lab File ID: H6716.D
 Level: (low/med) LOW Date Received: 10/15/99
 % Moisture: 15.2 decanted: (Y/N) N Date Analyzed: 10/25/99
 Concentrated Extract Volume: 500 (uL) Dilution Factor: 1.0
 Injection Volume: 2.0 (uL) Soil Aliquot Volume: 2 (uL)
 GPC Cleanup: (Y/N) Y pH: 7

CONCENTRATION UNITS:

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.15	130	J
2.	unknown	15.04	320	J
3.	unknown	17.07	160	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9 (10-12')

Lab Name: O'Brien & Gere Laboratories Contract: NIMO

Lab Code: 10155 Case No.: _____ SAS No.: _____ SDG No.: NIMONOV99

Matrix: (soil/water) SOIL Lab Sample ID: N3075

Sample wt/vol: 30 (g/mL) G Lab File ID: _____

% Moisture: 21 decanted: (Y/N) N Date Received: 10/15/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/20/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/5/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS
CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

319-84-6-----	alpha-BHC	2.1	U
319-95-7-----	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	.045	J
959-98-8-----	Endosulfan I	2.1	U
60-57-1-----	Dieldrin	4.2	U
72-55-9-----	4,4'-DDE	.34	J
72-20-8-----	Endrin	4.2	U
33213-65-9-----	Endosulfan II	.041	J P
72-54-8-----	4,4'-DDD	.20	J
1031-07-8-----	Endosulfan sulfate	.16	J P
50-29-3-----	4,4'-DDT	.60	BJ P
72-43-5-----	Methoxychlor	21	U
53494-70-5-----	Endrin ketone	.063	J P
7421-36-3-----	Endrin aldehyde	4.2	U
5103-71-9-----	alpha-Chlordane	.16	BJ
5103-74-2-----	gamma-Chlordane	2.1	U
8001-35-2-----	Toxaphene	210	U
12674-11-2-----	Aroclor-1016	42	U
11104-28-2-----	Aroclor-1221	84	U
11141-16-5-----	Aroclor-1232	42	U
53469-21-9-----	Aroclor-1242	42	U
12672-29-6-----	Aroclor-1248	42	U
11097-69-1-----	Aroclor-1254	42	U
11096-82-5-----	Aroclor-1260	42	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9 (18-20')

Lab Name: O'Brien & Gere Laboratories Contract: NIMO

Lab Code: 10155 Case No.: _____ SAS No.: _____ SDG No.: NIMONOV99

Matrix: (soil/water) SOIL Lab Sample ID: N3076

Sample wt/vol: 30 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 10/15/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/20/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/5/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6-----	alpha-BHC	2.1	U
319-95-7-----	beta-BHC	2.1	U
319-86-8-----	delta-BHC	.11	J
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	4.2	U
72-55-9-----	4,4'-DDE	.13	J
72-20-8-----	Endrin	4.2	U
33213-65-9-----	Endosulfan II	4.2	U
72-54-8-----	4,4'-DDD	4.2	U
1031-07-8-----	Endosulfan sulfate	.066	J P
50-29-3-----	4,4'-DDT	.17	BJ P
72-43-5-----	Methoxychlor	21	U
53494-70-5-----	Endrin ketone	4.2	U
7421-36-3-----	Endrin aldehyde	4.2	U
5103-71-9-----	alpha-Chlordane	.059	BJ P
5103-74-2-----	gamma-Chlordane	2.1	U
8001-35-2-----	Toxaphene	210	U
12674-11-2-----	Aroclor-1016	42	U
11104-28-2-----	Aroclor-1221	83	U
11141-16-5-----	Aroclor-1232	42	U
53469-21-9-----	Aroclor-1242	42	U
12672-29-6-----	Aroclor-1248	42	U
11097-69-1-----	Aroclor-1254	42	U
11096-82-5-----	Aroclor-1260	42	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10 (6-8')

Lab Name: O'Brien & Gere Laboratories Contract: NIMO

Lab Code: 10155 Case No.: _____ SAS No.: _____ SDG No.: NIMONOV99

Matrix: (soil/water) SOIL Lab Sample ID: N3077

Sample wt/vol: 30 (g/mL) G Lab File ID: _____

% Moisture: 12.5 decanted: (Y/N) N Date Received: 10/15/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/20/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/5/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6-----	alpha-BHC _____	1.9	U
319-95-7-----	beta-BHC _____	1.9	U
319-86-8-----	delta-BHC _____	1.9	U
58-89-9-----	gamma-BHC (Lindane) _____	1.9	U
76-44-8-----	Heptachlor _____	1.9	U
309-00-2-----	Aldrin _____	1.9	U
1024-57-3-----	Heptachlor epoxide _____	1.9	U
959-98-8-----	Endosulfan I _____	1.9	U
60-57-1-----	Dieldrin _____	3.8	U
72-55-9-----	4,4'-DDE _____	.36	J
72-20-8-----	Endrin _____	3.8	U
33213-65-9-----	Endosulfan II _____	3.8	U
72-54-8-----	4,4'-DDD _____	.052	J P
1031-07-8-----	Endosulfan sulfate _____	3.8	U
50-29-3-----	4,4'-DDT _____	.98	BJ P
72-43-5-----	Methoxychlor _____	19	U
53494-70-5-----	Endrin ketone _____	3.8	U
7421-36-3-----	Endrin aldehyde _____	3.8	U
5103-71-9-----	alpha-Chlordane _____	.057	BJ P
5103-74-2-----	gamma-Chlordane _____	1.9	U
8001-35-2-----	Toxaphene _____	190	U
12674-11-2-----	Aroclor-1016 _____	38	U
11104-28-2-----	Aroclor-1221 _____	76	U
11141-16-5-----	Aroclor-1232 _____	38	U
53469-21-9-----	Aroclor-1242 _____	38	U
12672-29-6-----	Aroclor-1248 _____	38	U
11097-69-1-----	Aroclor-1254 _____	38	U
11096-82-5-----	Aroclor-1260 _____	38	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-10 (18-20')

Lab Name: O'Brien & Gere Laboratories Contract: NIMO

Lab Code: 10155 Case No.: _____ SAS No.: _____ SDG No.: NIMONOV99

Matrix: (soil/water) SOIL Lab Sample ID: N3078

Sample wt/vol: 30 (g/mL) G Lab File ID: _____

% Moisture: 15.2 decanted: (Y/N) N Date Received: 10/15/99

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 10/20/99

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/5/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6-----	alpha-BHC	2.0	U
319-95-7-----	beta-BHC	2.0	U
319-86-8-----	delta-BHC	2.0	U
58-89-9-----	gamma-BHC (Lindane)	2.0	U
76-44-8-----	Heptachlor	2.0	U
309-00-2-----	Aldrin	2.0	U
1024-57-3-----	Heptachlor epoxide	2.0	U
959-98-8-----	Endosulfan I	2.0	U
60-57-1-----	Dieldrin	3.9	U
72-55-9-----	4,4'-DDE	.11	J P
72-20-8-----	Endrin	3.9	U
33213-65-9-----	Endosulfan II	3.9	U
72-54-8-----	4,4'-DDD	3.9	U
1031-07-8-----	Endosulfan sulfate	.15	J P
50-29-3-----	4,4'-DDT	.20	BJ P
72-43-5-----	Methoxychlor	20	U
53494-70-5-----	Endrin ketone	3.9	U
7421-36-3-----	Endrin aldehyde	.064	J P
5103-71-9-----	alpha-Chlordane	.073	BJ P
5103-74-2-----	gamma-Chlordane	2.0	U
8001-35-2-----	Toxaphene	200	U
12674-11-2-----	Aroclor-1016	39	U
11104-28-2-----	Aroclor-1221	79	U
11141-16-5-----	Aroclor-1232	39	U
53469-21-9-----	Aroclor-1242	39	U
12672-29-6-----	Aroclor-1248	39	U
11097-69-1-----	Aroclor-1254	39	U
11096-82-5-----	Aroclor-1260	39	U

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-9(10-12' _____)

Lab Name: OBRIEN_AND_GERE_LABORATOR Contract: 1118080517

Lab Code: 10155 Case No.: NIAGA SAS No.: _____ SDG No.: 3552

Matrix (soil/water): SOIL Lab Sample ID: N3075

Level (low/med): LOW Date Received: 10/15/99

% Solids: 79.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4460	-	-	P
7440-36-0	Antimony	0.63	U	-	P
7440-38-2	Arsenic	2.3	B	-	P
7440-39-3	Barium	21.1	B	-	P
7440-41-7	Beryllium	0.31	B	-	P
7440-43-9	Cadmium	0.08	U	-	P
7440-70-2	Calcium	1440	-	-	P
7440-47-3	Chromium	6.7	-	-	P
7440-48-4	Cobalt	2.7	B	-	P
7440-50-8	Copper	11.1	-	-	P
7439-89-6	Iron	12000	-	-	P
7439-92-1	Lead	4.8	-	-	P
7439-95-4	Magnesium	1810	-	-	P
7439-96-5	Manganese	149	-	-	P
7439-97-6	Mercury	0.07	U	-	CV
7440-02-0	Nickel	8.2	B	-	P
7440-09-7	Potassium	1020	B	-	P
7782-49-2	Selenium	0.76	U	-	P
7440-22-4	Silver	0.20	U	-	P
7440-23-5	Sodium	110	B	-	P
7440-28-0	Thallium	1.3	U	-	P
7440-62-2	Vanadium	11.2	B	-	P
7440-66-6	Zinc	24.0	-	-	P
	Cyanide	0.63	U	-	C

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

NYSDEC ASP

1

NYSDEC SAMPLE NO.

INORGANIC ANALYSES DATA SHEET

MW-9 (18-20' _____)

Lab Name: OBRIEN_AND_GERE_LABORATOR Contract: 1118080517

Lab Code: 10155 Case No.: NIAGA SAS No.: _____ SDG No.: 3552

Matrix (soil/water): SOIL Lab Sample ID: N3076

Level (low/med): LOW Date Received: 10/15/99

% Solids: 80.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3580	-		P
7440-36-0	Antimony	0.62	U		P
7440-38-2	Arsenic	1.8	B		P
7440-39-3	Barium	14.7	B		P
7440-41-7	Beryllium	0.21	B		P
7440-43-9	Cadmium	0.08	U		P
7440-70-2	Calcium	14500	-		P
7440-47-3	Chromium	5.6	-		P
7440-48-4	Cobalt	2.0	B		P
7440-50-8	Copper	8.1	-		P
7439-89-6	Iron	9460	-		P
7439-92-1	Lead	2.5	-		P
7439-95-4	Magnesium	2850	-		P
7439-96-5	Manganese	171	-		P
7439-97-6	Mercury	0.07	U		CV
7440-02-0	Nickel	6.4	B		P
7440-09-7	Potassium	857	B		P
7782-49-2	Selenium	0.75	U		P
7440-22-4	Silver	0.20	U		P
7440-23-5	Sodium	104	B		P
7440-28-0	Thallium	1.3	U		P
7440-62-2	Vanadium	8.8	B		P
7440-66-6	Zinc	20.0	-		P
	Cyanide	0.62	U		C

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-10(6-8')

Lab Name: OBRIEN_AND_GERE_LABORATOR Contract: 1118080517

Lab Code: 10155 Case No.: NIAGA SAS No.: SDG No.: 3552

Matrix (soil/water): SOIL Lab Sample ID: N3077

Level (low/med): LOW Date Received: 10/15/99

% Solids: 87.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6180			P
7440-36-0	Antimony	0.57	U		P
7440-38-2	Arsenic	2.8			P
7440-39-3	Barium	25.9	B		P
7440-41-7	Beryllium	0.57	B		P
7440-43-9	Cadmium	0.07	U		P
7440-70-2	Calcium	3390			P
7440-47-3	Chromium	8.5			P
7440-48-4	Cobalt	3.4	B		P
7440-50-8	Copper	16.7			P
7439-89-6	Iron	13700			P
7439-92-1	Lead	4.4			P
7439-95-4	Magnesium	2290			P
7439-96-5	Manganese	214			P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	10.4			P
7440-09-7	Potassium	1290			P
7782-49-2	Selenium	0.69	U		P
7440-22-4	Silver	0.18	U		P
7440-23-5	Sodium	116	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	12.0			P
7440-66-6	Zinc	29.0			P
	Cyanide	0.57	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

NYSDEC ASP

1
INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-10(18-20)

Lab Name: OBRIEN_AND_GERE_LABORATOR Contract: 1118080517

Lab Code: 10155 Case No.: NIAGA SAS No.: SDG No.: 3552

Matrix (soil/water): SOIL Lab Sample ID: N3078

Level (low/med): LOW Date Received: 10/15/99

% Solids: 84.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3380			P
7440-36-0	Antimony	0.59	U		P
7440-38-2	Arsenic	1.5	B		P
7440-39-3	Barium	14.0	B		P
7440-41-7	Beryllium	0.19	B		P
7440-43-9	Cadmium	0.07	U		P
7440-70-2	Calcium	14700			P
7440-47-3	Chromium	5.3			P
7440-48-4	Cobalt	1.8	B		P
7440-50-8	Copper	7.2			P
7439-89-6	Iron	8190			P
7439-92-1	Lead	4.1			P
7439-95-4	Magnesium	2270			P
7439-96-5	Manganese	154			P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	6.2	B		P
7440-09-7	Potassium	853	B		P
7782-49-2	Selenium	0.71	U		P
7440-22-4	Silver	0.18	U		P
7440-23-5	Sodium	91.7	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	7.7	B		P
7440-66-6	Zinc	17.6			P
	Cyanide	0.59	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments: