

NYSEG

NEW YORK STATE ELECTRIC & GAS CORPORATION

Licensing & Environmental Operations Department
Corporate Drive, Kirkwood Industrial Park, P.O. Box 5224
Binghamton, New York 13902-5224

INTERIM REMEDIAL MEASURES

FINAL ENGINEERING REPORT

FOR ACTIVITIES AT

**WATERVILLE FORMER MGP SITE
WATERVILLE, NEW YORK**

**REVISED
JULY 1998**

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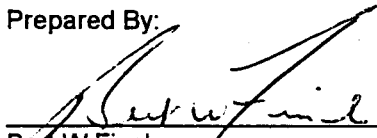
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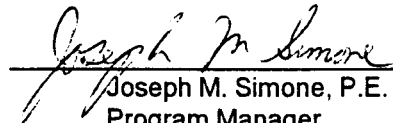
**WATERVILLE FORMER MGP SITE
WATERVILLE, NEW YORK**

REVISED
JULY 1998

Prepared By:


Bert W. Finch
Project Manager

Approved By:


Joseph M. Simone, P.E.
Program Manager

Prepared By:

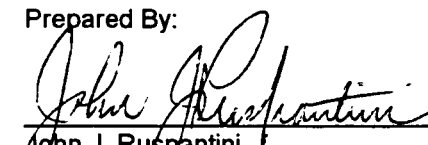

John J. Ruspantini
Staff Environmental Specialist

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List of Acronyms Referred to in the Document

ACGIH - American Congress of Government Industrial Hygienists
ALJ - Administrative Law Judge
ANSI - American National Standards Institute
AQMP - Air-Quality Monitoring Program
ASP - analytical service protocol
ASTM - American Society for Testing and Materials
AWQC - Ambient Water Quality Criteria
BTEX - benzene, toluene, ethylbenzene and xylenes
BTU - British thermal unit
cPAH - Carcinogenic Polycyclic Aromatic Hydrocarbons
C - centigrade
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
CFR - Code of Federal Regulations
COC - Chain-of-Custody
CPP - Citizen Participation Plan
CPR - cardiopulmonary resuscitation
CQAP - Construction Quality Assurance Plan
CTS - coal tar soils
DEC - Department of Environmental Conservation
DI - deionized
DUSR - Data Usability Summary Report
ECL - Environmental Conservation Law
EEI - Edison Electric Institute
ELAP - Environmental Laboratory Approval Program
EMS - Emergency Medical Services
EPA - Environmental Protection Agency
EPRI - Electric Power Research Institute
F - Fahrenheit
FS - feasibility study
GC - gas chromatograph
GCS-DN - gas chromatograph station downwind
GCS-UP - gas chromatograph station upwind
GHF - former gas holder foundation
HASP - Health and Safety Plan
HEPA - high efficiency particulate air
HSM - Health & Safety Manager
IARC - International Agency for Research on Cancer
ID - identification
IDLH - immediately dangerous to life
IRMs - interim remedial measures

Kg - kilogram
L - liter
LGAC - liquid-phase granular activated carbon
mg - milligram
MGP - manufactured gas plant
MS - matrix spike
MCD - matrix spike duplicate
MMBTU - million British thermal units
MSDS - material safety data sheet
NCP - National Contingency Plan
NIOSH - National Institute for Occupational Safety and Health
NYCRR - New York Codes, Rules and Regulations
NYSDEC - New York State Department of Environmental Conservation
NYSDOH - New York State Department of Health
NYSDOT - New York State Department of Transportation
NYSEG - New York State Electric & Gas Corporation
OSHA - Occupational Safety and Health Act or Administration
PAHs - polycyclic aromatic hydrocarbons
PC - personal computer
PCBs - polychlorinated biphenyls
PEL - permissible exposure limits
PHSC - Project Health and Safety Coordinator
PID - photo ionization detector
POTW - Public Owned Treatment Works
PM - Project Manager
ppb - part per billion
PPE - personal protective equipment
ppm - parts per million
PSA - preliminary site assessment
QA - quality assurance
QAPP - Quality Assurance Project Plan
QA/QC - quality assurance/quality control
QC - quality control
O&M - operation and maintenance
RCRA - Resource Conservation and Recovery Act
RI - Remedial Investigation
RI/FS - remedial investigation/feasibility study
ROD - record of decision
RTS1 - Real-time Station 1
RTS4 - Real-time Station 4
SAP - Sampling and Analysis Plan
SCGs - Standards, Criteria, and Guidance
SGC - short-term guideline concentrations

SHSO - Site Health & Safety Officer
SPL - sound pressure level
STEL - short-term exposure limits
SVOCs - semivolatile organic compounds
SW - solid waste
T & A - time and activity
TAGM - technical and administrative guidance memorandum
TCLP - toxicity characteristic leachate procedure
TLVs - threshold limit values
TPAH - total polycyclic aromatic hydrocarbons
UFPO - Underground Facility Protection Organization
USEPA - United States Environmental Protection Agency
VOCs - volatile organic compounds
VOA - volatile organic analysis
WBGT - wet bulb globe temperature

1.0 INTRODUCTION

This report summarizes the accomplishments of the *Interim Remedial Measures (IRM) Work Plan (Work Plan)* which was implemented from November 17, 1997 through January 23, 1998 at the former manufactured gas plant (MGP) facility (Site) located in the Village of Waterville, Oneida County, New York. The *IRM* was undertaken by NYSEG (New York State Electric & Gas Corporation) and consisted of excavation with off-site landfill of MGP residues.

The *IRM Work Plan* was reviewed and approved by New York State Department of Environmental Conservation (NYSDEC) in accordance with section III of the Order on Consent (Index No. D0-0002-9309) between NYSEG and NYSDEC.

1.1 Executive Summary

This *IRM* was successfully completed in a safe and timely manner with essentially no impact to the ambient air quality. There was strong community support with no complaints for odor, traffic, noise, and/or dust.

Through completion of this *IRM*, over 1,500 tons of coal tar soils and the gas holder foundation were removed from the site and disposed in Chemical Waste Management's RCRA Subtitle C Landfill, Model City, New York. In addition over 3,700 tons of impacted soil, the gas production building foundation and naphtha tank were removed from the site and disposed in Seneca Meadows' Non Hazardous Industrial Solid Waste Landfill, Waterloo, New York. Post excavation confirmation sample results demonstrated the success of the *IRM* in reducing the concentration of polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), and heavy metals typically found in MGP residues. The overburden material was stockpiled in the storage bins, and sampled. After receiving favorable analytical results, the overburden material was then used as deep subsurface fill. The remaining excavations were filled with imported clean common fill. The completion of this *IRM* has reduced the potential for MGP residues to impact the groundwater and has eliminated the potential exposure to contaminated surface soil.

The soil removal and rough grading were completed on January 23, 1998 and NYSEG left the site secured with fencing. NYSEG returned in the Spring of 1998

and complete site restoration, including repair damage to curbs and lawns of adjacent properties on Babbott Avenue.

1.2 Certification

I hereby certify that all activities that comprised the Interim *Remedial Measures (IRM)* were performed in full accordance with the NYSDEC approved *IRM Work Plan* dated November 1997, approved variations to the *Work Plan* summarized in Section 4.0, detailed documents and specifications, and Order on Consent Index No. DO-0002-9309.



Signature:

A handwritten signature in cursive script that reads "Joseph M. Simone".

Name:

Joseph M. Simone, P.E.

Title:

Supervising Engineer

License Number:

073728

2.0 PROJECT OBJECTIVES

The overall objectives of the *IRM* were to restore the former MGP site so that it may be returned to use as residential lawn, and to limit future impacts to groundwater from MGP residues. Specific objectives were to:

- Eliminate physical hazards associated with voids in the unconsolidated fill within the subsurface gas holder foundation.
- Remove surface and shallow subsurface soils to eliminate potential for exposure to MGP residues through incidental ingestion, dermal contact, or inhalation of contaminated soil.
- Prevent MGP residues from migrating to the surface during conditions in which high groundwater may flush contents from the relief holder foundation.
- Prevent soluble MGP residues from migrating to the soil surface at the seep which existed below the relief holder.
- Remove MGP residues, where accessible to excavation, which have the potential to significantly increase impacts to groundwater quality.

3.0 PROJECT EXECUTION

Other than minor variances as described in Section 4, this project was completed in accordance with the *Work Plan*. Soil excavation began on November 17, 1997 following completion of site preparation. Final demobilization, relative to remediation, was completed January 23, 1998. Site restoration will be completed in the Spring of 1998 and will be documented as a supplement to this report. Appendix A contains a photographic log of the project.

3.1 Summary of Excavation

The top layer of overburden material was removed in the Phase I Area (see Appendix F, Figures 3 & 5A) over the former gas holder foundation (GHF). The

overburden material was stockpiled in the storage bins, and sampled. After receiving favorable analytical results, the overburden material was then used as deep subsurface fill in the GHF area.

The next activity consisted of removing material in and around the GHF. This material was removed and loaded directly into dump trailers and transported to Chemical Waste Management's RCRA Subtitle C Landfill, Model City, New York (see Table 3-1 for Soil Disposition Summary). Material within the GHF consisted of tarry waste, small piping, metal, bricks, rocks, wood, soil, etc. The GHF was constructed of brick and mortar. The sides and bottom of the GHF were sound except for a small breach to the south. Also there was a pipe located on the southeast that was broken off just outside of the GHF. This pipe was working as a drain for the foundation. The entire GHF was removed and excavation continued outside of the GHF until all visibly impacted soil was removed and confirmation sample results were below cleanup goals for concentration of PAHs, VOCs, and heavy metals in the sidewalls.

Material was removed two feet below groundwater under the GHF. A bottom confirmation sample was analyzed with results of 2.0 PPM total benzene. NYSEG continued to remove material a total of four feet below groundwater. The excavator used for removing material could not reach any deeper. A second bottom confirmation sample was analyzed with results of 0.52 PPM for total benzene.

The top two feet of shallow soil in the Phase II Area, Sections 1 & 2, (see Appendix F, Figures 3 & 5A) was removed. The shallow soil was stockpiled in the storage bins, and sampled. After receiving favorable analytical results, the shallow soil was then used as deep subsurface fill in the GHF area.

While doing investigating trenches around the former gas production building foundation, visibly impacted soil was encountered. NYSEG continue excavating until all visibly impacted soil was removed. This included the removal of the entire gas production building foundation and the removal of a wooden circular structure, believed to be the Naphtha tank. This material was stockpiled in the storage bins, and sampled. After receiving analytical results, the material was transported to Seneca Meadows' Nonhazardous Industrial Solid Waste Landfill for

disposal. Confirmation sample results for the sidewalls and bottom area were below cleanup goals.

The top two feet of shallow soil in Section 3 (see Appendix F, Figures 3 & 5A) was removed. The shallow soil was stockpiled in the storage bins, and sampled. After receiving favorable analytical results, the shallow soil was then used as deep subsurface fill in the gas production building foundation area. There was a seam of visibly impacted soil that continued from the GHF in a southeast direction into Section 3 area. NYSEG continue excavating until all visibly impacted soil was removed. This material was stockpiled in the storage bins, and sampled. After receiving analytical results, the material was transported to Seneca Meadows' Non Hazardous Industrial Solid Waste Landfill for disposal. Confirmation sample results for the sidewalls and bottom area were below cleanup goals.

According to the *Work Plan*, groundwater was not going to be removed from the excavation. However, unanticipated mild temperatures, rain, and melting snow resulted in increased runoff and raised water levels in the excavations. In order to proceed with backfilling, it was necessary to pump an approximate 26,000 gallons of water into tankers for offsite disposal (see Table 3-2 for Water Disposition).

The entire site was covered with clean imported common fill and rough grading was completed. All construction materials and equipment were removed from the site. All that remains on site is the six foot high chain link perimeter fence and access road.

3.2 Engineering Controls

NYSEG was able to control emissions without the use of a temporary fabric structure (NYSEG was able to control emissions with the use of a temporary fabric structure during previous remediation projects). Engineering controls consisted of limiting excavation size and surface area of exposed soil. Soil stockpiles and impacted soil were covered with polyethylene as soon as possible after an activity and at the end of the work day. In addition, using a light mist of the vapor suppressant BIO SOLVE® to impacted soil controlled emissions during the removal operation.

3.3 Disposal Summary

The material in and around the former gas holder foundation, which was considered RCRA hazardous waste, was loaded directly into trucks and transported to the RCRA Subtitle C landfill. The remaining excavated material was stockpiled, and sampled. The results of analytical testing classified the material either as RCRA Nonhazardous waste or as deep subsurface fill. For analytical results and disposition of each stockpile of soil, see Appendix D. Table 3-1 summarizes the disposition of solid material and Table 3-2 summarizes the disposition water for this project.

Table 3-1 Solid Material Disposition Summary

Solid Material Disposition	Tonnage
Chemical Waste Management's RCRA Subtitle C Landfill, Model City, New York *	1,585.05
Seneca Meadows' Nonhazardous Industrial Solid Waste Landfill, Waterloo, New York *	3,714.21
Site Subsurface Backfill (estimated)	2,500
* For list of shipments by date see Appendix C	

Table 3-2 Water Disposition Summary

Water Disposition	Gallons
Oneida County Sewer District, Utica, NY	5,000
E.I. Dupont, Deepwater, NJ	15,885
Clean Harbors Environmental Services, Braintree, MA	5,100

3.4 Post Excavation Sampling

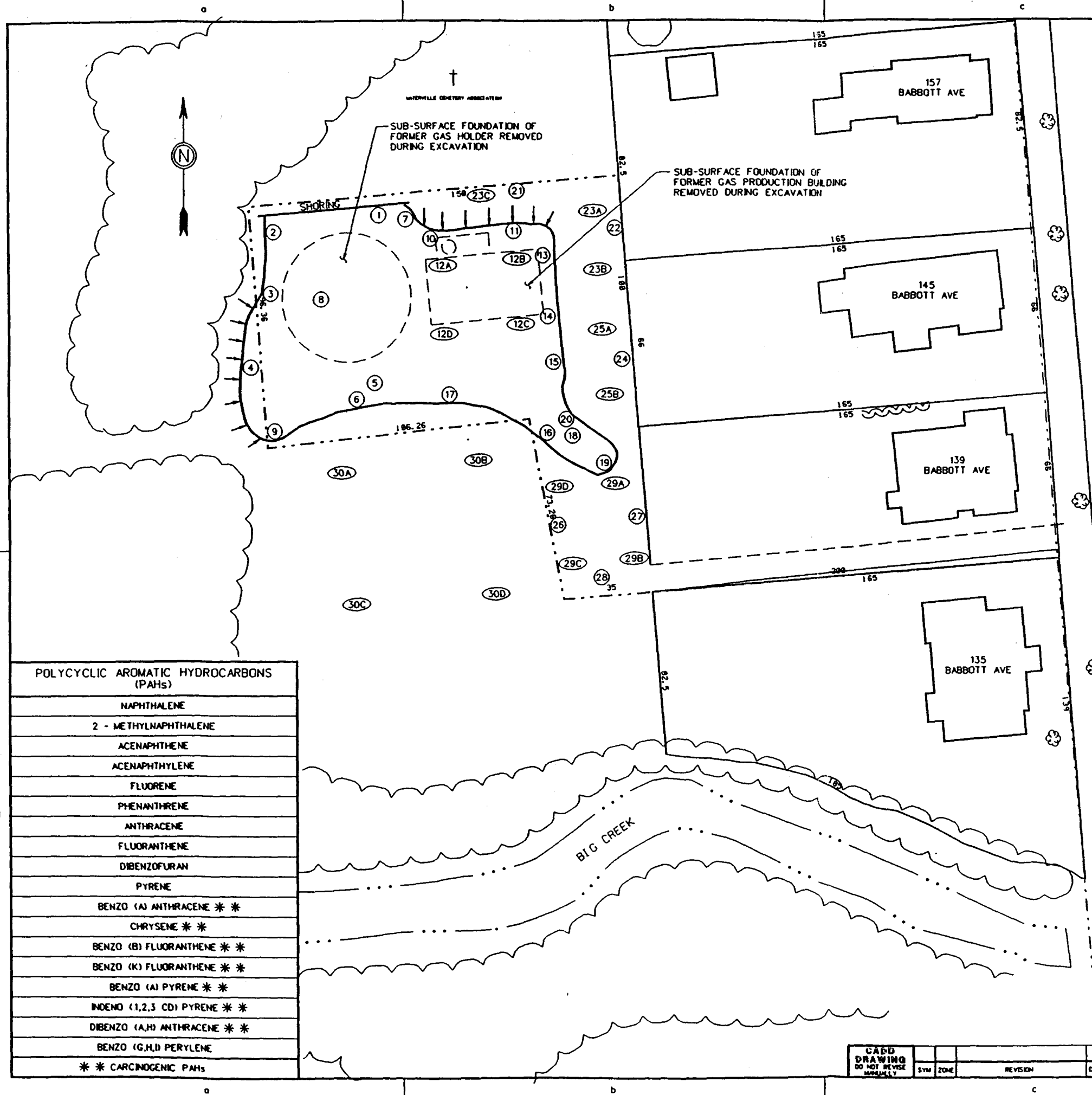
All confirmation sample analytical results were below the cleanup goal (see Table 3-3) for unrestricted residential use for the following areas: Phase I former gas holder foundation excavation sidewall samples; Phase II (Sections 1,2 & 3) shallow soil excavation sidewalls and bottom samples; Phase II (Sections 1 & 2) former gas production building foundation deep excavation, sidewalls and bottom samples; and Phase II (Section 3) deep excavation area, sidewall and bottom sample.

The bottom confirmation sample under the former gas holder foundation had a total benzene concentration of 0.52 PPM at a depth of four feet below groundwater. While this exceeded the cleanup goal set for 8 feet to 1 foot below groundwater, the sample was actually taken 14 feet deep and 4 feet below groundwater. All of the other constituents analyzed were below the cleanup goals. The excavator could not remove material any deeper.

Table 3-3 Unrestricted Residential Cleanup Goal

Depth.	Unrestricted Residential Cleanup Goal			
	PAH	cPAH	Benzene	Naphthalene
0-2 feet	10	1	0.06	-
2-8 feet	100	10	0.06	-
8 feet - 1 foot below groundwater	500	50	0.1	13

For the limits of deep excavation and confirmation sampling results see Figure 7.



POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)	
NAPHTHALENE	
2 - METHYLNAPHTHALENE	
ACENAPHTHENE	
ACENAPHTHYLENE	
FLUORENE	
PHENANTHRENE	
ANTHRACENE	
FLUORANTHENE	
DIBENZOFURAN	
PYRENE	
BENZO (A) ANTHRACENE * *	
CHRYSENE * *	
BENZO (B) FLUORANTHENE * *	
BENZO (K) FLUORANTHENE * *	
BENZO (A) PYRENE * *	
INDENO (1,2,3 CD) PYRENE * *	
DIBENZO (A,H) ANTHRACENE * *	
BENZO (G,H,I) PERYLENE	
* * CARCINOGENIC PAHs	

NEW YORK STATE ELECTRIC & GAS CORP.
COAL TAR SOIL ANALYTICAL REPORT SUMMARY
ENDPOINT CONFIRMATION SAMPLING - WATERVILLE MGP IRM REMEDIATION

MAP NO.	SAMPLE ID	COLLECTION DATE	DEPTH BELOW EXISTING GRADE	TOTAL BENZENE (PPM)	TOTAL PAH (PPM)	CPAH (PPM)	NAPHTHALENE (PPM)
1	WTVCS12001	11/25/97	12	0.002	1.086	0.160	0.200
2	WTVCS12002	11/25/97	12	<0.005	0.575	0.084	<0.35
3	WTVCS12003	11/25/97	10	0.002	29.07	5.74	0.970
4	WTVCS12004	11/25/97	10	<0.006	0.307	0.041	0.049
5	WTVCS16008	12/3/97	12	<0.007	15.33	6.130	<0.440
6	WTVCS12010	12/3/97	10	<0.006	3.573	1.367	<0.410
7	WTVCS12012	12/4/97	10	<0.034	26.16	5.210	4.400
8	WTVCSX013	12/4/97	14	0.520*	26.66	3.470	8.100
9	WTVCS08014	12/9/97	8	<0.007	<0.440	<0.440	<0.440
10	WTVCS13016	12/12/97	10	<0.006	0.772	0.290	<0.380
11	WTVCS13017	12/12/97	10	<0.006	8.105	3.626	<0.360
12	WTVCS16019	12/12/97	12	0.095	14.51	2.180	2.000
13	WTVCS11022	12/18/97	11	<0.057	7.322	1.354	0.360
14	WTVCS11023	12/18/97	11	<0.006	0.690	0.272	<0.360
15	WTVCS06027	1/6/98	6	<0.007	<0.460	<0.460	<0.460
16	WTVCS11028	1/6/98	11	<0.008	32.18	16.26	<1.000
17	WTVCS11029	1/6/98	11	<0.007	84.73	35.30	<0.330
18	WTVCS11030	1/6/98	11	<0.007	0.720	0.250	<0.460
19	WTVCS10031	1/6/98	10	<0.007	<0.480	<0.480	<0.480
20	WTVCS10032	1/6/98	10	<0.009	0.093	<0.560	<0.560
21	WTVCSNSH01	12/18/97	2	<0.006	0.047	<0.410	<0.410
22	WTVCSESH01	12/18/97	2	<0.007	0.771	0.301	<0.440
23	WTVCSBSH001	12/18/97	2	<0.062	15.41	3.060	0.360
24	WTVCSESH02	12/19/97	2	<0.006	0.343	0.177	<0.390
25	WTVCSBSH002	12/19/97	2	<0.006	1.151	0.772	<0.410
26	WTVCSWSH03	12/19/97	2	<0.006	12.18	4.190	0.043
27	WTVCSESH03	12/19/97	2	<0.006	5.677	2.670	<0.380
28	WTVCSSSH03	12/19/97	2	<0.006	2.030	0.990	<0.380
29	WTVCSBSH003	12/19/97	2	<0.006	3.500	1.840	<0.380
30	WTVCSBHULA	1/15/98	2	<0.005	<0.350	<0.350	<0.350

* RESULTS EXCEEDS CLEANUP GOAL OF 0.1 PPM TOTAL BENZENE. SAMPLE TAKEN APPROXIMATELY 4 FEET BELOW GROUND WATER

LEGEND:
● - CONFIRMATION SAMPLE
● - COMPOSITE CONFIRMATION SAMPLE
- - - SLOPE OF DEEP EXCAVATION
- - - LIMIT OF DEEP EXCAVATION

1" = 20'
0 20 40 60
Scale Feet
SCALE REFERENCE

OWN BY: N. ANGLO	2/28/98	DSGN BY:		NYSEG ENGINEERING SERVICES DEPT. BINGHAMTON, N. Y.
CHECKED BY:				
DRAFTING:		DESIGN:		
ENGNG:				
RELEASE APPROVAL:				
AUTHORIZED BY:				TITLE: LIMITS OF EXCAVATION
MATERIAL OR SPEC:				CONFIRMATION SAMPLING RESULTS
				WATERVILLE MGP SITE ONEONTA DIVISION
				WATERVILLE
				SCALE: 1" = 20'
				DWG NO: FIGURE 7
				REV: 0

CADD DRAWING	SYN	ZONE	REVISION	DATE	BY	CHK	APP
DO NOT REUSE							
IMMEDIATELY							

Photographic Record
Waterville former MGP site

Photo Number: 1

Date: November 1997

Direction: South

Comments:

Trucks were escorted
ingress and egress to the
site from Main Street by
site personnel.



Photo Number: 2

Date: November 1997

Direction: East

Comments:

Ingress and egress to the
site was just large enough
for two trucks to pass by



Photographic Record
Waterville former MGP site

Photo Number: 3

Date: November 1997

Direction: Northwest

Comments:

Overburden being removed prior to excavating contents of the gas holder foundation



Photo Number: 4

Date: November 1997

Direction: Southeast

Comments:

Polyethylene sheeting was placed on loading area surface prior to positioning the truck for loading



Photographic Record
Waterville former MGP site

Photo Number: 5

Date: November 1997

Direction: Northwest

Comments:

During the gas holder excavation material was loaded directly into trucks by a track-hoe. The material from the gas holder was landfilled at CWM Model City Landfill



Photo Number: 6

Date: November 1997

Direction: Northwest

Comments:

Material in the gas holder foundation consisted of tarry waste, small piping, metal, bricks, rocks, wood, soil, etc.



Photographic Record
Waterville former MGP site

Photo Number: 7

Date: November 1997

Direction: Northwest

Comments:

The brick walls and floor of the gas holder were in sound condition. Most of the tarry waste was contained within the structure. This also allowed for easy removal of the tarry waste and other materials within the structure.



Photo Number: 8

Date: November 1997

Direction: Northwest

Comments:

After all material was removed from the gas holder foundation the gas holder foundation was also removed. The bottom of the gas holder was approximately two feet above groundwater



Photographic Record
Waterville former MGP site

Photo Number: 9

Date: December 1997

Direction: North

Comments:

Shoring was installed during site preparation to help maximize the excavation area around the relief holder.



Photo Number: 10

Date: December 1997

Direction: Northwest

Comments:

Soil was removed approximately four feet below groundwater under the gas holder foundation



Photographic Record
Waterville former MGP site

Photo Number: 11

Date: December 1997

Direction: South

Comments:

After completeing the gas holder foundation excavation the remaining excavated soil was placed in concrete bunkers for sampling. The lightly contaminated soil was transported to and disposed at Seneca Meadows Landfill. The clean soil was placed in the bottom of the excavation and used as deep subsurface fill.



Photo Number: 12

Date: December 1997

Direction: East

Comments:

The area under the gas production building was excavated to a depth where satisfactory confirmation sampling results were obtained.



Photographic Record
Waterville former MGP site

Photo Number: 13

Date: December 1997

Direction: East

Comments:

Excavation continued to the east and southeast direction until favorable confirmation sampling results were obtained.



Photo Number: 14

Date: December 1997

Direction: East

Comments:

NYSEG Site workers placed polyethylene sheeting over areas of excavation before leaving site daily for engineering controls of emissions .



Photographic Record
Waterville former MGP site

Photo Number: 15

Date: January 1998

Direction: West

Comments:

A minimum of two feet of imported clean common fill was placed over geofabric.



Photo Number: 16

Date: January 1998

Direction: Northwest

Comments:

A NYSEG site worker is placing geofabric over the existing soil prior to placing of imported clean common fill.



Photographic Record
Waterville former MGP site

Photo Number: 17

Date: January 1998

Direction: Northwest

Comments:

Rough grading was completed over the entire site. All material and equipment was removed from site. Remaining is the perimeter fencing, siltation fencing and hay bales.



Photo Number: 18

Date: January 1998

Direction: Northeast

Comments:

Rough grading was completed and perimeter fencing was locked on January 23, 1998. NYSEG will return in the Spring, when weather permits to complete site restoration.



Photographic Record
Waterville former MGP site

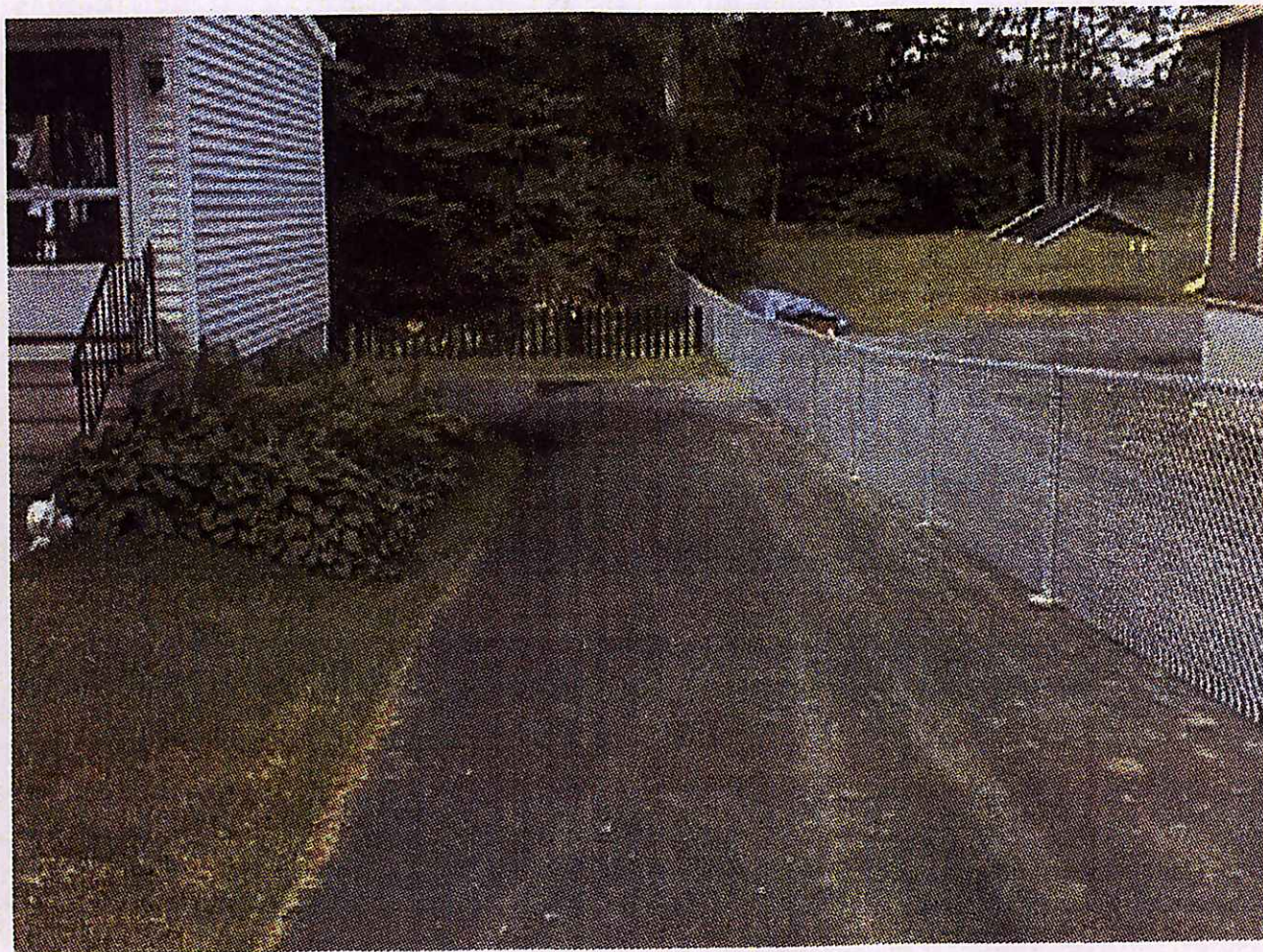


Photo Number: 19

Comments:

Date: July 1998

Restoration - New asphalt driveway and property line fence between Pesto (right) and Murray (left).

Direction: West

Photographic Record
Waterville former MGP site

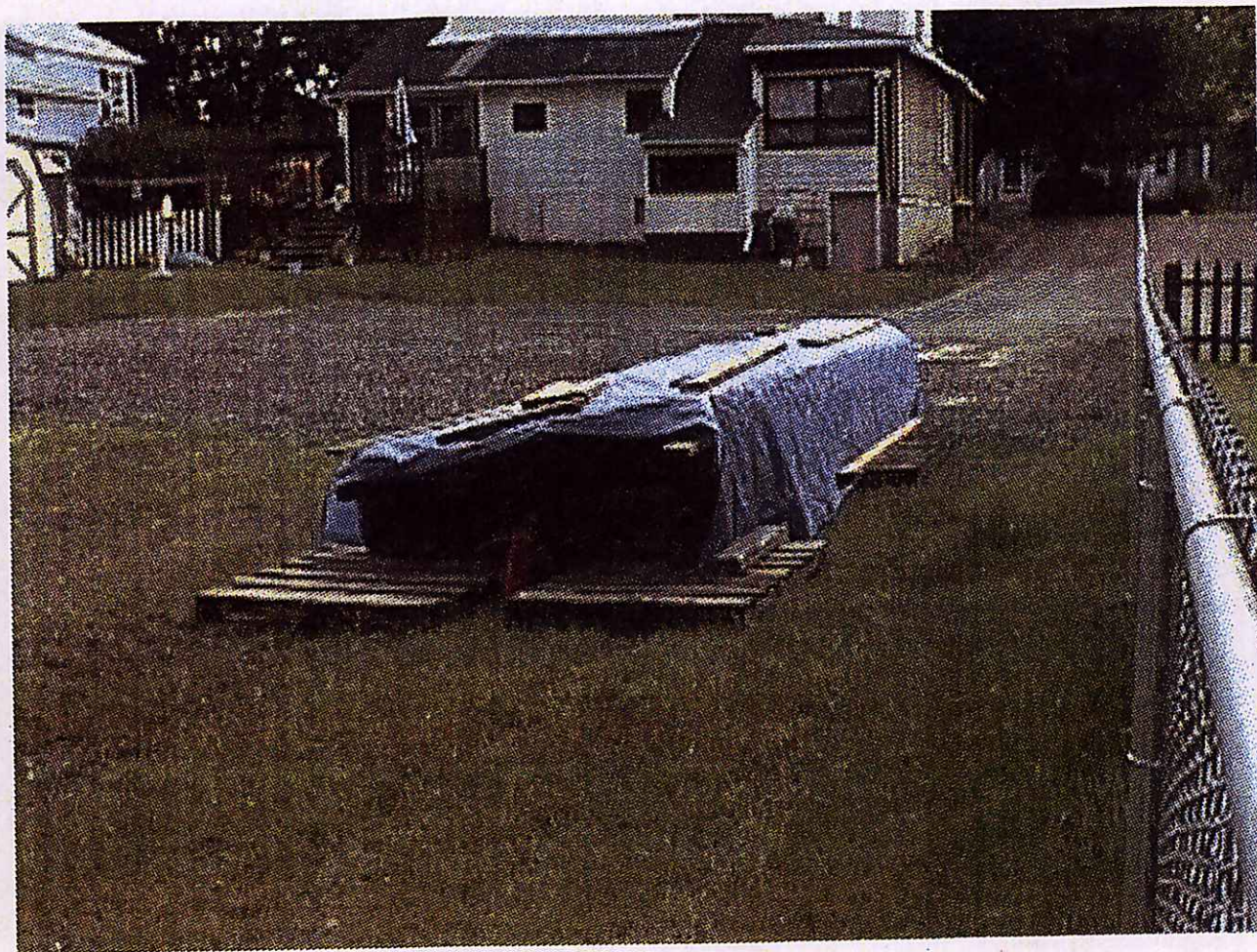


Photo Number: 20

Comments:

Date: July 1998

Restoration - Landowner (Murray) regraded and placed stone for additional parking

Direction: East

Photographic Record
Waterville former MGP site



Photo Number: 21

Date: July 1998

Direction: North

Comments:

Restoration - planting of trees and grass

3.5 Site Restoration

Site restoration was completed June 5, 1998. The restoration included final grading, placing of top soil, seeding, planting of trees, fencing and paving of asphalt driveway (see Figure 6). NYSEG installed four (4) new groundwater monitoring wells, two (2) near the southwest corner of the property and the other two (2) near the southeast corner of the gas holder area. Groundwater monitoring by NYSEG will continue for several years to ensure that the IRM was successful in reducing the impact of the MGP residues to the groundwater.

In addition, NYSEG repaired damage to street asphalt curbs and lawns at adjacent properties on Babbott Avenue.

4.0 SUMMARY OF VARIANCES FROM WORK PLAN

The following modifications to the *Work Plan* were submitted and approved prior to and after the execution of the Waterville IRM project. Written correspondence documenting the modifications are included in Appendix B of this report. Below is a summary of the modifications.

- November 14, 1997 Proposal to use updated EPA analytical methods:
 - 1) Method 8260 (Volatile Organic Compounds)
 - 2) Method 8151 (Herbicides)
 - 3) Method 1030 (Ignitability for Solids)
 - 4) ASP Method D-V-Section IX (Percent Solids)

- November 14, 1997 Proposal to temporarily use laboratory services to determine potential air releases of BTEX (benzene, toluene, ethylbenzene and xylene) compounds in ambient air. A delay in the shipment of the on-site portable gas chromatograph (GC) to be used for the BTEX determinations forced NYSEG to seek the use of a conventional laboratory until the portable GC arrived.

- February 4, 1998 Proposal to generate a Data Usability Summary Report (DUSR) instead of a Data Validation for the Confirmatory Sampling Results. After a discussion with NYSDEC on this issue, the generation of a DUSR appeared to be more appropriate considering the scope and objectives of the MGP IRM.

5.0 COMMUNITY AIR MONITORING

A significant effort in determining BTEX compounds in ambient air was undertaken during the Waterville IRM project. Each day, an upwind and downwind air sampling station was set up at the site perimeter fence line based on meteorological data. During the first three days of the project, air samples were collected and submitted to a laboratory (Performance Analytical, Inc.) for EPA Method TO-14 analyses of BTEX compounds. The remainder of the results for BTEX compounds were generated through the use of an on-site portable gas chromatograph (GC) as outlined in Section 5.3.4 of the Work Plan. A delay in the shipment of the portable GC prompted the shipment of air samples to Performance Analytical, Inc. until the portable GC unit arrived (see Summary of Variances from Work Plan, Section 4.0). The results of average and peak downwind BTEX concentrations for the community air monitoring program are summarized in Table 5-1. (A summary of all BTEX community air monitoring results can be found in Appendix E.)

The results of air monitoring indicate that the average downwind concentrations (averaged over the duration of the entire project) for all of the BTEX compounds are below the Short Term Guidance Concentrations (SGCs) as published in NYSDEC's Air Guide-1. Benzene was the only compound with a peak downwind concentration which exceeded its respective SGC. The benzene peak downwind concentration was measured on November 18, 1997. Also on this day, readings from the hand held real-time total VOC (volatile organic compound) air monitoring device (Mini-RAE), also used to monitor air quality at the site, exceeded the action level cited in Section 5.3.2 of the Work Plan. This prompted the one and only temporary shutdown for the project, during which engineering controls (specified in Section 5.3.2.1 of the Work Plan) were implemented to mitigate the VOC releases. The results of downwind air samples collected on three work days exceeded the SGC for benzene. These exceedances all occurred during the first week of the project,

during which time the worst case tarry waste was being excavated. A summary of peak and average downwind benzene SGC exceedences, for each day that an accedence occurred, is listed in Table 5-2.

It should be noted that all ambient air samples were collected in a grab sampling fashion over approximately thirty minute periods and at a frequency of (1) every two hours; or (2) twice daily; (as specified in Section 5.3.4 of the Work Plan). The Air Guide-1 SGCs are based on time-weighted average data which typically relate to the results of continuous sampling averaged over an eight to ten-hour period. While the SGCs may provide a reference point in considering the relative magnitude of BTEX compounds at the grab sampling points, the fundamental difference between time-weighted average and grab sampling data should be taken into account. The average values calculated in Table 5-1 are the arithmetic mean values of all downwind results of grab sampling for the entire project. The average values calculated in Table 5-2 are the arithmetic mean values of the benzene downwind results of grab sampling for the specified work day.

Table 5-1

Community Air Monitoring Program Speciated BTEX Summary of Downwind Results* November 17, 1997 to Jan 16, 1998			
Compound	Air Guide-1 SGCs (ppm)	Average** Downwind Concentration (ppm)	Peak Downwind Concentration (ppm)
Benzene	0.009	0.003	0.070
Toluene	24	0.0004	0.007
Ethylbenzene	23	0.003	0.038
Xylenes	23	0.001	0.014
*Note: Downwind results were chosen since they most often represented the worst case data. A summary of all Speciated BTEX Community Air Monitoring results can be found in Appendix E. ** Note: Average for the duration of the entire project.			

Table 5-2

Community Air Monitoring Program Peak Downwind Benzene Concentration and the Average Benzene Concentration for Each Work Day that an Exceedence Occurred		
Date	Peak Downwind Concentration (ppm)	Average* Downwind Concentration (ppm)
11/18/97	0.070	0.025
11/19/97	0.032	0.015
11/20/97	0.011	0.006
*Average benzene downwind result calculated for the specified work day. Note: The Air Guide-1 SGC for Benzene is 0.009 ppm.		

APPENDIX A
PHOTOGRAPHIC LOG

APPENDIX B

VARIANCES FROM WORK PLAN

November 14, 1997
Waterville MGP

Mr. David A. Crosby, P. E.
Program Manager
Central Field Services Section
Bureau of Construction Services
Division of Hazardous Waste Remediation
New York State Department of
Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Subject: Revised EPA SW-846 Analytical Methodologies for the Waterville Manufactured Gas Plant (MGP) Interim Remedial Measures (IRM) Project

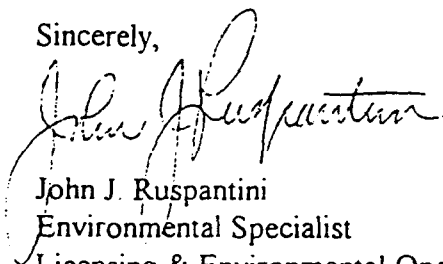
Dear Mr. Crosby:

Please be advised that several analytical methods listed in the QAPP (Quality Assurance Project Plan), Appendix C of the Waterville IRM Work Plan, have been updated to newer methodologies by EPA Statement of Work SW-846, rendering the former methods obsolete. After a discussion with Pamela Weaver of Galson Laboratories on November 13, 1997, the following methods have been updated: (1) Method 8260 (Volatile Organic Compounds, Total Benzene) has replaced Method 8240; (2) Method 8151 (Herbicides) has replaced Method 8150; (3) Method 1030 (Ignitability for Solids) has replaced ASTM D-93-77; and (4) the ASP Method (D-V-Section IX) for Percent Solids has replaced ASTM D3987-85.

In an effort to stay current with EPA regulations, NYSEG, in consultation with Galson Laboratories, proposes the use of the above listed methods for the analytical requirements of the Waterville IRM project.

Should you have any questions or comments regarding this matter, please do not hesitate to contact me at (607) 762-8787.

Sincerely,



John J. Ruspantini
Environmental Specialist
Licensing & Environmental Operations

Enclosure

cc: B. W. Finch

f:\env\doc\crosby10.jjr

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November 14, 1997
Waterville MGP

Mr. David A. Crosby, P. E.
Program Manager
Central Field Services Section
Bureau of Construction Services
Division of Hazardous Waste Remediation
New York State Department of
Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Subject: Work Plan Modification to the Waterville MGP IRM Work Plan

Dear Mr. Crosby:

Pusuant to our telephone conversation of this day, I am writing this letter to propose a modification to the Waterville IRM Work Plan.

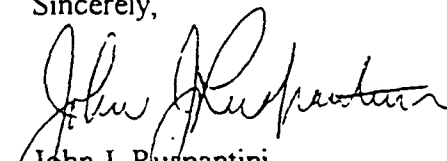
As you know, the shipment of the portable GC (gas chromatograph) instrument designed to measure potential air releases of BTEX (benzene, toluene, ethylbenzene and xylene) compounds has been delayed. In order to maintain the project schedule, scheduled to commence on November 17, 1997, NYSEG will collect the ambient air samples per the location and frequency of Section 5.3.4 of the Work Plan but ship the samples to a laboratory for GC analysis. The laboratory analysis will temporarily replace the on-site use of the portable GC unit.

Once the portable GC is received and operational, NYSEG will employ the unit for the on-site determination of the BTEX compounds in the collected air samples in accordance with Section 5.3.4 of the Work Plan.

As a backup, NYSEG may also elect to employ the time weighted average method NYSDOH 311-6 to determine the BTEX compounds as previously performed on the Norwich MGP remediation project.

Employment of either option will ensure that potential air releases of the BTEX compounds are properly documented.

Sincerely,



John J. Ruspantini
Environmental Specialist
Licensing & Environmental Operations

An Equal Opportunity Employer



February 4, 1997
Waterville MGP

Mr. David A. Crosby, P. E.
Program Manager
Central Field Services Section
Bureau of Construction Services
Division of Hazardous Waste Remediation
New York State Department of
Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Subject: Data Validation for Confirmatory Sampling Results of Analysis
Waterville Interim Remedial Measures (IRM) Project
Waterville Former Manufactured Gas Plant (MGP) Site - Waterville, NY

Dear Mr. Crosby:

In reference to our telephone conversation of February 3, 1998, I am writing this letter to document NYSEG's plan regarding data validation of confirmatory sampling results generated for the Waterville former MGP IRM project.

As described in Section 8.2 of the QAPP, Appendix C of the Waterville IRM Work Plan, "A data validation report will be prepared for all confirmatory sample results if definitive endpoint documentation of data for the purposes of site closure is warranted." Based on our telephone conversation, however, it is my understanding that subjecting these analytical results to a data validation could fortify the defensibility of the results if litigation ensues but not necessarily influence a NYSDEC issuance of a ROD (Record of Decision) for "No Further Action" at the site.

For additional guidance on this issue, I contacted Ms. Christine McGrath of your department by telephone on February 3, 1998. Based on that discussion, it seems that NYSDEC favors the generation of a Data Usability Summary Report (DUSR) instead of a data validation considering the scope and objectives of the MGP remediation.

Considering Ms. McGrath's guidance and our conversation on this issue, NYSEG believes that validation of the confirmatory results from the Waterville IRM project is unwarranted at this time. NYSEG will archive the confirmatory results in the event that it becomes necessary to have these data validated in the future.

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NYSEG will go forward with the preparation of a DUSR for the confirmatory sampling results and submit the report as a supplement to the final engineering report for the Waterville IRM project.

Should you have any questions or additional comments concerning this matter, please feel free to contact me at (607) 762-8787.

Sincerely,



John J. Ruspantini
Staff Environmental Specialist
Licensing & Environmental Operations

cc: B. W. Finch

APPENDIX C

MATERIAL DISPOSITION

AT

**CHEMICAL WASTE MANAGEMENT's
RCRA SUBTITLE C LANDFILL
MODEL CITY, NEW YORK**

AND

**SENECA MEADOWS'
NON HAZARDOUS INDUSTRIAL SOLID WASTE LANDFILL
WATERLOO, NEW YORK**

WATERVILLE FORMER MGP SITE
1997 IRM CLEANUP PROJECT
RCRA Hazardous Tarry Waste Disposal
CWM Chemical Services, Inc. / Model City, New York

NYSEG Load Number	Model City Landfill		Tonnage
	Manifest Number	Ship Date	
22601	NYB8828901	11/17/97	23.99
22602	NYB8828919	11/17/97	30.41
22603	NYB8828928	11/17/97	35.01
22604	NYB8828937	11/17/97	28.47
22605	NYB8828946	11/17/97	32.13
22606	NYB8828955	11/18/97	40.36
22607	NYB8828964	11/18/97	38.09
22608	NYB8828973	11/18/97	32.18
22609	NYB8828982	11/18/97	40.70
22610	NYB8814285	11/18/97	33.46
22611	NYB8814294	11/18/97	28.72
22612	NYB8814303	11/18/97	27.41
22613	NYB8814312	11/19/97	34.36
22614	NYB8814321	11/19/97	33.99
22615	NYB8814339	11/19/97	28.48
22616	NYB8814348	11/19/97	28.27
22617	NYB8814357	11/19/97	34.13
22618	NYB8814366	11/19/97	29.60
22619	NYB8814375	11/19/97	36.19
22620	NYB8814384	11/19/97	32.23

WATERVILLE FORMER MGP SITE
1997 IRM CLEANUP PROJECT
RCRA Hazardous Tarry Waste Disposal
CWM Chemical Services, Inc. / Model City, New York

NYSEG Load Number	Model City Landfill		Tonnage
	Manifest Number	Ship Date	
22621	NYB8814393	11/20/97	34.54
22622	NYB8814402	11/20/97	29.80
22623	NYB8814411	11/20/97	24.44
22624	NYB8814429	11/20/97	27.86
22625	NYB8814438	11/20/97	28.23
22626	NYB8814447	11/20/97	29.60
22627	NYB8814456	11/20/97	30.45
22628	NYB8814465	11/21/97	25.78
22629	NYB8814474	11/21/97	29.62
22630	NYB8814483	11/21/97	27.21
22631	NYB8814492	11/21/97	28.38
22632	NYB8814501	11/21/97	27.70
22633	NYB8814276	11/21/97	34.74
22634	NYB8814267	11/21/97	36.70
22635	NYB8814258	11/21/97	32.43
22636	NYB8814249	11/21/97	33.30
22637	NYB8814231	11/21/97	39.07
22638	NYB8814222	11/24/97	29.59
22639	NYB8814213	11/24/97	30.23
22640	NYB8814204	11/24/97	26.72

WATERVILLE FORMER MGP SITE
1997 IRM CLEANUP PROJECT
RCRA Non-hazardous Coal Tar Contaminated Soil Disposal
Seneca Meadows Landfill, Waterloo, NY

NYSEG Manifest	Seneca Meadows Landfill		Page Transportation		Tonnage
	Ticket Number	Date	Truck ID	Invoice Number	
1	000395164	12/2/97	CRO299	99338	32.53
2	000395051	12/2/97	PAG234	85430	27.26
3	000395106	12/2/97	PAG950	98060	36.85
4	000395107	12/2/97	PAG70	98059	37.90
5	000395113	12/2/97	B4	99272	19.72
6	000395174	12/2/97	CRO303	98095	30.38
7	000395226	12/2/97	422	85531	34.29
8	000395224	12/2/97	PAG234	85429	25.26
9	000395258	12/3/97	PAG948	85219	27.91
10	000395326	12/3/97	PAG72	98061	23.07
11	000395328	12/3/97	PAG70	98062	34.71
12	000395338	12/3/97	PAG234	85218	30.61
13	000395339	12/3/98	B4X	99273	26.86
14	000395358	12/3/97	JC303	98096	36.00
15	000395374	12/3/97	JC297	98097	31.48
16	000395407	12/3/97	PAG465	98065	45.56
17	000395406	12/3/97	PAG948	85220	30.79
18	000395443	12/3/97	PAG72	98064	30.88
19	000395444	12/3/97	PAG70	98063	35.24
20	000395457	12/3/98	PAG04	99274	11.17
21	000396531	12/9/97	PAG967	85834	42.88
22	000396527	12/9/97	PAG940	85532	40.99
23	000396550	12/9/97	JC303	98707	32.37
24	000396556	12/9/97	JC297	98708	29.84
25	000396554	12/9/97	PAG234	85835	22.41

WATERVILLE FORMER MGP SITE
1997 IRM CLEANUP PROJECT
RCRA Non-hazardous Coal Tar Contaminated Soil Disposal
Seneca Meadows Landfill, Waterloo, NY

NYSEG Manifest	Seneca Meadows Landfill		Page Transportation		Tonnage
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26	000396576	12/9/97	PAG950	98292	38.33
27	000396721	12/10/97	PAG967	85837	43.20
28	000396708	12/10/97	PAG234	85836	28.81
29	000396834	12/10/97	PAG234	85838	23.52
30	000396835	12/10/97	PAG364	85965	30.20
31	000396926	12/10/97	PAG967	85839	28.49
32	000396933	12/10/97	ERL01	98243	31.64
33	000396961	12/11/97	PAG234	85840	22.72
34	000396952	12/11/97	PAG364	85966	32.29
35	000398071	12/17/97	PAG950	98547	36.37
36	000398072	12/17/97	PAG70	98549	32.21
37	000398083	12/17/97	PAG226	98453	11.33
38	000398084	12/17/97	JC03	98710	25.93
39	000398103	12/17/97	PAG234	86233	30.03
40	000398104	12/17/97	PAG118	86232	35.22
41	000398135	12/17/97	PAG364	86435	34.86
42	000398137	12/17/97	PAG121	86916	37.41
43	000398225	12/18/97	2489 PAG583	98354	31.90
44	000398147	12/17/97	ERL1	98545	31.26
45	000398162	12/17/97	JC03	98709	26.85
46	000398170	12/17/97	PAG950	98548	39.86
47	000398171	12/17/97	PAG70	98550	36.65
48	000398178	12/17/97	PAG226	98452	19.26
49	000398438	12/19/97	PAG118	86664	43.00
50	000398190	12/18/97	PAG234	86234	28.09

WATERVILLE FORMER MGP SITE
1997 IRM CLEANUP PROJECT
RCRA Non-hazardous Coal Tar Contaminated Soil Disposal
Seneca Meadows Landfill, Waterloo, NY

NYSEG Manifest	Seneca Meadows Landfill		Page Transportation		Tonnage
	Ticket Number	Date	Truck ID	Invoice Number	
51	000398191	12/18/97	PAG364	86436	33.32
52	000398189	12/18/97	PAG121	86918	34.90
53	000398245	12/18/97	PAG950	98552	36.61
54	000398246	12/18/97	PAG70	98807	44.08
55	000398252	12/18/97	JC03	98715	27.98
56	000398253	12/18/97	ERL01	98554	27.73
57	000398265	12/18/97	JC303	98712	27.84
58	000398266	12/18/97	JC297	98713	30.22
59	000398269	12/18/97	PAG72	98551	37.02
60	000398296	12/18/97	PAG121	86917	35.40
61	000398297	12/18/97	PAG364	86438	32.33
62	000398299	12/18/97	STE234	86231	26.52
63	000398329	12/18/97	JC03	98714	21.87
64	000398338	12/18/97	PAG70	98808	38.90
65	000398337	12/18/97	PAG950	98553	38.80
66	000398344	12/18/97	ERL01	98546	33.11
67	000398354	12/18/97	JC303	98711	30.02
68	000398399	12/19/97	JC297	98716	25.38
69	000398391	12/19/97	PAG583	98454	22.58
70	000398371	12/19/97	PAG121	86919	38.91
71	000398370	12/19/97	PAG364	86437	35.16
72	000398388	12/19/97	PAG234	86920	24.09
73	000400085	1/2/98	PAG234	86915	23.91
74	000400087	1/2/98	PAG045	98964	35.27
75	000400089	1/2/98	JC03	99051	22.76

WATERVILLE FORMER MGP SITE
1997 IRM CLEANUP PROJECT
RCRA Non-hazardous Coal Tar Contaminated Soil Disposal
Seneca Meadows Landfill, Waterloo, NY

NYSEG Manifest	Seneca Meadows Landfill		Page Transportation		Tonnage
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78	000400124	1/2/98	PAG637	98862	32.87
79	000400126	1/2/98	PAG216	98863	28.61
80	000400211	1/2/98	JC03	99052	25.60
81	000400227	1/2/98	PAG045	98864	26.30
82	000400219	1/2/98	PAG234	87259	33.62
83	000400229	1/2/98	RC2	98963	27.87
84	000400426	1/5/97	PAG045	99054	44.26
85	000400443	1/5/98	PAG967	87263	36.88
86	000400435	1/5/98	PAG234	87262	33.84
87	000400433	1/5/98	PAG121	87424	33.25
88	000400441	1/5/98	JC03	99056	26.61
89	000400445	1/5/98	PAG364	87361	33.91
90	000400535	1/5/98	PAG180	87264	33.24
91	000400528	1/5/98	PAG045	99053	27.25
92	000400533	1/5/98	JC03	99055	25.00
93	000400542	1/5/98	PAG121	87423	27.02
94	000400549	1/5/98	PAG234	87261	28.24
95	000400576	1/6/98	PAG967	87266	39.03
96	000400666	1/6/98	RC2	99188	25.48
97	000400671	1/6/98	PAG234	87265	26.12
98	000400684	1/6/98	PAG045	99095	19.82
99	000400685	1/6/98	PAG121	87425	25.83
100	000400803	1/6/98	JC03	99094	20.79

WATERVILLE FORMER MGP SITE
1997 IRM CLEANUP PROJECT
RCRA Non-hazardous Coal Tar Contaminated Soil Disposal
Seneca Meadows Landfill, Waterloo, NY

NYSEG Manifest	Seneca Meadows Landfill		Page Transportation		Tonnage
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102	000402332	1/14/98	PAG216	99211	32.24
103	000402322	1/14/98	PAG045	99209	25.54
104	000402308	1/14/98	PAG70	99340	28.27
105	000402330	1/14/98	AM94	99339	28.81
106	000402361	1/14/98	299	99537	38.64
107	000402362	1/14/98	PAG297	99536	33.40
108	000402601	1/15/97	PAG637	99213	28.24
109	000402419	1/14/98	PAG950	99308	33.46
110	000402417	1/14/98	CAS2 PR3962	99410	29.62
111	000402415	1/14/98	PAG489	99206	16.96
112	000402424	1/14/98	PAG70	99341	41.24
113	000402493	1/15/98	PAG045	99215	27.02
114	000402363	1/14/98	PAG637	99207	24.59
115	000402648	1/15/98	PAG045	99208	26.76
116	000402678	1/15/98	PAG234	87687	32.04
117	000402753	1/15/98	PAG637	99212	28.38
118	000402786	1/16/98	PAG045	99216	34.92
119	000402871	1/16/98	PAG234	88164	24.09
120	000402931	1/16/98	PAG045	99214	28.44
121	000403003	1/16/97	PAG234	391 Page 1	31.80
					3,714.21

APPENDIX D

ANALYICAL RESULTS AND DISPOSITION OF SOIL STOCKPILES

**New York State Electric & Gas Corp.
Coal Tar Soil Analytical Report Summary
Pile Sampling - Waterville MGP**

Laboratory: Galson Laboratories
Sample ID: WTVSPXX01
Laboratory ID: L-40169
Collection Date: 11/18/97
Analysis Date: 11/19-24/97
Units: Parts Per Million (ppm)

Total Benzene	Total PAHs	cPAHs	Naphthalene	Destination
<0.007	11.78	6.150	0.058	On-site backfill

Laboratory: Galson Laboratories
Sample ID: WTVSPXX02
Laboratory ID: L-40193
Collection Date: 11/19/97
Analysis Date: 11/20-24/97
Units: Parts Per Million (ppm)

Total Benzene	Total PAHs	cPAHs	Naphthalene	Destination
<0.018	62.74	26.50	1.400	Nonhaz Landfill

Laboratory: Galson Laboratories
Sample ID: WTVSPXX03
Laboratory ID: L-40278
Collection Date: 11/25/97
Analysis Date: 11/26-30/97
Units: Parts Per Million (ppm)

Total Benzene	Total PAHs	cPAHs	Naphthalene	Destination
0.005	5.996	3.080	0.084	On-site backfill

**New York State Electric & Gas Corp.
Coal Tar Soil Analytical Report Summary
Pile Sampling - Waterville MGP**

Laboratory: Galson Laboratories
Sample ID: WTVSPXX04
Laboratory ID: L40278
Collection Date: 11/25/97
Analysis Date: 11/26-30/97
Units: Parts Per Million (ppm)

Total Benzene	Total PAHs	cPAHs	Naphthalene	Destination
0.560	46.78	9.440	11.00	Nonhaz Landfill

Laboratory: Galson Laboratories
Sample ID: WTVSPXX05
Laboratory ID: L-40392
Collection Date: 12/4/97
Analysis Date: 12/4-8/97
Units: Parts Per Million (ppm)

Total Benzene	Total PAHs	cPAHs	Naphthalene	Destination
0.068	197.8	67.9	3.400	Nonhaz Landfill

Laboratory: Galson Laboratories
Sample ID: WTVSPXX06
Laboratory ID: L40426
Collection Date: 12/5/97
Analysis Date: 12/5-8/97
Units: Parts Per Million (ppm)

Total Benzene	Total PAHs	cPAHs	Naphthalene	Destination
<0.006	17.37	8.270	<0.390	On-site backfill

**New York State Electric & Gas Corp.
Coal Tar Soil Analytical Report Summary
Pile Sampling - Waterville MGP**

Laboratory: Galson Laboratories
Sample ID: WTVSPXX07
Laboratory ID: L40544-6
Collection Date: 12/12/97
Analysis Date: 12/12-16/97
Units: Parts Per Million (ppm)

Total Benzene	Total PAHs	cPAHs	Naphthalene	Destination
<0.006	15.81	6.230 *	0.460	Nonhaz Landfill

Laboratory: Galson Laboratories
Sample ID: WTVSPXX08
Laboratory ID: L-40544-9
Collection Date: 12/12/97
Analysis Date: 12/12-16/97
Units: Parts Per Million (ppm)

Total Benzene	Total PAHs	cPAHs	Naphthalene	Destination
<2.800	189.3	22.50	48.00	Nonhaz Landfill

Laboratory: Galson Laboratories
Sample ID: WTVSPXX09
Laboratory ID: L40544-10
Collection Date: 12/12/97
Analysis Date: 12/12-16/97
Units: Parts Per Million (ppm)

Total Benzene	Total PAHs	cPAHs	Naphthalene	Destination
2.200	421.7	56.30	85.00	Nonhaz Landfill

* The cPAH values for the Matrix Spike (MS) and Matrix Spike Duplicate (MSD) were measured at 20.00 and 21.50 ppm. Pile WTVSPXX07 was sent to a Nonhaz landfill based on NYSDEC's use of the MS and MSD cPAH values to characterize the soil.

**New York State Electric & Gas Corp.
Coal Tar Soil Analytical Report Summary
Pile Sampling - Waterville MGP**

Laboratory: Galson Laboratories
Sample ID: WTVSPXX10
Laboratory ID: L-40664-10
Collection Date: 12/19/97
Analysis Date: 12/19-24/97
Units: Parts Per Million (ppm)

Total Benzene	Total PAHs	cPAHs	Naphthalene	Destination
<0.006	16.24	5.93	0.052	On-site Backfill

Laboratory: Galson Laboratories
Sample ID: WTVSPXX11
Laboratory ID: L- 40665-3
Collection Date: 12/19/97
Analysis Date: 12/19-23/97
Units: Parts Per Million (ppm)

Total Benzene	Total PAHs	cPAHs	Naphthalene	Destination
<0.058	59.92	10.31	6.800	Nonhaz Landfill

Laboratory: Galson Laboratories
Sample ID: WTVSPXX12
Laboratory ID: L- 40665-5
Collection Date: 12/19/97
Analysis Date: 12/19-23/97
Units: Parts Per Million (ppm)

Total Benzene	Total PAHs	cPAHs	Naphthalene	Destination
<0.006	1.358	0.266	0.061	Nonhaz Landfill

**New York State Electric & Gas Corp.
Coal Tar Soil Analytical Report Summary
Pile Sampling - Waterville MGP**

Laboratory: Galson Laboratories

Sample ID: WTVSPXX13

Laboratory ID: L-40808-8

Collection Date: 1/6/98

Analysis Date: 1/6-9/98

Units: Parts Per Million (ppm)

Total Benzene	Total PAHs	cPAHs	Naphthalene	Destination
<0.007	25.13	10.86	0.150	Nonhaz Landfill

Laboratory: Galson Laboratories

Sample ID: WTVSPXX14

Laboratory ID: L- 40827-1

Collection Date: 1/7/98

Analysis Date: 1/7- 9/98

Units: Parts Per Million (ppm)

Total Benzene	Total PAHs	cPAHs	Naphthalene	Destination
<0.019	27.71	6.060	1.100	On-site Backfill

APPENDIX E

ANALYTICAL RESULTS
FOR
COMMUNITY AIR MONITORING PROGRAM

**New York State Electric and Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Laboratory Results of Analysis - Performance Analytical, Inc.**

DATE	Time	Location/ Station	Compound	Measured Concentration (ppm)
11/17/97	08:30	Upwind (bkg)/RTS3	Benzene	<0.0016
11/17/97	08:30	Upwind (bkg)/RTS3	Toluene	0.0039
11/17/97	08:30	Upwind (bkg)/RTS3	Ethylbenzene	0.00078
11/17/97	08:30	Upwind (bkg)/RTS3	Xylenes	0.0051
11/17/97	09:00	Downwind (bkg)/RTS1	Benzene	<0.0016
11/17/97	09:00	Downwind (bkg)/RTS1	Toluene	0.0035
11/17/97	09:00	Downwind (bkg)/RTS1	Ethylbenzene	0.00076
11/17/97	09:00	Downwind (bkg)/RTS1	Xylenes	0.0044
11/17/97	11:15	Upwind/RTS3	Benzene	<0.0016
11/17/97	11:15	Upwind/RTS3	Ethylbenzene	0.0015
11/17/97	11:15	Upwind/RTS3	Toluene	0.0064
11/17/97	11:15	Upwind/RTS3	Xylenes	0.0091
11/17/97	11:45	Downwind/RTS1	Benzene	<0.0016
11/17/97	11:45	Downwind/RTS1	Toluene	0.0062
11/17/97	11:45	Downwind/RTS1	Ethylbenzene	0.0022
11/17/97	11:45	Downwind/RTS1	Xylenes	0.014
11/17/97	13:20	Upwind/RTS3	Benzene	<0.0016
11/17/97	13:20	Upwind/RTS3	Toluene	0.0026
11/17/97	13:20	Upwind/RTS3	Ethylbenzene	0.00083
11/17/97	13:20	Upwind/RTS3	Xylenes	0.0046
11/17/97	13:45	Downwind/RTS1	Benzene	<0.0016
11/17/97	13:45	Downwind/RTS1	Toluene	0.0031
11/17/97	13:45	Downwind/RTS1	Ethylbenzene	0.0010

**New York State Electric and Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Laboratory Results of Analysis - Performance Analytical, Inc.**

DATE	Time	Location/ Station	Compound	Measured Concentration (ppm)
11/17/97	13:45	Downwind/RTS1	Xylenes	0.0057
11/17/97	15:15	Upwind/RTS3	Benzene	<0.0016
11/17/97	15:15	Upwind/RTS3	Toluene	0.0027
11/17/97	15:15	Upwind/RTS3	Ethylbenzene	0.00064
11/17/97	15:15	Upwind/RTS3	Xylenes	0.0026
11/17/97	15:45	Downwind/RTS1	Benzene	0.0053
11/17/97	15:45	Downwind/RTS1	Toluene	0.0080
11/17/97	15:45	Downwind/RTS1	Ethylbenzene	0.0015
11/17/97	15:45	Downwind/RTS1	Xylenes	0.0049
11/18/97	08:30	Downwind/RTS4	Benzene	0.070**
11/18/97	08:30	Downwind/RTS4	Toluene	0.038
11/18/97	08:30	Downwind/RTS4	Ethylbenzene	0.0044
11/18/97	08:30	Downwind/RTS4	Xylenes	0.0059
11/18/97	09:00	Upwind/RTS2	Benzene	<0.0016
11/18/97	09:00	Upwind/RTS2	Toluene	0.0017
11/18/97	09:00	Upwind/RTS2	Ethylbenzene	<0.0012
11/18/97	09:00	Upwind/RTS2	Xylenes	0.0014
11/18/97	10:30	Upwind/RTS2	Benzene	<0.0016
11/18/97	10:30	Upwind/RTS2	Toluene	0.0036
11/18/97	10:30	Upwind/RTS2	Ethylbenzene	<0.0012
11/18/97	10:30	Upwind/RTS2	Xylenes	0.0015
11/18/97	11:00	Downwind/RTS4	Benzene	0.027**
11/18/97	11:00	Downwind/RTS4	Toluene	0.020

**New York State Electric and Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Laboratory Results of Analysis - Performance Analytical, Inc.**

DATE	Time	Location/ Station	Compound	Measured Concentration (ppm)
11/18/97	11:00	Downwind/RTS4	Ethylbenzene	0.0028
11/18/97	11:00	Downwind/RTS4	Xylenes	0.0046
11/18/97	12:45	Upwind/RTS2	Benzene	0.00090
11/18/97	12:45	Upwind/RTS2	Toluene	0.0043
11/18/97	12:45	Upwind/RTS2	Ethylbenzene	0.0011
11/18/97	12:45	Upwind/RTS2	Xylenes	0.0029
11/18/97	13:15	Downwind/RTS4	Benzene	0.0026
11/18/97	13:15	Downwind/RTS4	Toluene	0.0059
11/18/97	13:15	Downwind/RTS4	Ethylbenzene	0.0012
11/18/97	13:15	Downwind/RTS4	Xylenes	0.0035
11/18/97	14:15	Upwind/RTS2	Benzene	<0.0016
11/18/97	14:15	Upwind/RTS2	Toluene	0.0038
11/18/97	14:15	Upwind/RTS2	Ethylbenzene	0.00095
11/18/97	14:15	Upwind/RTS2	Xylenes	0.0028
11/18/97	14:45	Downwind/RTS4	Benzene	0.0023
11/18/97	14:45	Downwind/RTS4	Toluene	0.0061
11/18/97	14:45	Downwind/RTS4	Ethylbenzene	0.0013
11/18/97	14:45	Downwind/RTS4	Xylenes	0.0036
11/19/97	07:30	Upwind/RTS2	Benzene	0.0011
11/19/97	07:30	Upwind/RTS2	Toluene	0.0030
11/19/97	07:30	Upwind/RTS2	Ethylbenzene	<0.0012
11/19/97	07:30	Upwind/RTS2	Xylenes	0.0013
11/19/97	08:00	Downwind/RTS4	Benzene	0.0020

**New York State Electric and Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Laboratory Results of Analysis - Performance Analytical, Inc.**

DATE	Time	Location/ Station	Compound	Measured Concentration (ppm)
11/19/97	08:00	Downwind/RTS4	Toluene	0.0032
11/19/97	08:00	Downwind/RTS4	Ethylbenzene	<0.0012
11/19/97	08:00	Downwind/RTS4	Xylenes	0.0012
11/19/97	09:30	Upwind/RTS2	Benzene	<0.0016
11/19/97	09:30	Upwind/RTS2	Toluene	0.0042
11/19/97	09:30	Upwind/RTS2	Ethylbenzene	0.00087
11/19/97	09:30	Upwind/RTS2	Xylenes	0.0037
11/19/97	10:00	Downwind/RTS4	Benzene	0.021**
11/19/97	10:00	Downwind/RTS4	Toluene	0.013
11/19/97	10:00	Downwind/RTS4	Ethylbenzene	0.0015
11/19/97	10:00	Downwind/RTS4	Xylenes	0.0044
11/19/97	11:30	Upwind/RTS2	Benzene	0.0011
11/19/97	11:30	Upwind/RTS2	Toluene	0.0057
11/19/97	11:30	Upwind/RTS2	Ethylbenzene	0.0012
11/19/97	11:30	Upwind/RTS2	Xylenes	0.0049
11/19/97	12:00	Downwind/RTS4	Benzene	0.0038
11/19/97	12:00	Downwind/RTS4	Toluene	0.0065
11/19/97	12:00	Downwind/RTS4	Ethylbenzene	0.0012
11/19/97	12:00	Downwind/RTS4	Xylenes	0.0041
11/19/97	14:00	Upwind/RTS2	Benzene	0.00098
11/19/97	14:00	Upwind/RTS2	Toluene	0.0040
11/19/97	14:00	Upwind/RTS2	Ethylbenzene	<0.0012
11/19/97	14:00	Upwind/RTS2	Xylenes	0.0018

**New York State Electric and Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Laboratory Results of Analysis - Performance Analytical, Inc.**

DATE	Time	Location/ Station	Compound	Measured Concentration (ppm)
11/19/97	14:30	Downwind/RTS4	Benzene	0.032**
11/19/97	14:30	Downwind/RTS4	Toluene	0.021
11/19/97	14:30	Downwind/RTS4	Ethylbenzene	0.0027
11/19/97	14:30	Downwind/RTS4	Xylenes	0.0054

** The shaded data indicate results which exceed the NYSDEC Air Guide-1 Short Term Guidance Concentrations (SGCs).

See figure 5A for RTS station locations.

jjr/aireslab.wp

**New York State Electric & Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Voyager Portable Gas Chromatograph Results**

Date	Time	Location/ Station	Compound	Measured Concentration (ppm)
11/20/97	*	*	Benzene	<0.001
11/20/97	*	*	Ethylbenzene	<0.007
11/20/97	*	*	Toluene	<0.002
11/20/97	*	*	Xylenes	<0.009
11/20/97	*	*	Benzene	<0.001
11/20/97	*	*	Ethylbenzene	<0.007
11/20/97	*	*	Toluene	<0.002
11/20/97	*	*	Xylenes	<0.009
11/20/97	*	*	Benzene	<0.001
11/20/97	*	*	Ethylbenzene	<0.007
11/20/97	*	*	Toluene	<0.002
11/20/97	*	*	Xylenes	<0.009
11/20/97	*	*	Benzene	<0.001
11/20/97	*	*	Ethylbenzene	<0.007
11/20/97	*	*	Toluene	<0.002
11/20/97	*	*	Xylenes	<0.009
11/20/97	*	*	Benzene	0.011**
11/20/97	*	*	Ethylbenzene	0.007
11/20/97	*	*	Toluene	0.007
11/20/97	*	*	Xylenes	<0.009
11/21/97	07:45	Upwind/RTS2	Benzene	<0.001
11/21/97	07:45	Upwind/RTS2	Ethylbenzene	<0.007
11/21/97	07:45	Upwind/RTS2	Toluene	<0.002
11/21/97	07:45	Upwind/RTS2	Xylenes	<0.009
11/21/97	08:15	Downwind/RTS4	Benzene	<0.001
11/21/97	08:15	Downwind/RTS4	Ethylbenzene	<0.007
11/21/97	08:15	Downwind/RTS4	Toluene	<0.002
11/21/97	08:15	Downwind/RTS4	Xylenes	<0.009
11/21/97	09:45	Upwind/RTS2	Benzene	<0.001
11/21/97	09:45	Upwind/RTS2	Ethylbenzene	<0.007

**New York State Electric & Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Voyager Portable Gas Chromatograph Results**

Date	Time	Location/ Station	Compound	Measured Concentration (ppm)
11/21/97	09:45	Upwind/RTS2	Toluene	<0.002
11/21/97	09:45	Upwind/RTS2	Xylenes	<0.009
11/21/97	10:15	Downwind/RTS4	Benzene	<0.001
11/21/97	10:15	Downwind/RTS4	Ethylbenzene	<0.007
11/21/97	10:15	Downwind/RTS4	Toluene	<0.002
11/21/97	10:15	Downwind/RTS4	Xylenes	<0.009
11/21/97	11:45	Upwind/RTS2	Benzene	<0.001
11/21/97	11:45	Upwind/RTS2	Ethylbenzene	<0.007
11/21/97	11:45	Upwind/RTS2	Toluene	<0.002
11/21/97	11:45	Upwind/RTS2	Xylenes	<0.009
11/21/97	12:15	Downwind/RTS4	Benzene	<0.001
11/21/97	12:15	Downwind/RTS4	Ethylbenzene	<0.007
11/21/97	12:15	Downwind/RTS4	Toluene	<0.002
11/21/97	12:15	Downwind/RTS4	Xylenes	<0.009
11/21/97	12:45	Downwind/RTS4	Benzene	0.007
11/21/97	12:45	Downwind/RTS4	Ethylbenzene	<0.007
11/21/97	12:45	Downwind/RTS4	Toluene	0.011
11/21/97	12:45	Downwind/RTS4	Xylenes	<0.009
11/21/97	13:45	Upwind/RTS2	Benzene	0.004
11/21/97	13:45	Upwind/RTS2	Ethylbenzene	<0.007
11/21/97	13:45	Upwind/RTS2	Toluene	0.012
11/21/97	13:45	Upwind/RTS2	Xylenes	<0.009
11/21/97	14:15	Downwind/RTS4	Benzene	0.008
11/21/97	14:15	Downwind/RTS4	Ethylbenzene	<0.007
11/21/97	14:15	Downwind/RTS4	Toluene	0.010
11/21/97	14:15	Downwind/RTS4	Xylenes	<0.009
11/24/97	07:45	Upwind/RTS3	Benzene	0.004
11/24/97	07:45	Upwind/RTS3	Ethylbenzene	<0.007
11/24/97	07:45	Upwind/RTS3	Toluene	0.007
11/24/97	07:45	Upwind/RTS3	Xylenes	<0.009

**New York State Electric & Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Voyager Portable Gas Chromatograph Results**

Date	Time	Location/ Station	Compound	Measured Concentration (ppm)
11/24/97	08:15	Downwind/RTS1	Benzene	0.005
11/24/97	08:15	Downwind/RTS1	Ethylbenzene	<0.007
11/24/97	08:15	Downwind/RTS1	Toluene	0.004
11/24/97	08:15	Downwind/RTS1	Xylenes	<0.009
11/24/97	09:45	Upwind/RTS3	Benzene	0.005
11/24/97	09:45	Upwind/RTS3	Ethylbenzene	0.011
11/24/97	09:45	Upwind/RTS3	Toluene	0.010
11/24/97	09:45	Upwind/RTS3	Xylenes	<0.009
11/24/97	10:15	Downwind/RTS1	Benzene	0.005
11/24/97	10:15	Downwind/RTS1	Ethylbenzene	<0.007
11/24/97	10:15	Downwind/RTS1	Toluene	0.007
11/24/97	10:15	Downwind/RTS1	Xylenes	<0.009
11/24/97	11:45	Upwind/RTS3	Benzene	<0.001
11/24/97	11:45	Upwind/RTS3	Ethylbenzene	<0.007
11/24/97	11:45	Upwind/RTS3	Toluene	0.004
11/24/97	11:45	Upwind/RTS3	Xylenes	<0.009
11/24/97	12:15	Downwind/RTS1	Benzene	<0.001
11/24/97	12:15	Downwind/RTS1	Ethylbenzene	<0.007
11/24/97	12:15	Downwind/RTS1	Toluene	0.004
11/24/97	12:15	Downwind/RTS1	Xylenes	<0.009
11/24/97	13:45	Upwind/RTS3	Benzene	<0.001
11/24/97	13:45	Upwind/RTS3	Ethylbenzene	<0.007
11/24/97	13:45	Upwind/RTS3	Toluene	<0.002
11/24/97	13:45	Upwind/RTS3	Xylenes	<0.009
11/24/97	14:15	Downwind/RTS1	Benzene	<0.001
11/24/97	14:15	Downwind/RTS1	Ethylbenzene	<0.007
11/24/97	14:15	Downwind/RTS1	Toluene	<0.002
11/24/97	14:15	Downwind/RTS1	Xylenes	<0.009
11/24/97	15:45	Upwind/RTS3	Benzene	<0.001
11/24/97	15:45	Upwind/RTS3	Ethylbenzene	<0.007

**New York State Electric & Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Voyager Portable Gas Chromatograph Results**

Date	Time	Location/ Station	Compound	Measured Concentration (ppm)
11/24/97	15:45	Upwind/RTS3	Toluene	<0.002
11/24/97	15:45	Upwind/RTS3	Xylenes	<0.009
11/24/97	16:15	Downwind/RTS1	Benzene	0.002
11/24/97	16:15	Downwind/RTS1	Ethylbenzene	<0.007
11/24/97	16:15	Downwind/RTS1	Toluene	0.003
11/24/97	16:15	Downwind/RTS1	Xylenes	<0.009
11/25/97	09:15	Upwind/RTS3	Benzene	<0.001
11/25/97	09:15	Upwind/RTS3	Ethylbenzene	<0.007
11/25/97	09:15	Upwind/RTS3	Toluene	<0.002
11/25/97	09:15	Upwind/RTS3	Xylenes	<0.009
11/25/97	09:45	Downwind/RTS1	Benzene	<0.001
11/25/97	09:45	Downwind/RTS1	Ethylbenzene	<0.007
11/25/97	09:45	Downwind/RTS1	Toluene	<0.002
11/25/97	09:45	Downwind/RTS1	Xylenes	<0.009
11/25/97	11:15	Upwind/RTS3	Benzene	<0.001
11/25/97	11:15	Upwind/RTS3	Ethylbenzene	<0.007
11/25/97	11:15	Upwind/RTS3	Toluene	<0.002
11/25/97	11:15	Upwind/RTS3	Xylenes	<0.009
11/25/97	11:45	Downwind/RTS1	Benzene	<0.001
11/25/97	11:45	Downwind/RTS1	Ethylbenzene	<0.007
11/25/97	11:45	Downwind/RTS1	Toluene	<0.002
11/25/97	11:45	Downwind/RTS1	Xylenes	<0.009
11/25/97	13:15	Upwind/RTS3	Benzene	<0.001
11/25/97	13:15	Upwind/RTS3	Ethylbenzene	<0.007
11/25/97	13:15	Upwind/RTS3	Toluene	<0.002
11/25/97	13:15	Upwind/RTS3	Xylenes	<0.009
11/25/97	13:45	Downwind/RTS1	Benzene	<0.001
11/25/97	13:45	Downwind/RTS1	Ethylbenzene	<0.007
11/25/97	13:45	Downwind/RTS1	Toluene	<0.002
11/25/97	13:45	Downwind/RTS1	Xylenes	<0.009

**New York State Electric & Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Voyager Portable Gas Chromatograph Results**

Date	Time	Location/ Station	Compound	Measured Concentration (ppm)
12/01/97	10:20	Upwind/RTS3	Benzene	<0.001
12/01/97	10:20	Upwind/RTS3	Ethylbenzene	<0.007
12/01/97	10:20	Upwind/RTS3	Toluene	<0.002
12/01/97	10:20	Upwind/RTS3	Xylenes	<0.009
12/01/97	10:50	Downwind/RTS1	Benzene	<0.001
12/01/97	10:50	Downwind/RTS1	Ethylbenzene	<0.007
12/01/97	10:50	Downwind/RTS1	Toluene	<0.002
12/01/97	10:50	Downwind/RTS1	Xylenes	<0.009
12/01/97	12:20	Upwind/RTS3	Benzene	<0.001
12/01/97	12:20	Upwind/RTS3	Ethylbenzene	<0.007
12/01/97	12:20	Upwind/RTS3	Toluene	<0.002
12/01/97	12:20	Upwind/RTS3	Xylenes	<0.009
12/01/97	12:50	Downwind/RTS1	Benzene	<0.001
12/01/97	12:50	Downwind/RTS1	Ethylbenzene	<0.007
12/01/97	12:50	Downwind/RTS1	Toluene	<0.002
12/01/97	12:50	Downwind/RTS1	Xylenes	<0.009
12/02/97	07:40	Upwind/RTS3	Benzene	<0.001
12/02/97	07:40	Upwind/RTS3	Ethylbenzene	<0.007
12/02/97	07:40	Upwind/RTS3	Toluene	<0.002
12/02/97	07:40	Upwind/RTS3	Xylenes	<0.009
12/02/97	08:10	Downwind/RTS1	Benzene	<0.001
12/02/97	08:10	Downwind/RTS1	Ethylbenzene	<0.007
12/02/97	08:10	Downwind/RTS1	Toluene	<0.002
12/02/97	08:10	Downwind/RTS1	Xylenes	<0.009
12/02/97	09:40	Upwind/RTS3	Benzene	<0.001
12/02/97	09:40	Upwind/RTS3	Ethylbenzene	<0.007
12/02/97	09:40	Upwind/RTS3	Toluene	<0.002
12/02/97	09:40	Upwind/RTS3	Xylenes	<0.009
12/02/97	10:10	Downwind/RTS1	Benzene	<0.001
12/02/97	10:10	Downwind/RTS1	Ethylbenzene	<0.007

**New York State Electric & Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Voyager Portable Gas Chromatograph Results**

Date	Time	Location/ Station	Compound	Measured Concentration (ppm)
12/02/97	10:10	Downwind/RTS1	Toluene	<0.002
12/02/97	10:10	Downwind/RTS1	Xylenes	<0.009
12/02/97	11:40	Upwind/RTS3	Benzene	<0.001
12/02/97	11:40	Upwind/RTS3	Ethylbenzene	<0.007
12/02/97	11:40	Upwind/RTS3	Toluene	<0.002
12/02/97	11:40	Upwind/RTS3	Xylenes	<0.009
12/02/97	12:10	Downwind/RTS1	Benzene	<0.001
12/02/97	12:10	Downwind/RTS1	Ethylbenzene	<0.007
12/02/97	12:10	Downwind/RTS1	Toluene	<0.002
12/02/97	12:10	Downwind/RTS1	Xylenes	<0.009
12/02/97	13:40	Upwind/RTS3	Benzene	<0.001
12/02/97	13:40	Upwind/RTS3	Ethylbenzene	<0.007
12/02/97	13:40	Upwind/RTS3	Toluene	<0.002
12/02/97	13:40	Upwind/RTS3	Xylenes	<0.009
12/02/97	14:10	Downwind/RTS1	Benzene	<0.001
12/02/97	14:10	Downwind/RTS1	Ethylbenzene	<0.007
12/02/97	14:10	Downwind/RTS1	Toluene	<0.002
12/02/97	14:10	Downwind/RTS1	Xylenes	<0.009
12/03/97	07:30	Upwind/RTS3	Benzene	<0.001
12/03/97	07:30	Upwind/RTS3	Ethylbenzene	<0.007
12/03/97	07:30	Upwind/RTS3	Toluene	<0.002
12/03/97	07:30	Upwind/RTS3	Xylenes	<0.009
12/03/97	08:00	Downwind/RTS1	Benzene	<0.001
12/03/97	08:00	Downwind/RTS1	Ethylbenzene	<0.007
12/03/97	08:00	Downwind/RTS1	Toluene	<0.002
12/03/97	08:00	Downwind/RTS1	Xylenes	<0.009
12/03/97	09:30	Upwind/RTS3	Benzene	<0.001
12/03/97	09:30	Upwind/RTS3	Ethylbenzene	<0.007
12/03/97	09:30	Upwind/RTS3	Toluene	<0.002
12/03/97	09:30	Upwind/RTS3	Xylenes	<0.009

**New York State Electric & Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Voyager Portable Gas Chromatograph Results**

Date	Time	Location/ Station	Compound	Measured Concentration (ppm)
12/03/97	10:00	Downwind/RTS1	Benzene	<0.001
12/03/97	10:00	Downwind/RTS1	Ethylbenzene	<0.007
12/03/97	10:00	Downwind/RTS1	Toluene	<0.002
12/03/97	10:00	Downwind/RTS1	Xylenes	<0.009
12/03/97	11:30	Upwind/RTS2	Benzene	<0.001
12/03/97	11:30	Upwind/RTS2	Ethylbenzene	<0.007
12/03/97	11:30	Upwind/RTS2	Toluene	<0.002
12/03/97	11:30	Upwind/RTS2	Xylenes	<0.009
12/03/97	12:00	Downwind/RTS4	Benzene	<0.001
12/03/97	12:00	Downwind/RTS4	Ethylbenzene	<0.007
12/03/97	12:00	Downwind/RTS4	Toluene	<0.002
12/03/97	12:00	Downwind/RTS4	Xylenes	<0.009
12/03/97	13:30	Upwind/RTS2	Benzene	<0.001
12/03/97	13:30	Upwind/RTS2	Ethylbenzene	<0.007
12/03/97	13:30	Upwind/RTS2	Toluene	<0.002
12/03/97	13:30	Upwind/RTS2	Xylenes	<0.009
12/03/97	14:00	Downwind/RTS4	Benzene	<0.001
12/03/97	14:00	Downwind/RTS4	Ethylbenzene	<0.007
12/03/97	14:00	Downwind/RTS4	Toluene	<0.002
12/03/97	14:00	Downwind/RTS4	Xylenes	<0.009
12/04/97	14:00	Upwind/RTS3	Benzene	<0.001
12/04/97	14:00	Upwind/RTS3	Ethylbenzene	<0.007
12/04/97	14:00	Upwind/RTS3	Toluene	<0.002
12/04/97	14:00	Upwind/RTS3	Xylenes	<0.009
12/04/97	14:30	Downwind/RTS1	Benzene	<0.001
12/04/97	14:30	Downwind/RTS1	Ethylbenzene	<0.007
12/04/97	14:30	Downwind/RTS1	Toluene	<0.002
12/04/97	14:30	Downwind/RTS1	Xylenes	<0.009
12/05/97	09:30	Upwind/RTS3	Benzene	<0.001
12/05/97	09:30	Upwind/RTS3	Ethylbenzene	<0.007

**New York State Electric & Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Voyager Portable Gas Chromatograph Results**

Date	Time	Location/ Station	Compound	Measured Concentration (ppm)
12/05/97	09:30	Upwind/RTS3	Toluene	<0.002
12/05/97	09:30	Upwind/RTS3	Xylenes	<0.009
12/05/97	10:00	Downwind/RTS1	Benzene	<0.001
12/05/97	10:00	Downwind/RTS1	Ethylbenzene	<0.007
12/05/97	10:00	Downwind/RTS1	Toluene	<0.002
12/05/97	10:00	Downwind/RTS1	Xylenes	<0.009
12/09/97	07:45	Upwind/RTS3	Benzene	<0.001
12/09/97	07:45	Upwind/RTS3	Ethylbenzene	<0.007
12/09/97	07:45	Upwind/RTS3	Toluene	<0.002
12/09/97	07:45	Upwind/RTS3	Xylenes	<0.009
12/09/97	08:15	Downwind/RTS1	Benzene	<0.001
12/09/97	08:15	Downwind/RTS1	Ethylbenzene	<0.007
12/09/97	08:15	Downwind/RTS1	Toluene	<0.002
12/09/97	08:15	Downwind/RTS1	Xylenes	<0.009
12/09/97	10:15	Downwind/RTS4	Benzene	<0.001
12/09/97	10:15	Downwind/RTS4	Ethylbenzene	<0.007
12/09/97	10:15	Downwind/RTS4	Toluene	<0.002
12/09/97	10:15	Downwind/RTS4	Xylenes	<0.009
12/09/97	11:45	Upwind/RTS2	Benzene	<0.001
12/09/97	11:45	Upwind/RTS2	Ethylbenzene	<0.007
12/09/97	11:45	Upwind/RTS2	Toluene	<0.002
12/09/97	11:45	Upwind/RTS2	Xylenes	<0.009
12/09/97	12:15	Downwind/RTS4	Benzene	<0.001
12/09/97	12:15	Downwind/RTS4	Ethylbenzene	<0.007
12/09/97	12:15	Downwind/RTS4	Toluene	<0.002
12/09/97	12:15	Downwind/RTS4	Xylenes	<0.009
12/09/97	13:45	Upwind/RTS2	Benzene	<0.001
12/09/97	13:45	Upwind/RTS2	Ethylbenzene	<0.007
12/09/97	13:45	Upwind/RTS2	Toluene	<0.002
12/09/97	13:45	Upwind/RTS2	Xylenes	<0.009

**New York State Electric & Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Voyager Portable Gas Chromatograph Results**

Date	Time	Location/ Station	Compound	Measured Concentration (ppm)
12/09/97	14:15	Downwind/RTS4	Benzene	<0.001
12/09/97	14:15	Downwind/RTS4	Ethylbenzene	<0.007
12/09/97	14:15	Downwind/RTS4	Toluene	<0.002
12/09/97	14:15	Downwind/RTS4	Xylenes	<0.009
12/10/97	09:15	Upwind/RTS2	Benzene	<0.001
12/10/97	09:15	Upwind/RTS2	Ethylbenzene	<0.007
12/10/97	09:15	Upwind/RTS2	Toluene	<0.002
12/10/97	09:15	Upwind/RTS2	Xylenes	<0.009
12/10/97	09:45	Downwind/RTS4	Benzene	<0.001
12/10/97	09:45	Downwind/RTS4	Ethylbenzene	<0.007
12/10/97	09:45	Downwind/RTS4	Toluene	<0.002
12/10/97	09:45	Downwind/RTS4	Xylenes	<0.009
12/10/97	11:15	Upwind/RTS3	Benzene	0.003
12/10/97	11:15	Upwind/RTS3	Ethylbenzene	0.007
12/10/97	11:15	Upwind/RTS3	Toluene	0.004
12/10/97	11:15	Upwind/RTS3	Xylenes	<0.009
12/10/97	13:15	Upwind/RTS1	Benzene	<0.001
12/10/97	13:15	Upwind/RTS1	Ethylbenzene	<0.007
12/10/97	13:15	Upwind/RTS1	Toluene	<0.002
12/10/97	13:15	Upwind/RTS1	Xylenes	<0.009
12/10/97	13:45	Downwind/RTS3	Benzene	<0.001
12/10/97	13:45	Downwind/RTS3	Ethylbenzene	<0.007
12/10/97	13:45	Downwind/RTS3	Toluene	<0.002
12/10/97	13:45	Downwind/RTS3	Xylenes	<0.009
12/11/97	10:15	Upwind/RTS1	Benzene	0.003
12/11/97	10:15	Upwind/RTS1	Ethylbenzene	0.016
12/11/97	10:15	Upwind/RTS1	Toluene	0.011
12/11/97	10:15	Upwind/RTS1	Xylenes	<0.009
12/11/97	10:45	Downwind/RTS3	Benzene	0.004
12/11/97	10:45	Downwind/RTS3	Ethylbenzene	<0.007

**New York State Electric & Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Voyager Portable Gas Chromatograph Results**

Date	Time	Location/ Station	Compound	Measured Concentration (ppm)
12/11/97	10:45	Downwind/RTS3	Toluene	0.006
12/11/97	10:45	Downwind/RTS3	Xylenes	<0.009
12/11/97	12:15	Upwind/RTS1	Benzene	<0.001
12/11/97	12:15	Upwind/RTS1	Ethylbenzene	<0.007
12/11/97	12:15	Upwind/RTS1	Toluene	<0.002
12/11/97	12:15	Upwind/RTS1	Xylenes	<0.009
12/11/97	12:45	Downwind/RTS3	Benzene	<0.001
12/11/97	12:45	Downwind/RTS3	Ethylbenzene	<0.007
12/11/97	12:45	Downwind/RTS3	Toluene	<0.002
12/11/97	12:45	Downwind/RTS3	Xylenes	<0.009
12/11/97	14:15	Upwind/RTS1	Benzene	<0.001
12/11/97	14:15	Upwind/RTS1	Ethylbenzene	<0.007
12/11/97	14:15	Upwind/RTS1	Toluene	<0.002
12/11/97	14:15	Upwind/RTS1	Xylenes	<0.009
12/11/97	14:45	Downwind/RTS3	Benzene	0.005
12/11/97	14:45	Downwind/RTS3	Ethylbenzene	<0.007
12/11/97	14:45	Downwind/RTS3	Toluene	0.010
12/11/97	14:45	Downwind/RTS3	Xylenes	<0.009
12/12/97	08:45	Upwind/RTS3	Benzene	<0.001
12/12/97	08:45	Upwind/RTS3	Ethylbenzene	<0.007
12/12/97	08:45	Upwind/RTS3	Toluene	<0.002
12/12/97	08:45	Upwind/RTS3	Xylenes	<0.009
12/12/97	09:15	Downwind/RTS1	Benzene	0.004
12/12/97	09:15	Downwind/RTS1	Ethylbenzene	<0.007
12/12/97	09:15	Downwind/RTS1	Toluene	0.004
12/12/97	09:15	Downwind/RTS1	Xylenes	<0.009
12/12/97	10:45	Upwind/RTS3	Benzene	<0.001
12/12/97	10:45	Upwind/RTS3	Ethylbenzene	<0.007
12/12/97	10:45	Upwind/RTS3	Toluene	<0.002
12/12/97	10:45	Upwind/RTS3	Xylenes	<0.009

**New York State Electric & Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Voyager Portable Gas Chromatograph Results**

Date	Time	Location/ Station	Compound	Measured Concentration (ppm)
12/12/97	11:15	Downwind/RTS1	Benzene	<0.001
12/12/97	11:15	Downwind/RTS1	Ethylbenzene	<0.007
12/12/97	11:15	Downwind/RTS1	Toluene	<0.002
12/12/97	11:15	Downwind/RTS1	Xylenes	<0.009
12/12/97	12:45	Upwind/RTS3	Benzene	<0.001
12/12/97	12:45	Upwind/RTS3	Ethylbenzene	<0.007
12/12/97	12:45	Upwind/RTS3	Toluene	<0.002
12/12/97	12:45	Upwind/RTS3	Xylenes	<0.009
12/12/97	13:15	Downwind/RTS1	Benzene	0.002
12/12/97	13:15	Downwind/RTS1	Ethylbenzene	<0.007
12/12/97	13:15	Downwind/RTS1	Toluene	0.002
12/12/97	13:15	Downwind/RTS1	Xylenes	<0.009
12/12/97	14:45	Upwind/RTS3	Benzene	<0.001
12/12/97	14:45	Upwind/RTS3	Ethylbenzene	<0.007
12/12/97	14:45	Upwind/RTS3	Toluene	<0.002
12/12/97	14:45	Upwind/RTS3	Xylenes	<0.009
12/17/97	09:30	Upwind/RTS3	Benzene	0.004
12/17/97	09:30	Upwind/RTS3	Ethylbenzene	<0.007
12/17/97	09:30	Upwind/RTS3	Toluene	0.004
12/17/97	09:30	Upwind/RTS3	Xylenes	<0.009
12/17/97	10:00	Downwind/RTS1	Benzene	0.003
12/17/97	10:00	Downwind/RTS1	Ethylbenzene	<0.007
12/17/97	10:00	Downwind/RTS1	Toluene	0.002
12/17/97	10:00	Downwind/RTS1	Xylenes	<0.009
12/17/97	11:30	Upwind/RTS3	Benzene	<0.001
12/17/97	11:30	Upwind/RTS3	Ethylbenzene	<0.007
12/17/97	11:30	Upwind/RTS3	Toluene	<0.002
12/17/97	11:30	Upwind/RTS3	Xylenes	<0.009
12/17/97	12:00	Downwind/RTS1	Benzene	0.007
12/17/97	12:00	Downwind/RTS1	Ethylbenzene	<0.007

**New York State Electric & Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Voyager Portable Gas Chromatograph Results**

Date	Time	Location/ Station	Compound	Measured Concentration (ppm)
12/17/97	12:00	Downwind/RTS1	Toluene	0.006
12/17/97	12:00	Downwind/RTS1	Xylenes	<0.009
12/17/97	13:30	Upwind/RTS3	Benzene	<0.001
12/17/97	13:30	Upwind/RTS3	Ethylbenzene	<0.007
12/17/97	13:30	Upwind/RTS3	Toluene	<0.002
12/17/97	13:30	Upwind/RTS3	Xylenes	<0.009
12/17/97	14:00	Downwind/RTS1	Benzene	0.002
12/17/97	14:00	Downwind/RTS1	Ethylbenzene	<0.007
12/17/97	14:00	Downwind/RTS1	Toluene	<0.002
12/17/97	14:00	Downwind/RTS1	Xylenes	<0.009
12/18/97	07:30	Upwind/RTS3	Benzene	0.005
12/18/97	07:30	Upwind/RTS3	Ethylbenzene	<0.007
12/18/97	07:30	Upwind/RTS3	Toluene	<0.002
12/18/97	07:30	Upwind/RTS3	Xylenes	<0.009
12/18/97	08:00	Downwind/RTS1	Benzene	0.002
12/18/97	08:00	Downwind/RTS1	Ethylbenzene	<0.007
12/18/97	08:00	Downwind/RTS1	Toluene	0.003
12/18/97	08:00	Downwind/RTS1	Xylenes	<0.009
12/18/97	09:30	Upwind/RTS3	Benzene	0.001
12/18/97	09:30	Upwind/RTS3	Ethylbenzene	<0.007
12/18/97	09:30	Upwind/RTS3	Toluene	<0.002
12/18/97	09:30	Upwind/RTS3	Xylenes	<0.009
12/18/97	10:00	Downwind/RTS1	Benzene	0.001
12/18/97	10:00	Downwind/RTS1	Ethylbenzene	<0.007
12/18/97	10:00	Downwind/RTS1	Toluene	0.002
12/18/97	10:00	Downwind/RTS1	Xylenes	<0.009
12/18/97	11:30	Upwind/RTS3	Benzene	<0.001
12/18/97	11:30	Upwind/RTS3	Ethylbenzene	<0.007
12/18/97	11:30	Upwind/RTS3	Toluene	<0.002
12/18/97	11:30	Upwind/RTS3	Xylenes	<0.009

**New York State Electric & Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Voyager Portable Gas Chromatograph Results**

Date	Time	Location/ Station	Compound	Measured Concentration (ppm)
12/18/97	12:00	Downwind/RTS1	Benzene	0.001
12/18/97	12:00	Downwind/RTS1	Ethylbenzene	<0.007
12/18/97	12:00	Downwind/RTS1	Toluene	0.003
12/18/97	12:00	Downwind/RTS1	Xylenes	<0.009
12/18/97	13:30	Upwind/RTS3	Benzene	<0.001
12/18/97	13:30	Upwind/RTS3	Ethylbenzene	<0.007
12/18/97	13:30	Upwind/RTS3	Toluene	<0.002
12/18/97	13:30	Upwind/RTS3	Xylenes	<0.009
12/18/97	14:00	Downwind/RTS1	Benzene	0.002
12/18/97	14:00	Downwind/RTS1	Ethylbenzene	<0.007
12/18/97	14:00	Downwind/RTS1	Toluene	0.004
12/18/97	14:00	Downwind/RTS1	Xylenes	<0.009
12/19/97	09:30	Upwind/RTS3	Benzene	<0.001
12/19/97	09:30	Upwind/RTS3	Ethylbenzene	<0.007
12/19/97	09:30	Upwind/RTS3	Toluene	<0.002
12/19/97	09:30	Upwind/RTS3	Xylenes	<0.009
12/19/97	10:00	Downwind/RTS1	Benzene	<0.001
12/19/97	10:00	Downwind/RTS1	Ethylbenzene	<0.007
12/19/97	10:00	Downwind/RTS1	Toluene	<0.002
12/19/97	10:00	Downwind/RTS1	Xylenes	<0.009
12/19/97	13:30	Upwind/RTS3	Benzene	0.002
12/19/97	13:30	Upwind/RTS3	Ethylbenzene	<0.007
12/19/97	13:30	Upwind/RTS3	Toluene	0.003
12/19/97	13:30	Upwind/RTS3	Xylenes	<0.009
12/19/97	14:00	Downwind/RTS1	Benzene	<0.001
12/19/97	14:00	Downwind/RTS1	Ethylbenzene	<0.007
12/19/97	14:00	Downwind/RTS1	Toluene	<0.002
12/19/97	14:00	Downwind/RTS1	Xylenes	<0.009
01/02/98	07:45	Upwind/RTS3	Benzene	<0.001
01/02/98	07:45	Upwind/RTS3	Ethylbenzene	<0.007

**New York State Electric & Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Voyager Portable Gas Chromatograph Results**

Date	Time	Location/ Station	Compound	Measured Concentration (ppm)
01/02/98	07:45	Upwind/RTS3	Toluene	<0.002
01/02/98	07:45	Upwind/RTS3	Xylenes	<0.009
01/02/98	08:15	Downwind/RTS1	Benzene	<0.001
01/02/98	08:15	Downwind/RTS1	Ethylbenzene	<0.007
01/02/98	08:15	Downwind/RTS1	Toluene	<0.002
01/02/98	08:15	Downwind/RTS1	Xylenes	<0.009
01/02/98	12:45	Upwind/RTS3	Benzene	<0.001
01/02/98	12:45	Upwind/RTS3	Ethylbenzene	<0.007
01/02/98	12:45	Upwind/RTS3	Toluene	<0.002
01/02/98	12:45	Upwind/RTS3	Xylenes	<0.009
01/02/98	13:15	Downwind/RTS1	Benzene	<0.001
01/02/98	13:15	Downwind/RTS1	Ethylbenzene	<0.007
01/02/98	13:15	Downwind/RTS1	Toluene	<0.002
01/02/98	13:15	Downwind/RTS1	Xylenes	<0.009
01/05/98	08:30	Upwind/RTS3	Benzene	0.002
01/05/98	08:30	Upwind/RTS3	Ethylbenzene	<0.007
01/05/98	08:30	Upwind/RTS3	Toluene	0.003
01/05/98	08:30	Upwind/RTS3	Xylenes	<0.009
01/05/98	09:00	Downwind/RTS1	Benzene	0.001
01/05/98	09:00	Downwind/RTS1	Ethylbenzene	<0.007
01/05/98	09:00	Downwind/RTS1	Toluene	<0.002
01/05/98	09:00	Downwind/RTS1	Xylenes	<0.009
01/05/98	12:30	Upwind/RTS3	Benzene	0.001
01/05/98	12:30	Upwind/RTS3	Ethylbenzene	<0.007
01/05/98	12:30	Upwind/RTS3	Toluene	0.002
01/05/98	12:30	Upwind/RTS3	Xylenes	<0.009
01/05/98	13:00	Downwind/RTS1	Benzene	<0.001
01/05/98	13:00	Downwind/RTS1	Ethylbenzene	<0.007
01/05/98	13:00	Downwind/RTS1	Toluene	<0.002
01/05/98	13:00	Downwind/RTS1	Xylenes	<0.009

**New York State Electric & Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Voyager Portable Gas Chromatograph Results**

Date	Time	Location/ Station	Compound	Measured Concentration (ppm)
01/06/98	07:30	Upwind/RTS3	Benzene	0.002
01/06/98	07:30	Upwind/RTS3	Ethylbenzene	<0.007
01/06/98	07:30	Upwind/RTS3	Toluene	0.002
01/06/98	07:30	Upwind/RTS3	Xylenes	<0.009
01/06/98	08:00	Downwind/RTS1	Benzene	<0.001
01/06/98	08:00	Downwind/RTS1	Ethylbenzene	<0.007
01/06/98	08:00	Downwind/RTS1	Toluene	<0.002
01/06/98	08:00	Downwind/RTS1	Xylenes	<0.009
01/06/98	09:30	Upwind/RTS3	Benzene	<0.001
01/06/98	09:30	Upwind/RTS3	Ethylbenzene	<0.007
01/06/98	09:30	Upwind/RTS3	Toluene	0.003
01/06/98	09:30	Upwind/RTS3	Xylenes	<0.009
01/06/98	10:00	Downwind/RTS1	Benzene	<0.001
01/06/98	10:00	Downwind/RTS1	Ethylbenzene	<0.007
01/06/98	10:00	Downwind/RTS1	Toluene	0.003
01/06/98	10:00	Downwind/RTS1	Xylenes	<0.009
01/06/98	11:30	Upwind/RTS3	Benzene	<0.001
01/06/98	11:30	Upwind/RTS3	Ethylbenzene	<0.007
01/06/98	11:30	Upwind/RTS3	Toluene	<0.002
01/06/98	11:30	Upwind/RTS3	Xylenes	<0.009
01/06/98	12:00	Downwind/RTS1	Benzene	<0.001
01/06/98	12:00	Downwind/RTS1	Ethylbenzene	<0.007
01/06/98	12:00	Downwind/RTS1	Toluene	0.003
01/06/98	12:00	Downwind/RTS1	Xylenes	<0.009
01/06/98	13:30	Upwind/RTS3	Benzene	<0.001
01/06/98	13:30	Upwind/RTS3	Ethylbenzene	<0.007
01/06/98	13:30	Upwind/RTS3	Toluene	<0.002
01/06/98	13:30	Upwind/RTS3	Xylenes	<0.009
01/06/98	14:00	Downwind/RTS1	Benzene	<0.001
01/06/98	14:00	Downwind/RTS1	Ethylbenzene	<0.007

**New York State Electric & Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Voyager Portable Gas Chromatograph Results**

Date	Time	Location/ Station	Compound	Measured Concentration (ppm)
01/06/98	14:00	Downwind/RTS1	Toluene	<0.002
01/06/98	14:00	Downwind/RTS1	Xylenes	<0.009
01/14/98	07:30	Upwind/RTS3	Benzene	<0.001
01/14/98	07:30	Upwind/RTS3	Ethylbenzene	<0.007
01/14/98	07:30	Upwind/RTS3	Toluene	<0.002
01/14/98	07:30	Upwind/RTS3	Xylenes	<0.009
01/14/98	08:00	Downwind/RTS1	Benzene	<0.001
01/14/98	08:00	Downwind/RTS1	Ethylbenzene	<0.007
01/14/98	08:00	Downwind/RTS1	Toluene	<0.002
01/14/98	08:00	Downwind/RTS1	Xylenes	<0.009
01/14/98	09:30	Upwind/RTS3	Benzene	<0.001
01/14/98	09:30	Upwind/RTS3	Ethylbenzene	<0.007
01/14/98	09:30	Upwind/RTS3	Toluene	<0.002
01/14/98	09:30	Upwind/RTS3	Xylenes	<0.009
01/14/98	10:00	Downwind/RTS1	Benzene	<0.001
01/14/98	10:00	Downwind/RTS1	Ethylbenzene	<0.007
01/14/98	10:00	Downwind/RTS1	Toluene	<0.002
01/14/98	10:00	Downwind/RTS1	Xylenes	<0.009
01/14/98	11:30	Upwind/RTS3	Benzene	<0.001
01/14/98	11:30	Upwind/RTS3	Ethylbenzene	<0.007
01/14/98	11:30	Upwind/RTS3	Toluene	<0.002
01/14/98	11:30	Upwind/RTS3	Xylenes	<0.009
01/14/98	12:00	Downwind/RTS1	Benzene	0.001
01/14/98	12:00	Downwind/RTS1	Ethylbenzene	<0.007
01/14/98	12:00	Downwind/RTS1	Toluene	<0.002
01/14/98	12:00	Downwind/RTS1	Xylenes	<0.009
01/14/98	13:30	Upwind/RTS3	Benzene	<0.001
01/14/98	13:30	Upwind/RTS3	Ethylbenzene	<0.007
01/14/98	13:30	Upwind/RTS3	Toluene	<0.002
01/14/98	13:30	Upwind/RTS3	Xylenes	<0.009

**New York State Electric & Gas Corporation
Waterville MGP IRM Community Air Monitoring Program
Voyager Portable Gas Chromatograph Results**

Date	Time	Location/ Station	Compound	Measured Concentration (ppm)
01/14/98	14:00	Downwind/RTS1	Benzene	0.002
01/14/98	14:00	Downwind/RTS1	Ethylbenzene	<0.007
01/14/98	14:00	Downwind/RTS1	Toluene	0.010
01/14/98	14:00	Downwind/RTS1	Xylenes	<0.009
01/15/98	09:00	Upwind/RTS1	Benzene	0.001
01/15/98	09:00	Upwind/RTS1	Ethylbenzene	<0.007
01/15/98	09:00	Upwind/RTS1	Toluene	0.002
01/15/98	09:00	Upwind/RTS1	Xylenes	<0.009
01/15/98	09:30	Downwind/RTS3	Benzene	<0.001
01/15/98	09:30	Downwind/RTS3	Ethylbenzene	<0.007
01/15/98	09:30	Downwind/RTS3	Toluene	<0.002
01/15/98	09:30	Downwind/RTS3	Xylenes	<0.009
01/15/98	13:45	Upwind/RTS3	Benzene	<0.001
01/15/98	13:45	Upwind/RTS3	Ethylbenzene	<0.007
01/15/98	13:45	Upwind/RTS3	Toluene	<0.002
01/15/98	13:45	Upwind/RTS3	Xylenes	<0.009
01/15/98	14:15	Downwind/RTS1	Benzene	<0.001
01/15/98	14:15	Downwind/RTS1	Ethylbenzene	<0.007
01/15/98	14:15	Downwind/RTS1	Toluene	<0.002
01/15/98	14:15	Downwind/RTS1	Xylenes	<0.009
01/16/98	08:30	Upwind/RTS1	Benzene	0.002
01/16/98	08:30	Upwind/RTS1	Ethylbenzene	<0.007
01/16/98	08:30	Upwind/RTS1	Toluene	0.003
01/16/98	08:30	Upwind/RTS1	Xylenes	<0.009
01/16/98	09:00	Downwind/RTS3	Benzene	<0.001
01/16/98	09:00	Downwind/RTS3	Ethylbenzene	<0.007
01/16/98	09:00	Downwind/RTS3	Toluene	<0.002
01/16/98	09:00	Downwind/RTS3	Xylenes	<0.009

* The times and locations of these samples are unknown due to sample recording error.

** The shaded data indicate results which exceed the NYSDEC Air Guide-1 Short Term Guidance Concentrations (SGCs).

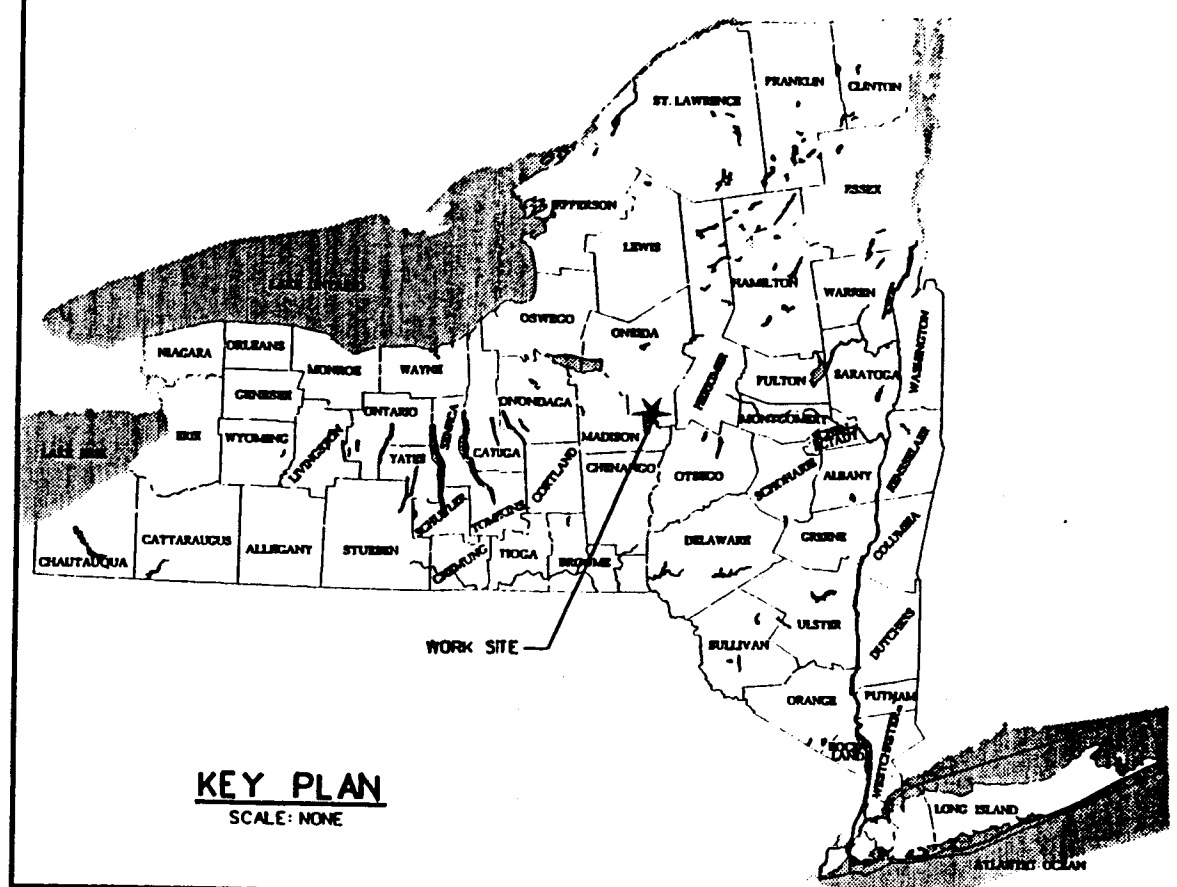
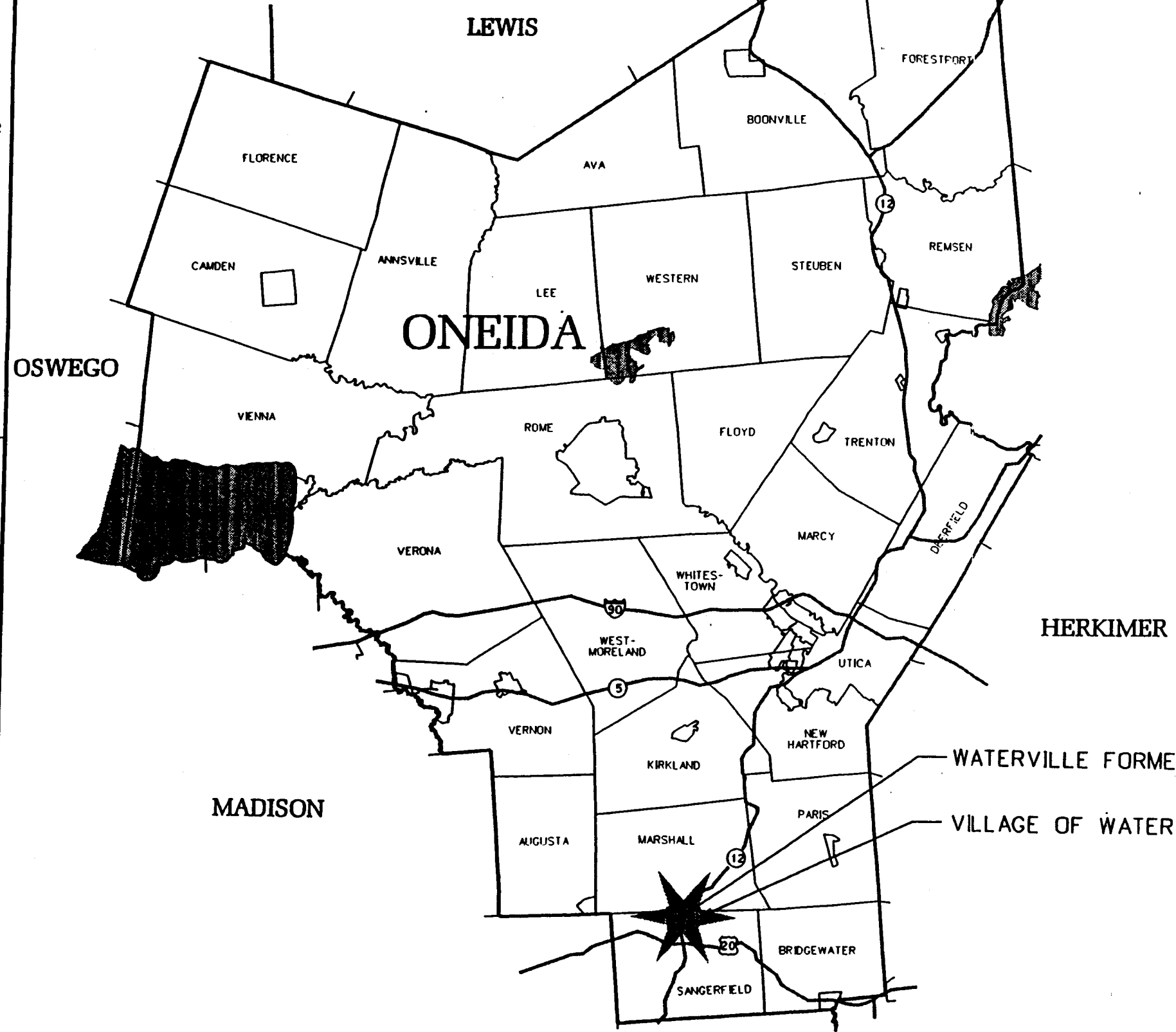
See figure 5A for RTS station locations.

jjRairres2.wp

APPENDIX F

WORK PLAN FIGURES

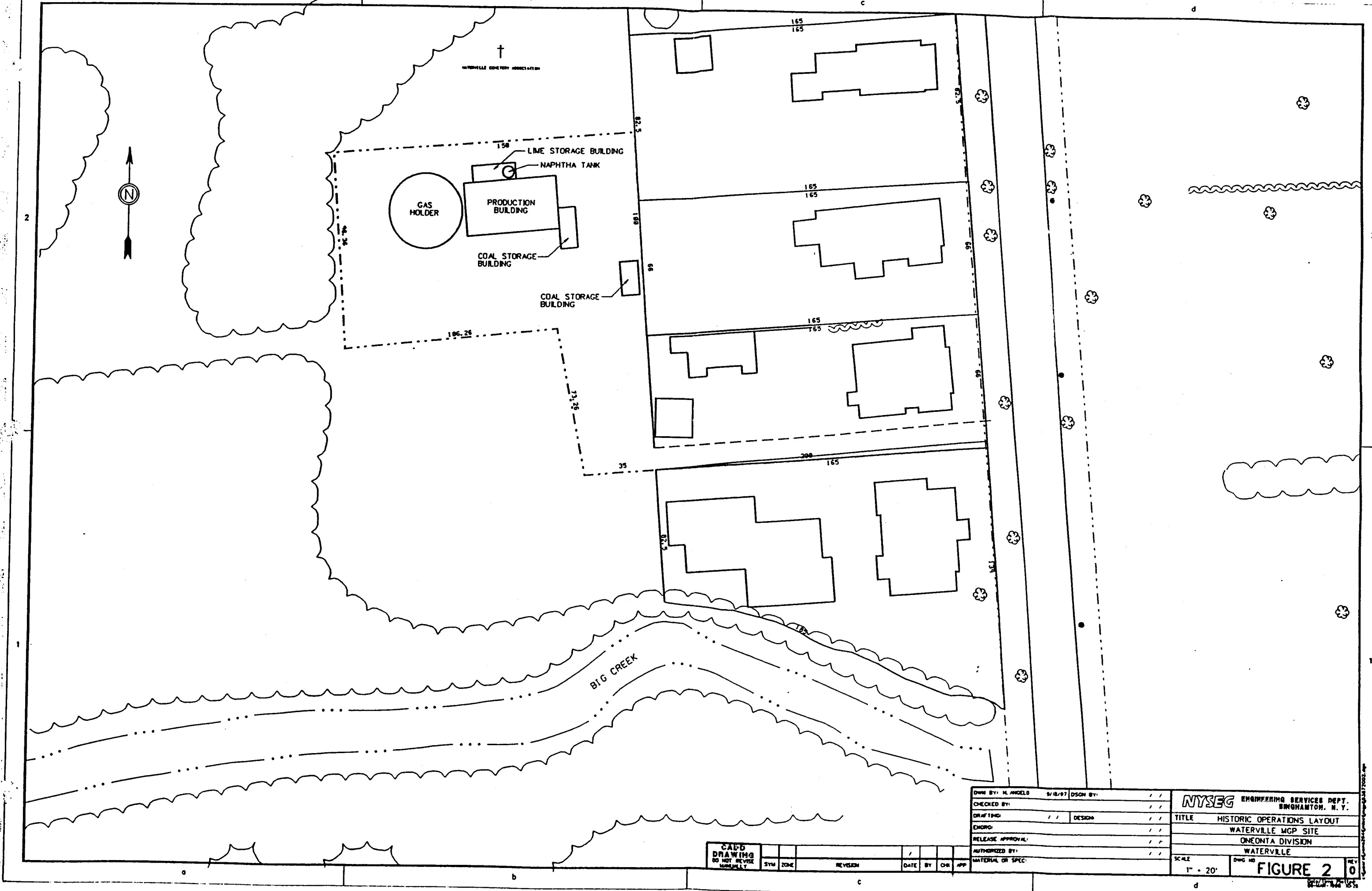
FIGURE 1	SITE LOCATION
FIGURE 2	HISTORIC OPERATIONS LAYOUT
FIGURE 3	SITE SAMPLING PLAN
FIGURE 4	SITE SETUP PLAN
FIGURE 5A	SITE OPERATION PLAN
FIGURE 5B	SECTIONS & DETAILS
FIGURE 6	SITE RECLAMATION PLAN
FIGURE 7	LIMITS OF EXCAVATION AND CONFIRMATION SAMPLING RESULTS



WATERVILLE FORMER MGP SITE
 VILLAGE OF WATERVILLE N.Y.

DRAWN BY: H. ARZEL		DATE: 9/22/97		DESIGN BY: / /	
CHECKED BY: / /		DESIGN: / /		TITLE: SITE LOCATION	
DRAWING: / /		DESIGN: / /		WATERVILLE MGP SITE	
ENGR: / /		DESIGN: / /		ONEIDA DIVISION	
RELEASE APPROVAL: / /		DESIGN: / /		WATERVILLE	
AUTHORIZED BY: / /		DESIGN: / /		SCALE: 1" = 14000'	
DATE OR SPEC: / /		DESIGN: / /		FIGURE 1 0	

CADD
 DRAWING
 NO NOT REUSE
 REUSE

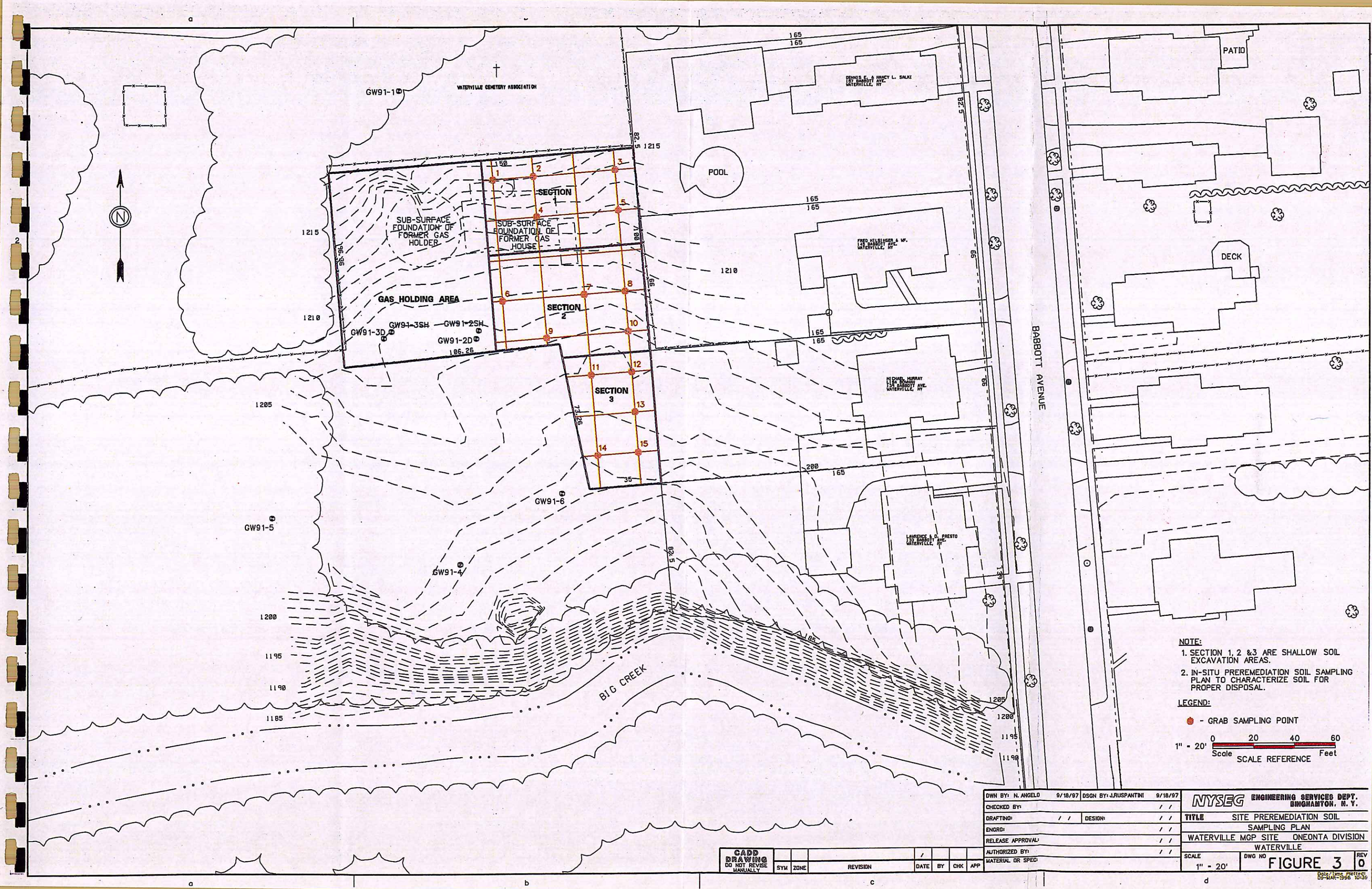


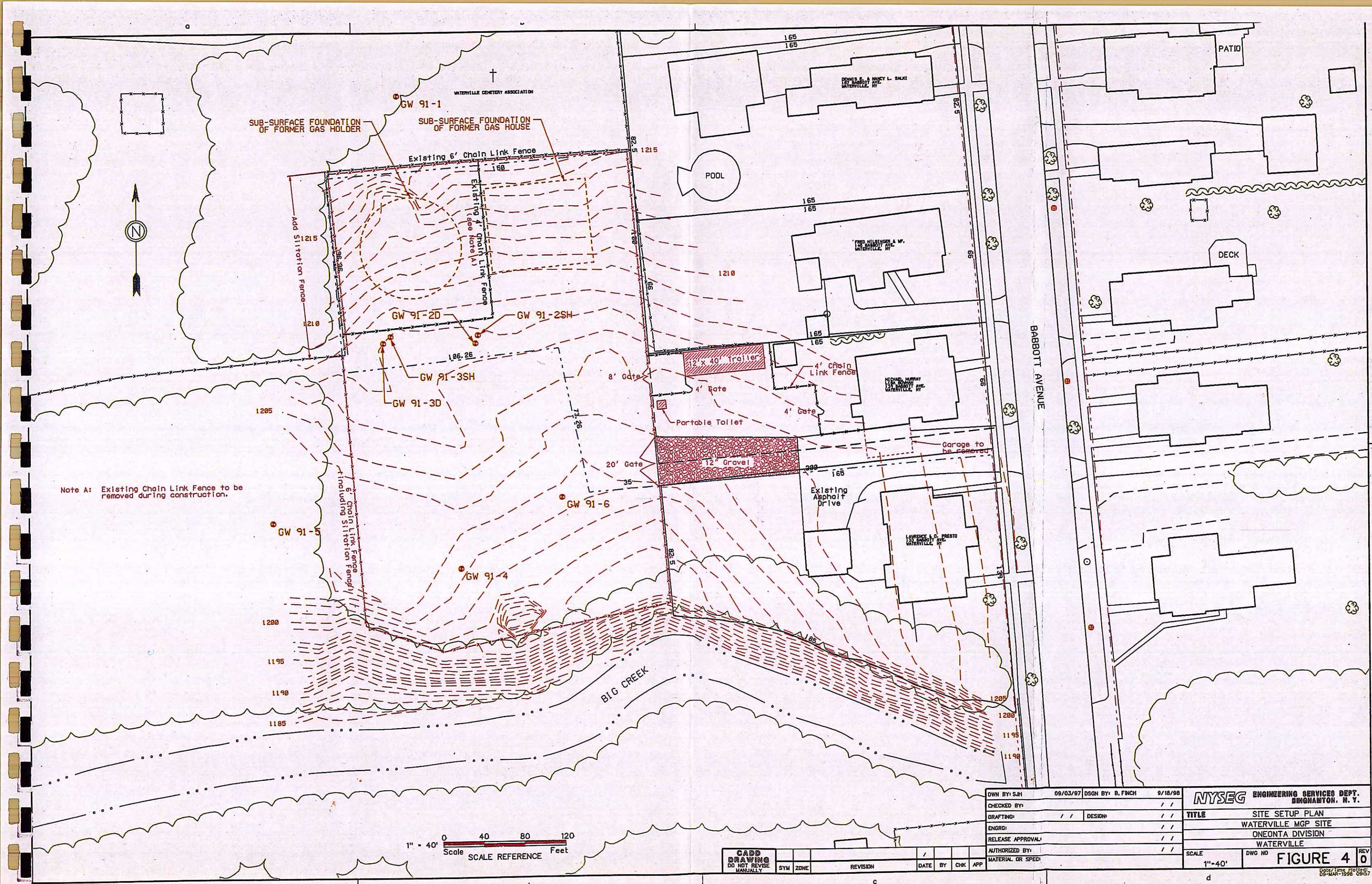
CADD
DRAWING
DO NOT REUSE
MATERIAL

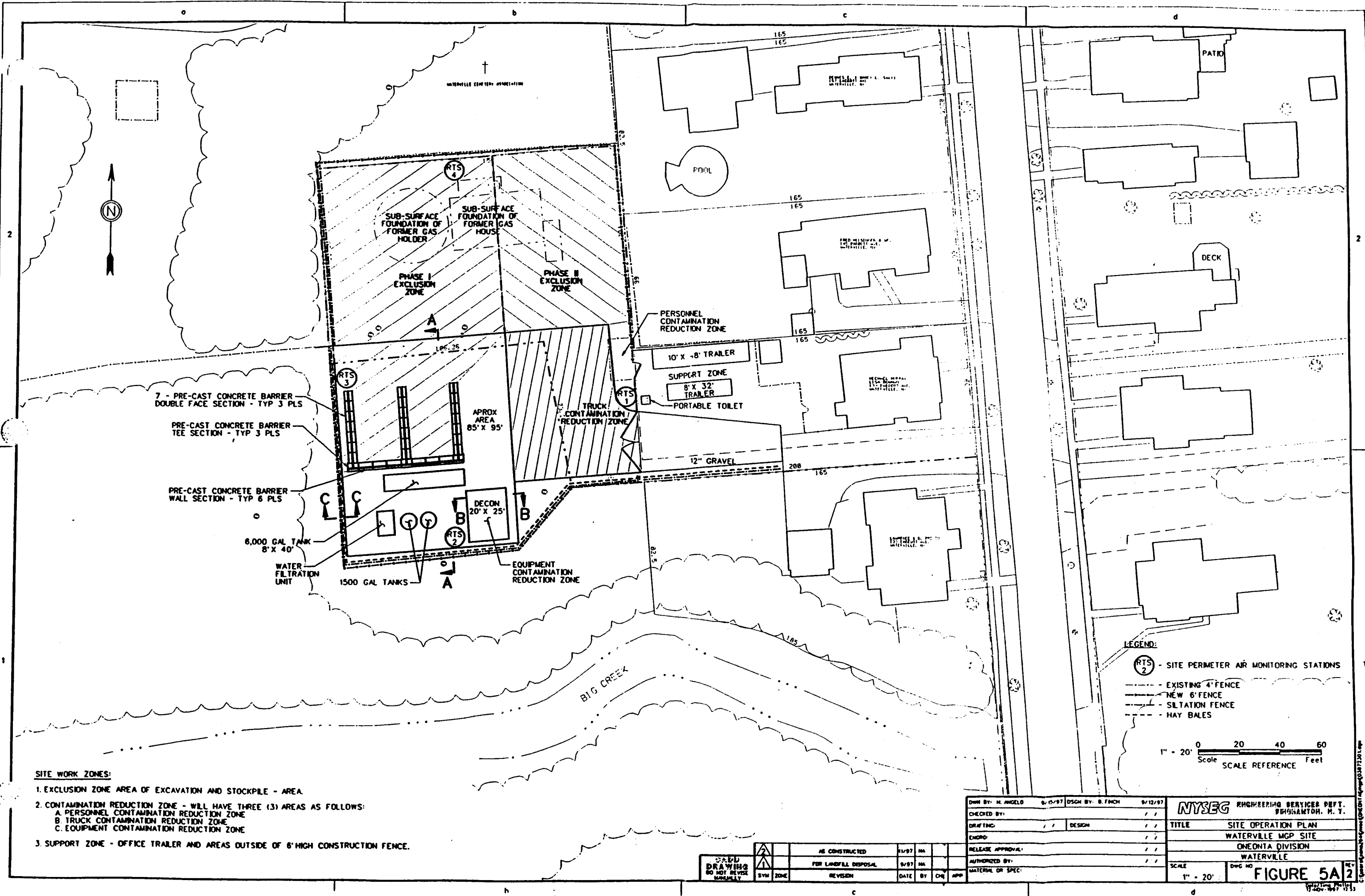
SYM	ZONE	REVISION	DATE	BY	CHK	APP

DRAWN BY: N. ANGELO	5/18/97	DESIGN BY: / /
CHECKED BY: / /		
DRAFTING: / /	DESIGN: / /	
ENGR: / /		
RELEASE APPROVAL: / /		
AUTHORIZED BY: / /		
MATERIAL OR SPEC: / /		

NYSEG ENGINEERING SERVICES DEPT. BINGHAMTON, N. Y.	
TITLE HISTORIC OPERATIONS LAYOUT	
WATERVILLE MGP SITE	
ONEONTA DIVISION	
WATERVILLE	
SCALE 1" = 20'	DWG NO FIGURE 2
	REV 0







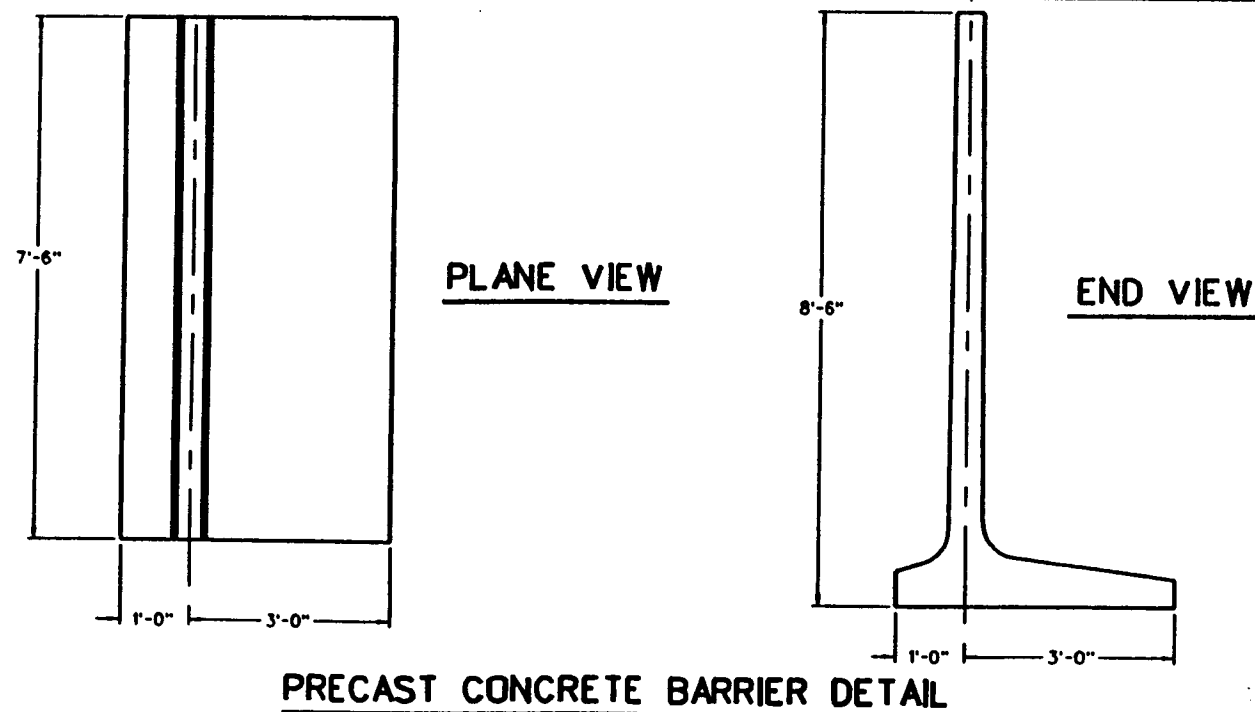
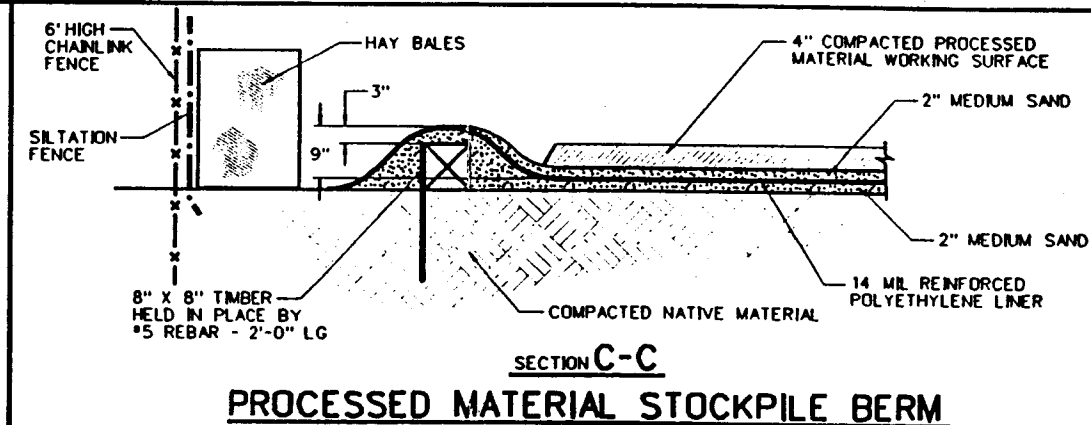
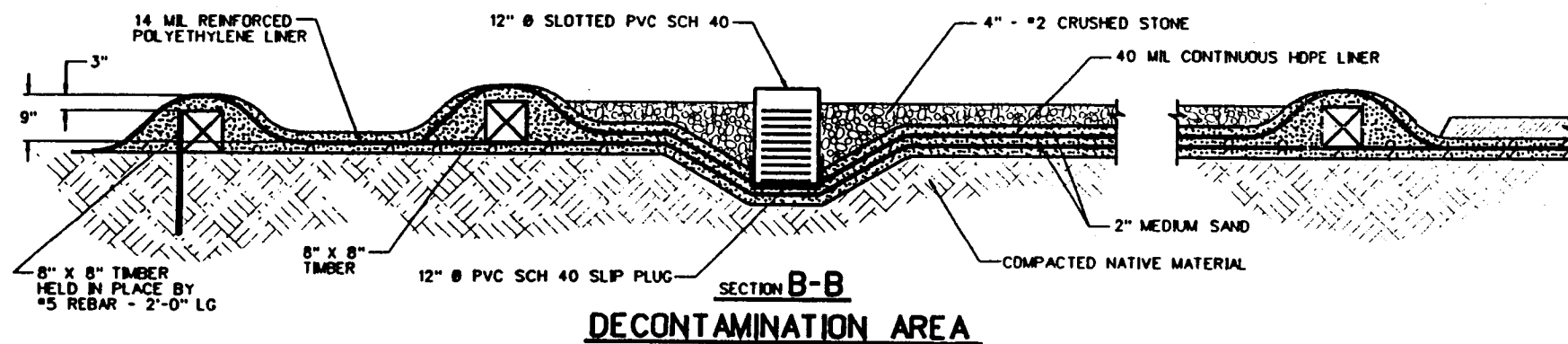
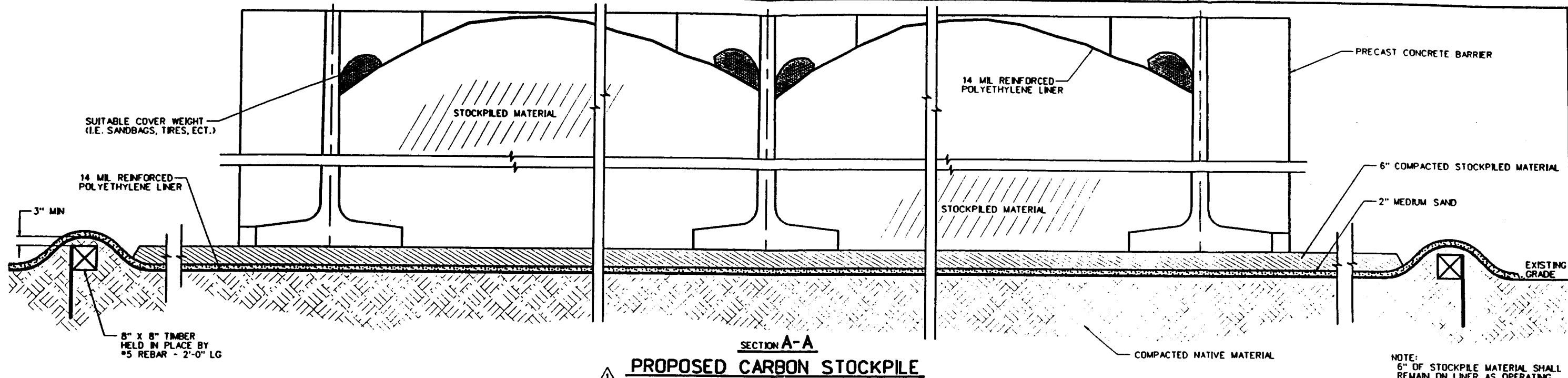
- SITE WORK ZONES:**
1. EXCLUSION ZONE AREA OF EXCAVATION AND STOCKPILE - AREA.
 2. CONTAMINATION REDUCTION ZONE - WILL HAVE THREE (3) AREAS AS FOLLOWS:
 - A. PERSONNEL CONTAMINATION REDUCTION ZONE
 - B. TRUCK CONTAMINATION REDUCTION ZONE
 - C. EQUIPMENT CONTAMINATION REDUCTION ZONE
 3. SUPPORT ZONE - OFFICE TRAILER AND AREAS OUTSIDE OF 6' HIGH CONSTRUCTION FENCE.

DRAWN BY: H. ANGELO		DESIGN BY: B. FROCH		DATE: 9/12/97	
CHECKED BY:		DESIGN:		DATE: 9/12/97	
DRAWING:		DESIGN:		DATE: 9/12/97	
ENGR:		DESIGN:		DATE: 9/12/97	
RELEASE APPROVAL:		DESIGN:		DATE: 9/12/97	
AUTHORIZED BY:		DESIGN:		DATE: 9/12/97	
MATERIAL OR SPEC:		DESIGN:		DATE: 9/12/97	
SYMBOL		REVISION		DATE BY CHK APP	
AS CONSTRUCTED		11/97		NA	
FOR LANDFILL DISPOSAL		9/97		NA	
SYMBOL		REVISION		DATE BY CHK APP	
AS CONSTRUCTED		11/97		NA	
FOR LANDFILL DISPOSAL		9/97		NA	

NYSEG ENGINEERING SERVICES DEPT.
BRIGHAMTON, N. Y.

TITLE SITE OPERATION PLAN
WATERVILLE MGP SITE
ONEONTA DIVISION
WATERVILLE

SCALE 1" = 20'
DWG NO **FIGURE 5A**



DWN BY: N. ANGELO	9/16/97	DSGN BY: B. FINCH	9/12/97
CHECKED BY:			
DRAFTING:		DESIGN:	
ENGRG:			
RELEASE APPROVAL:			
AUTHORIZED BY:			
MATERIAL OR SPEC:			
NYSEG ENGINEERING SERVICES DEPT. RINGHAMTON, N. Y.			
TITLE SECTIONS & DETAILS			
WATERVILLE MGP SITE			
ONEONTA DIVISION			
WATERVILLE			
SCALE	3/4" = 1'-0"	DWG NO.	FIGURE 5B

CADD DRAWING DO NOT REUSE	FOR LANDFILL DISPOSAL	9/97	DATE	BY	CHK	APP
SYN	ZONE	REVISION				



LEGEND:

- DRAINAGE CONTROL
- NEW 4' HIGH CHAIN LINKED FENCE
- NEW TREES
- CURB REPAIR
- NEW ASPHALT DRIVEWAY
- NEW MONITORING WELLS

NOTES:

1. ALL CONSTRUCTION EQUIPMENT AND MATERIALS WILL BE REMOVED FROM SITE.
2. ALL FENCING THAT WAS INSTALLED DURING CONSTRUCTION WILL BE REMOVED FROM SITE.
3. CONSTRUCTION ROAD WILL BE REMOVED AND DISPOSED OF BY NYSEG.
4. ROUGH GRADES THROUGHOUT THE SITE WILL BE ESTABLISHED USING COMMON FILL. APPROXIMATE PRECONSTRUCTION GRADES AND DRAINAGE PATTERNS WILL BE RESTORED. FINISHED GRADE WILL BE 4" OF LOCAL TOP SOIL. THE ENTIRE AREA WILL BE SEEDED WITH GRASS. A TOTAL OF EIGHT (8) - 2" TO 2 1/2" DIAMETER DECIDUOUS TREES WILL BE PLANTED PER OWNERS RECOMMENDATION. TREES WILL BE ANY COMBINATION OF MAPLES, DOGWOODS OR EQUIVALENT PER OWNERS RECOMMENDATION.
5. THE EXISTING DRIVEWAY WILL BE REMOVED AND DISPOSED OF BY NYSEG.
6. 8" OF ITEM #4 GRAVEL WILL BE PLACED AND COMPACTED.
7. FINISHED DRIVEWAY WILL BE 3" OF ASPHALT BINDER AND 1" OF ASPHALT TOP COAT.
8. EDGES OF ASPHALT DRIVEWAY WILL HAVE TOP SOIL BLENDED TO MATCH EXISTING GRADE AND SEEDED WITH GRASS.

1" = 15'
Scale
SCALE REFERENCE Feet

GW-91-4

GW-91-6

MW98-8S
MW98-8D

MW98-7S
MW98-7D

SS-4
GW-91-5

FRED HILSINGER & WF,
145 BABBOTT AVE.
WATERVILLE, NY

MICHAEL MURRAY
LISA BOWMAN
139 BABBOTT AVE.
WATERVILLE, NY

LAWRENCE & D. PESTO
133 BABBOTT AVE.
WATERVILLE, NY

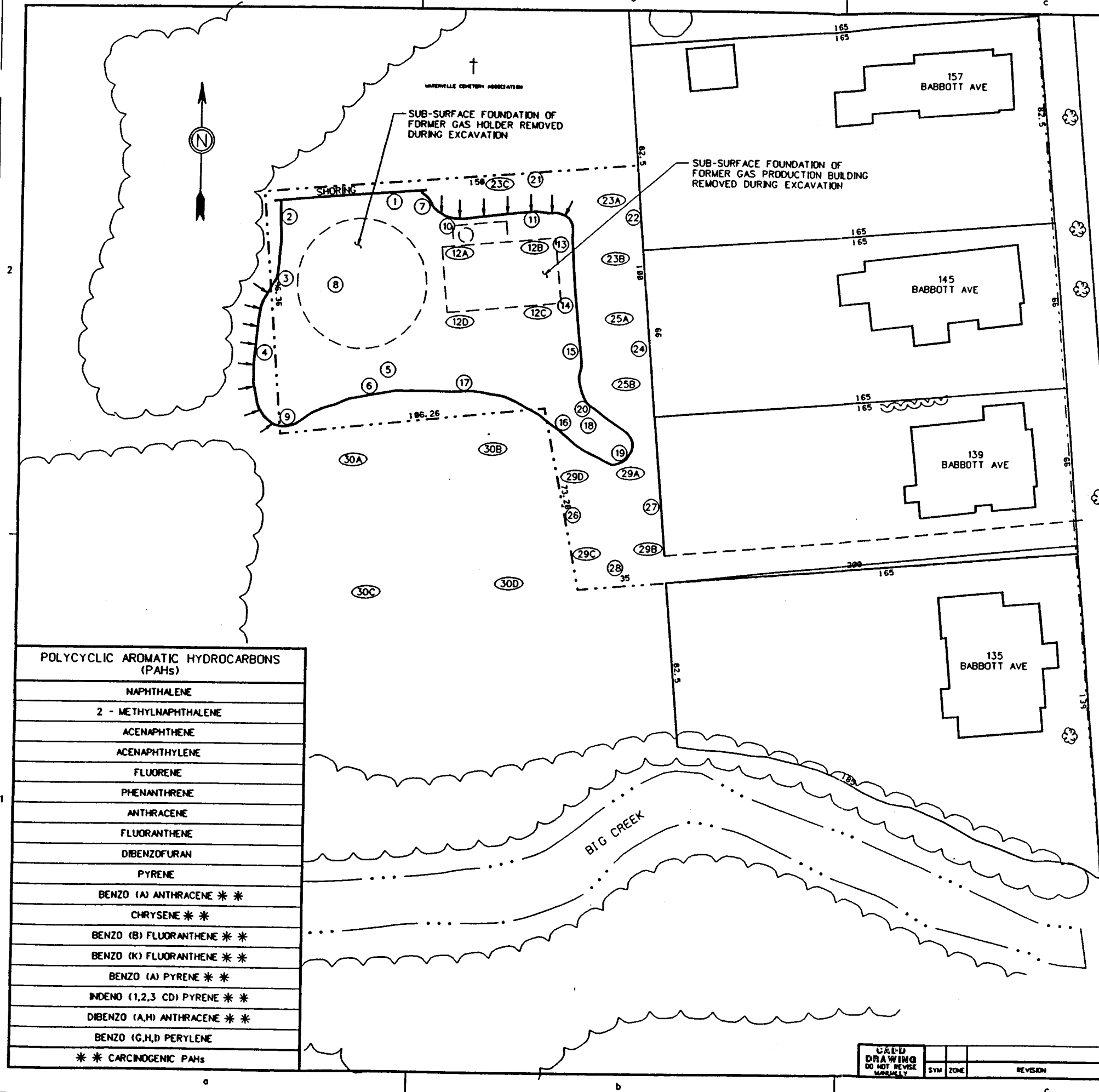
BIG CREEK

CADD
DRAWING
DO NOT REUSE
UNLESS

SYN	ZONE	REVISION	DATE	BY	CHK	APP
3		REVISED DRAINAGE CONTROL	6/98	JD		
2		ADDED LEGEND & INFORMATION ON DWG	3/98	NA		
1		1) PROPERTY LINE / DRIVE WAY	11/97	QJT		

DWN BY: N. ANGELO 9/11/97 DSGN BY: B. FINCH
CHECKED BY: / /
DRAFTING: / / DESIGN: / /
ENGRS: / /
RELEASE APPROVAL: / /
AUTHORIZED BY: / /
MATERIAL OR SPEC: / /

NYSEG ENGINEERING SERVICES DEPT.
BINGHAMTON, N. Y.
TITLE SITE RECLAMATION PLAN
WATERVILLE MGP SITE
ONEONTA DIVISION
WATERVILLE
SCALE 1" = 15' DWG NO. **FIGURE 6** REV 3



NEW YORK STATE ELECTRIC & GAS CORP. COAL TAR SOIL ANALYTICAL REPORT SUMMARY ENDPOINT CONFIRMATION SAMPLING - WATERVILLE MGP IRM REMEDIATION							
MAP NO.	SAMPLE ID	COLLECTION DATE	DEPTH BELOW EXISTING GRADE	TOTAL BENZENE (PPM)	TOTAL PAH (PPM)	CPAH (PPM)	NAPHTHALENE (PPM)
1	WTVCS12001	11/25/97	12	0.002	1.086	0.160	0.200
2	WTVCS12002	11/25/97	12	<0.005	0.575	0.084	<0.35
3	WTVCS12003	11/25/97	10	0.002	29.07	5.74	0.970
4	WTVCS12004	11/25/97	10	<0.006	0.307	0.041	0.049
5	WTVCS16008	12/3/97	12	<0.007	15.33	6.130	<0.440
6	WTVCS12010	12/3/97	10	<0.006	3.573	1.367	<0.410
7	WTVCS12012	12/4/97	10	<0.034	26.16	5.210	4.400
8	WTVCSX013	12/4/97	14	0.520*	26.66	3.470	8.100
9	WTVCS08014	12/9/97	8	<0.007	<0.440	<0.440	<0.440
10	WTVCS13016	12/12/97	10	<0.006	0.772	0.290	<0.380
11	WTVCS13017	12/12/97	10	<0.006	8.105	3.626	<0.360
12	WTVCS16019	12/12/97	12	0.095	14.51	2.180	2.000
13	WTVCS11022	12/18/97	11	<0.057	7.322	1.354	0.360
14	WTVCS11023	12/18/97	11	<0.006	0.690	0.272	<0.360
15	WTVCS06027	1/6/98	6	<0.007	<0.460	<0.460	<0.460
16	WTVCS11028	1/6/98	11	<0.008	32.18	16.26	<1.000
17	WTVCS11029	1/6/98	11	<0.007	84.73	35.30	<0.330
18	WTVCS11030	1/6/98	11	<0.007	0.720	0.250	<0.460
19	WTVCS10031	1/6/98	10	<0.007	<0.480	<0.480	<0.480
20	WTVCS10032	1/6/98	10	<0.009	0.093	<0.560	<0.560
21	WTVCSNSH01	12/18/97	2	<0.006	0.047	<0.410	<0.410
22	WTVCSESH01	12/18/97	2	<0.007	0.771	0.301	<0.440
23	WTVCSBH001	12/18/97	2	<0.062	15.41	3.060	0.360
24	WTVCSESH02	12/19/97	2	<0.006	0.343	0.177	<0.390
25	WTVCSBH002	12/19/97	2	<0.006	1.151	0.772	<0.410
26	WTVCSWSH03	12/19/97	2	<0.006	12.18	4.190	0.043
27	WTVCSESH03	12/19/97	2	<0.006	5.677	2.670	<0.380
28	WTVCSSSH03	12/19/97	2	<0.006	2.030	0.990	<0.380
29	WTVCSBH003	12/19/97	2	<0.006	3.500	1.840	<0.380
30	WTVCSBH004	1/15/98	2	<0.005	<0.350	<0.350	<0.350

* RESULTS EXCEEDS CLEANUP GOAL OF 0.1 PPM TOTAL BENZENE. SAMPLE TAKEN APPROXIMATELY 4 FEET BELOW GROUND WATER)

LEGEND:

- - CONFIRMATION SAMPLE
- - COMPOSITE CONFIRMATION SAMPLE
- - - SLOPE OF DEEP EXCAVATION
- - - LIMIT OF DEEP EXCAVATION

1" = 20' 0 20 40 60
Scale Feet
SCALE REFERENCE

OWN BY: N. ANGELO	2/20/98	DSGN BY: / /
CHECKED BY: / /		
DRAFTING: / /	DESIGN: / /	
ENGRG: / /		
RELEASE APPROVAL: / /		
AUTHORIZED BY: / /		
MATERIAL OR SPEC: / /		

NYSEG ENGINEERING SERVICES DEPT.
BROOKHAMTON, N. Y.

TITLE LIMITS OF EXCAVATION
CONFIRMATION SAMPLING RESULTS
WATERVILLE MGP SITE ONEONTA DIVISION
WATERVILLE

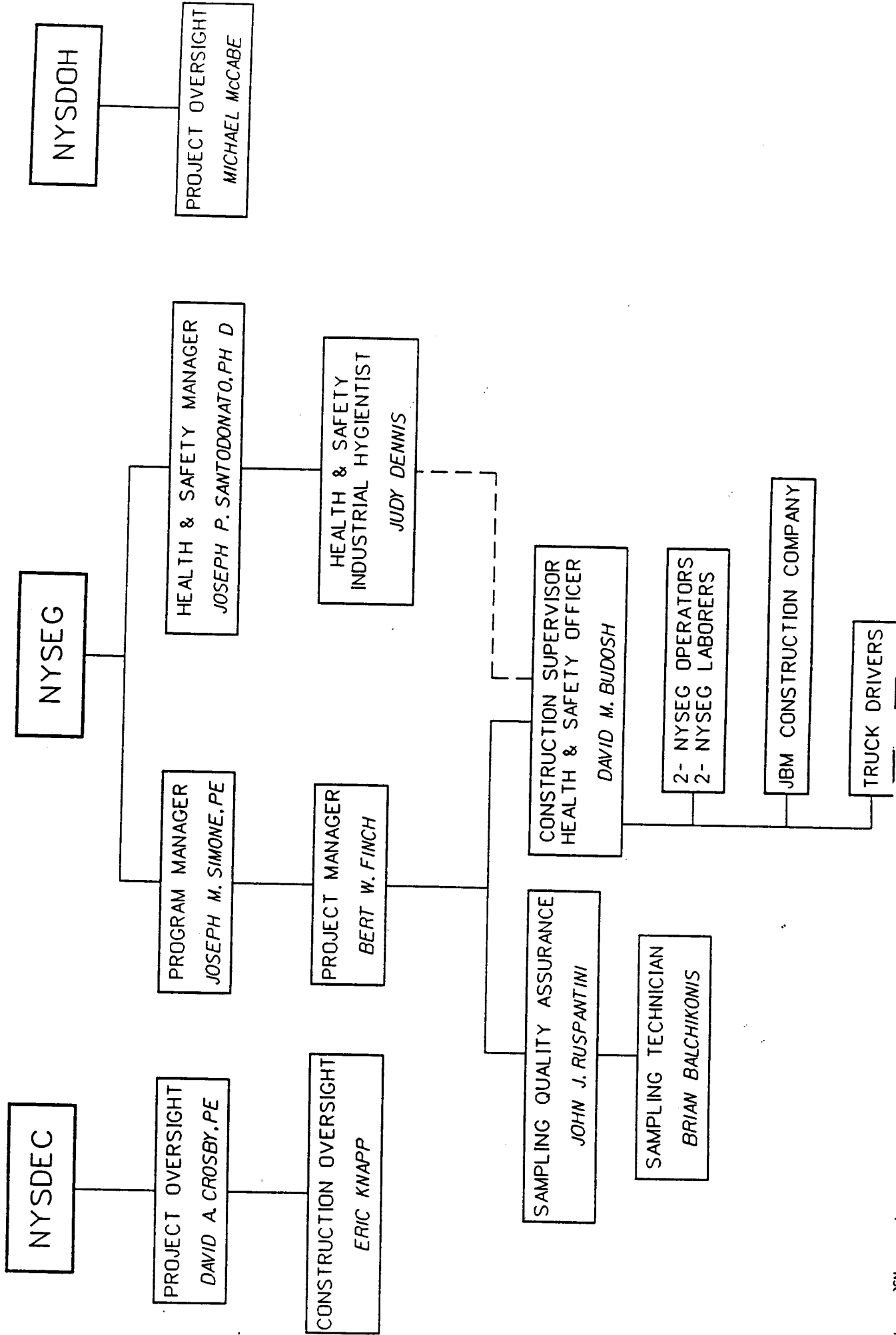
SCALE 1" = 20' DWG NO. 06372-003-001

FIGURE 7 0

APPENDIX G

ORGANIZATION STRUCTURE

ORGANIZATION STRUCTURE FOR ACTIVITIES AT WATERVILLE FORMER MGP SITE



APPENDIX H

ANALYTICAL RESULTS
FOR
POST EXCAVATION SAMPLES



Galson Laboratories

VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 25-NOV-97
Date Sampled : 25-NOV-97

Matrix : Soil
Method : SW846 8260
Units : UG/KG

Galson ID: Client ID:	L40278-1 WTVSPXX03	L40278-2 WTVSPXX04	L40278-3 WTVCS12001
Benzene	<6	560	<5
Percent Moisture (%)	17	15	9
Dilution Factor	1	5	1
Analysis Date	11/26/97	11/26/97	11/26/97

Approved by : PJT
Date : 26-NOV-97
QC by : *[Signature]*
Date : 12-2-97
NYS DOH # : 11626
Footnotes:





VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 25-NOV-97
Date Sampled : 25-NOV-97

Matrix : Soil
Method : SWB46 8260
Units : UG/KG

Galson ID:	L40278-4	L40278-5	L40278-6
Client ID:	WTVCS12002	WTVCS12003	WTVCS12004
Benzene	<5	<6	<6
Percent Moisture (%)	9	15	10
Dilution Factor	1	1	1
Analysis Date	11/26/97	11/26/97	11/26/97

Approved by : PJT
Date : 26-NOV-97
QC by : *ST*
Date : 12-1-97
NYS DOH # : 11626
Footnotes:





VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 25-NOV-97

Date Sampled : 25-NOV-97

Matrix : Soil

Method : SW846 8260

Units : UG/KG

Galson ID: Client ID:	*L40278-7 WTVCS12005	+ *L40278-8 WTVCS12006	*L40278-9 WTVCS14007
Benzene	3800	<690	2000
Percent Moisture (%)	9	10	14
Dilution Factor	2	1	2
Analysis Date	11/26/97	11/26/97	11/26/97

Approved by : PJT
Date : 26-NOV-97
QC by : ~~JP~~
Date : 11-29-97
NYS DOH # : 11626
Footnotes:

* : Sample analyzed as a medium level extract.

+ : Sample WTVCS12006 could not be analyzed at a lesser dilution due to high levels of naphthalene and other aromatic compounds.





Galson Laboratories

VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 25-NOV-97
Date Sampled : 25-NOV-97

Matrix : Soil
Method : SW846 8260
Units : UG/KG

Galson ID: Client ID:	QCB112697-1 METHOD BLANK	* QCB112697-2 METHOD BLANK
Benzene	<5	<620
Percent Moisture (%)	NA	NA
Dilution Factor	1	1
Analysis Date	11/26/97	11/26/97

Approved by : PJT
Date : 26-NOV-97
QC by : *[signature]*
Date : 11-29-97
NYS DOH # : 11626
Footnotes:

* Sample analyzed as a medium level extract.



Contract:

SDG No.: L40278

[illegible]

QC LIMITS
(84-138) #
(59-113)
(70-121)

FORM II-CLP-1

* Corresponding internal standard is not used for benzene quantitation.

المجلس الوطني للثقافة والفنون والآداب

Contract:

SAS No. :

Level: (low/med) LOW

[illegible]

SMC1 (TOL) = Toluene-d8
SMC2 (BFB) = Bromofluorobenzene
SMC3 (DCE) = 1,2-Dichloroethane-d4

QC LIMITS
(81-117)
(74-121)
(80-120)

```
# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out
```



Galson Laboratories

SEMI-VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 25-NOV-97
Date Sampled : 25-NOV-97
Date Extracted: 26-NOV-97

Matrix : Soil
Method : SWB46/3550/8270
Units : UG/KG

Galson ID:	L40278-1	L40278-2	L40278-2
Client ID:	WTVSPXX03	WTVSPXX04	WTVSPXX04
aphthalene	84. J	9400 E	11000
methylnaphthalene	<390	3800	2800
naphthylene	120 J	1500	1100 J
acenaphthene	<390	1000	840 J
ibenzofuran	<390	160 J	<1900
orene	<390	1600	1200 J
nanthrene	120 J	8400 E	6500
anthracene	42. J	1800	1300 J
luoranthene	240 J	3100	2500
ene	710	7500 E	5700
enzo(a)anthracene	220 J	1400	1400 J
hrysene	320 J	1600	1500 J
enzo(b)fluoranthene	430	1300	820 J
enzo(k)fluoranthene	400	910	1100 J
enzo(a)pyrene	770	1900	2000
enzo(1,2,3-cd)pyrene	730	1300	2000
enzo(a,h)anthracene	210 J	480	620 J
enzo(g,h,i)perylene	1600	2500	4400
Percent Moisture (%)	17	15	15
ution Factor	1	1	5
alysis Date	11/26/97	11/27/97	11/29/97

Approved by : mDB
Date : 30-NOV-97
QC by : *SG*
Date : 11-30-97
NYS DOH # : 11626
Footnotes:

Results are reported on a dry weight basis.





Galson Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MCP

Date Received : 25-NOV-97
Date Sampled : 25-NOV-97
Date Extracted: 26-NOV-97

Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID:	L40278-3	L40278-4	L40278-5
Client ID:	WTVCS12001	WTVCS12002	WTVCS12003
Phthalene.	200 J	<350	1300
Ethylanthracene	67. J	<350	1800
Anthracene	<360	<350	290 J
Anthracene	<360	<350	2000
Benzo(f)anthracene	<360	<350	120 J
Benzo(a)anthracene	48. J	<350	1300
Benzo(b)anthracene	230 J	170 J	9000 E
Benzo(k)anthracene	68. J	49. J	2200
Benzo(g,h,i)perylene	100 J	88. J	3700
Benzo(a)pyrene	170 J	140 J	7000 E
Benzo(b)fluoranthene	54. J	44. J	1400
Benzo(k)fluoranthene	54. J	<350	1200
Benzo(a)pyrene	<360	<350	940
Benzo(1,2,3-cd)pyrene	<360	<350	480
Benzo(a,h)anthracene	52. J	40. J	1300
Benzo(g,h,i)perylene	<360	<350	720
	43. J	44. J	280 J
			1100
Moisture (%)	9	9	15
Correction Factor	1	1	1
Analysis Date	11/27/97	11/27/97	11/27/97

Approved by : mDB
Date : 30-NOV-97
QC by : JST
Date : 11-30-97
NYS DOH # : 11626
Footnotes:

Results are reported on a dry weight basis.





SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 25-NOV-97
Date Sampled : 25-NOV-97
Date Extracted: 26-NOV-97

Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID:	L40278-5	L40278-6	L40278-7
Client ID:	WTVCS12003	WTVCS12004	WTVCS12005
aphthalene	970 J	49. J	17000 E
ethyl naphthalene	1200 J	<370	33000 E
naphthylene	240 J	<370	13000 E
benaphthene	1400 J	<370	8100 E
benzofuran	<1900	<370	1900
orene	920 J	<370	2300
anthracene	6600	78. J	80000 E
thracene	1400 J	<370	18000 E
oranthene	2700	43. J	35000 E
ene	5900	96. J	61000 E
benzo(a)anthracene	1200 J	<370	11000 E
rysene	1400 J	41. J	9800 E
zo(b)fluoranthene	610 J	<370	5300
zo(k)fluoranthene	610 J	<370	4100
benzo(a)pyrene	1100 J	<370	9900 E
benzo(1,2,3-cd)pyrene	820 J	<370	4800
benzo(a,h)anthracene	<1900	<370	2000
zo(g,h,i)perylene	2000	<370	7400 E
Percent Moisture (%)	15	10	9
Retention Factor	5	1	1
Analysis Date	11/29/97	11/27/97	11/27/97

Approved by : mDB
Date : 30-NOV-97
QC by :
Date :
NYS DOH # : 11626
Footnotes:

Results are reported on a dry weight basis.





SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 25-NOV-97

Date Sampled : 25-NOV-97

Date Extracted: 26-NOV-97

Matrix : Soil

Method : SW846/3550/8270

Units : UG/KG

Galson ID:	L40278-7	L40278-8	L40278-8
Client ID:	WTVCS12005	WTVCS12006	WTVCS12006
Phthalene	130000	6000 E	7400
Methylnaphthalene	30000	2900	2400
Benaphthylene	10000 J	550	400 J
Benaphthene	6100 J	1000	830
Benofuran	<18000	89. J	<730
Fluorene	11000 J	1200	870
Benanthrene	57000	5200	4800
Chracene	12000 J	1100	880
Floranthene	18000	1600	1400
Fluorene	37000	3800	3200
Benzo(a)anthracene	9200 J	740	660 J
Fluorene	8800 J	690	640 J
Benzo(b)fluoranthene	2800 J	380	380 J
Benzo(k)fluoranthene	4400 J	470	280 J
Benzo(a)pyrene	7800 J	810	730
Benzo(1,2,3-cd)pyrene	4400 J	640	590 J
Benzo(a,h)anthracene	<18000	240 J	220 J
Benzo(g,h,i)perylene	7800 J	1300	1400
Percent Moisture (%)	9	10	10
Correction Factor	50	1	2
Analysis Date	11/29/97	11/27/97	11/29/97

Approved by : mDB
Date : 30-NOV-97
QC by : *BN*
Date : 11-30-97
NYS DOH # : 11626

Footnotes:

Results are reported on a dry weight basis.





SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 25-NOV-97
Date Sampled : 25-NOV-97
Date Extracted: 26-NOV-97

Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID:	L40278-9	L40278-9	Q-5138
Client ID:	WTVCB14007	WTVCB14007	SBLK5138
Phthalene	17000 E	30000	<330
Ethylphthalene	16000 E	8700 J	<330
Benaphthylene	5600	2600 J	<330
Benaphthene	9400 E	4200 J	<330
Benzo(f)pyrene	790	<9700	<330
Pyrene	9500 E	4200 J	<330
Benanthrene	27000 E	22000	<330
Anthracene	9300 E	4700 J	<330
Benanthrene	11000 E	6700 J	<330
Benzo(a)anthracene	33000 E	16000	<330
Pyrene	5300	3200 J	<330
Benzo(b)fluoranthene	4500	3500 J	<330
Benzo(k)fluoranthene	2400	1600 J	<330
Benzo(a)pyrene	2300	1300 J	<330
Benzo(1,2,3-cd)pyrene	4900	3400 J	<330
Benzo(a,h)anthracene	2200	2200 J	<330
Benzo(g,h,i)perylene	950	<9700	<330
	3300	4300 J	<330
Percent Moisture (%)	14	14	NA
Retention Factor	1	25	1
Analysis Date	11/27/97	11/30/97	11/26/97

Approved by : mDB
Date : 30-NOV-97
QC by : *DB*
Date : *11-30-97*
NYS DOH # : 11626
Footnotes:

Results are reported on a dry weight basis.



SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No. : 1

SAS No. :

SDG No. : L40278

Level: (low/med) LOW

[illegible]

S1 (NBZ) = Nitrobenzene-d5
S2 (FBP) = 2-Fluorobiphenyl
S3 (TPH) = Terphenyl-d14
S4 (DCB) = 1,2-Dichlorobenzene-d4

QC LIMITS
(23-120)
(30-115)
(18-137)
(20-130)

```
# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out
```

SOIL MOISTURE ANALYSIS

LOGIN: L40278 QC BATCH: LAB GROUP: INORGANIC REF. #: 2185

Wet Weight by: MB
Date : 26-NOV-97
Time : 13:00

Dry Weight by: JG
Date : 26-NOV-97
Time : 15:30

SALSON ID	SAMPLE DESC	D C T	PAN WT (gm)	NET WET WT (gm)	GROSS DRY WT (gm)	NET DRY WT (gm)	% MOIST	% SOLID
L40278-1	WTVSPXX03	N	0.99	6.25	6.18	5.19	17.0	83.0
L40278-2	WTVSPXX04	N	0.99	7.26	7.14	6.15	15.3	84.7
L40278-3	WTVCS12001	N	0.99	6.52	6.92	5.93	9.0	91.0
L40278-4	WTVCS12002	N	0.99	8.58	8.76	7.77	9.4	90.6
L40278-5	WTVCS12003	N	0.96	5.48	5.61	4.65	15.1	84.9
L40278-6	WTVCS12004	N	0.98	6.08	6.46	5.48	9.9	90.1
L40278-7	WTVCS12005	N	0.98	7.44	7.72	6.74	9.4	90.6
L40278-8	WTVCS12006	N	0.97	7.82	7.98	7.01	10.4	89.6
L40278-9	WTVCB14007	N	0.98	7.60	7.55	6.57	13.6	86.4

$$\text{Percent Moisture} = \frac{(\text{net wet weight}) - (\text{net dry weight})}{\text{net wet weight}} \times 100$$

11/30/97 14:15



Galson Laboratories

VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MCP

Date Received : 04-DEC-97 Matrix : Soil
Date Sampled : 03-DEC-97 - 04-DEC-97 Method : SW846 8260
Units : UG/KG

Galson ID:	L40397-1	L40397-2	L40397-3
Client ID:	WTVCS16008	WTVCS10009	WTVCS12010
Benzene	<7	200	<6
Percent Moisture (%)	26	33	19
Dilution Factor	1	1	1
Analysis Date	12/05/97	12/05/97	12/05/97

Approved by : PJT
Date : 05-DEC-97
QC by : *[Signature]*
Date : 12/8/97
NYS DOH # : 11626
Footnotes:

: Results are reported on a dry weight basis.





Galson Laboratories

VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 04-DEC-97
Date Sampled : 03-DEC-97 - 04-DEC-97
Matrix : Soil
Method : SW846 8260
Units : UG/KG

Galson ID:	L40397-4	L40397-5	L40397-6
Client ID:	WTVCS12011	WTVCS14012	WTVCS17013
Benzene	<7	<34	520
Percent Moisture (%)	27	27	28
Dilution Factor	1	5	5
Analysis Date	12/05/97	12/05/97	12/05/97

Approved by : PJT
Date : 05-DEC-97
QC by : *[Signature]*
Date : 12/8/97
NYS DOH # : 11626
Footnotes:

: Results are reported on a dry weight basis.





VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 04-DEC-97

Date Sampled : 03-DEC-97 - 04-DEC-97

Matrix : Soil

Method : SW846 B260

Units : UG/KG

Galson ID:

Client ID:

L40397-7

WTVSPXX05

QCB120597-1

METHOD BLANK

Benzene

68.

<5

Percent Moisture (%)

22

NA

Dilution Factor

5

1

Analysis Date

12/05/97

12/05/97

Approved by : PJT

Date : 05-DEC-97

QC by

Date

NYS DOH # : 11626

Footnotes:

: Results are reported on a dry weight basis.



2E

Contract:

SDG No. : L4:0397

Level: (low/med) LOW

[illegible]

QC LIMITS
(54-114)
(50-128)
(54-123)

```
# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out
```



Galson Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 04-DEC-97

Date Sampled : 03-DEC-97 - 04-DEC-97

Date Extracted: 04-DEC-97

Matrix : Soil

Method : SW846/3550/8270

Units : UG/KG

Galson ID: Client ID:	L40397-1 WTVCB16008	L40397-2 WTVCS10009	*L40397-3 WTVCS12010
Naphthalene	<440	3200 J	<410
2-Methylnaphthalene	190 J	1200 J	<410
Acenaphthylene	550	1100 J	56. J
Acenaphthene	<440	<4800	97. J
Dibenzofuran	<440	<4800	<410
Fluorene	<440	540 J	52. J
Phenanthrene	<440	2500 J	120 J
Anthracene	<440	830 J	71. J
Fluoranthene	560	7700	360 J
Pyrene	1500	15000	820
Benzo(a)anthracene	350 J	5400	190 J
Chrysene	460	7200	200 J
Benzo(b)fluoranthene	560	10000	180 J
Benzo(k)fluoranthene	680	12000	180 J
Benzo(a)pyrene	1300	13000	280 J
Indeno(1,2,3-cd)pyrene	2200	16000	260 J
Dibenzo(a,h)anthracene	580	3300 J	77. J
Benzo(g,h,i)perylene	6400	31000	630
Percent Moisture (%)	26	33	19
Dilution Factor	1	10	1
Analysis Date	12/06/97	12/06/97	12/05/97

Total PAH = 15.33 ppm Tot PAH = 129.97 Tot PAH = 3.573
Tot cPAH = 6.13 Tot cPAH = 66.90 Tot cPAH = 1.367

Approved by : mDB
Date : 08-DEC-97
QC by : *[Signature]*
Date : 12/18/97
NYS DOH # : 11626
Footnotes:

Results are reported on a dry weight basis.
* Last internal standard low. Confirmed by second analysis.





Galson Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MCP

Date Received : 04-DEC-97
Date Sampled : 03-DEC-97 - 04-DEC-97
Date Extracted : 04-DEC-97

Matrix : Soil
Method : SWB46/3550/8270
Units : UG/KG

Galson ID: Client ID:	*L40397-4 WTVCS12011	*L40397-5 WTVCS14012	*L40397-6 WTVCS17013
Naphthalene	<450	4400	8100 E
2-Methylnaphthalene	52. J	1900	2200
Acenaphthylene	88. J	690	730
Acenaphthene	<450	260 J	550
Dibenzofuran	<450	80. J	100 J
Fluorene	<450	790	790
Phenanthrene	150 J	3800	3800
Anthracene	<450	930	920
Fluoranthene	790	1700	1400
Pyrene	1800	3600	3000
Benzo(a)anthracene	600	810	630
Chrysene	730	830	600
Benzo(b)fluoranthene	650	640	420 J
Benzo(k)fluoranthene	620	410 J	300 J
Benzo(a)pyrene	1200	1100	720
Indeno(1,2,3-cd)pyrene	840	1100	610
Benzo(a,h)anthracene	300 J	320 J	190 J
Benzo(g,h,i)perylene	2200	2800	1600
Percent Moisture (%)	27	27	28
Dilution Factor	1	1	1
Analysis Date	12/05/97	12/05/97	12/05/97

Tot PAH = 7.820

Tot cPAH = 4.940

Tot PAH = 26.16

Tot cPAH = 5.210

Tot PAH = 26.66

Tot cPAH = 3.470

Approved by : mDB
Date : 08-DEC-97
QC by : *[Signature]*
Date : 12/18/97
NYS DOH # : 11626
Footnotes:

Results are reported on a dry weight basis.
* Last internal standard low. Confirmed by second analysis.
E : Result of second analysis at same dilution is 6400 UG/KG.





SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 04-DEC-97
Date Sampled : 03-DEC-97 - 04-DEC-97
Date Extracted: 04-DEC-97

Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID:	L40397-7	Q-5156
Client ID:	WTV6PXX05	8BLK5156
Naphthalene	3400 J	<330
2-Methylnaphthalene	1800 J	<330
Acenaphthylene	1800 J	<330
Acenaphthene	640 J	<330
Dibenzofuran	<4300	<330
Fluorene	1100 J	<330
Phenanthrene	9600	<330
Anthracene	2600 J	<330
Fluoranthene	29000	<330
Pyrene	59000	<330
Benzo(a)anthracene	11000	<330
Chrysene	12000	<330
Benzo(b)fluoranthene	8600	<330
Benzo(k)fluoranthene	9500	<330
Benzo(a)pyrene	13000	<330
Indeno(1,2,3-cd)pyrene	11000	<330
benzo(a,h)anthracene	2800 J	<330
benzo(g,h,i)perylene	21000	<330
Percent Moisture (%)	22	NA
Dilution Factor	10	1
Analysis Date	12/05/97	12/05/97

Tot PAH = 197.84
Tot cPAH = 67.90

Approved by : mDB
Date : 08-DEC-97
QC by : *[Signature]*
Date : 12/8/97
NYS DOH # : 11626
Footnotes:

Results are reported on a dry weight basis.



20

Contract:

Case No. : 1.

SAS No. :

SDG No. : L4.0397

Level: (low/med) LOW

SBLK5156	52	49	69	43					
WTVSPXX05	61	66	98	54					0
WTVCS14012	78	79	107	68					0
WTVCS12010	87	84	106	72					0
WTVCS12011	78	77	105	69					0
WTVCB17013	77	81	110	69					0
WTVCS14012	77	81	122	67					0
WTVCS12010	81	84	122	71					0
WTVCS12011	76	77	122	64					0
WTVCB17013	80	81	124	69					0
WTVCB16008	57	61	76	50					0
WTVCS10009	38	66	63	43					0

S1 (NBZ) = Nitrobenzene-d5
S2 (FBP) = 2-Fluorobiphenyl
S3 (TPH) = Terphenyl-d14
S4 (DCE) = 1,2-Dichlorobenzene-d4

QC LIMITS
(23-120)
(30-115)
(18-137)
(20-130)

```
# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out
```

VOLATILE ANALYTICAL REPORT

**Galson
Laboratories**

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 10-DEC-97
Date Sampled : 09-DEC-97

Matrix : Soil
Method : SW846 8260
Units : UG/KG

Galson ID:
Client ID:

L40492-1
WTVCS08014

QCB121097-2
METHOD BLANK

Benzene	<7	<5
Percent Moisture (%)	26	NA
Dilution Factor	1	1
Analysis Date	12/10/97	12/10/97

Approved by : PJT

Date : 11-DEC-97

QC by

Date

NYS DOH # : 11626

Footnotes:

Results are reported on a dry weight basis.



Level: (low/med) LOW

[illegible]

SMC1 (TOL) = Toluene-d8
SMC2 (BFB) = Bromofluorobenzene
SMC3 (DCE) = 1,2-Dichloroethane-d4

QC LIMITS
(81-117)
(74-121)
(70-121)

```
# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out
```



Galson Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 10-DEC-97
Date Sampled : 09-DEC-97
Date Extracted : 10-DEC-97

Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID:	L40492-1	Q-5171
Client ID:	WTVC508014	METHOD BLANK
Naphthalene	<440	<330
2-Methylnaphthalene	<440	<330
Acenaphthylene	<440	<330
Acenaphthene	<440	<330
Dibenzofuran	<440	<330
Fluorene	<440	<330
Phenanthrene	<440	<330
Anthracene	<440	<330
Fluoranthene	<440	<330
Pyrene	<440	<330
Benzo(a)anthracene	<440	<330
Chrysene	<440	<330
Benzo(b)fluoranthene	<440	<330
Benzo(k)fluoranthene	<440	<330
Benzo(a)pyrene	<440	<330
Benzo(1,2,3-cd)pyrene	<440	<330
Dibenzo(a,h)anthracene	<440	<330
Benzo(g,h,i)perylene	<440	<330
Percent Moisture (%)	26	NA
Dilution Factor	1	1
Analysis Date	12/10/97	12/10/97

Approved by : PJT

Date : 11-DEC-97

QC by

Date

NYS DOH # : 11626

Footnotes:

Results are reported on a dry weight basis.





Galson Laboratories

VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 12-DEC-97
Date Sampled : 12-DEC-97

Matrix : Soil
Method : SW846 8260
Units : UG/KG

Galson ID:	*L40544-1	L40544-2	L40544-3
Client ID:	WTVCS13015	WTVCS13016	WTVCS13017
Benzene	<690	<6	<6
Percent Moisture (%)	10	18	10
Dilution Factor	1	1	1
Analysis Date	12/15/97	12/14/97	12/14/97

Approved by : pjt
Date : 16-DEC-97
QC by : *[Signature]*
Date : 12/16/97
NYS DOH # : 11626
Footnotes:

* : Sample analyzed as a medium level extract.
Results are reported on a dry weight basis.





VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 12-DEC-97
Date Sampled : 12-DEC-97

Matrix : Soil
Method : SW846 8260
Units : UG/KG

Galson ID:	*L40544-4	L40544-5	L40544-6
Client ID:	WTVCS13018	WTVCS16019	WTVCSPPX07
Benzene	630 J	95.	<6
Percent Moisture (%)	9	11	12
Dilution Factor	4	5	1
Analysis Date	12/15/97	12/14/97	12/14/97

Approved by : pjt
Date : 16-DEC-97
QC by : *EM*
Date : 12/16/97
NYS DOH # : 11626
Footnotes:

* : Sample analyzed as a medium level extract.
J : Estimated value. Value is below quantitation limit.
Results are reported on a dry weight basis.





VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 12-DEC-97

Date Sampled : 12-DEC-97

Matrix : Soil

Method : SW846 8260

Units : UG/KG

Galson ID: Client ID:	L40544-7 WTVCSPPX07 MS	L40544-8 WTVCSPPX07 MSD	*L40544-9 WTVCSPPX08
Benzene	59.	60.	<2800
Percent Moisture (%)	14	13	11
Dilution Factor	1	1	4
Analysis Date	12/14/97	12/14/97	12/15/97

Approved by : pjt
Date : 16-DEC-97
QC by : *CH*
Date : 12/16/97
NYS DOH # : 11626
Footnotes:

* : Sample analyzed as a medium level extract.
Results are reported on a dry weight basis.





Galson Laboratories

VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MCP

Date Received : 12-DEC-97
Date Sampled : 12-DEC-97

Matrix : Soil
Method : SW846 8260
Units : UG/KG

Galson ID: Client ID:	*L40544-10 WTVCSPPX09	QCB121497-1 METHOD BLANK	QCB121597-1 METHOD BLANK
Benzene	2200 J	<5	<620
Percent Moisture (%)	12	NA	NA
Dilution Factor	4	1	1
Analysis Date	12/15/97	12/14/97	12/15/97

Approved by : pjt
Date : 16-DEC-97
QC by : *[Signature]*
Date : 12/16/97
NYS DOH # : 11626
Footnotes:

* : Sample analyzed as a medium level extract.
J : Estimated value. Value is below quantitation limit.
Results are reported on a dry weight basis.





Galson
Laboratories

VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 12-DEC-97
Date Sampled : 12-DEC-97

Matrix : Soil
Method : SW846 8260
Units : UG/KG

Galson ID: QCB121497-1BS
Client ID: MSB

Benzene	52.
Percent Moisture (%)	NA
Dilution Factor	1
Analysis Date	12/14/97

Approved by : pjt
Date : 16-DEC-97
QC by : *[Signature]*
Date : 12/16/97
NYS DOH # : 11626
Footnotes:

Results are reported on a dry weight basis.



3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L40544

Matrix Spike - NYSDEC Sample No.: WTVCSPPX07 (L40544-6)

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
Benzene	58	0.0	59	1.02	76-127

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
=====	=====	=====	=====	=====	=====	=====
Benzene	57	60	105	3	11	76-127

Column to be used to flag recovery and RPD values with an asterisk.

* Values outside of QC limits.

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

3B
SOIL VOLATILE BLANK SPIKE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L40544

Matrix Spike - NYSDEC Sample No.: METHOD BLANK (QCB121497-1)

COMPOUND	SPIKE ADDED (UG/KG)	BLANK CONCENTRATION (UG/KG)	BS CONCENTRATION (UG/KG)	BS % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
Benzene	50	0.0	52	104	66-142

Column to be used to flag recovery values with an asterisk.
* Values outside of QC limits.

Spike Recovery: 0 out of 1 outside limits

COMMENTS: _____



Galson Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 12-DEC-97
Date Sampled : 12-DEC-97
Date Extracted: 14-DEC-97

Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID:	L40544-1	L40544-1	L40544-2
Client ID:	WTVCS13015	WTVCS13015	WTVCS13016
Naphthalene	7500 E	4800	<380
2-Methylnaphthalene	6500 E	3600	<380
Acenaphthylene	3000	2000	<380
Acenaphthene	1100	770 J	<380
Dibenzofuran	190 J	<1800	<380
Fluorene	3900	2600	<380
Phenanthrene	13000 E	11000	93. J
Anthracene	3400	2500	<380
Fluoranthene	5000	5100	79. J
Pyrene	9700 E	5100	150 J
Benzo(a)anthracene	2000	1700 J	46. J
Chrysene	1900	1500 J	55. J
Benzo(b)fluoranthene	1100	1200 J	48. J
Benzo(k)fluoranthene	870	480 J	57. J
Benzo(a)pyrene	1800	1500 J	84. J
Benzo(1,2,3-cd)pyrene	900	330 J	<380
Benzo(a,h)anthracene	230 J	<1800	<380
Benzo(g,h,i)perylene	1300	500 J	160 J
Percent Moisture (%)	10	10	18
Dilution Factor	1	5	1
Analysis Date	12/15/97	12/15/97	12/15/97

Total PAH 44.68

Total cPAH 6.710

Total PAH 0.712

Total cPAH 0.21

Approved by : PJT
Date : 16-DEC-97
QC by : *[Signature]*
Date : 12/16/97
NYS DOH # : 11626

Footnotes:

E : Compound concentration exceeds calibration range.
J : Estimated value. Value is below quantitation limit.
Results are reported on a dry weight basis.





SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 12-DEC-97
Date Sampled : 12-DEC-97
Date Extracted: 14-DEC-97

Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID:	L40544-3	L40544-4	L40544-4
Client ID:	WTVCS13017	WTVCS13018	WTVCS13018
Naphthalene	<360	4200	27000
2-Methylnaphthalene	79. J	5000	10000
Acenaphthylene	180 J	5200	3800
Acenaphthene	<360	2500	1800
Dibenzofuran	<360	460	460 J
Fluorene	140 J	7800 E	5500
Phenanthrene	560	20000 E	27000
Anthracene	160 J	6700 E	5700
Fluoranthene	260 J	8300 E	11000
Pyrene	700	22000 E	13000
Benzo(a)anthracene	300 J	4000	3400
Chrysene	76. J	3600	3200
Benzo(b)fluoranthene	360	1800	1700 J
Benzo(k)fluoranthene	160 J	1700	2300
Benzo(a)pyrene	1200	3600	3300
Benzo(1,2,3-cd)pyrene	1300	2100	1000 J
Dibenzo(a,h)anthracene	230 J	590	<1800
Benzo(g,h,i)perylene	2400	3200	1500 J
Percent Moisture (%)	10	9	9
Dilution Factor	1	1	5
Analysis Date	12/15/97	12/15/97	12/16/97

Total PAH 8.105

Total cPAH 3.626

Total PAH 121.66

Total cPAH 14.90

Approved by : PJT
Date : 16-DEC-97
QC by : *[Signature]*
Date : 12/16/97
NYS DOH # : 11626

Footnotes:

E : Compound concentration exceeds calibration range.
J : Estimated value. Value is below quantitation limit.
Results are reported on a dry weight basis.





SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 12-DEC-97
Date Sampled : 12-DEC-97
Date Extracted : 14-DEC-97

Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID: Client ID:	L40544-5 WTVCS16019	L40544-6 WTVCSPPX07	L40544-7 WTVCSPPX07 MS
Naphthalene	2000	460	2000
2-Methylnaphthalene	930	350 J	270 J
Acenaphthylene	580	440	2100
Acenaphthene	270 J	110 J	2000
Dibenzofuran	62. J	41. J	<370
Fluorene	710	320 J	2000
Phenanthrene	3300	1400	3000
Anthracene	720	380	2100
Fluoranthene	1200	980	2100
Pyrene	2200	2600	4700
Benzo(a)anthracene	510	620	2400
Chrysene	480	710	2600
Benzo(b)fluoranthene	330 J	1300	3000
Benzo(k)fluoranthene	180 J	1200	1800
Benzo(a)pyrene	460	1100	3200
Benzo(1,2,3-cd)pyrene	220 J	1300	4100
Dibenzo(a,h)anthracene	<360	<370	2900
Benzo(g,h,i)perylene	360	2500	5600
Percent Moisture (%)	11	12	14
Dilution Factor	1	1	1
Analysis Date	12/15/97	12/15/97	12/15/97

Total PAH = 14.512

Total cPAH = 2.180

Total PAH = 15.81

Total cPAH = 6.230

Approved by : PJT
Date : 16-DEC-97
QC by : *EH*
Date : 12/16/97
NYS DOH # : 11626
Footnotes:

J : Estimated value. Value is below quantitation limit.
Results are reported on a dry weight basis.





SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 12-DEC-97
Date Sampled : 12-DEC-97
Date Extracted : 14-DEC-97

Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID:	L40544-8	L40544-9	L40544-10
Client ID:	WTVCSPPXX07 MSD	WTVCSPPXX08	WTVCSPPXX09
Naphthalene	1800	48000	42000 E
2-Methylnaphthalene	320 J	16000	28000
Acenaphthylene	2400	9300	43000
Acenaphthene	2100	3500 J	9100
Dibenzofuran	46. J	740 J	1800 J
Fluorene	2200	8500	26000
Phenanthrene	3800	35000	96000 E
Anthracene	2400	8000	21000
Fluoranthene	2600	12000	28000
Pyrene	5300	22000	63000 E
Benzo(a)anthracene	2700	4800	12000
Chrysene	2800	4500	12000
Benzo(b)fluoranthene	3100	3900	9100
Benzo(k)fluoranthene	2100	1500 J	5000
Benzo(a)pyrene	3300	5300	13000
Benzo(1,2,3-cd)pyrene	4500	2500 J	8500
Dibenzo(a,h)anthracene	3000	<3700	<3800
Benzo(g,h,i)perylene	5800	3800	13000
Percent Moisture (%)	13	11	12
Dilution Factor	1	10	10
Analysis Date	12/15/97	12/15/97	12/15/97

Total PAH = 189.34

Total cPAH = 22.50

Approved by : PJT
Date : 16-DEC-97
QC by : *EA*
Date : 12/16/97
NYS DOH # : 11626
Footnotes:

E : Compound concentration exceeds calibration range.
J : Estimated value. Value is below quantitation limit.
Results are reported on a dry weight basis.





Galson Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 12-DEC-97
Date Sampled : 12-DEC-97
Date Extracted : 14-DEC-97

Matrix : Soil
Method : SW846/3550/8270
Units : UC/KC

Galson ID:	L40544-10	Q-5177	Q-5177BS
Client ID:	WTVCSPXX09	METHOD BLANK	SVMSB
naphthalene	85000	<330	250 J
2-Methylnaphthalene	22000	<330	<330
Acenaphthylene	36000	<330	1000
Acenaphthene	7300 J	<330	1100
Dibenzofuran	1600 J	<330	<330
Fluorene	22000	<330	1300
Phenanthrene	86000	<330	1500
Anthracene	19000	<330	1500
Fluoranthene	38000	<330	1700
Pyrene	41000	<330	1800
Benzo(a)anthracene	11000	<330	1700
Benzysene	12000	<330	1700
Benzo(b)fluoranthene	8100	<330	2100
Benzo(k)fluoranthene	7200 J	<330	1700
Benzo(a)pyrene	13000	<330	1800
Benzo(1,2,3-cd)pyrene	5000 J	<330	1900
Dibenz(a,h)anthracene	<7500	<330	1800
Benzo(g,h,i)perylene	7500	<330	1900
Percent Moisture (%)	12	NA	NA
Dilution Factor	20	1	1
Analysis Date	12/16/97	12/15/97	12/15/97

Total PAH 421.7

Total cPAH 56.30

Approved by : PJT
Date : 16-DEC-97
QC by : *E. J.*
Date : 12/16/97
NYS DOH # : 11626
Footnotes:

E : Compound concentration exceeds calibration range.
J : Estimated value. Value is below quantitation limit.
Results are reported on a dry weight basis.



U.S. 100-102045

Contract :

SDG No.: L40544.

Level: (low/med) LOW

[illegible]

QC LIMITS
(23-120)
(30-115)
(18-137)
(20-125)

```
# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out
```

3D
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L40544

Matrix Spike - NYSDEC Sample No.: WTVCSPPX07 (L40544-6)

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
=====	=====	=====	=====	=====	=====
Acenaphthene	1860	110	2000	102	31-137
Pyrene	1860	2600	4700	113	35-142

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
=====	=====	=====	=====	=====	=====	=====
Acenaphthene	1850	2100	108	6	25	31-137
Pyrene	1850	5300	146 *	26 *	25	35-142

Column to be used to flag recovery and RPD values with an asterisk.
* Values outside of QC limits.

RPD: 1 out of 2 outside limits

Spike Recovery: 1 out of 4 outside limits

COMMENTS: _____

3D
SOIL SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L40544

Matrix Spike - NYSDEC Sample No.: METHOD BLANK (Q-5177)

COMPOUND	SPIKE ADDED (UG/KG)	BLANK CONCENTRATION (UG/KG)	BS CONCENTRATION (UG/KG)	BS % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
Acenaphthene	1670	0.0	1100	66	31-137
Pyrene	1670	0.0	1800	108	35-142

Column to be used to flag recovery values with an asterisk.
* Values outside of QC limits.

Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____



Galson Laboratories

VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 15-DEC-97
Date Sampled : 15-DEC-97

Matrix : Soil
Method : SW846 8260
Units : UG/KG

Galson ID: Client ID:	*L40565-1 WTVCS11020	*L40565-2 WTVCS11021	QCB121697-2 METHOD BLANK
Benzene	<810	<820	<620
Percent Moisture (%)	23	24	NA
Dilution Factor	1	1	1
Analysis Date	12/16/97	12/16/97	12/16/97

Approved by : PJT
Date : 17-DEC-97
QC by : *[Signature]*
Date : 12/17/97
NYS DOH # : 11626
Footnotes:

* : Sample analyzed as a medium level extract.

Increased detection limits due to the presence of high levels of other compounds in sample.

Results are reported on a dry weight basis.



2B

Contract :

SAS No. :

Level: (low/med) MED

[illegible]

QC LIMITS
(70-121)

```
# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out
```



Galson Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 15-DEC-97
Date Sampled : 15-DEC-97
Date Extracted: 16-DEC-97

Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID:	L40565-1	L40565-2	Q-5186
Client ID:	WTVCS11020	WTVCS11021	METHOD BLANK
Naphthalene	11000	5600	<330
2-Methylnaphthalene	3900	1900	<330
Acenaphthylene	1900 J	940	<330
Acenaphthene	590 J	320 J	<330
Dibenzofuran	<2100	81. J	<330
Fluorene	1700 J	1000	<330
Phenanthrene	7400	4700	<330
Anthracene	1600 J	1000	<330
Fluoranthene	3000	1700	<330
Pyrene	4900.	4000	<330
Benzo(a)anthracene	1100 J	820	<330
Chrysene	1100 J	750	<330
Benzo(b)fluoranthene	890 J	450	<330
Benzo(k)fluoranthene	350 J	600	<330
Benzo(a)pyrene	1100 J	1200	<330
Indeno(1,2,3-cd)pyrene	570 J	1300	<330
Benzo(a,h)anthracene	<2100	150 J	<330
Benzo(g,h,i)perylene	1000 J	2400	<330
Percent Moisture (%)	23	24	NA
Dilution Factor	5	1	1
Analysis Date	12/17/97	12/17/97	12/16/97

Total PAH = 42.10 Total PAH = 28.911
Total cPAH = 5.110 total cPAH = 5.270

Approved by : PJT
Date : 17-DEC-97
QC by : *[Signature]*
Date : 12/17/97
NYS DOH # : 11626
Footnotes:

J : Estimated value. Value is below quantitation limit.
Results are reported on a dry weight basis.



2D

Contract:

SDG No.: L40565

Level: (low/med) LOW

[illegible]

S1 (NBZ) = Nitrobenzene-d5
S2 (FBP) = 2-Fluorobiphenyl
S3 (TPH) = Terphenyl-d14
S4 (DCB) = 1,2-Dichlorobenzene-d4

QC LIMITS
(23-120)
(30-115)
(18-137)
(20-125)

```
# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out
```



Galson Laboratories

VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville

Date Received : 18-DEC-97
Date Sampled : 18-DEC-97

Matrix : Soil
Method : SW846 8260
Units : UG/KG

Galson ID:	*L40632-1	L40632-2	L40632-3
Client ID:	WTVCS11022	WTVCS11023	WTVCSNSH01
Benzene	<57	<6	<6
Percent Moisture (%)	12	10	22
Dilution Factor	10	1	1
Analysis Date	12/19/97	12/19/97	12/19/97

Approved by : pjt
Date : 22-DEC-97
QC by : 
Date : 12-22-97
NYS DOH # : 11626

Footnotes:

: Results are reported on a dry weight basis.
* Elevated detection limits due to the presence of high levels of organic compounds in sample.





Galson
Laboratories

VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville

Date Received : 18-DEC-97
Date Sampled : 18-DEC-97

Matrix : Soil
Method : SW846 8260
Units : UG/KG

Galson ID: Client ID:	L40632-4 WTVCSH01	*L40632-5 WTVCSH01	QCB121997-2 METHOD BLANK
benzene	<7	<62	<5
Percent Moisture (%)	26	19	NA
Dilution Factor	1	10	1
Analysis Date	12/19/97	12/19/97	12/19/97

Approved by : pjt
Date : 22-DEC-97
QC by : SM
Date : 12.22.97
NYS DOH # : 11626
Footnotes:

: Results are reported on a dry weight basis.
* Elevated detection limits due to the presence of high levels
of organic compounds in sample.





Galson Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville

Date Received : 18-DEC-97
Date Sampled : 18-DEC-97
Date Extracted : 19-DEC-97

Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID: Client ID:	L40632-1 WTVCS11022	L40632-2 WTVCS11023	L40632-3 WTVCSNSH01
Naphthalene	360 J	<360	<410
2-Methylnaphthalene	330 J	<360	<410
Acenaphthylene	290 J	<360	<410
Acenaphthene	98. J	<360	<410
Dibenzofuran	<370	<360	<410
Fluorene	330 J	<360	<410
Phenanthrene	1800	88. J	<410
Anthracene	350 J	<360	<410
Fluoranthene	710	110 J	<410
Pyrene	1400	220 J	47. J
Benzo(a)anthracene	300 J	60. J	<410
Chrysene	300 J	55. J	<410
Benzo(b)fluoranthene	220 J	73. J	<410
Benzo(k)fluoranthene	84. J	<360	<410
Benzo(a)pyrene	290 J	84. J	<410
Benzo(1,2,3-cd)pyrene	160 J	<360	<410
Benzo(a,h)anthracene	<370	<360	<410
Benzo(g,h,i)perylene	300 J	<360	<410
Percent Moisture (%)	12	10	22
Dilution Factor	1	1	1
Analysis Date	12/20/97	12/19/97	12/19/97

Total PAH=7.322

Total PAH=0.690

Total PAH=0.047

Total cPAH=1.354

Total cPAH=0.272

Total cPAH=0.041

Approved by : PJT
Date : 22-DEC-97
QC by :
Date : 12-22-97
NYS DOH # : 11626
Footnotes:

J : Estimated value. Value is below quantitation limit.





Galson Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville

Date Received : 18-DEC-97
Date Sampled : 18-DEC-97
Date Extracted : 19-DEC-97

Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID:	L40632-4	L40632-5	Q-5194
Client ID:	WTVCSH01	WTVCSH001	METHOD BLANK
aphthalene	<440	360 J	<330
-Methylnaphthalene	<440	260 J	<330
Acenaphthylene	<440	210 J	<330
Acenaphthene	<440	<810	<330
benzofuran	<440	<810	<330
luorene	<440	170 J	<330
Phenanthrene	140 J	2300	<330
Anthracene	<440	330 J	<330
luoranthene	160 J	3300	<330
pyrene	170 J	4900	<330
Benzo(a)anthracene	54. J	720 J	<330
chrysene	89. J	1200	<330
benzo(b)fluoranthene	60. J	280 J	<330
benzo(k)fluoranthene	45. J	220 J	<330
Benzo(a)pyrene	53. J	390 J	<330
no(1,2,3-cd)pyrene	<440	250 J	<330
benzo(a,h)anthracene	<440	<810	<330
Benzo(g,h,i)perylene	<440	520 J	<330
Percent Moisture (%)	26	19	NA
Dilution Factor	1	2	1
Analysis Date	12/19/97	12/20/97	12/19/97

Total PAH: 0.771

Total PAH: 15.41

Total cPAH: 0.301

Total cPAH: 3.060

Approved by : PJT
Date : 22-DEC-97
QC by : PJT
Date : 12-22-97
NYS DOB # : 11626
Footnotes:

J : Estimated value. Value is below quantitation limit.



2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract :

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L40632

Level: (low/med) LOW

[illegible]

S1 (NBZ) = Nitrobenzene-d5
S2 (FBP) = 2-Fluorobiphenyl
S3 (TPH) = Terphenyl-d14
S4 (DCB) = 1,2-Dichlorobenzene-d4

QC LIMITS
(23-120)
(30-115)
(18-137)
(20-125)

```
# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out
```

VOLATILE ANALYTICAL REPORT

**Galson
Laboratories**

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 19-DEC-97
Date Sampled : 19-DEC-97

Matrix : Soil
Method : SW846 8260
Units : UG/KG

Galson ID: Client ID:	L40664-1 WTVCSWSH03	L40664-2 WTVCSESH03	L40664-3 WTVCSSSH03
Benzene	<6	<6	<6
Percent Moisture (%)	22	14	14
Dilution Factor	1	1	1
Analysis Date	12/22/97	12/22/97	12/22/97

Approved by : pjt
Date : 22-DEC-97
QC by : *[Signature]*
Date : 12/23/97
NYS DOH # : 11626

Footnotes:

Results are reported on a dry weight basis.

**Galson**
Laboratories

VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 19-DEC-97
Date Sampled : 19-DEC-97

Matrix : Soil
Method : SW846 8260
Units : UG/KG

Galson ID:	L40664-4	L40664-5	L40664-6
Client ID:	WTVCBH003	WTVCBH002	WTVCSH02
benzene	<6	<6	<6
Percent Moisture (%)	15	20	16
Dilution Factor	1	1	1
Analysis Date	12/22/97	12/22/97	12/22/97

Approved by : pjt
Date : 22-DEC-97
QC by : *EJH*
Date : 12/23/97
NYS DOH # : 11626
Footnotes:

Results are reported on a dry weight basis.



**Galson**
Laboratories

VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 19-DEC-97
Date Sampled : 19-DEC-97

Matrix : Soil
Method : SW846 8260
Units : UG/KG

Galson ID:	*L40664-7	*L40664-8	*L40664-9
Client ID:	WTVCS09024	WTVCS09025	WTVCS09026
benzene	<36000	<40000	<720
Percent Moisture (%)	14	22	13
Dilution Factor	50	50	1
Analysis Date	12/22/97	12/22/97	12/22/97

Approved by : pjt
Date : 22-DEC-97
QC by : *EM*
Date : 12/23/97
NYS DOH # : 11626
Footnotes:

Results are reported on a dry weight basis.
* : Elevated detection limits due to the presence of high levels of organic compounds in sample.





Galson
Laboratories

VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 19-DEC-97
Date Sampled : 19-DEC-97

Matrix : Soil
Method : SW846 8260
Units : UG/KG

Galson ID:	L40664-10	L40664-11	L40664-12
Client ID:	WTVSPXX10	WTVSPXX11	WTVSPXX11MS
Benzene	<6	<58	700
Percent Moisture (%)	17	14	13
Dilution Factor	1	10	10
Analysis Date	12/22/97	12/22/97	12/22/97

Approved by : pjt
Date : 22-DEC-97
QC by : *EJ*
Date : 12/23/97
NYS DOH # : 11626

Footnotes:

Results are reported on a dry weight basis.
* : Elevated detection limits due to the presence of high levels of organic compounds in sample.



**Galson**
Laboratories

VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 19-DEC-97
Date Sampled : 19-DEC-97

Matrix : Soil
Method : SW846 8260
Units : UG/KG

Galson ID:	L40664-13	L40664-14	QCB122297-1
Client ID:	WTVSPXX11MSD	WTVSPXX12	METHOD BLANK
nzene	700	<6	<5
Percent Moisture (%)	13	13	NA
lution Factor	10	1	1
alysis Date	12/22/97	12/22/97	12/22/97

Approved by : PJt
Date : 22-DEC-97
QC by : E-14
Date : 12/23/97
NYS DOH # : 11626
Footnotes:

Results are reported on a dry weight basis.

**Galson**
Laboratories

VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 19-DEC-97
Date Sampled : 19-DEC-97

Matrix : Soil
Method : SW846 8260
Units : UG/KG

Galson ID:
Client ID:

QCB122297-2
METHOD BLANK

QCB122297-1BS
MSWB

Benzene	<620	56.
Percent Moisture (%)	NA	NA
Dilution Factor	1	1
Analysis Date	12/22/97	12/22/97

Approved by : pjt
Date : 22-DEC-97
QC by : *[Signature]*
Date : 12/23/97
NYS DOH # : 11626
Footnotes:

Results are reported on a dry weight basis.



2B

Contract:

SDG No.: L40664

Level: (low/med) : LOW

QC LIMITS.
(82-126)

SMC1 (DCE) = 1,2-Dichloroethane-d4

D Surrogate diluted out

2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code: Case No.: 1

SAS No. :

SDG No.: L40664

Level: (low/med) : MED

[illegible]

SMC1 (DCE) = 1,2-Dichloroethane-d4

QC LIMITS
(70-121)

```
# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out
```

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L40664

Matrix Spike - NYSDEC Sample No.: WTVSPXX11 (L40664-11)

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC. LIMITS REC.
Benzene	575	0.0	700	122	76-127

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
Benzene	575	700	122	0	11 76-127

Column to be used to flag recovery and RPD values with an asterisk.
* Values outside of QC limits.

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

3B
SOIL VOLATILE BLANK SPIKE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L40664

Matrix Spike - NYSDEC Sample No.: METHOD BLANK (QCB122297-1)

COMPOUND	SPIKE ADDED (UG/KG)	BLANK CONCENTRATION (UG/KG)	BS CONCENTRATION (UG/KG)	BS % REC #	QC. LIMITS REC.
Benzene	50	0.0	56	112	66-142

Column to be used to flag recovery values with an asterisk.
* Values outside of QC limits.

Spike Recovery: 0 out of 1 outside limits

COMMENTS: _____



Galson Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 19-DEC-97
Date Sampled : 19-DEC-97
Date Extracted : 21-DEC-97

Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID:	L40664-1	L40664-2	L40664-3
Client ID:	WTVCSWSH03	WTVCSESH03	WTVCSSSH03
Naphthalene	43. J	<380	<380
Methylnaphthalene	50. J	<380	<380
Benaphthylene	97. J	<380	<380
Acenaphthene	<410	<380	<380
Benzenofuran	<410	<380	<380
Fluorene	68. J	70. J	<380
Benanthrene	790	570	210 J
Anthracene	120 J	87. J	<380
Fluoranthene	1500	830	360 J
Pyrene	3200	1100	340 J
Benzo(a)anthracene	770	470	190 J
Chrysene	850	490	190 J
Benzo(b)fluoranthene	1100	590	220 J
Benzo(k)fluoranthene	480	310 J	120 J
Benzo(a)pyrene	960	410	160 J
Benzo(1,2,3-cd)pyrene	750	270 J	110 J
Benzo(a,h)anthracene	<410	130 J	<380
Benzo(g,h,i)perylene	1400	350 J	130 J
Percent Moisture (%)	22	14	14
Dilution Factor	1	1	1
Analysis Date	12/23/97	12/23/97	12/22/97

Total PAH 12.178
Total cPAH 4.910

Total PAH 5.677
Total cPAH 2.670

Total PAH 2.030
Total cPAH 0.990

Approved by : RJT
Date : 23-DEC-97
QC by : *[Signature]*
Date : 12/24/97
NYS DOH # : 11626
Footnotes:

Results are reported on a dry weight basis.
J : Estimated value. Value is below quantitation limit.





Galson Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 19-DEC-97
Date Sampled : 19-DEC-97
Date Extracted : 21-DEC-97

Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID:	L40664-4	L40664-5	L40664-6
Client ID:	WTVCSH003	WTVCSH002	WTVCSH002
Phthalene	<380	<410	<390
Methylnaphthalene	<380	<410	<390
Benaphthylene	<380	<410	<390
Benaphthene	<380	<410	<390
Benzo(furan)	<380	<410	<390
Corene	<380	<410	<390
Benanthrene	180 J	59. J	<390
Thracene	<380	<410	<390
Benanthene	460	150 J	56. J
ene	680	300 J	110 J
Benzo(a)anthracene	300 J	94. J	<390
Pyrene	330 J	110 J	44. J
Benzo(b)fluoranthene	450	210 J	66. J
Benzo(k)fluoranthene	200 J	68. J	<390
Benzo(a)pyrene	330 J	160 J	67. J
Benzo(1,2,3-cd)pyrene	230 J	130 J	<390
Benzo(a,h)anthracene	<380	<410	<390
Benzo(g,h,i)perylene	340 J	270 J	<390
Percent Moisture (%)	15	20	16
Extraction Factor	1	1	1
Analysis Date	12/23/97	12/23/97	12/23/97

Total PAH 3.500
Total CPAH 1.840

Total PAH=1.551
Total CPAH=0.772

Total PAH 0.343
Total CPAH 0.177

X

Approved by : PJT
Date : 23-DEC-97
QC by : *[Signature]*
Date : 12/24/97
NYS DOB # : 11626
Footnotes:

Results are reported on a dry weight basis.
J : Estimated value. Value is below quantitation limit.





Galson Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 19-DEC-97
Date Sampled : 19-DEC-97
Date Extracted : 21-DEC-97

Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID: Client ID:	L40664-7 WTVCS09024	L40664-8 WTVCS09025	L40664-8 DL WTVCS09025
aphthalene	<3600	470 J	<8400
-Methylnaphthalene	<3600	<4200	<8400
Acenaphthylene	460 J	3100 J	3200 J
Acenaphthene	<3600	4600	4900 J
ibenzofuran	<3600	1300 J	1100 J
luorene	400 J	7800	8000 J
Phenanthrene	5600	42000	50000
anthracene	2100 J	16000	17000
luoranthene	11000	33000	32000
pyrene	37000	110000 E	90000
Benzo(a)anthracene	6700	12000	13000
brysene	6000	11000	13000
enzo(b)fluoranthene	6500	10000	11000
Benzo(k)fluoranthene	3600	5000	4000 J
Fluoro(a)pyrene	9000	14000	17000
Benzo(1,2,3-cd)pyrene	5800	9200	10000
ibenzo(a,h)anthracene	<3600	<4200	<8400
Benzo(g,h,i)perylene	10000	17000	19000
Percent Moisture (%)	14	22	22
Elution Factor	10	10	20
Analysis Date	12/23/97	12/23/97	12/23/97

Total PAH=104.2
Total cPAH=37.60

Total PAH=293.2
Total cPAH=68.00

X

Approved by : PJT
Date : 23-DEC-97
QC by : *[Signature]*
Date : 12/24/97
NYS DOH # : 11626
Footnotes:

Results are reported on a dry weight basis.
E : Compound concentration exceeds calibration range.
J : Estimated value. Value is below quantitation limit.





Galson Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 19-DEC-97
Date Sampled : 19-DEC-97
Date Extracted : 21-DEC-97

Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID:	L40664-9	L40664-10	L40664-11
Client ID:	WTVCSO9026	WTVSPXX10	WTVSPXX11
Phthalene	300 J	52. J	6800
Methylnaphthalene	<1800	<360	3500
Naphthylene	460 J	120 J	2300
Naphthene	1900	<360	1700
Benzofuran	<1800	<360	210 J
Fluorene	1100 J	70. J	2400
Benanthrene	5200	700	9500
Anthracene	1800	170 J	2200
Fluoranthene	6800	1900	4200
Pyrene	21000	5200	12000
Benzo(a)anthracene	2200	880	1800
Brysene	2100	990	1900
Benzo(b)fluoranthene	2400	1200	1700
Benzo(k)fluoranthene	1800	660	510 J
Benzo(a)pyrene	3400	1100	2200
Benzo(1,2,3-cd)pyrene	2100	1100	2200
Benzo(a,h)anthracene	<1800	<360	<770
Benzo(g,h,i)perylene	3700	2100	4800
Percent Moisture (%)	13	17	14
Dilution Factor	5	1	2
Analysis Date	12/23/97	12/23/97	12/23/97

Total PAH=56.26

Total cPAH=14.00

Total PAH= 16.24

Total cPAH= 5.93

Total PAH= 59.92

Total cPAH 10.31

Approved by : RJT

Date : 23-DEC-97

QC by :

Date : 12/24/97

NYS DOH # : 11626

Footnotes:

Results are reported on a dry weight basis.

J : Estimated value. Value is below quantitation limit.





Galson Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 19-DEC-97
Date Sampled : 19-DEC-97
Date Extracted : 21-DEC-97

Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID:	L40664-12	L40664-13	L40664-14
Client ID:	WTVSPXX11MS	WTVSPXX11MSD	WTVSPXX12
phthalene	10000	12000	61. J
Methylnaphthalene	8600	11000	40. J
acenaphthylene	6200	10000	<360
enaphthene	6100	7800	45. J
benzofuran	3500	3900	<360
fluorene	6400	9700	56. J
Phenanthrene	14000	22000	390
thracene	6600	9100	<360
uoranthene	6800	11000	190 J
Pyrene	20000	34000	310 J
Benzo(a)anthracene	5700	8300	65. J
rysene	5900	8100	79. J
enzo(b)fluoranthene	4500	4900	59. J
Benzo(k)fluoranthene	3900	5700	<360
o(a)pyrene	6000	7600	63. J
deno(1,2,3-cd)pyrene	8100	9200	<360
benzo(a,h)anthracene	5500	6100	<360
Benzo(g,h,i)perylene	12000	14000	<360
Recent Moisture (%)	13	13	13
Dilution Factor	2	2	1
Analysis Date	12/23/97	12/23/97	12/23/97

total PAH = 1.1358

total cPAH = 0.266

Approved by : PJT
Date : 23-DEC-97
QC by : *[Signature]*
Date : 12/24/97
NYS DOH # : 11626
Footnotes:

Results are reported on a dry weight basis.
J : Estimated value. Value is below quantitation limit.





Galson
Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 19-DEC-97
Date Sampled : 19-DEC-97
Date Extracted : 21-DEC-97

Matrix : Soil
Method : SW846/3550/8270
Units : UG/KG

Galson ID:	Q-5196	Q-5196BS
Client ID:	SBLK5196	SBLKMSB

phthalene	<330	2600
Methylnaphthalene	<330	3200
acenaphthylene	<330	3200
acenaphthene	<330	3300
benzofuran	<330	3200
fluorene	<330	3400
phenanthrene	<330	3300
anthracene	<330	3300
fluoranthene	<330	3400
Pyrene	<330	3300
benzo(a)anthracene	<330	3300
rysene	<330	3100
benzo(b)fluoranthene	<330	3600
Benzo(k)fluoranthene	<330	2700
benzo(a)pyrene	<330	3000
benzo(1,2,3-cd)pyrene	<330	3100
benzo(a,h)anthracene	<330	3000
benzo(g,h,i)perylene	<330	3000

Percent Moisture (%)	NA	NA
Dilution Factor	1	1
Analysis Date	12/22/97	12/22/97

Approved by : PJT
Date : 23-DEC-97
QC by : *EJ*
Date : 12/24/97
NYS DOH # : 11626

Footnotes:

Results are reported on a dry weight basis.



Level: (low/med) LOW

[illegible]

S1 (NBZ) = Nitrobenzene-d5
S2 (FBP) = 2-Fluorobiphenyl
S3 (TPH) = Terphenyl-d14
S4 (DCB) = 1,2-Dichlorobenzene-d4

QC LIMITS .
(23-120)
(30-115)
(18-137)
(20-125)

```
# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out
```

30
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 140664

Matrix Spike - NYSDEC Sample No.: WTVSPXX11 (140664-11)

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
Naphthalene	3550	6800	10000	90	25-125
2-Methylnaphthalene	3550	3500	8600	144 *	25-125
Acenaphthylene	3550	2300	6200	110	25-125
Acenaphthene	3550	1700	6100	124	25-125
Dibenzofuran	3550	210	3500	93	25-125
Fluorene	3550	2400	6400	113	25-125
Phenanthrene	3550	9500	14000	127 *	25-125
Anthracene	3550	2200	6600	124	25-125
Fluoranthene	3550	4200	6800	73	25-125
Pyrene	3550	12000	20000	225 *	25-125
Benzo(a)anthracene	3550	1800	5700	110	25-125
Chrysene	3550	1900	5900	113	25-125
Benzo(b)fluoranthene	3550	1700	4500	79	25-125
Benzo(k)fluoranthene	3550	510	3900	95	25-125
Benzo(a)pyrene	3550	2200	6000	107	25-125
Dibenzo(a,h)anthracene	3550	0.0	5500	155 *	25-125
Benzo(g,h,i)perylene	3550	4800	12000	203 *	25-125

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
Naphthalene	3760	12000	138 *	42 *	25 25-125
2-Methylnaphthalene	3760	11000	199 *	32 *	25 25-125
Acenaphthylene	3760	10000	205 *	60 *	25 25-125
Acenaphthene	3760	7800	162 *	27 *	25 25-125
Dibenzofuran	3760	3900	98	6	25 25-125
Fluorene	3760	9700	194 *	53 *	25 25-125
Phenanthrene	3760	22000	332 *	90 *	25 25-125
Anthracene	3760	9100	184 *	39 *	25 25-125
Fluoranthene	3760	11000	181 *	85 *	25 25-125
Pyrene	3760	34000	585 *	89 *	25 25-125
Benzo(a)anthracene	3760	8300	173 *	44 *	25 25-125
Chrysene	3760	8100	165 *	38 *	25 25-125
Benzo(b)fluoranthene	3760	4900	85	8	25 25-125
Benzo(k)fluoranthene	3760	5700	138 *	36 *	25 25-125
Benzo(a)pyrene	3760	7600	144 *	29 *	25 25-125
Dibenzo(a,h)anthracene	3760	6100	162 *	5	25 25-125
Benzo(g,h,i)perylene	3760	14000	245 *	19	25 25-125

* Column to be used to flag recovery and RPD values with an asterisk.
* Values outside of QC limits.

RPD: 13 out of 17 outside limits
Spike Recovery: 20 out of 34 outside limits

COMMENTS:

3D
SOIL SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: GALSON LABORATORIES Contract:
Lab Code: Case No.: 1 SAS No.: SDG No.: L40664
Matrix Spike - NYSDEC Sample No.: SALK5196 (Q-5196)

COMPOUND	SPIKE ADDED (UG/KG)	BLANK CONCENTRATION (UG/KG)	BS CONCENTRATION (UG/KG)	BS % REC #	QC LIMITS REC.
Naphthalene	3330	0.0	2600	78	25-125
2-Methylnaphthalene	3330	0.0	3200	96	25-125
Acenaphthylene	3330	0.0	3200	96	25-125
Acenaphthene	3330	0.0	3300	99	25-125
Dibenzofuran	3330	0.0	3200	96	25-125
Fluorene	3330	0.0	3400	102	25-125
Phenanthrene	3330	0.0	3300	99	25-125
Anthracene	3330	0.0	3300	99	25-125
Fluoranthene	3330	0.0	3400	102	25-125
Pyrene	3330	0.0	3300	99	25-125
Benzo(a)anthracene	3330	0.0	3300	99	25-125
Chrysene	3330	0.0	3100	93	25-125
Benzo(b)fluoranthene	3330	0.0	3600	108	25-125
Benzo(k)fluoranthene	3330	0.0	2700	81	25-125
Benzo(a)pyrene	3330	0.0	3000	90	25-125
Dibenzo(a,h)anthracene	3330	0.0	3000	90	25-125
Benzo(g,h,i)perylene	3330	0.0	3000	90	25-125

Column to be used to flag recovery values with an asterisk.
* Values outside of QC limits.

Spike Recovery: 0 out of 17 outside limits

COMMENTS: _____

VOLATILE ANALYTICAL REPORT

**Galson
Laboratories**

Client : New York State Electric & Gas

Account # : 11163

Site : Waterville MGP

Date Received : 06-JAN-98

Matrix : Soil

Date Sampled : 06-JAN-98

Method : SW846 8260

Units : UG/KG

Galson ID:	L40808-1	L40808-2	L40808-3
Client ID:	WTVCS06027	WTVCS11028	WTVCS11029
Benzene	<7	<8	<7
Percent Moisture (%)	28	38	30
Dilution Factor	1	1	1
Analysis Date	01/07/98	01/07/98	01/07/98

Approved by : PJT

Date : 08 JAN-98

QC by

Date

NYS DOH # : 11626

Footnotes:

: Results are reported on a dry weight basis.



**Galson**
Laboratories

VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 06-JAN-98
Date Sampled : 06-JAN-98

Matrix : Soil
Method : SW846 8260
Units : UG/KG

Galson ID:	L40808-5	L40808-6	L40808-7
Client ID:	WTVCB11030	WTVCS10031	WTVCS10032
nzene	<7	<7	<9
Percent Moisture (%)	32	33	42
Dilution Factor	1	1	1
alysis Date	01/07/98	01/07/98	01/07/98

Approved by : PJT

Date : 08-JAN-98

QC by

Date

NYS DOH # : 11626

Footnotes:

: Results are reported on a dry weight basis.



**Galson**
Laboratories

VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 06-JAN-98
Date Sampled : 06-JAN-98

Matrix : Soil
Method : SW846 8260
Units : UG/KG

*pile
samples*

Galson ID: Client ID:	L40808-8 WTVSPXX13	L40808-9 WTVSPXX13 MS	L40808-10 WTVSPXX13 MSD
benzene	<7	83.	84.
Percent Moisture (%)	30	31	32
Dilution Factor	1	1	1
Analysis Date	01/07/98	01/07/98	01/07/98

Approved by : PJT

Date : 06 JAN-98

QC by : *[Signature]*

Date : 1/8/98

NYS DOH # : 11626

Footnotes:

: Results are reported on a dry weight basis.



**Galson**
Laboratories

VOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 06-JAN-98
Date Sampled : 06-JAN-98

Matrix : Soil
Method : SW846 8260
Units : UG/KG

Galson ID:
Client ID:

QCB010798-1
METHOD BLANK

QCB010798-1BS
MSB

benzene	<5	55.
Percent Moisture (%)	NA	NA
Dilution Factor	1	1
Analysis Date	01/07/98	01/07/98

Approved by : PJT

Date : 08-JAN-98

QC by

Date

NYS DOH # : 11626

Footnotes:

: Results are reported on a dry weight basis.



2B

Contract:

SDG No.: L40808

Level: (low/med) LOW

[illegible]

QC LIMITS
(82-126)

```
# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out
```

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L40808

Matrix Spike - NYSDEC Sample No.: WTVSPXX13 (L40808-8)

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC. LIMITS REC.
Benzene	72	0.0	83	115	76-127

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
Benzene	74	84	114	2	11 76-127

Column to be used to flag recovery and RPD values with an asterisk.
* Values outside of QC limits.

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

page 1 of 1

FORM III-CLP

3B
SOIL VOLATILE BLANK SPIKE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L40808

Matrix Spike - NYSDEC Sample No.: METHOD BLANK (QCB010798-1)

COMPOUND	SPIKE ADDED (UG/KG)	BLANK CONCENTRATION (UG/KG)	BS CONCENTRATION (UG/KG)	BS % REC #	QC. LIMITS REC.
Benzene	50	0.0	55	110	66-142

Column to be used to flag recovery values with an asterisk.
* Values outside of QC limits.

Spike Recovery: 0 out of 1 outside limits

COMMENTS:

SOIL MOISTURE ANALYSIS

LOGIN: L40808-11 QC BATCH: LAB GROUP: INORGANIC REF. #: 2217

Wet Weight by: RA

Dry Weight by: RA

Date : 07-JAN-98

Date : 08-JAN-98

Time : 09:00

Time : 09:00

ALSON ID	SAMPLE DESC	D C T	PAN WT (gm)	NET WET WT (gm)	GROSS DRY WT (gm)	NET DRY WT (gm)	% MOIST	% SOLID
40808-1	WTVCS06027	N	1.03	7.71	6.56	5.53	28.3	71.7
L40808-2	WTVCS11028	N	1.04	6.45	5.03	3.99	38.1	61.9
L40808-3	WTVCS11029	N	1.02	7.22	6.08	5.06	29.9	70.1
40808-5	WTVCS11030	N	1.00	7.06	5.80	4.80	32.0	68.0
40808-6	WTVCS10031	N	1.01	6.49	5.34	4.33	33.3	66.7
L40808-7	WTVCS10032	N	1.01	7.00	5.10	4.09	41.6	58.4
L40808-8	WTVSPXX13	N	1.00	7.40	6.18	5.18	30.0	70.0
40808-9	WTVSPXX13 MS	N	1.00	7.17	5.94	4.94	31.1	68.9
L40808-10	WTVSPXX13 MS	N	1.00	6.54	5.43	4.43	32.3	67.7
L40808-11	MSB	N						

Percent Moisture =
$$\frac{(\text{net wet weight}) - (\text{net dry weight})}{\text{net wet weight}} \times 100$$

1/08/98 09:20



Galson Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 06-JAN-98
Date Sampled : 06-JAN-98
Date Extracted : 07-JAN-98

Matrix : Soil
Method : SW846/3520/8270
Units : UG/KG

Galson ID:	L40808-1	L40808-2	L40808-3
Client ID:	WTVCS06027	WTVCS11028	WTVCS11029
Naphthalene	<460	<1000	330 J
2-Methylnaphthalene	<460	240 J	560 J
Acenaphthylene	<460	1500	2100 J
Acenaphthene	<460	<1000	640 J
Dibenzofuran	<460	<1000	<2400
Fluorene	<460	<1000	800 J
Phenanthrene	<460	190 J	5700
Anthracene	<460	<1000	1200 J
Fluoranthene	<460	250 J	8100
Pyrene	<460	740 J	20000
Benzo(a)anthracene	<460	340 J	3700
Chrysene	<460	600 J	4000
Benzo(b)fluoranthene	<460	1700	7800
Benzo(k)fluoranthene	<460	720 J	2200 J
Benzo(a)pyrene	<460	4900	10000
Benzo(1,2,3-cd)pyrene	<460	6900	6200
Benzo(a,h)anthracene	<460	1100	1400 J
Benzo(g,h,i)perylene	<460	13000	10000
Percent Moisture (%)	28	38	30
Dilution Factor	1	2	5
Analysis Date	01/08/98	01/09/98	01/08/98

Total PAH = 60.460 Total PAH = 32.18 Total PAH = 84.73
Total cPAH = 60.460 Total cPAH = 16.26 Total cPAH = 35.30

Approved by : pjt
Date : 08-JAN-98
QC by : *[Signature]*
Date : 1/9/98
NYS DOH # : 11626
Footnotes:

Results are reported on a dry weight basis.
J : Estimated value. Value is below quantitation limit.



**Galson**
Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
 Account # : 11163
 Site : Waterville MGP

Date Received : 06-JAN-98
 Date Sampled : 06-JAN-98
 Date Extracted : 07-JAN-98

Matrix : Soil
 Method : SW846/3520/8270
 Units : UG/KG

Galson ID:	L40808-5	L40808-6	L40808-7
Client ID:	WTVCB11030	WTVCS10031	WTVCS10032
phthalene	<460	<480	<560
Methylnaphthalene	<460	<480	<560
Acenaphthylene	<460	<480	<560
Acenaphthene	<460	<480	<560
benzofuran	<460	<480	<560
fluorene	<460	<480	<560
Phenanthrene	110 J	<480	<560
anthracene	<460	<480	<560
fluoranthene	120 J	<480	<560
pyrene	240 J	<480	93. J
Benzo(a)anthracene	46. J	<480	<560
fluoranthene	62. J	<480	<560
Benzo(b)fluoranthene	62. J	<480	<560
Benzo(k)fluoranthene	<460	<480	<560
Benzo(a)pyrene	80. J	<480	<560
Benzo(1,2,3-cd)pyrene	<460	<480	<560
benzo(a,h)anthracene	<460	<480	<560
Benzo(g,h,i)perylene	<460	<480	<560
Percent Moisture (%)	32	33	42
Dilution Factor	1	1	1
Analysis Date	01/08/98	01/08/98	01/08/98

Total PAH = 0.720
 Total cPAH = 0.250

Total PAH <0.480
 Total cPAH <0.480

Total PAH 0.093
 Total cPAH <0.560

Approved by : Hjt

Date : 08-JAN-98

QC by

Date

NYS DOH # : 11626

Footnotes:

Results are reported on a dry weight basis.

J : Estimated value. Value is below quantitation limit.




Galson
 Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
 Account # : 11163
 Site : Waterville MGP

Date Received : 06-JAN-98
 Date Sampled : 06-JAN-98
 Date Extracted : 07-JAN-98

Matrix : Soil
 Method : SW846/3520/8270
 Units : UG/KG

file samples

Galson ID:	L40808-8	L40808-9	L40808-10
Client ID:	WTVSPXX13	WTVSPXX13 MS	WTVSPXX13 MSD
aphthalene	150 J	1900	2000
-Methylnaphthalene	240 J	460 J	290 J
acenaphthylene	710 J	3200	3400
acenaphthene	<920	2000	2200
ibenzofuran	<920	<940	<980
luorene	150 J	2200	2600
henanthrene	980	3300	6700
anthracene	240 J	2200	3000
luoranthene	1500	4500	7100
Pyrene	4100	12000	18000
enzo(a)anthracene	1100	3900	5100
hrysene	1300	4300	5300
enzo(b)fluoranthene	2000	6600	5600
Benzo(k)fluoranthene	960	3600	4600
o(a)pyrene	2600	7200	5900
eno(1,2,3-cd)pyrene	2900	7600	6600
ibenz(a,h)anthracene	<920	3800	3400
Benzo(g,h,i)perylene	6200	13000	11000
Percent Moisture (%)	30	31	32
Dilution Factor	2	2	2
Analysis Date	01/08/98	01/08/98	01/08/98

Total PAH = 25.13

Total cPAH 10.86

Approved by : Hjt
 Date : 08-JAN-98
 QC by : *[Signature]*
 Date : 1/9/98
 NYS DOH # : 11626

Footnotes:

Results are reported on a dry weight basis.

J : Estimated value. Value is below quantitation limit.





Galson Laboratories

SEMIVOLATILE ANALYTICAL REPORT

Client : New York State Electric & Gas
Account # : 11163
Site : Waterville MGP

Date Received : 06-JAN-98
Date Sampled : 06-JAN-98
Date Extracted : 07-JAN-98

Matrix : Soil
Method : SW846/3520/8270
Units : UG/KG

Galson ID:	Q-5218	Q-5218BS
Client ID:	SBLK5218	SMSB5218
Naphthalene	<330	1300
1-Methylnaphthalene	<330	<330
Acenaphthylene	<330	1400
Acenaphthene	<330	1400
1-Benzofuran	<330	<330
Fluorene	<330	1400
Phenanthrene	<330	1400
Anthracene	<330	1300
Fluoranthene	<330	1400
Pyrene	<330	1400
Benzo(a)anthracene	<330	1500
Chrysene	<330	1400
Benzo(b)fluoranthene	<330	1800
Benzo(k)fluoranthene	<330	980
Benzo(a)pyrene	<330	1400
Benzo(1,2,3-cd)pyrene	<330	1400
Dibenz(a,h)anthracene	<330	1300
Benzo(g,h,i)perylene	<330	1700
Percent Moisture (%)	NA	NA
Dilution Factor	1	1
Analysis Date	01/07/98	01/07/98

Approved by : pjt

Date : 08-JAN-98

QC by : *[Signature]*

Date : 11/9/98

NYS DOB # : 11626

Footnotes:

Results are reported on a dry weight basis.

J : Estimated value. Value is below quantitation limit.



30

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L40808

Matrix Spike - NYSDEC Sample No.: WTVSPXX13 (L40808-8)

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
Naphthalene	2340	150	1900	75	25-125
Acenaphthylene	2340	710	3200	106	25-125
Acenaphthene	2340	0.0	2000	85	46-118
Fluorene	2340	150	2200	88	25-125
Phenanthrene	2340	980	3300	99	25-125
Anthracene	2340	240	2200	84	25-125
Fluoranthene	2340	1500	4500	128 *	25-125
Pyrene	2340	4100	12000	338 *	26-127
Benzo(a)anthracene	2340	1100	3900	120	25-125
Chrysene	2340	1300	4300	128 *	25-125
Benzo(b)fluoranthene	2340	2000	6600	196 *	25-125
Benzo(k)fluoranthene	2340	960	3600	113	25-125
Benzo(a)pyrene	2340	2600	7200	196 *	25-125
Indeno(1,2,3-cd)pyrene	2340	2900	7600	201 *	25-125
Dibenzo(a,h)anthracene	2340	0.0	3800	162 *	25-125
Benzo(g,h,i)perylene	2340	6200	13000	290 *	25-125

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
Naphthalene	2440	2000	76	1	25 25-125
Acenaphthylene	2440	3400	110	4	25 25-125
Acenaphthene	2440	2200	90	5	25 46-118
Fluorene	2440	2600	100	14	25 25-125
Phenanthrene	2440	6700	234 *	81 *	25 25-125
Anthracene	2440	3000	113	30 *	25 25-125
Fluoranthene	2440	7100	230 *	57 *	25 25-125
Pyrene	2440	18000	570 *	51 *	25 26-127
Benzo(a)anthracene	2440	5100	164 *	31 *	25 25-125
Chrysene	2440	5300	164 *	24	25 25-125
Benzo(b)fluoranthene	2440	5600	148 *	28 *	25 25-125
Benzo(k)fluoranthene	2440	4600	149 *	28 *	25 25-125
Benzo(a)pyrene	2440	5900	135 *	37 *	25 25-125
Indeno(1,2,3-cd)pyrene	2440	6600	152 *	28 *	25 25-125
Dibenzo(a,h)anthracene	2440	3400	139 *	15	25 25-125
Benzo(g,h,i)perylene	2440	11000	197 *	38 *	25 25-125

Column to be used to flag recovery and RPD values with an asterisk.
* Values outside of QC limits.

RPD: 10 out of 16 outside limits
Spike Recovery: 19 out of 32 outside limits

COMMENTS:

30

SOIL SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: L40808

Matrix Spike - NYSDEC Sample No.: SBLXS218 (Q-5218)

COMPOUND	SPIKE ADDED (UG/KG)	BLANK CONCENTRATION (UG/KG)	BS CONCENTRATION (UG/KG)	BS % REC #	QC LIMITS REC.
Naphthalene	1670	0.0	1300	78	25-125
Acenaphthylene	1670	0.0	1400	84	25-125
Acenaphthene	1670	0.0	1400	84	25-125
Fluorene	1670	0.0	1400	84	25-125
Phenanthrene	1670	0.0	1400	84	25-125
Anthracene	1670	0.0	1300	78	25-125
Fluoranthene	1670	0.0	1400	84	25-125
Pyrene	1670	0.0	1400	84	25-125
Benz(b)anthracene	1670	0.0	1500	90	25-125
Chrysene	1670	0.0	1400	84	25-125
Benz(b)fluoranthene	1670	0.0	1800	108	25-125
Benz(k)fluoranthene	1670	0.0	980	59	25-125
Benz(a)pyrene	1670	0.0	1400	84	25-125
Indeno(1,2,3-cd)pyrene	1670	0.0	1400	84	25-125
Dibenzo(a,h)anthracene	1670	0.0	1300	78	25-125
Benz(g,h,i)perylene	1670	0.0	1700	102	25-125

Column to be used to flag recovery values with an asterisk.

* Values outside of QC limits.

Spike Recovery: 0 out of 16 outside limits

COMMENTS:

New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Construction Services, Room 267
50 Wolf Road, Albany, New York 12233-7010
Phone: (518) 457-9280 FAX: (518) 457-7743



SEP 14 1998

FAX

Mr. Bert W. Finch
Licensing & Environmental Operations
New York State Electric & Gas Corporation
Corporate Drive, Kirkwood Industrial Park
P.O. Box 5224
Binghamton, New York 13902-5224

Dear Mr. Finch:

Re: NYSEG Waterville Former Manufactured Gas Plant
Interim Remedial Measure Final Engineering Report

The Department has reviewed the addendum dated August 7, 1998. All of the comments from the May 22, 1998 letter have been addressed; and therefore, the Interim Remedial Measure Final Report is acceptable at this time.

Sincerely,

James G. Van Hoesen, P.E.
Chief, Central Field Services Section
Bureau of Construction Services
Division of Environmental Remediation

cc: J. Simone - NYSEG
G. Litwin - NYSDOH
N. Caruso - Oneida County DOH