6- -02

FILE COPY

NYSEG

NEW YORK STATE ELECTRIC & GAS CORPORATION
Corporate Drive, Kirkwood Industrial Park, P.O. Box 5224
Binghamton, New York 13902-5224

INTERIM REMEDIAL MEASURES

WORK PLAN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION
PROSPECT STREET OVER ERIE CANAL PROJECT

FOR ACTIVITIES ADJACENT TO

LOCKPORT STATE ROAD
FORMER MANUFACTURE GAS PLANT SITE
City of Lockport, Niagara County, New York

JUNE 2002

Prepared By:
NYSEG Licensing & Environmental Operations Department

Reviewed and Approved By:
New York State Department of Environmental Conservation
and New York State Department of Health

NYSEG

NEW YORK STATE ELECTRIC & GAS CORPORATION
Corporate Drive, Kirkwood Industrial Park, P.O. Box 5224
Binghamton, New York 13902-5224

INTERIM REMEDIAL MEASURES

WORK PLAN

NEW YORK STATE DEPARTMENT OF TRANSPORTATION
PROSPECT STREET OVER ERIE CANAL PROJECT

FOR ACTIVITIES ADJACENT TO

LOCKPORT STATE ROAD
FORMER MANUFACTURED GAS PLANT SITE
City of Lockport, Niagara County, New York

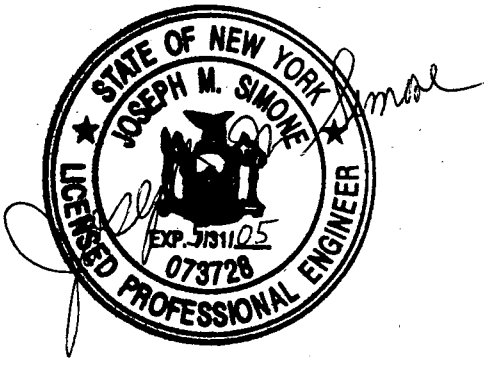
JUNE 2002

Prepared By:

Bert W Finch
Project Manager

Approved By:

Joseph M. Simone, P.E.
Program Manager



WARNING: It is a violation of Title VIII of the Education Law of New York State, Article 145, for any person, unless acting under the direction of a licensed professional engineer, to alter this document.

Table of Contents

Figures

Tables

Appendixes

List of Acronyms Referred to in the Document

ACGIH	American Congress of Government Industrial Hygienists
ALJ	Administrative Law Judge
ANSI	American National Standards Institute
AOC	Area of Contamination
AQMP	Air-Quality Monitoring Program ASP - analytical service protocol
ASTM	American Society for Testing and Materials
ATSDR	Agency for Toxic Substances and Disease Registry
AWQC	Ambient Water Quality Criteria
BTEX	benzene, toluene, ethylbenzene and xylenes
BTU	British thermal unit
BWT	Body Water Temperature
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
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
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
LDRs	Land Disposal Restrictions

LGAC	liquid-phase granular activated carbon
mg	milligram
MGP	manufactured gas plant
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
RAP	Remedial Action Plan
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
TC	toxicity characteristic
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
USWAG	Utilities Solid Waste Activities Group
UTS	Universal Treatment Standard
VOCs	volatile organic compounds
VOA	volatile organic analysis
WBGT	wet bulb globe temperature

1.0 INTRODUCTION

This Interim Remedial Measure Work Plan *(Work Plan)* describes interim remedial measure (*IRM*) proposed for activities adjacent to the Lockport State Road former manufactured gas plant (MGP) site (Site) located in the City of Lockport, Niagara County, New York, as shown on Figure 1. The *IRM* will be undertaken by NYSEG (New York State Electric & Gas Corporation) and New York State Department of Transportation (NYSDOT) and will involve excavation and disposal of coal tar contaminated soil (CTS) and water. The NYSDOT will construct a road over a small portion of the former MGP Site. A more significant portion of the road will also be constructed on NYSEG property adjacent to the former MGP Site. This *IRM* is being proposed in accordance with Section III of the Order on Consent (Index No. DO-000209309, see Appendix F) between NYSEG and the New York State Department of Environmental Conservation (NYSDEC).

This *Work Plan* describes the techniques to be utilized for the sampling, excavation, material handling, community air monitoring, waste characterization, transportation and disposal of MGP residues. This effort will be performed under the approval and oversight of NYSDEC, NYSDOT and New York State Department of Health (NYSDOH).

1.1 Site Location and Description

The State Road Site is located in a mixed commercial/residential area in the southwest section of Lockport, New York. The closest residence is within 50 feet of the site. The site is bordered by the New York State Barge Canal to the northwest, a NYSEG gas regulator house to the southwest, State Road to the southeast, and by an open lot to the northeast. The site consists of open vegetated and gravel-covered land with the only existing structure being a partially fenced-in gas regulator. A large percentage of the site appears to be filled and rubble empiaced adjacent to the New York State Barge Canal. Former manufactured gas plant structures believed to exist on the site were a gas holder, tar tanks, plant buildings and a warehouse. All of the structures have been razed except for their foundations.

1.2 Site History

The State Road Site is the location of the former State Road Tar Works in the City of Lockport, Niagara County, New York. The State Road Tar Works was established as a secondary processing plant for tar generated at the Transit Street MGP Site. The Transit Street MGP was located approximately one block east of the State Road Tar Works in Lockport. The 1898 Sanborn Map showed State Road Site occupied by several warehouses that were owned by Lockport Gas Light Company. The State Road Tar Works was identified on the 1903 Sanborn Map. Several tar tanks and ammonia tanks are also depicted. Lockport Light, Heat and Power Company acquired the site in 1907. The site remained essentially unchanged between 1903 and 1919. The 1928 Sanborn Map documented the construction of a 500,000 cubic foot gas holder northeast of the warehouse building between 1919 and 1928. In 1929, NYSEG acquired the Lockport Light, Heat and Power Company, and in the process, the property now referred to as the State Road Site. The old stone building, adjacent to State Road and north west of the holder, was added onto and converted into a gas compressor building by 1938.

1.3 Nature of Potential Industrial Residues Located at the Site

For the purpose of this document, MGP residues refer to coal tar soils and coal tars. Coal tar soils (CTS) are typically a nonhazardous mixture, as defined by the Resource Conservation and Recovery Act (RCRA), and consists of a mixture of soil, coal tar, and demolition debris (i.e., brick, timbers, scrap metal, concrete, etc.). These materials generally contain varying concentrations of polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), and heavy metals.

Coal tars are a by-product from gas manufacturing at former MGP. These materials are typically defined as a Hazardous Waste by RCRA due to the leachable concentrations of benzene. These materials generally contain 10% or more of PAHs and VOCs.

Purifier waste (characteristically blue color) are spent iron filings and wood chips and is present along the embankment. These materials vary in their concentration of sulfides and cyanides and thus some of the purifier wastes are defined by RCRA as

nonhazardous while concentrated disposal areas may have materials which meet the definition of hazardous waste.

1.4 Previous Investigation

In May 1991, NYSEG's consultant Atlantic Environmental Services, Inc. completed a *Manufactured Gas Plant Site Screening Report*. This investigation was completed prior to NYSEG signing the Order on Consent and were not done under NYSDEC oversight.

In September 2000, NYSEG completed a *Pre-Construction/Remediation In-situ Sampling & Analysis Work Plan* with NYSDEC oversight.

Documents associated with the previous investigations and this *IRM* are available for public review at the following document repositories:

- Lockport City Library
  23 East Street
  Lockport, New York 14094
  Attn.: Margaret Lynch
  Phone: (716) 433-5935

- New York State Department of Environmental Conservation
  270 Michigan Avenue
  Buffalo, New York 14203-2999
  Attn.: Martin Doster
  Phone: (716) 851-7220

- NYSEG (New York State Electric & Gas Corporation)
  6544 Lincoln Avenue
  Lockport, New York 14095
  Attn.: Frank B. Inglese
  Phone: (716) 438-9803, Ext. 367

2.0 PROJECT OBJECTIVES

The overall objectives of the proposed *IRM* will be to support the Prospect Street over Erie Canal Construction Project (BIN 4454180) proposed by the NYSDOT. This work will include the excavation, handling, disposal of coal tar contaminated soil

and handling, collection, disposal of contaminated construction water and groundwater, as required to complete the *IRM*. Excavated surface soil, depending on analytical results, may be used for subsurface backfill. At least four feet of clean fill will be placed over subsurface backfill.

This *IRM* is scheduled to be initiated during the Fall of 2002.

3.0 ORGANIZATIONAL STRUCTURE AND RESPONSIBILITY

NYSEG and New York State regulatory agencies will participate jointly in the remedial action for the Prospect Street over Erie Canal Construction Project adjacent to the Lockport State Road former MGP site. NYSEG and NYSDOT have the ultimate responsibility for implementing this Work Plan for the project, including the community air monitoring program during the project (see Organization Structure in Appendix G). Approval of this *Work Plan* by the NYSDEC and the NYSDOH will be secured prior to site excavation. NYSDEC and NYSDOH personnel are anticipated to be on-site periodically for purposes of general program oversight. The NYSDOT's Contractor will be responsible for all on-site construction operations during the *IRM*, unless otherwise stated in Section 4.0, including: excavation safety; construction personnel health and safety; worker's personal protective equipment; worker's personal air monitoring program; implementation of contingency plans for odor control; handling of wastewater and waste-handing operations; maintenance of Site controls (i.e., run-off, run-on); traffic controls; heavy equipment, tools and materials; and the construction, excavation, and material handing activities associated with the remedial action. NYSEG is responsible for ensuring that the remedial program is implemented in accordance with this *Work Plan*; community air monitoring; providing a technician who will collect soil samples and send them to NYSDOT's contract laboratory; construction oversight; post excavation soil sampling and analysis; any incremental excavation and associated disposal of material beyond that which is required by NYSDOT for bridge and road construction; transportation and disposal of all soil, water, and other materials which is determined to be a RCRA hazardous waste; and documentation of the extent of the removal action.

Communication with reguiatory agencies and with members of the surrounding community will be managed by NYSEG. The plan for sharing project information with the community (*Citizen Participation Plan*, *CPP* in Appendix B).

Key personnel and their assigned responsibilities for implementation of the remedial action include:

NYSEG: Joseph M. Simone, P.E.: Program Manager
NYSEG
Corporate Drive, Kirkwood Industrial Park, P.O. Box 5224
Binghamton, New York 13902
Phone: (607) 762-7498
E-mail: jmsimone@nyseg.com

NYSEG: Bert W. Finch: Project Manager
NYSEG
Corporate Drive, Kirkwood Industrial Park, P.O. Box 5224
Binghamton, New York 13902
Phone: (607) 762-8683
E-mail: bwfinch@nyseg.com

NYSEG: Walter J. Savichky: Soii and Air Sampling Oversight
NYSEG
Corporate Drive, Kirkwood Industrial Park, P.O. Box 5224
Binghamton, New York 13902
Phone: (607) 762-7412
E-mail: wjsavichky@nyseg.com

NYSDEC: David Crosby, P.E.: Project Manager
NYSDEC
625 Broadway
Albany, New York 12233-7013
Phone: (518) 402-9813
E-mail: dacrosby@gw.dec.state.ny.us

NYSDOH: Mark VanValkenburg: Community H&S Oversight
New York State Department of Health
Flannigan Square
547 River Street
Troy, New York 12180-2216
Phone: (518) 402-7890
E-mail: mev05@heaith.state.ny.us

Niagara County Department of Health:

Paul Dicky
Niagara County Department of Health
5467 Upper Mountain Road
Lockport, New York 14094
Phone: (716) 439-7444

NYSDOT: Project Engineer: (To Be Determined)

NYSDOT: Engineer-In-Charge: (To Be Determined)

NYSDOT: Tracy Wheeler: Environmental Services
NYSDOT
125 Main Street
Buffalo, New York 14203
Phone: (716) 847-3189
E-mail: twheeler@gw.dot.state.ny.us

4.0 INTERIM REMEDIAL MEASURE PROGRAM

This *Work Plan* includes a chronological description of anticipated IRM activities together with a schedule for performance of these activities. Documents include a health and safety plan, figures, pre-remediation in-situ sampling & analysis work plan, citizen participation plan, construction quality assurance plan, quality assurance project plan, transportation of solid and/or liquid waste plan, project schedule, organization structure, site vapor emission response plan, and a contingency plan.

Actual project data (i.e., community air monitoring, noise, dust control, etc.), obtained from NYSEG's previous remediation and material processing efforts at other MGP sites, have been used as guidance to design the procedures for directing this *IRM* program and to minimize any potential impacts to the community. The following sections describe the procedures to be used for the remedial activities.

4.0.1 Definitions of MGP Materials

MGP Residue - All material which is contaminated with waste from the manufactured gas plant.

Coal Tar - Free phase tar.

Coal Tar Soil (CTS) - Soil that exhibits evidence of coal tar staining, but no free phase tar. For purposes of this *Work Plan*, any soil excavated will be disposed as CTS.

Subsurface Backfill (to be used below four feet) - Excavated soil that meets chemical concentration limits described in section 4.0.2, based on analytical results, and has no visual staining or coal tar odor.

4.0.2 Pre-Construction/Remediation Sampling and Analysis

NYSEG has conducted an in situ sampling event at the Lockport State Road former MGP Site. This sampling event was conducted in accordance with the Pre-Construction/Remediation In Situ Sampling & Analysis Work Plan Lockport State Road Former MGP Site, Lockport, New York, approved by the NYSDEC. Work was completed with NYSDEC oversight. See Appendix A.

The results of the sampling and analysis will be used to designate sections of the soil into the following three categories:

Hazardous Waste - CTS which exceeds the toxicity characteristic leaching procedure (TCLP) limits or reactivity limits.

Non Hazardous Waste - CTS which is below the TCLP limits and reactivity limits.

Subsurface Backfill - Soil which is below TCLP limits and shall not exceed total benzene 0.06 ppm, total toluene 1.5 ppm, total ethylbenzene 5.5, total xylenes 1.2, total PAHs 500 ppm, and naphthalene 13.0.

4.0.3 General Excavation Limits and Procedures

The removal of coal tar contaminated soil and water will be accomplished through open-cut excavation techniques which require sloping or benching of the excavation side walls to prevent sloughing or collapse of adjacent soils. A more extensive description of the procedures and contingencies for excavation is contained in Section 4.3 of this *Work Plan*.

The project may result in potential nuisance community impacts such as noise and traffic. However, all on-site work will be conducted so that public impact is minimized, to the extent practicable.

Construction activities undertaken during the *IRM* will be completed in accordance with the *Construction Quality Assurance Plan* (See Appendix C).

4.0.4 Disposal Protocol

In situ samples were collected 0-4 feet between State Road and top of embankment (Figure 3; Area 1, Area 2, Area 3 and Area 4) in accordance with *Pre-Construction/Remediation In Situ Sampling & Analysis Work Plan Lockport State Road Former MGP Site*. The project work area has increased since the In Situ Sampling was performed. Soil excavated outside of the area previously sampled will be either sampled in situ prior to construction or excavated, stockpiled and sampled.

- If the analytical results of the soil samples collected indicate that the analytes listed in Table 4-1, 4-2, 4-3, 4-4 and 4-5 are within specified limits, then the respective soil from these areas may be reused as subsurface fill in excavated area. If, during the course of excavation, soil with visual or odorous coal tar contamination is encountered, it will be segregated and sent to a permitted disposal facility.

- If analytical results of a soil sample collected for waste characterization indicated that the Analytes listed in Table 4-1, Table 4-2 and Table 4-3 are within their specified limits, then its respective soil may be sent to an

industrial nonhazardous waste landfill. If, during excavation, seams of free phase coal tar not characterized by in situ sampling are encountered, then this material will be (1) segregated and sent to a hazardous waste disposal facility; or (2) placed in a roll off, sampled and analyzed for waste characterization parameters.

- If analytical results of a soil sample collected for waste characterization indicated that the Analytes listed in Table 4-1, Table 4-2 and Table 4-3 exceeds its specified limit, then its respective soil will be sent to a hazardous waste disposal facility permitted to accept this waste stream.

TABLE 4-1 **(Continued on next page)**
COMPOSITE SAMPLE TCLP ANALYTES AND LIMITS

TCLP ANALYTE	REGULATORY LIMIT (mg/L) [6NYCRR Part 371]
Arsenic	5.0
Barium	100.0
Benzene	0.5
Cadmium	1.0
Carbon tetrachloride	0.5
Chlorobenzene	0.03
Chloroform	6.0
Chromium	5.0
Cresols (total of o,m,p)	200.0
2,4-D	10.0
1,4-Dichlorobenzene	7.5
1,2-Dichloroethane	0.5
1,1-Dichloroethylene	0.7
2,4-Dinitro toluene	0.13
Endrin	0.02

TABLE 4-1 (Continued from previous page) COMPOSITE SAMPLE TCLP ANALYTES AND LIMITS	
TCLP ANALYTE	**REGULATORY LIMIT (mg/L) [6NYCRR Part 371]**
Heptachlor	0.008
Hexachlorobenzene	0.13
Hexachlorobutadiene	0.5
Lead	5.0
Lindane	0.4
Mercury	0.2
Methoxychlor	10.0
Methyl ethyl ketone	200.0
Nitrobenzene	2.0
Pentachlorophenol	100.0
Pyridine	5.0
Selenium	1.0
Silver	5.0
Silvex	1.0
Tetrachloroethylene	0.7
Toxaphene	0.5
Trichloroethylene	0.5
2,4,5-Trichlorophenol	400.0
2,4,6-Trichlorophenol	2.0
Vinyl chloride	0.2

TABLE 4-2 COMPOSITE SAMPLE ANALYTES AND ACTION LIMITS REACTIVE CYANIDE AND REACTIVE SULFIDE (REACTIVITY)	
ANALYTE	**US EPA ACTION LIMIT (mg/Kg)**
Reactive Cyanide	250
Reactive Sulfide	500

TABLE 4-3 COMPOSITE SAMPLE ANALYTES AND ACTION LEVELS LANDFILL ANALYTICAL	
ANALYTE	**LIMIT**
PCBs (total)	50 mg/Kg
Corrosity (pH)	Non-Corrosive (pH must be >2 or <12.5)
Flashpoint	Must be >60 Deg. C
% Solids	Must be >20%

TABLE 4-4 TOTAL BENZENE, TOLUENE, ETHYLBENZENE AND XYLENES	
PARAMETER	**LIMIT (ppm)**
Benzene	0.06
Toluene	1.5
Ethylbenzene	5.5
Xylenes	1.5

TABLE 4-5 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) TOTAL PAHs SHALL NOT EXCEED 500 PPM TOTAL cPAHs SHALL NOT EXCEED 50 PPM TOTAL NAPHTHALINE SHALL NOT EXCEED 13.0 PPM
PARAMETER
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 (cPAH)**

4.0.5 Stockpile Management for Sampling

Soil will be placed in the stockpile area in piles not to exceed 200 cubic yards. The stockpiles will then be sampled in accordance with Section 6.2.1.

Dust and odor suppression techniques will be employed, as necessary, while stockpiled material is added or removed from the piles, and all piles will be covered to the greatest extent practicable. All piles will be completely covered when not being work or at the end of each working day. The work zone and community air monitoring plans (Section 5.0) will be in effect during these operations to monitor for potential releases to the atmosphere.

Water collected within the stockpile management areas will be pumped into either 1,500 gallon containers or a 21,000 gallon frac tank.

4.0.6 Post Excavation Sampling Requirements

Sampling and analysis of soils will be conducted after the excavation is completed. Soil samples will be collected under material storage areas (i.e., roll-off storage area, water storage areas and equipment contamination reduction area). Procedures for post excavation sampling are presented in Section 6.2.2 of this Work Plan.

4.1 Site Set Up

4.1.1 Notification

Prior to any on-site construction activities, the Underground Facility Protection Organization (UFPO) will be notified, and all on-site underground utilities will be marked in the field. Local police and fire departments will also be notified. The *Citizen Participation Plan for Activities Adjacent to the Lockport State Road Former Manufactured Gas Plant Site* addresses notification of adjacent property owners and local officials.

4.1.2 Site Security

A 6-foot high, chain-link fence will be placed around the perimeter of the site with a main entrance gate at the southeast corner of the site near the intersection of State Road and West High Street (see Figure 4). "NO TRESPASSING" signs will be installed on the perimeter fencing. During daily operations, admittance requirements and visitor monitoring will be in effect, as specified in the *Health and Safety Plan for Activities Adjacent to the Lockport State Road Former Manufactured Gas Plant Site.* The gates will be locked will be locked at night and weekends.

4.1.3 Construction Office

NYSDOT will provide an office trailer that will be mobilized to the Site, blocked and leveled, and equipped with office supplies (see Figure 4). Electric, telephone service, facsimile capabilities, potable water and portable toilets will be available for all project personnel. The NYSDEC oversight personnel will have an area with a desk, electrical outlet, phone and a phone line for computer hookup. When required, an area will be available for the NYSDEC onsite personnel to have a confidential phone conversation with other NYSDEC and NYSDOH staff. The air sampling technician will have an area for monitoring equipment, sample preparation and storage. Also available will be space for records storage, personal protective equipment, and first aid location.

4.1.4 Exclusion Zone

The Exclusion Zone will be the immediate area of excavation (see Figure 4) and inside the transporter's trailer or roll off container.

4.1.5 Contamination Reduction Zone

The Contamination Reduction Zone will include the personnel contamination reduction area, equipment contamination reduction pad, wastewater storage area and roll-off containers storage area. A 4-foot high orange construction fence will be placed along the perimeter of this area. The Contamination Reduction Zone will also

include the truck loading area and as a minimum a lane 3 feet wide outside the Exclusion Zone. Yellow caution tape will be placed along the perimeter of the Contamination Reduction Zone and the Exclusion Zone (see Figure 4).

4.1.5.1 Equipment Contamination Reduction Pad

An equipment contamination reduction pad (ECRP), with a minimum size of 20 feet X 40 feet, will be sloped to a collection sump and be constructed as follows: The existing ground surface will be graded and compacted as required; two inches of medium sand will be placed over the proposed area; 10-inch X 10-inch timbers, held in place by #5 rebar, will be placed along the perimeter; medium sand will be bermed around the inside of the timbers to protect the sheeting; 30-mil thick HDPE sheeting will be placed over the sand and timbers; sheeting will be secured by nailing wooden battens to the timbers; two inches of medium sand will be placed on the sheeting; a sump will be constructed in the lowest area by using a 12-inch diameter slotted PVC pipe and will be set in stone to collect water; and four inches of #2 stone will be placed on the sand. In addition, a submersible pump will be placed in the sump as required to transfer wastewater via hose to storage containers. At the completion of this *IRM*, the sand and stone will be sampled, analyzed and disposed of at a permitted facility. To keep rain out, the equipment ECRP will be covered with a 6-mil thick polyethylene sheet and secured with sandbags.

4.1.5.2 Personnel Contamination Reduction Area

A personnel contamination reduction area, as a minimum, will be constructed by placing 6-mil polyethylene sheet on the ground. Stage 1 will contain a boot wash tub with solution of detergent, water and a long handle brush. Next will be an additional boot wash tub containing rinse water and a long handle brush. A 55-gallon barrel lined with a 6-mil polyethylene bag will also be available for disposing Tyvek® suits, gloves, paper hand towels, etc. Stage 2 will contain a hand wash tub with solution of detergent and water. Next will be an additional hand wash tub containing rinse water. Paper hand towels will also be available in this area.

4.1.6 Preparation of Stockpile Management Areas

Stockpile management areas will be prepared for stockpiling excavated soils (see Figure 4). The areas will be prepared as follows: The existing ground surface will be graded and compacted as required; a sump will be constructed in the lowest area; two inches of medium sand will be placed over the proposed area; 8-inch X 8-inch timbers, held in place by #5 rebar will be placed around the perimeter; sand will be bermed around the timbers to protect the liner; a 10-mil polyethylene sheeting will be placed over the sand and timbers; sheeting will be secured by nailing wooden battens on the outside of the timbers; four inches of medium sand will be placed on the sheeting. The stockpiles will be covered with a 6-mil thick polyethylene sheet and secured with sandbags.

4.1.7 Support Zone

The Support Zone will be the areas outside the Contamination Reduction Zone (see Figure 4).

4.1.8 Erosion and Sedimentation Control

Erosion and sediment control will be implemented per NYSDOT Specification and Drawings for Prospect Street Bridge Over Erie Canal (BIN 4454180) and NYSDOT contractor proposal. The erosion and sediment controls must be approved by NYSDEC, NYSDOH and NYSEG.

4.2 Mobilization

NYSDOT's contractor will mobilize equipment, personnel and materials to perform the *IRM*. Mobilization to the Site will be sequential in nature to accommodate the general requirements and specific operations to be undertaken. NYSDOT's contractor anticipates mobilizing the following major pieces of equipment: one (1) frac tank, one (1) excavator, one (1) articulated wheel loader, one (1) dozer, miscellaneous portable equipment, air monitoring equipment, and hand tools.

Equipment and mode of operation will be described in further detail in the following sections.

4.3 Excavation of Contaminated Soil

The procedures that will be implemented during all excavation activities are as follows. The excavation of soil will be accomplished through open cut excavation techniques which require sloping or benching of the excavation side walls over four feet deep at a minimum of one and one-half horizontal to one vertical ratio to minimize sloughing or collapse of adjacent soils. Excavation will be supervised by a competent person (29 CPR 1926.650) to maintain compliance with the Occupational Safety and Health Administration's (OSHA's) excavation standards.

If Tarry Waste (grossly contaminated soil, with visible free phase coal tar present) is encountered in a section of the excavation classified as nonhazardous waste, it will be placed in roll off containers, sampled and covered with tarp. Caution will be taken during segregation of such tarry waste to ensure that excavation techniques will not be used to dilute the tarry waste for the purpose of disposal as non-hazardous waste.

Odors or fugitive vapors which could potentially emanate from this excavation will be actively controlled by misting the working area with BIO SOLVE® and by covering the excavation with polyethylene sheeting in inactive areas and overnight. The BIO SOLVE® will be applied using a pressure washer. A worker will be available for dedicated operation of this equipment if required.

Dust will be actively controlled by misting the excavated area with water or BIO SOLVE®. The NYSDOT contractor will water and sweep streets as required to insure no tracking of soil or mud off-site.

Prior to backfilling the excavation, the NYSDOT contractor will place a visual marker (i.e., orange construction fencing, geotextile fabric, etc.) to delineate the limits of the excavation.

4.4 Storm and/or Ground Water

NYSDOT Contractor will pump storm water from excavation area into 21,000 gallon frak tanks. The tanks' contents will be sampled and characterized in accordance with the acceptance requirements of the facility permitted to accept the wastewater. Upon receipt of favorable laboratory analytical results and NYSDEC approval, the wastewater will be transferred into a tank truck and transported off-site for disposal at a properly permitted facility.

4.5 Construction Equipment, Tools and Trucks Decontamination

The tires, tracks, and excavation bucket of construction equipment and tools which enter the Exclusion Zone will be decontaminated prior to entering the Support Zone. Decontamination procedures include the physical/mechanical removal of soil and high-pressure washing. If tarry waste is encountered during excavation the equipment will be decontaminated before excavating non hazardous soil. At a minimum, this would include decontaminating the excavation bucket.

Trucks transporting soil off site will be staged in the Contamination Reduction Zone and placed on 6 mil polyethylene sheeting. Care will be exercised when loading trucks not to spill material on the outside of the trucks. Prior to leaving the Contamination Reduction Zone, each truck will be visually inspected (i.e. box sidewalls , box tailgate, and tires, etc.) and cleaned with brushes as required. In addition trucks will be tarped in the Contamination Reduction Zone. Before staging another truck, the 6 mil polyethylene sheeting will be either cleaned by brooms or replaced.

4.6 Waste Transportation and Disposal

The transportation of soil will be accomplished by a transportation contractor in accordance with the NYSEG specification for the *Transportation of Solid/or Liquid Materials* (see Appendix E). All truck drivers leaving the site must have either a Hazardous Waste Manifest or a Nonhazardous Solid Waste Manifest.

Trucks and roll off containers transporting coal tar contaminated hazardous waste will have the entire box (to top of side boards) lined with 4-mils thick polyethylene sheets (poly sheets). Trucks transporting non hazardous waste may be lined as previously stated, if conditions warrant. All trucks will also have a gasket between the box and tailgate.

The NYSDOT contractor remedial workers will reposition the tarp support bars over the loads. Drivers will not be allowed to walk over loads.

Stockpiled soil and debris will be removed and disposed of within 90 days of start of excavation. The NYSDOT contractor must provide a waste management plan for RCRA non-hazardous material for review and approval by NYSDEC and NYSEG. NYSEG will provide transportation and disposal for RCRA hazardous material at a permitted facility approved by NYSDEC.

4.7 Site Restoration

Site Restoration will be part of the NYSDOT Specifications and Drawings for Prospect Street Bridge Over Erie Canal (BIN 4454180). The site restoration must be approved by NYSDEC and NYSEG. In general the excavated area will be covered with asphalt and concrete sidewalks. The remaining area will be a lawn and storage area.

4.8 Documentation Of Site Activities

4.8.1 Daily Logbook

A designated logbook will be used to document daily on-site activities. The daily logbook will be kept in the field office.

4.8.2 Master Sample Log

A laboratory notebook will remain in the field office to record every sample collected. The field technician will log in all samples collected and those sent to the off-site analytical laboratory. Waybill numbers will be logged at the end of each day.

4.8.3 Chain-of-Custody Record

A Chain-of-Custody (COC) form will document custody of all samples from the field to the laboratory.

4.8.4 Waybills

A waybill receipt will be obtained at the time of accepted sample shipment by Federal Express or courier and will be attached to the Master Sample Log.

4.8.5 NYSEG's Public Liability Accident Report, NYSEG's Report of Employee Injury, and NYSEG's Incident Report

The above-mentioned report forms will be used to document any accident occurring on-site during the remedial project. The sheets are attached to the HASP and will be located in the field office.

4.9 Site Cleanup

All equipment, materials and construction debris will be removed from the site at the conclusion of the project.

4.10 Project Schedule

The project work schedule shall be included in the NYSDOT Contractor Proposal. Under no circumstances will work be performed prior to NYSDEC approval for the

Work Plan. NYSDEC and NYSEG will be notified 30 days in advance to start of work.

4.11 Permits

NYSDEC Waste Transporter permits (6NYCRR Part 364) will be obtained by the Transportation Contractor for the vehicles used for transportation of waste as specified in subsection 4.6 of this *Work Plan.* All other permits required for this project will be the responsibility of the NYSDCT.

5.0 AIR-QUALITY MONITORING PLAN

5.1 Overview

The objective of this Air-Quality Monitoring Program (AQMP) is to provide direct measurement of total suspended particulates (0.1 to 10 microns) and chemical compounds which could potentially be released during excavation, handling, and transportation of MGP residues at the site. The air-quality monitoring program consists of (1) work area (exclusion zone) air-monitoring for evaluating construction worker health and safety; and (2) community air-monitoring to determine the levels of volatile compounds and particulate at the perimeter of the site. Real-time air monitoring and speciated real-time data will be used to guide appropriate action to reduce/minimize air emissions to acceptable levels. NYSEG has developed an Lockport State Road MGP Site Vapor Emission Response Plan (see Appendix H).

5.2 **Work Zone Air-Monitoring Program** (Responsibility of NYSDOT Contractor)

NYSDOT contractor will undertake a work zone air-monitoring program during the IRM project to provide direct measurement of volatile organic compounds, total suspended particulates, hydrogen cyanide and hydrogen sulfide which may be released during excavation and handling of MGP residues and activities associated with the IRM project. The air quality within the work zone will be monitored to ensure worker health and safety in accordance with requirements specified in 29

CPR 1910.120 as described in the Lockport State Road Former MGP Site Health and Safety Plan.

5.3 **Community Air-Monitoring Program** (Responsibility of NYSEG)

5.3.1 Overview

NYSEG will undertake a community air-monitoring program during the IRM project to provide direct measurement of volatile organic compounds, total suspended particulates, hydrogen cyanide and hydrogen sulfide which may be released during excavation and handling of MGP residues and activities associated with the IRM project. This air-monitoring program is directed toward evaluating and documenting the migration of potential emissions to the site perimeter. Results will be used to confirm the maintenance of safe air quality surrounding the site during the handling of contaminated soils. If contaminant levels in the air exceed the air-quality action levels detailed in Section 5.3.2.1, the site construction supervisor will be promptly alerted to the results of the monitoring and the need for the implementation of additional measures (as described in Section 5.3.2.1) to further control emissions from the site. The community air monitoring program is intended to supplement, but be discrete from, the work zone air monitoring program implemented for purposes of evaluating site worker health and safety during construction and materials handling.

Real-time air quality monitoring for volatile organic compounds and total suspended particulates, hydrogen cyanide, hydrogen sulfide as well as speciated BTEX (benzene, toluene, ethylbenzene and xylenes) real-time air monitoring will provide the site construction supervisor with immediate data concerning air quality at the site during the project. The procedures for monitoring and the short-term air quality action levels are subsequently described in this section. Real-time air quality data will be collected throughout the duration of excavation activities. Background data will be collected over a one-day period prior to soil excavation when no soil handling work is being performed.

Based on continuous meteorological data gathered for each day of intrusive work activities, an upwind and downwind station will be established for each work area,

at a position between the work area and the site perimeter (referred to henceforth as site perimeter monitoring). The upwind and downwind positions will be modified if meteorological data indicate a shift in wind direction. The position of the upwind and downwind locations will be documented through the use of a hand held global positioning system (GPS) unit.

5.3.2 Real-Time Air Monitoring -Volatile Organic Compounds

Real-time total VOC monitoring will commence at the start of each work day and will continue until daily activities have ceased. The real-time data generated will allow the NYSDOT contractor construction supervisor to determine if air quality at the work area and site perimeter are being impacted by site activities and whether the implementation of emission control measures, as delineated in Section 5.3.2.1, is necessary.

Real-time monitoring will be accomplished using a total volatile organic analyzer equipped with a photo ionization detector (PID) and a 10.2-eV lamp, which will be calibrated daily to benzene with a 10 ppm isobutylene air standard. The PID will be capable of calculating 15-minute running average concentrations. Monitoring will be undertaken at the downwind location of the work area and site perimeter on a continuous basis during daily Upwind concentrations will be measured at the start of each workday and if a change in wind direction has occurred. Equivalent backup, real-time air-monitoring equipment will be available on-site, should a piece of equipment malfunction.

Equipment to effectively monitor wind direction will be erected at the site..

Sampling at each station will be accomplished by pointing the intake tube of the PID toward the likely emission source, generally at the height of the breathing zone (4 to 5 feet). The instrument will then be turned on and allowed to run. After 15-minutes have elapsed, the calculated running average concentrations of total volatiles in air will be measured and recorded on data sheets along with the time, sampling location, wind direction, and weather conditions. Real-time air monitoring data will be kept in on-site files. On a daily basis, these data will be submitted to Mark VanValkenburg, of NYSDOH, at mev05@health.state.ny.us; Tracy Wheeler,

of NYSDOT, at twheeler@gw.dot.state.ny.us; and Walter Savichky of NYSEG, at wjsavichky@nyseg.com.

Based on data published by OSHA (Occupational Safety and Health Administration), ACGIH (American Congress of Government Industrial Hygienists), and NIOSH (National Institute for Occupational Safety and Health), short-term air quality action levels have been established for air emissions control at the site perimeter. An action level of total volatiles at the site perimeter has been established at 5.0 ppm above background (see below). If this action level is exceeded the following actions will be taken:

(1) Work activities will be halted and actions specified under the Vapor Emission Response Plan (Section 5.3.2.1) will be undertaken.

(2) A benzene-specific Dräger™ tube or a portable gas chromatograph (GC) unit (i.e., Perkin-Elmer Photovac Voyager™) will be used to measure the concentration of benzene migrating from the site perimeter.

The 5.0 ppm action level at the site perimeter is based on an estimated concentration of benzene in the PID reading from total BTEX compounds measured during monitoring. Since the PID detects volatile compounds other than BTEX, the 5.0 ppm action level is considered conservative. If odors are detected in the nearby community, despite the fact that total VOC levels are below the 5.0 ppm action level, engineering controls as described in Section 5.3.2.1 will be implemented.

An action level of 2.5 ppm above background will be used at the work area, in accordance with OSHA short-term exposure limits (STEL) for benzene to ensure construction worker health and safety (29 CFR 1910.1028). If the total VOC concentration exceeds 2.5 ppm, worker personal protective equipment will be upgraded from Modified Level D to Level C as specified in the Health and Safety Plan.

5.3.2.1 Vapor Emission Response Plan.

The *Lockport State Road MGP Site Vapor Emission Response Plan* (see Appendix H) will be triggered by either an exceedance of total VOC action levels at either the work area or site perimeter or a benzene measurement of 0.5 ppm at the site perimeter. If a five-minute sustained measurement of 5.0 ppm above background for the work area or the site perimeter or a benzene level of 0.5 ppm at the site perimeter is measured, excavation activities will be stopped and the following actions will be undertaken:

- Continue total VOC monitoring at the work area perimeter. If the total VOC level decreases below 5 ppm over background, then excavation activities can resume. If the total VOC levels persist above 5.0 ppm, then the construction supervisor will implement engineering controls and immediately notify the site project manager and the Project Health and Safety Coordinator (PHSC)
- Following the implementation of engineering controls, excavation activity may resume after the total VOC levels at the work area perimeter and site perimeter are below 5.0 ppm above background.
- If the total VOC levels are greater than 5.0 ppm but less than 25 ppm over background at the perimeter of the work area, excavation activity may resume provided that the total VOC level 200 feet downwind of the work area or half the distance to the nearest residential or commercial structure (whichever is less) is below 5.0 ppm above background.
- If the total VOC level is above 25 ppm at the perimeter of the work area, excavation activities must be shut down. When work shutdown occurs, downwind air monitoring as directed by the PHSC will be implemented to ensure that the emission does not impact the nearest residential or commercial structure at levels exceeding those specified in the Major Vapor Emission Response Plan (Section 5.3.2.2)

Primary engineering controls which may be implemented to reduce emission levels include:

— cover piles of contaminated soils with polyethylene sheeting.

- limiting excavation size and the surface area of exposed contaminated soil
- adding surfactant such as BIO SOLVE® to impacted media (application in excavated areas will be a light mist as to avoid increasing solubility of wastes leading to increased groundwater contamination).

5.3.2.2 Major Vapor Emission Response Plan

If after the cessation of the work activities and implementation of engineering controls, persistent total VOC levels (1) greater than 25 ppm above background at the work perimeter; or (2) greater than 5.0 ppm above background 200 feet downwind of the work area or half the distance to the nearest residential or commercial structure (whichever is less) are measured, then the following action will be taken within 30 minutes:

- Cover the excavated area with polyethylene sheeting or clean soil.
- Notify Mark VanValkenburg of NYSDOH at (518) 402-7890, Paul Dicky of Niagara County Health Department at (716) 439-7444, David Crosby of NYSDEC at (518) 402-9813 and City of Lockport Police Bureau at (716) 433-7700.
- Total VOC levels will be monitored within 20 feet of the nearest downwind residential or commercial structure. (20 Foot Zone).
- Continue air monitoring 15-minute intervals in the 20-Foot Zone. If two successive readings below action levels are measured, air monitoring intervals may be halted or modified by the PHSC, with approval of the NYSDEC and NYSDOH.
- If total VOC levels persist above the 5.0 ppm within the 20 foot zone, the NYSDOT contractor construction supervisor, PHSC and NYSEG project manager will consult with each other and the Emergency Response agencies to determine appropriate actions to be implemented. NYSEG project management personnel have ultimate authority during major vapor emission emergencies. The NYSDEC

must approve any actions to continue work following such a shut down period.

5.3.3 Speciated Real-Time Air Monitoring - BTEX

To supplement the real-time VOC air monitoring for the community air monitoring program, a portable gas chomatograph (GC) unit will be used to determine the BTEX (benzene, toluene, ethylbenzene, and xylenes) compounds. The GC instrument will be a Perkin-Elmer Photovac Voyager™. The Voyager™, equipped with a PID detector, can accurately determine the BTEX compounds with detection limits in the low ppb (parts per billion) range. The purpose in generating these data will be twofold: (1) to supplement the real time VOC readings, aiding in critical path decisions to be made for the vapor emission response plan (Section 5.3.2.1) and the major vapor emission response plan (Section 5.3.2.2); and (2) to document emissions of BTEX to the surrounding community during periods of construction activity potentially conducive to the emissions of these compounds.

The Voyager™ will be calibrated daily using gas standards containing BTEX compounds. Calibration checks will be conducted twice daily (AM/PM) with a verification gas standard containing the target analytes. Calibration drift of greater than +/- 20% will require recalibration of the instrument.

Two site perimeter monitoring locations, one upwind and one downwind, will be established based on meteorological information and will be designated as GCS-UP (Gas Chromatograph Station Upwind) and GCS-DN (Gas Chromatograph Station Downwind) respectively. One sample will be collected and analyzed at each monitoring location according to the following schedule:

- every two hours during excavation of MGP contaminated soil and debris, commencing at the start of the work day continuing until excavation activities have ceased
- as warranted by the Vapor Emission Response Plan (Section 5.3.2.1)
- as necessary during periods of excavation that produce visual or odorous evidence of coal tar

- per the request of the on-site NYSDEC or NYSDOH representatives

The results of this sampling and analysis will be data logged into the Voyager™ memory and downloaded into a laptop PC (personal computer) daily. The raw data will be reviewed weekly by the field technician after each sample is run. If the results of analysis indicate that a sample contains greater that 0.5 ppm benzene, then action specified in the Vapor Emission Response plan (Section 5.3.2.1) will be implemented. At the end of each work day the data will be e-mailed to project scientist for review.

The results will be provided to the New York State Department of Health (NYSDOH) as soon as possible during instances when the benzene or total VOC action level is exceeded or when an odor complaint is lodged by a community member. In absence of such instances, these data will be provided to NYSDOH or NYSDEC monthly or upon request. Sample results will be compared to the short term guidance (SGC) values as published in Air-Guide-1 (See Table 5-1).

TABLE 5-1
AIR GUIDE-1 SHORT TERM GUIDANCE (SGC) CONCENTRATIONS

Contaminant	SGC (ug/m3)	SGC (ppm)
Benzene	30	0.009
Toluene	89,000	24
Ethylbenzene	100,000	23
Xylenes	100,000	23

5.3.4 Time Weighted Average (TWA) Air Monitoring - BTEX

As a contingency plan for the speciated real-time air monitoring (i.e., in the event of a malfunction of the on-site portable GC), NYSEG with approval from NYSDEC, will conduct TWA air monitoring of BTEX compounds to document potential air emissions to the surrounding community. Air sampling and analysis for the BTEX

compounds will be conducted in accordance with the NYSDOH Method 311-6, Volatile Organics In Air By GC/PID/ELCD.

Samples will be collected over an 8 hour period during excavation of the MGP contaminated soil and debris. Two site perimeter monitoring stations, one upwind and one down wind, will be established daily based on meteorological information and will be designated as TWA-UP (Time Weighted Average Station Upwind) and TWA-DN (Time Weighted Average Station Downwind) respectively. One sample will be collected at each station per day. Based on real-time total VOC readings and odorous observations, the week's worst case upwind and downwind samples will be submitted to the laboratory for analysis. The results of these analyses will be submitted to DOH and DEC within 30 days of submission to the laboratory.

5.3.5 Real-Time Air Monitoring - Total Suspended Particulates

In conjunction with the real-time volatile emission monitoring, direct-reading monitoring equipment for particulate matter will be used to collect real-time airborne particulate data on a every 15 minutes basis. The instrument to be used for this sampling is a *personal* DataRam™(pDR-1000AN), which operates on the principle of light scattering. The *personal* DataRam™(pDR-1000AN) responds to particles in the size range of 0.1 to 10 micrometers and in the concentration range of 0.01 to 400 mg/m^3. Real-time particulate measurements will be based on a 30-second, time-weighted average. The *personal* DataRam™(pDR-1000AN) will be calibrated daily with a filtered air sample. Recorded measurements at the upwind and downwind monitoring locations will be logged by the technician. Equivalent backup real-time air monitoring equipment will be available on-site in the event of an equipment malfunction.

A New York State action level of 0.15 mg/m^3 for particulate matter above background will be used to determine whether modifications to given processes are required. If the action level is exceeded, real-time monitoring of the upwind background level will commence immediately using the same portable monitor. If the site particulate measurement is greater than 0.15 mg/m^3 above the upwind background level, or if dust is observed leaving the work site, dust suppression techniques (i.e., misting surfaces with water or covering open piles) will be

implemented to reduce the generation of fugitive dust. If the action level of 0.15 mg/m^3 above background is exceeded, the NYSEG project manager and NYSDEC on-site representative will be notified. The NYSEG project manager will notify the Division of Air Resources in writing within five working days (NYSDEC TAGM: Fugitive Dust Suppression and Particulate Monitoring Program at Inactive Hazardous Waste Sites, October 1989).

5.3.6 Real-Time Air Monitoring - Hydrogen Cyanide

In conjunction with the real-time volatile emission and total suspended particulate monitoring, direct reading monitoring equipment will be used to collect real-time hydrogen cyanide (HCN). The instrument used for this is the Dräger CMS analyzer with a HCN specific chip. This instrument has a digital read out with a sensitivity of 2 to 50 ppm. In addition a backup method using a standard Dräger tube for hydrogen cyanide will be onsite. The Dräger tube utilizes the same technology as the CMS analyzer and has a sensitivity of 2 to 30 ppm (5 pump strokes) with a relative standard deviation of 10 to 15%. The HCN Dräger tube can be substituted for the analyzer.

The Dräger CMS analyzer will be used to measure the HCN level at a downwind location at the site perimeter at least every 15 minutes during the first three days of intrusive operations. The data will be submitted to Mark VanValkenburg, of NYSDOH on a daily basis. If the HCN data is consistent through out the initial three day period, NYSEG will reduce the monitoring frequency to one sample per hour, however if site conditions warrant more frequent monitoring (i.e., changes in material characteristics), monitoring will be increased.

Based on data published by ACGIH and NIOSH, an action level of 4 ppm has been established for the site perimeter. If the action level is exceeded the following action will be taken:

1. If the CMS analyzer reading exceeds 4 ppm, all work activities will be immediately halted. The remedial workers who will be in Level "C" PPE will cover the excavation with clean soil or polyethylene sheeting before leaving the work area. Under no circumstances will any person be allowed to enter

the work area without Level "B" PPE while readings indicate levels above 4 ppm.

2. The NYSDOT contractor construction supervisor, NYSEG project manager, NYSDOH, NYSDEC and PHSC will ne immediately notified.

3. The sampling technician will upgrade to Level "B" PPE and continuously monitor the work area at 15 minute intervals to monitor the air quality. A minimum of one air sample will be collected from the work area and submitted to a laboratory (NIOSH 6010) to confirm the concentration of hydrogen cyanide.

4. Air monitoring adjacent the work area will continue at the downwind position using the CMS analyzer until HCN levels are consistently measured below the 4 ppm action level. If HCN levels persist above the 4 ppm action level, then the NYSEG project manager, PHSC and the NYSDOT contractor construction supervisor will meet with Emergency Response agencies to determine appropriate actions to be implemented.

5. NYSEG, NYSDEC and NYSDOH will review laboratory results to confirm the presence of HCN. On the basis of this data, NYSEG in consultation with NYSDEC and NYSDOH, will determine whether work may resume or whether the project must be indefinitely suspend until appropriate action is taken to resume the project.

5.3.7 Real-Time Air Monitoring - Hydrogen Sulfide

In conjunction with the real-time HCN monitoring, direct reading monitoring equipment will be used to collect real-time hydrogen sulfide (H_2S). Two meters will be employed in the monitoring H_2S, the Dynamation Autocal AGM Model 502 (LEL, CO, O_2 and H_2S) and a Jerome 631X-H_2S. The Dynamation Autocal AGM Model 502 will undergo a daily calibration using 220 ppm CO standard in accordance with the manufacturer's specifications. The Dyamation Autocal AGM Model 502 has a digit read out with a sensitivity of 0 ppm to 200 ppm. The Jerome 631X-H_2S

measures the reaction with gold to determine the concentration of H_2S. This instrument must perform a daily regeneration and zero adjust. The Jerome 631X-H_2S has a digital read out with a sensitivity of 2 ppb to 5000 ppb.

The Jerome 631X-H_2S will be used to measure the H_2S level at a downwind location at the site perimeter at least every 15 minutes during the course of the intrusive operations. The highest sustained concentration of H_2S measured by the Jerome 631X-H_2S during the 30 second interval will be recorded by the sampling technician. The Dynamation Autocal AGM Model 502 will be used primarily in the work area for assessing H_2S concentrations for worker health and safety. The Jerome 631X-H_2S data will be submitted to Mark VanValkenburg, of NYSDOH on a daily basis.

Work area will include the excavation, truck loading and covering of purifier waste. Any worker working in and around purifier waste will be required at a minimum to have Level"D" PPE. Concentrations of hydrogen sulfide over 5 ppm will require Level "B" PPE (NIOSH recommends that the concentration for a 10 minute sample not exceed 10 ppm).

Based on data published by Agency for Toxic Substances and Disease Registry (ATSDR), an action level of 70 ppb has been established for the site perimeter. If action level is exceeded the following action will be taken:

1. All work activities will be immediately halted and remedial workers who will be in Level "B" PPE will cover the excavation with clean soil or polyethylene sheeting before leaving the work area. Under no circumstances will any person be allowed to enter the purifier waste work area without Level "B" PPE when concentrations of hydrogen sulfide exceed 5 ppm.

2. The NYSDOT contractor construction supervisor, NYSEG project manager, NYSDOH, NYSDEC and PHSC will ne immediately notified.

3. The sampling technician will upgrade to Level "B" PPE and continuously monitor the work area at 15 minute intervals to monitor the air quality. A minimum of one air sample will be collected from the work area and

submitted to a laboratory (NIOSH 6013) to confirm the concentration of hydrogen sulfide.

4. Air monitoring adjacent the work area will continue at the downwind position using a Jerome 631X-H_2S until H_2S levels are consistently measured below 70 ppb action level. if H_2S levels persist above the 70 ppb action level, then the NYSEG project manager, PHSC and NYSDOT contractor construction supervisor will meet with Emergency Response agencies to determine appropriate actions to be implemented.

5. NYSEG, NYSDEC and NYSDOH will review laboratory results to confirm the presence of H_2S. On the basis of this data, NYSEG in consultation with NYSDEC and NYSDOH, will determine whether work may resume or whether the project must be indefinitely suspend until appropriate action is taken to resume the project.

5.3.8 Odor Monitoring Plan

The nature of the MGP residues pose a concern regarding the generation of nuisance odors during excavation and material handling. As such, an odor control and monitoring plan has been developed for the *IRM*. A sign will be posted at the gate with a local phone number to call to register complaints of odor. A call to the posted phone number during normal business hours will be answered by one of a group of operators (at the NYSEG Call Center) who can provide information from the project fact sheet. If additional information is required, the operator can contact members of the project team from a call list. After normal business hours, for emergencies, this phone number (800 572-1121) rings directly to NYSEG's Power Supply which will contact a project team member directly from the call list. Project team members will archive all call information and contact the site construction supervisor or project manager, if necessary, so that engineering controls can be implemented. NYSDOH will be promptly notified of any odor complaints.

A project fact sheet will be distributed to adjacent property owners explaining the remediation work to occur on the site, the potential for odors, and how the phone

system for odor complaints will work. This will be distributed prior to intrusive work beginning.

Hourly, the designated field technician will walk the site perimeter to take notice of any appreciable odor emanating from the site. NYSEG will periodically have a NYSEG employee (i.e., NYSEG MGP employee and Plattsburgh Service Oenter Employees) not associated with the daily activities will visit the site and take note of odors around the site perimeter to address the issue of odor fatigue. If significant odor is noted by the site personnel, or by non-project personnel, engineering controls will be implemented as outlined in the Vapor Emissions Response Plan (Section 5.3.2.1) to reduce odor causing emissions. Once odors are not noticed at the downwind site perimeter, normal operations may resume. This determination will be subject to the approval of the on-site NYSEG representative.

5.3.9 Meteorological Observations

Wind direction will be monitored throughout the air-sampling program at an on-site weather station. This data will be reduced and reviewed for each 24-hour period during the removal program, and air sampling stations will be adjusted accordingly if necessary.

A log of local weather observations will be kept with observations taken coincidentally with real-time air quality measurements. Data included in the log will consist of temperature, cloud coverage, and precipitation conditions.

5.3.10 Documentation for Air Quality Monitoring

An essential part of any sampling/analytical scheme is ensuring the integrity of the sample from collection to data reporting. Sample integrity includes the possession and handling of a sample, that is traceable from the time of collection, through analysis and final disposition.

Sample Labels: Unique sample identification codes will be assigned at the time of collection to prevent misidentification of samples. The identification codes will include the following information:

- project/name/number;
- sample location;
- date of collection;
- time of collection;
- initials of sampler;
- analytical method.

Field Log Book: All information pertinent to sampling will be recorded in a log book. It is imperative that sufficient information be recorded so that the sampling event can be reconstructed without reliance on the collector's memory. Information will be entered into a bound notebook and, as a minimum, entries will include the following:

- location of sampling point;
- sample identification code;
- sample collection date and time;
- sample methodology;
- sample analysis;
- collector's initials;
- field observations, if any; and
- field measurements, if any.

Dedicated field log books will be maintained on site to document the daily calibration of the real-time and speciated real-time air monitoring equipment.

6.0 SAMPLING AND ANALYSIS PLAN

This *Sampling and Analysis Plan (SAP)* has been developed to describe the objectives and procedures for the sampling and analyses of MGP residues, soil, and wastewater that will be produced during the Lockport State Road MGP IRM. In addition, the NYSEG *Lockport State Road MGP Site Quality Assurance Project*

Plan (QAPP, Appendix D) should be consulted where specific sampling and analysis procedures and methods are referenced.

The environmental media to be sampled during the IRM, and the purpose for collecting and analyzing environmental samples, includes the following:

Table 6-1
Environmental Sampling Media and Objectives

Sampling Media	Sampling Objective
Soil: - Confirmation Samples	To characterize soil for proper waste disposal To document residual soil quality after completion of remedial excavation
Wastewater:	To characterize wastewater to be transported and disposed of at a permitted facility

MGP residue and soil quality will be evaluated relative to disposal requirements listed in Section 4.0.3 of this *Work Plan*. Wastewater sampling and analysis will be completed as described in Section 6.3 and in accordance with the requirements of a permitted wastewater disposal facility.

Because of the importance of air monitoring to worker and community health and safety, it has been described in detail as a separate section of this *Work Plan* (*Air Quality Monitoring Plan*, Section 5.0). The following sections of this *SAP* provide specific information regarding the rationale and methods for sampling and analyzing MGP residues, soil, and wastewater.

6.1 Quality Assurance/Quality Control (QA/QC) *Requirements/Data Quality Objectives*

QA/QC requirements are specified throughout the *QAPP*, (Appendix D) Data quality objectives are also delineated in the *QAPP* (Appendix D, Section 2).

6.2 Soil Sampling and Analyses Pian

6.2.1 Soil Sampling Field Protocols

6.2.1.1 Soil Sampling Field Procedures

Samples will be placed into the appropriate containers specified in the QAPP (Appendix D) using decontaminated stainless steel trowels or spoons. Organic debris (i.e., leaves, twigs, bark) along with large pieces of gravel will be avoided. Sampling containers will be filled completely to avoid creating a head space where volatiles may escape. After each jar is filled, the threads will be wiped clean so the cap can be threaded on without creating an air gap.

All filled jars will be labeled with the following information as a minimum:

- Project Number;
- Sampling Time and Date;
- Sample Number;
- Sample Location;
- Analysis; and
- Collector's Initials.

The location, depth of sample, sample type, time of sample, and other associated data (i.e., color of the soil, odors, texture, etc.) will be documented in the field notebook when the sample is taken. Once all the soil samples are collected, the samples will be maintained at 4°C until the samples are delivered off site for analyses.

All used sampling devices will be kept together, separate from clean tools, so that they can be cleaned according to appropriate decontamination and cleaning procedure as specified in the QAPP. In no event will a sampling device be used without full cleaning between samples.

6.2.1.2 Soil Sampling Field Equipment List

The following items constitute a minimum listing of required field equipment for collecting soil samples.

- chemical resistant boots, latex gloves, chemical resistant gloves and the appropriate level of personal protection for working conditions as described in Section 4.2 of the *Health and Safety Plan for Activities at the Lockport State Road Former MGP Site*;
- sample containers: glass jars with Teflon-lined caps;
- Teflon-coated or stainless steel sample spoons and bowls;
- wooden stakes and spray paint (highly visible);
- field notebook;
- sample bottle labels; water resistant tape; and
- ice cooler for sample storage.

6.2.2 Confirmation Soil Sampling and Analysis Plan

6.2.2.1 Sampling Plan Rationale

A confirmation soil sampling and analyses plan will be implemented to determine the concentration of compounds remaining on the site following excavation.

6.2.2.2 Laboratory Analytical Protocols.

Confirmation soil samples will be submitted to the laboratory for total benzene, total PAHs (polycyclic aromatic hydrocarbons) and total cyanide determinations using EPA Laboratory methods SW 846 8260, SW 846 8270, SW 846 9012, SW 846

Section 7.3.3.2, and SW 846 Chapter 7.3.4.2 respectively. Samples collected will be subject to NYSDEC ASP (Analytical Services Protocol) Category B deliverables.

6.2.2.3 Soil Sampling Protocol

In the excavated areas, post excavation samples (either sidewall or bottom) will be obtained at worst case visual at intervals of 50 feet.

A sample representing the first 3 to 6 inches of soil encountered will be taken from each sampling point. The sample will be representative of the area soil based upon visual and olfactory observations and PID readings.

Confirmation samples obtained from excavations extending beyond 4 feet below grade may be collected via a stainless steel remote sampler or a hydraulically-activated sampling device. After each sample of soil is taken, an indicator will be used to mark the location, in the event that additional excavation in that area is required. A drawing depicting confirmation sample locations along with information concerning sample identifications, depth below original ground surface, and dates of collection will maintained by the field sampling technician throughout the project.

6.2.3 Roll Off Container/Area of Contaminated Soil Sampling and Analysis Plan for Waste Characterization

6.2.3.1 Roll off Container/Area of Contamination Sampling Rationale

A soil roll off container/area of contamination sampling and analysis plan may be implemented to supplement the Pre-remediation In Situ Sampling and Analysis Work Plan. This sampling and analysis plan is to primarily address (1) subsurface soil characterized as RCRA non-hazardous waste by pre-remediation in situ sampling which upon excavation appears to be require hazardous waste disposal (i.e., soil that is grossly contaminated with tarry waste); or (2) subsurface soil characterized as a RCRA hazardous waste by pre-remediation in situ sampling which upon excavation appears to be suitable for disposal at a non-hazardous industrial waste landfill (i.e., soil that appears to be lightly contaminated or

Section 7.3.3.2, and SW 846 Chapter 7.3.4.2 respectively. Samples collected will be subject to NYSDEC ASP (Analytical Services Protocol) Category B deliverables.

6.2.2.3 Soil Sampling Protocol

In the excavated areas, post excavation samples (either sidewall or bottom) will be obtained at worst case visual at intervals of 50 feet.

A sample representing the first 3 to 6 inches of soil encountered will be taken from each sampling point. The sample will be representative of the area soil based upon visual and olfactory observations and PID readings.

Confirmation samples obtained from excavations extending beyond 4 feet below grade may be collected via a stainless steel remote sampler or a hydraulically-activated sampling device. After each sample of soil is taken, an indicator will be used to mark the location, in the event that additional excavation in that area is required. A drawing depicting confirmation sample locations along with information concerning sample identifications, depth below original ground surface, and dates of collection will maintained by the field sampling technician throughout the project.

6.2.3 Roll Off Container/Area of Contaminated Soil Sampling and Analysis Plan for Waste Characterization

6.2.3.1 Roll off Container/Area of Contamination Sampling Rationale

A soil roll off container/area of contamination sampling and analysis plan may be implemented to supplement the Pre-remediation In Situ Sampling and Analysis Work Plan. This sampling and analysis plan is to primarily address (1) subsurface soil characterized as RCRA non-hazardous waste by pre-remediation in situ sampling which upon excavation appears to be require hazardous waste disposal (i.e., soil that is grossly contaminated with tarry waste); or (2) subsurface soil characterized as a RCRA hazardous waste by pre-remediation in situ sampling which upon excavation appears to be suitable for disposal at a non-hazardous industrial waste landfill (i.e., soil that appears to be lightly contaminated or

uncontaminated). During the course of remedial excavation, subsurface soil will be examined for visual and odorous evidence of MGP contamination. If the excavated soil appears to fit either description delineated above, it may be placed in a roll off container or stockpiled within the area of contamination in increments up to 100 cubic yards. Caution will be taken during segregation of waste to ensure that excavation techniques will not be used to dilute tarry waste, which are likely to be RCRA hazardous waste, for the purpose of disposal as non-hazardous waste. The Area of Contamination (AOC) for the Lockport State Road Former MGP Site, is the area of excavation. Disposition of soil will be based on the criteria delineated in Section 4.0.5.

6.2.3.2 Laboratory Analytical Protocols

(See *Pre-Remediation in Situ Sampling and Analysis Work Plan for the Lockport State Road MGP Site*, Appendix A, *'Analytical Protocol", List A Analytes and List B Analytes*)

6.2.3.3 Soil Sampling Protocol

One worst case grab sample will be collected from each roll off container as soon as practical following excavation and submitted to the laboratory for analysis. Each sample will represent up to 100 cubic yards of soil.

6.3 Water Sampling and Analyses Plan

6.3.1 Sampling Plan Rationale

Storm and/or ground water resulting from dewatering of the excavation may be generated during the project. This water, if required will be transferred to a 21,000 gallon frak tank that will be stored on-site. A sampling and analysis plan will be implemented to properly characterize the water for disposal at a local POTW (Public Owned Treatment Works) or an alternate disposal facility permitted to accept it.

If the results of analysis meet the limits specified by the POTW, then the water will then be transferred into tank trucks for transport to the POTW or be discharged into a sanitary sewer. If the water is identified as material that exceeds local POTW specifications, then an alternate permitted disposal facility will be used.

6.3.2 Laboratory Analytical Protocols

Analytical requirements will be determined by a POTW or facility permitted to accept wastewater.

6.3.3 Water Sampling Protocol

As the frak tank nears its capacity, a sample will be collected and analyzed for parameters specified by a local POTW (or an alternate facility permitted to accept the water).

6.3.4 Water Field Sampling Procedures

Water will be sampled directly from each filled tank prior to shipment off-site. Latex or rubber gloves will be worn to protect the sampling person and to avoid cross contamination through handling. Water will be sampled by lowering a stainless steel or disposable polyethylene bailer into the tank using a polyethylene cord. The sample contents will be immediately transferred into the appropriate sized container for each analysis as specified in the *QAPP* (Appendix D). Vials for volatile analyses will be filled completely so as to avoid creating a head space where volatiles may escape, and must be checked to ensure that no air gap or bubbles are present.

All filled jars must be labeled with the following information as a minimum:

- Project Number;
- Sampling Time and Date;
- Sample Number;
- Analysis; and
- Collector's Initials.

The sample chain-of-custody form will then be immediately filled out and kept with the sample. The sample will be maintained at 4°C until delivered to the off-site analytical laboratory.

6.3.5 Water Sampling Field Equipment List:

The following items constitute a minimum listing of required field equipment for collecting wastewater samples.

- chemical resistant gloves and appropriate level of personal protection for working conditions as described in Section 4.2 of the *Health and Safety Plan for Activities at the Lockport State Road Former MGP Site* (Appendix A);
- sample containers - two 40-ml VOA vials; two one-liter amber containers; two plastic 500-ml acid-washed containers;
- stainless steel or disposable polyethylene bailer;
- field notebook;
- sample bottle labels; and
- chain-of-custody forms.

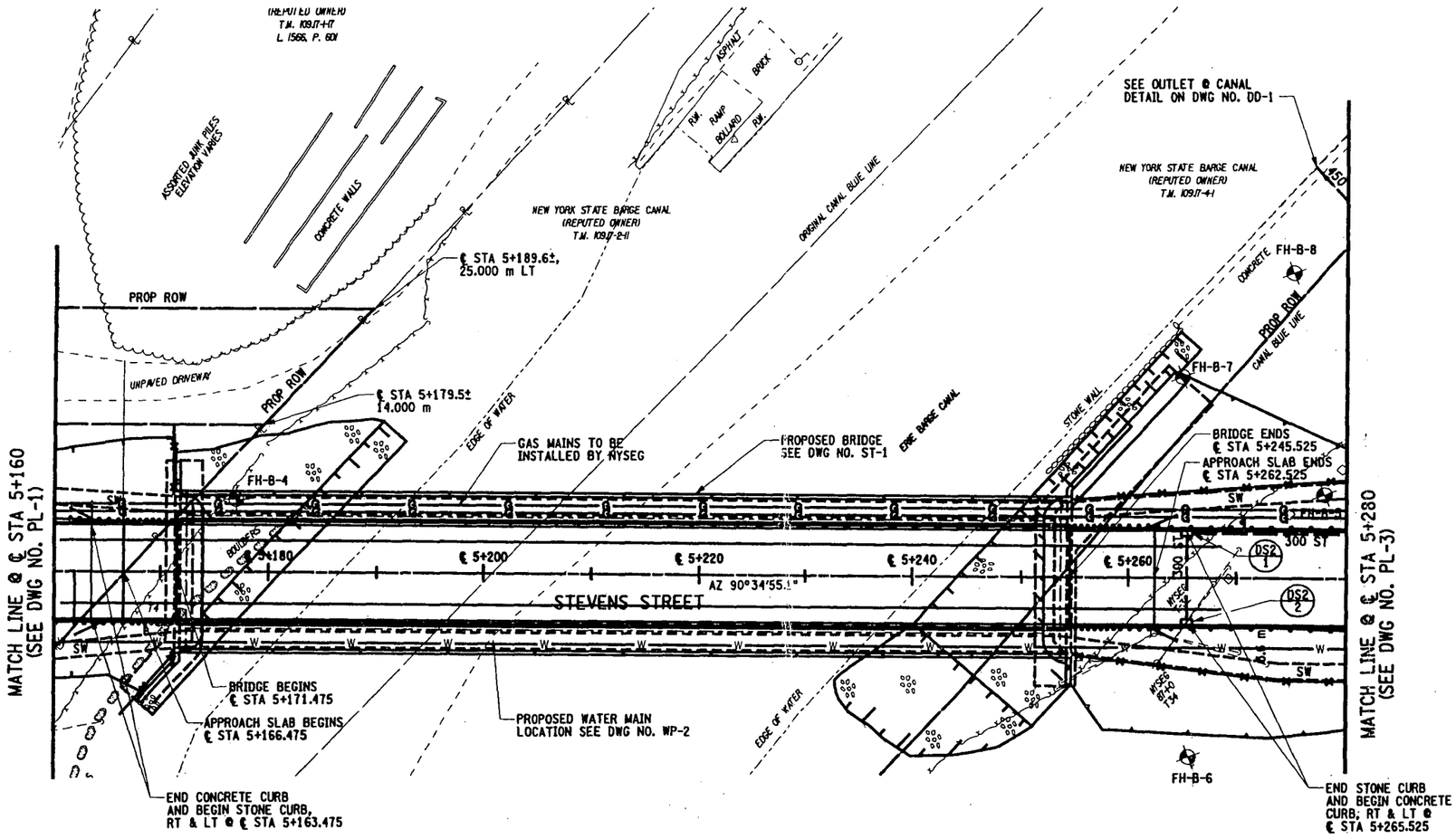
FIGURES

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		36	109

PROSPECT STREET BRIDGE OVER ERIE CANAL

CITY OF LOCKPORT, NIAGARA COUNTY

P.I.N. 5940.40 B.I.N. 4454180



TRUE NORTH AT THE 78°35'00" MERIDIAN OF WEST LONGITUDE

UNDERGROUND UTILITIES KNOWN ON THIS PROJECT:

- SANITARY SEWER; (CITY OF LOCKPORT) = QLC
- GAS MAIN; (NYSEG) = QLC
- WATERMAIN; (CITY OF LOCKPORT) = QLC

0 5 10 15 20 25
SCALE

ADP SUBMISSION
DATE: 05-10-02

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

PLAN

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
594040aa.plt	5	MAY 2002	PL-2

DESIGN SUPERVISOR ROB GOOSSEN JOB MANAGER BARRY DUMBAULD DESIGNED BY BRIAN BAXTER DRAFTED BY BRIAN BAXTER CHECKED BY BARRY DUMBAULD ESTIMATED BY BRIAN BAXTER CHECKED BY BARRY DUMBAULD

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		37	109

PROSPECT STREET BRIDGE OVER ERIE CANAL

CITY OF LOCKPORT, NIAGARA COUNTY

P.I.N. 5940.40 | B.I.N. 4454180

DESIGN SUPERVISOR ROB GOOSSEN JOB MANAGER BARRY DUMBAULD DESIGNED BY BRIAN BAXTER DRAFTED BY BRIAN BAXTER CHECKED BY BARRY DUMBAULD ESTIMATED BY BRIAN BAXTER BARRY DUMBAULD

TRUE NORTH AT THE 78°35'
MERIDIAN OF WEST LONGITUDE

MATCH LINE @ ℄ STA 5+280 (SEE DWG PL-2)

MATCH LINE @ ℄ STA ST 1+210 (SEE DWG PL-4)

STATE ROAD

STEVENS STREET

WEST HIGH STREET

℄ STA 5+285.8± 38.500 m LT.

PROPOSED ROW

℄ STA 5+317.5±, 15.000 m LT

R 11.4m

℄ STA 5+308.500 15.000 m LT

℄ STA 5+319.049= STA ST 1+248.808

PT STA ST 1+210.972

R 9.2 m

PROP. WATER MAIN SEE SHEET WP-3

℄ AZ 90°34'55.1"

℄ OF IMPROVEMENTS

PI STA ST 1+289.985 NO CURVE

℄ AZ 44°14'54" ST 1+320

PROPOSED WATER MAIN LOCATION SEE SHEET WP-3

℄ STA 5+352.1± 23.500 m LT

PROPOSED ROW

℄ STA 5+349.800 14.000 m LT

℄ STA 5+354.500 9.9 m± m LT

R 9.2 m

℄ AZ 42°52'23" ST 1+360

WORK LIMIT
END MILLING/OVERLAY
MATCH EXISTING
@ STA ST 1+351.000

END FULL DEPTH RECONSTRUCTION, END TRANSITION TO EXISTING CURB, RT & LT, AND BEGIN MILLING/OVERLAY STA ST 1+340.000

PI STA ST 1+340.000 NO CURVE

BEGIN TRANSITION TO EXISTING CURB, CURB OFFSET 3.6 m, RT & LT, ℄ STA 1+337.000

BEGIN TRANSITION TO EXIST. CURB, CURB OFFSET 4.5 m, RT & LT ℄ STA 5+397.000

END FULL DEPTH RECONSTRUCTION, END TRANSITION TO EXISTING CURB, RT & LT, AND BEGIN MILLING/OVERLAY ℄ STA 5+400.000

PROJECT LIMIT
END MILLING/OVERLAY
MATCH EXISTING
@ ℄ STA 5+411.000

CONTRACT LIMIT
℄ STA 5+441.000

THOMAS H. LEE AND ETHEL L. LEE (REPUTED OWNERS) T.M. 109.17-4-6 L. 1551, P. 1115

ROYALCREST CONSTRUCTION, LTD. (REPUTED OWNER) T.M. 109.17-4-9.1 L. 2239, P. 29

ROBERT B. ROSKOPF (REPUTED OWNER) T.M. 109.17-4-9.2 L. 2239, P. 33

NEW YORK CONFERENCE ASSOCIATION OF SEVENTH-DAY ADVENTISTS (REPUTED OWNER) T.M. 109.17-4-10 L. 1077, P. 431

NEW YORK STATE ELECTRIC & GAS CORPORATION (REPUTED OWNER) T.M. 109.17-4-5 L. 563, P. 445 L. 698, P. 567

JOHN ZAHORANSKY, JR. AND DORIS M. ZAHORANSKY (REPUTED OWNERS) T.M. 109.17-3-1 L. 1512, P. 367 FF185.408 *120 2 STORY WOOD FRAME

FRANK ZIETKIEWICZ AND SANDY ZIETKIEWICZ (REPUTED OWNERS) T.M. 109.17-3-2 L. 2719, P. 128 FF184.710 *65 1.5 STORY WOOD FRAME

MICHAEL C. SHEARER AND PAMELA J. SHEARER (REPUTED OWNERS) T.M. 109.17-3-3 L. 1507, P. 677 FF185.250 *59 1.5 STORY BRICK FRAME

WILLIAM T. NELSON AND LORRAINE M. NELSON (REPUTED OWNERS) T.M. 109.17-3-4 L. 2276, P. 282 FF185.755 1.5 STORY FRAME *53

JOSEPH J. DICKEY (REPUTED OWNER) T.M. 109.17-3-5 L. 2625, P. 259 FF187.375 2 STORY FRAME *49

RALPH OLIVER DUSSAULT AND EVA B. DUSSAULT (REPUTED OWNERS) T.M. 109.17-3-6 L. 1025, P. 162 FF188.688 1 STORY FRAME *41

RALPH O. DUSSAULT AND EVA DUSSAULT (REPUTED OWNERS) T.M. 109.17-3-7 L. 1420, P. 691 FF189.938 2 STORY FRAME *35

FF183.613 1 STORY BLOCK & BRICK *64

NOTES:
1. FOR SIDEWALK TRANSITION DETAIL, SEE DRAWING NO. MD-1.
2. FOR SIGN AND PAVEMENT MARKING PLANS, SEE DRAWING NO'S. PM-1 - PM-5.
3. FOR ALIGNMENT DATA, SEE DRAWING NO'S. AD-1 & AD-2.
4. FOR DRAINAGE TABLES, SEE DRAWING NO'S. DT-1 TO DT-3.

UNDERGROUND UTILITIES KNOWN ON THIS PROJECT:
- SANITARY SEWER; (CITY OF LOCKPORT) STA ST 1+080, RT - STA 1+120, RT = QLD; ALL OTHERS = QLC
- GAS MAIN; (NYSEG) = QLC
- WATERMAIN; (CITY OF LOCKPORT) = QLC

ADP SUBMISSION
DATE: 5-10-02

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

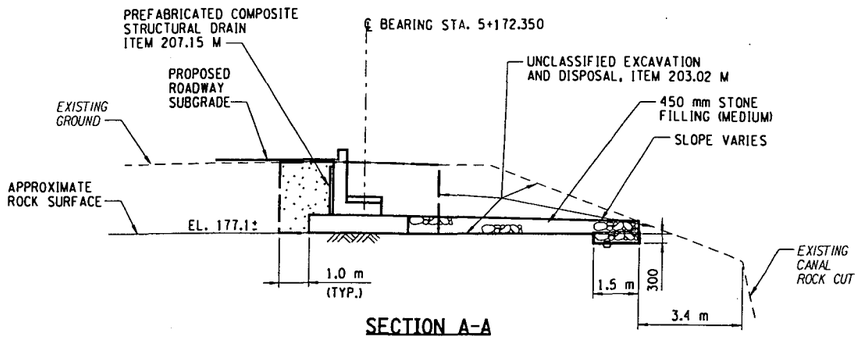
SIGNATURE DATE

PLAN

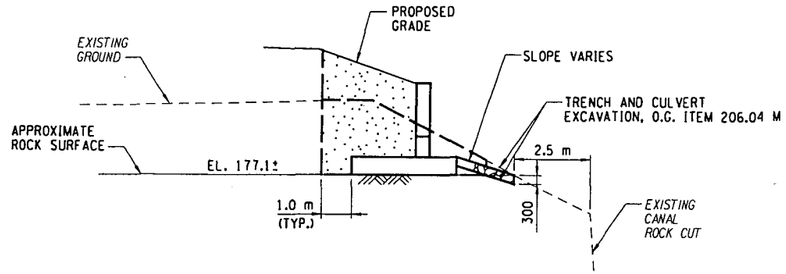
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
594040ab.plt	5	MAY 2002	PL-3

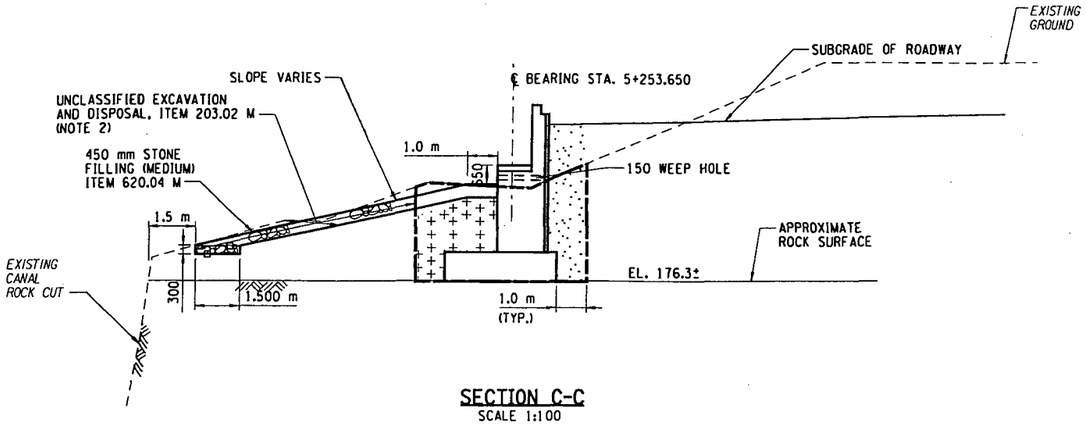
0 5 10 15 20 25
SCALE



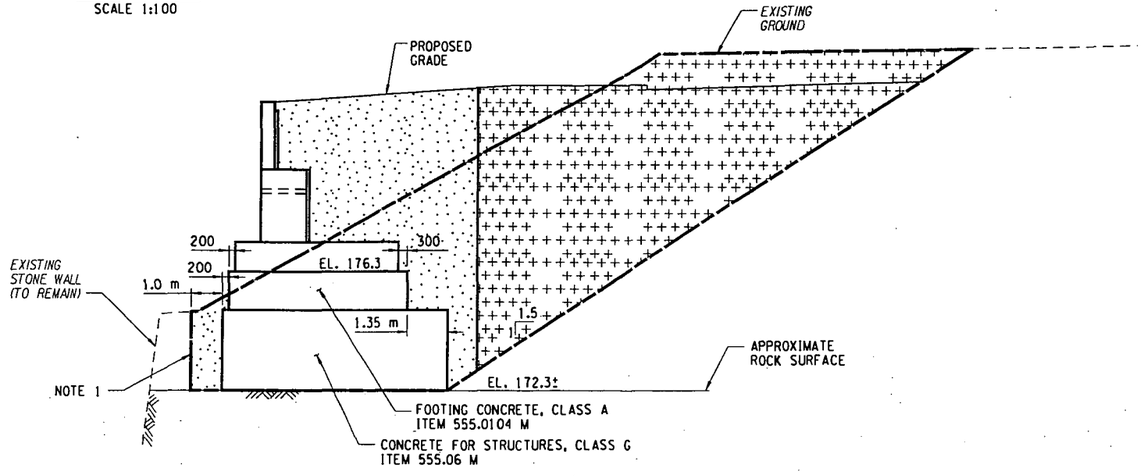
SECTION A-A
SCALE 1:100



SECTION B-B
SCALE 1:100



SECTION C-C
SCALE 1:100



SECTION D-D
SCALE 1:100

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			

PROSPECT STREET BRIDGE OVER ERIE CANAL

CITY OF LOCKPORT, NIAGARA COUNTY

P.I.N. 5940.40 | B.I.N. 4454180

NOTES:

1. EXCAVATE TO THE LIMIT OF THE EXISTING STONE WALL. NOTIFY EIC IF EXISTING WALL ENCROACHS THE LIMIT OF THE FILL CONCRETE.
2. UNDER NO CIRCUMSTANCES SHALL ANY EXCAVATED MATERIAL BE ALLOWED TO ENTER THE CANAL.

LEGEND

- SELECT STRUCTURE FILL ITEM 203.21 M, (BRIDGE ESTIMATE)
- BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER ITEM 206.01 M, STRUCTURE EXCAVATION (BRIDGE ESTIMATE)
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR TRENCH AND CULVERT EXCAVATION O.G., ITEM 206.04 M. (BRIDGE ESTIMATE)
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION ITEM 206.01 M (BRIDGE ESTIMATE)
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR EXCAVATION OF CONTAMINATED SOILS, ITEMS 04203.9715 M AND 04203.9716 M.

0 2 4 6 8 10 M
SCALE

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

EXCAVATION AND EMBANKMENT SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
594040A8.E0C	FIVE	MAY 2002	ST-8

DESIGN SUPERVISOR ___ JOB MANAGER ___ DESIGNED BY ___ DRAFTED BY ___ ESTIMATED BY ___ CHECKED BY ___

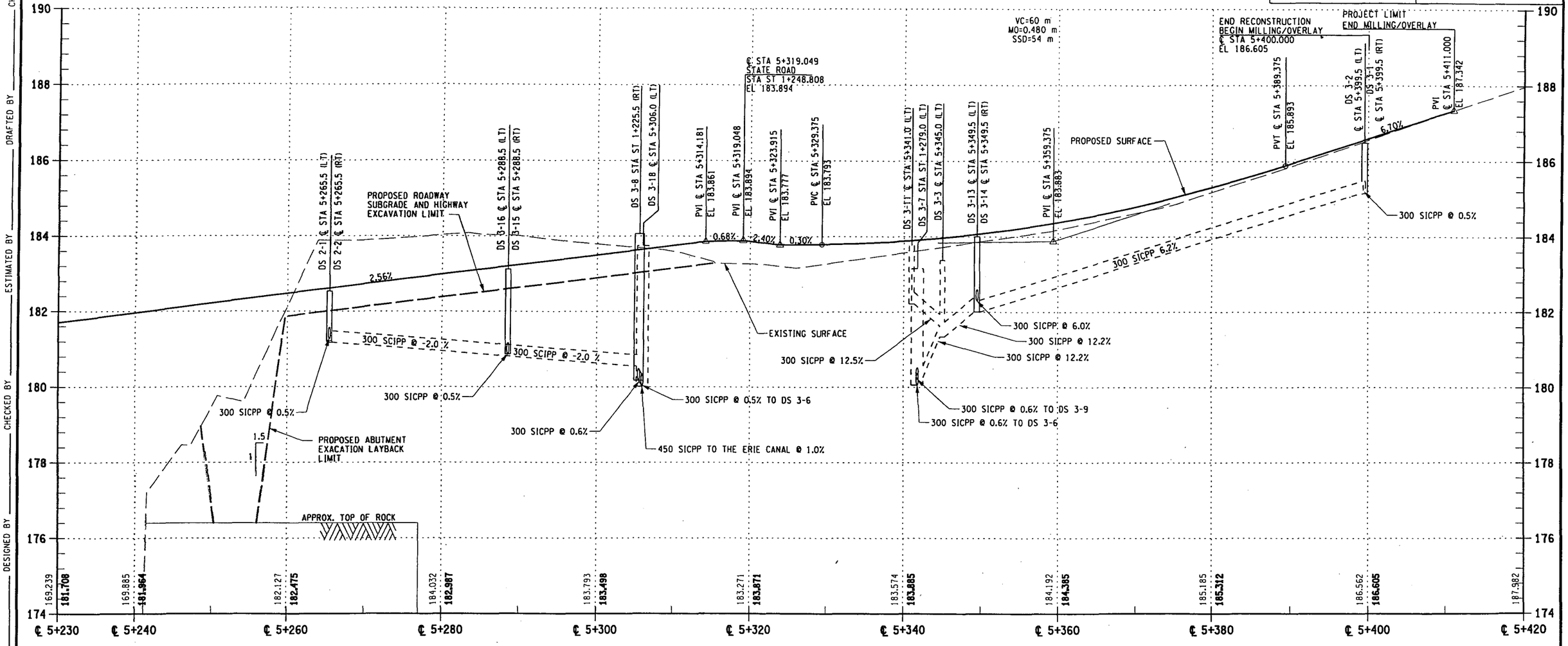
DATE/TIME = DGN$SY
USER = DGN$US

FED ROAD REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			

PROSPECT STREET BRIDGE OVER ERIE CANAL

CITY OF LOCKPORT, NIAGARA COUNTY

P.I.N. 5940.40 | B.I.N. 4454180



ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED

AS BUILT REVISIONS

SIGNATURE DATE

HORIZ. SCALE 0 10 20 METERS

VERT. SCALE 0 2 4 METERS

PROFILE

ABRES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

FILENAME	REGION	DATE	DRAWING NO.
594040A.PRO	FIVE	MAY 2002	PR-1

DESIGN SUPERVISOR ____ JOB MANAGER ____ DESIGNED BY ____ DRAFTED BY ____ ESTIMATED BY ____ CHECKED BY ____ CHECKED BY ____

DATE/TIME = DGN$SY:
USER = DGN$US

APPROXIMATE PROPERTY LINE

BOOSTER HOUSE

BOILER ROOM

SUPPORT ZONE

CONSTRUCTION OFFICE TRAILER (10 X 44)

GAS HOLDER

PORTABLE TOILET

TAR TANKS

WAREHOUSE

STOCKPILE MANAGEMENT AREA (60 X 100)

ERIE CANAL

PARKING

GAS REGULATOR

CONTAMINATION REDUCTION ZONE

SUPPORT ZONE

STOCKPILE MANAGEMENT AREA (60 X 90)

EXCLUSION ZONE

STATE ROAD

EXCLUSION ZONE

SUPPORT ZONE

WEST HIGH STREET

CONTAMINATION REDUCTION ZONE

ROLLOFF CONTAINERS

PORTABLE TOILET

APPROXIMATE PROPERTY LINE

STOCKPILE MANAGEMENT AREA (65 X 80)

PERSONNEL CONTAMINATION REDUCTION AREA (10 X 10)

FRAC TANK (10 X 50)

EQUIPMENT CONTAMINATION REDUCTION AREA (20 X 40)

SUPPORT ZONE

N

LEGEND

- FORMER GAS FACILITIES
- NEW CHAIN LINK FENCING
- SILTATION FENCING & HAY BALES

0 25 50 75

Scale SCALE REFERENCE Feet

CADD DRAWING DO NOT REVISE MANUALLY

SYM	ZONE	REVISION	DATE	BY	CHK	APP
2		REVISED SOUTHERN PORTION OF THE CONTAMINATION REDUCTION ZONE	07/16/02	RFB		
1		ADDED CHAIN LINK FENCE & REVISED SLTATION FENCING	06/03/02	RFB		

DWN BY: RFB	01/11/02	DSGN BY: BWF	01/11/02
CHECKED BY:	/ /		
DRAFTING:	/ /	DESIGN:	/ /
ENGRG:			/ /
RELEASE APPROVAL:			/ /
AUTHORIZED BY:			/ /
MATERIAL OR SPEC:			

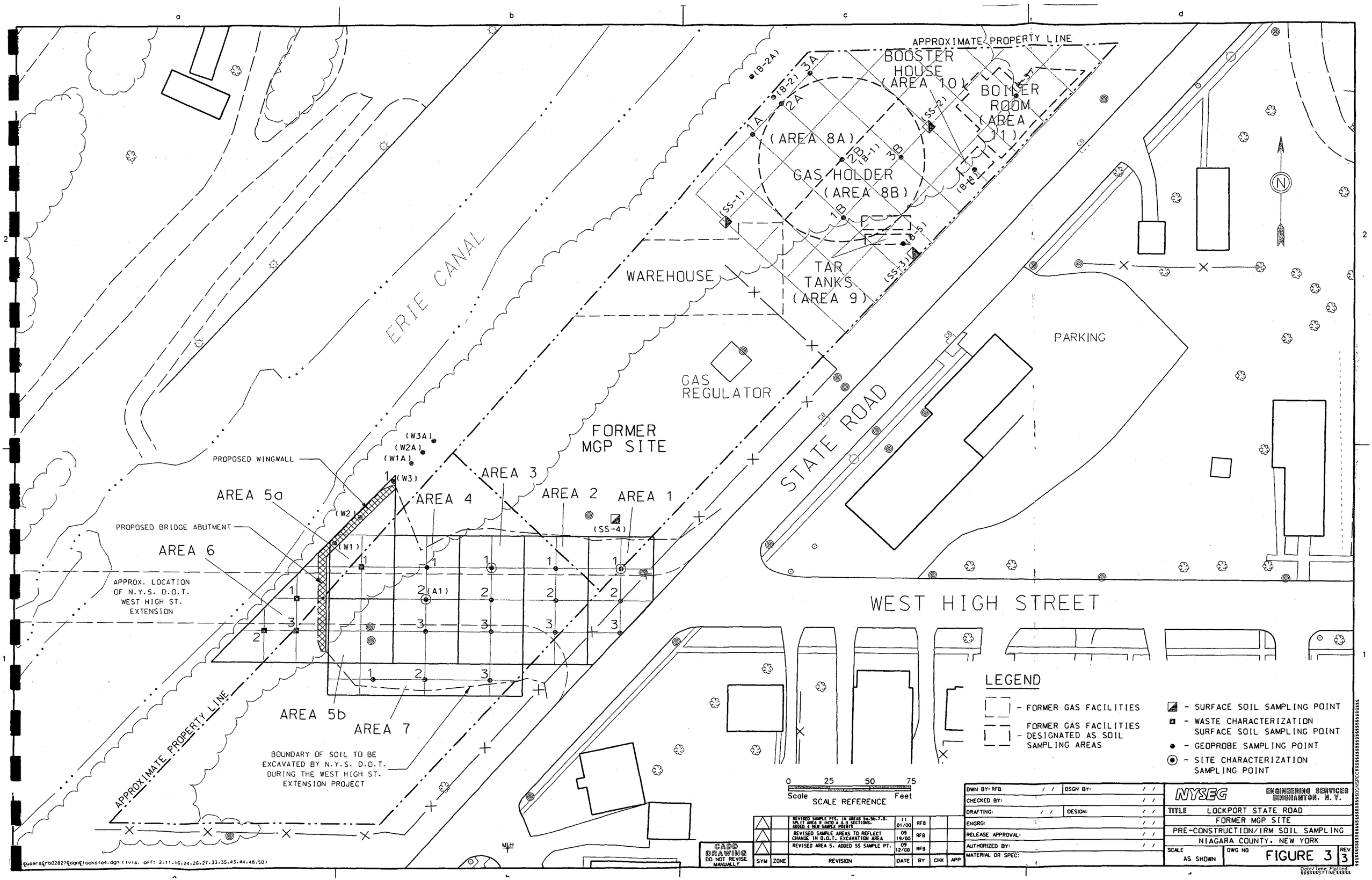
NYSEG ENGINEERING SERVICES BINGHAMTON, N. Y.

TITLE PROJECT LAYOUT
LOCKPORT STATE ROAD
FORMER MGP SITE
NIAGARA COUNTY, NEW YORK

SCALE AS SHOWN | DWG NO FIGURE 4 | REV 2

Date/Time Plotted: 8/8/02 8:57 AM

c:\users\rfb02827\dgn\[lockst06.dgn]



SYM	ZONE	REVISION	DATE	BY	CHK	APP
		REVISED SAMPLE PTS. IN AREAS 5a,5b,7,8. SPLIT AREA 8 INTO A & B SECTIONS. ADDED 4 NEW SAMPLE POINTS	11 01/00	RFB		
		REVISED SAMPLE AREAS TO REFLECT CHANGE IN D.O.T. EXCAVATION AREA	09 19/00	RFB		
		REVISED AREA 5. ADDED SS SAMPLE PT.	09 12/00	RFB		

CADD DRAWING DO NOT REVISE MANUALLY

DWN BY: RFB / /	DSGN BY: / /
CHECKED BY:	/ /
DRAFTING: / /	DESIGN: / /
ENGRG:	/ /
RELEASE APPROVAL:	/ /
AUTHORIZED BY:	/ /
MATERIAL OR SPEC:	

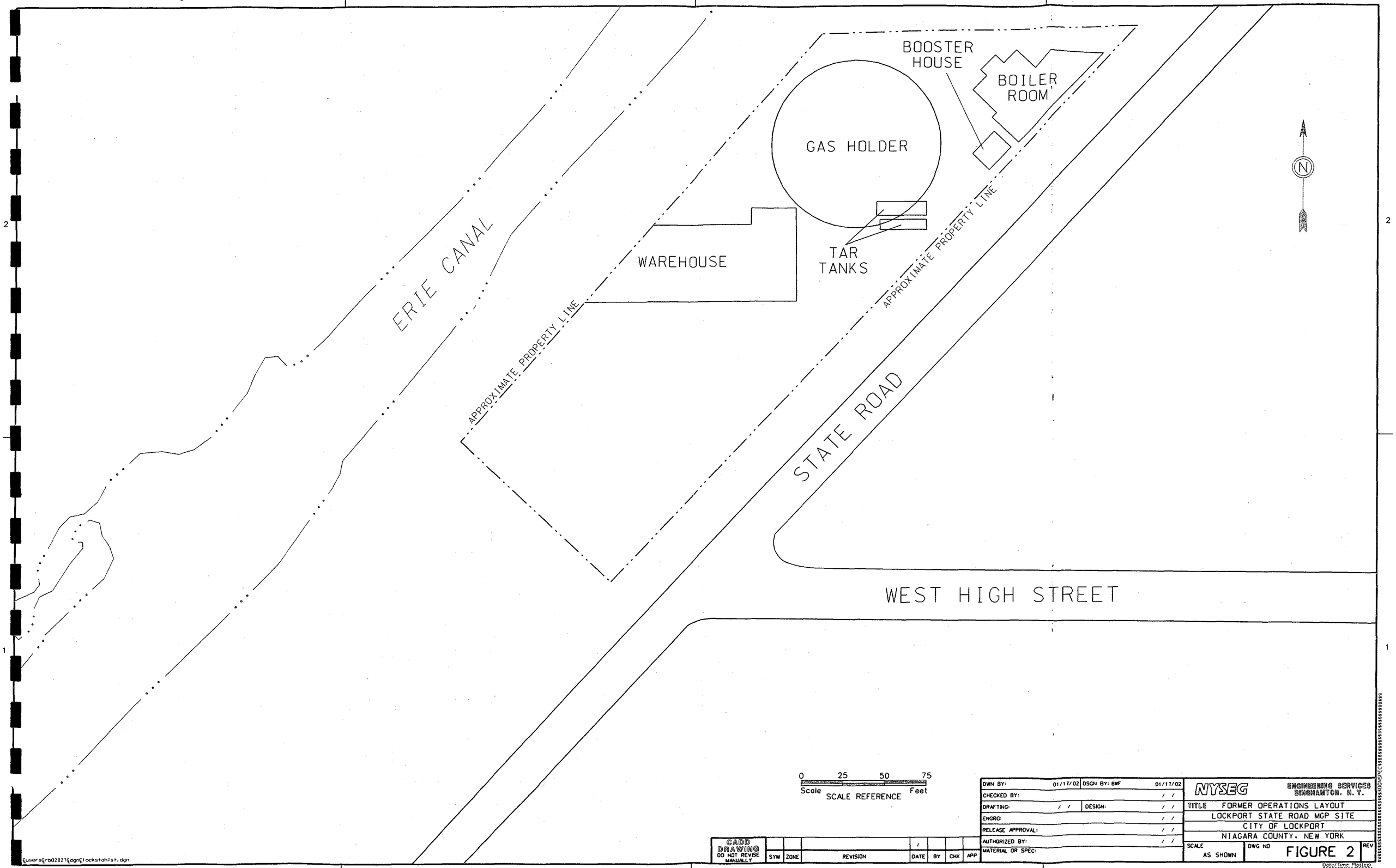
NYSEG ENGINEERING SERVICES BINGHAMTON, N.Y.

TITLE LOCKPORT STATE ROAD
FORMER MGP SITE
PRE-CONSTRUCTION/IRM SOIL SAMPLING
NIAGARA COUNTY, NEW YORK

SCALE AS SHOWN | DWG NO FIGURE 3 | REV 3

Date/Time Plotted: $$$$$$$$/TIME$$$$

c:\users\rb02827\dgn\lockst04.dgn (lvls. off: 2.11.16.24.26.27.33.35.43.44.48.50)



CADD DRAWING DO NOT REVISE MANUALLY	SYM	ZONE	REVISION	DATE	BY	CHK	APP

DWN BY:	01/17/02	DSGN BY: BWF	01/17/02
CHECKED BY:	/ /		/ /
DRAFTING:	/ /	DESIGN:	/ /
ENGRG:			/ /
RELEASE APPROVAL:			/ /
AUTHORIZED BY:			/ /
MATERIAL OR SPEC:			

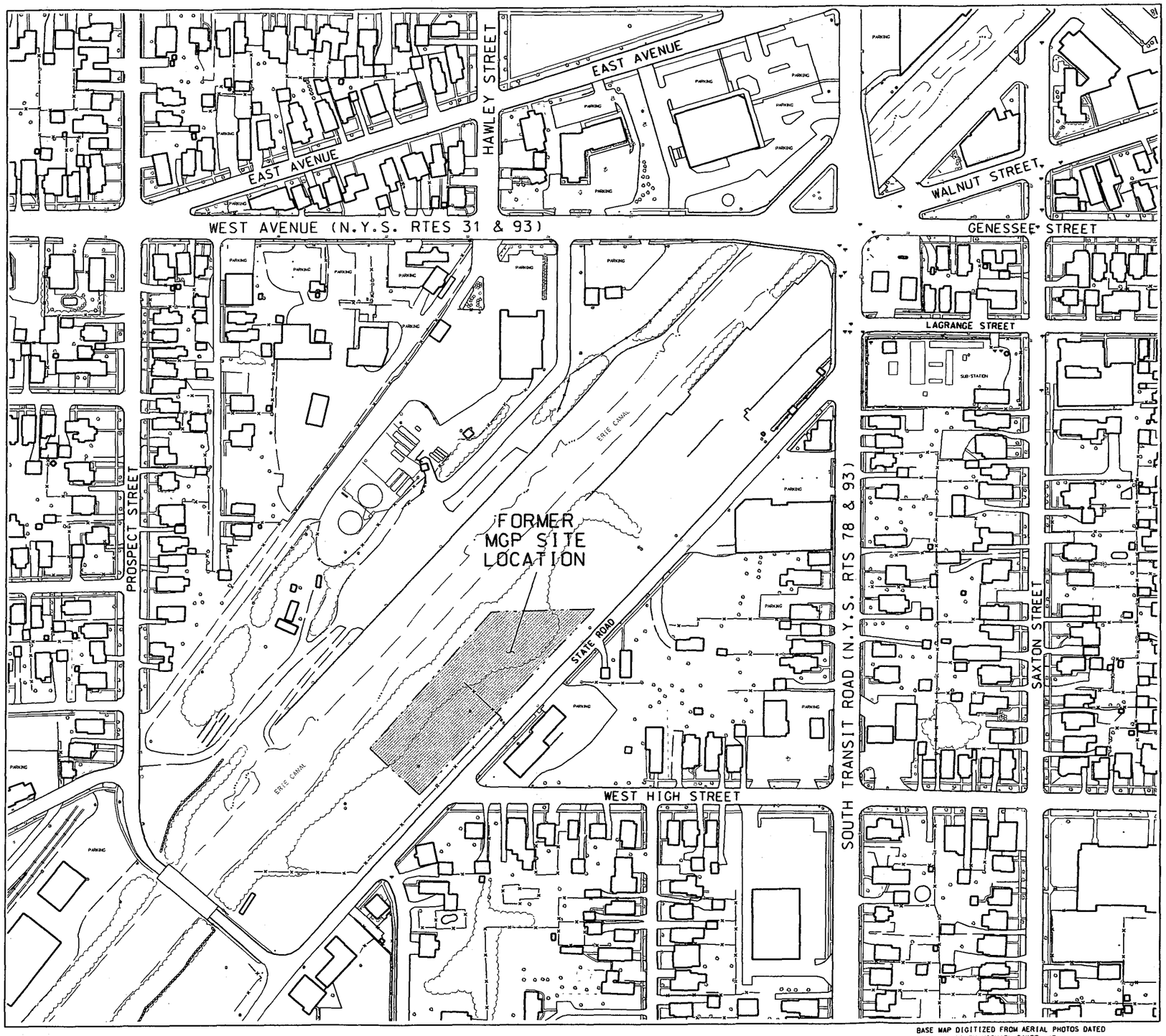
NYSEG ENGINEERING SERVICES BINGHAMTON, N. Y.

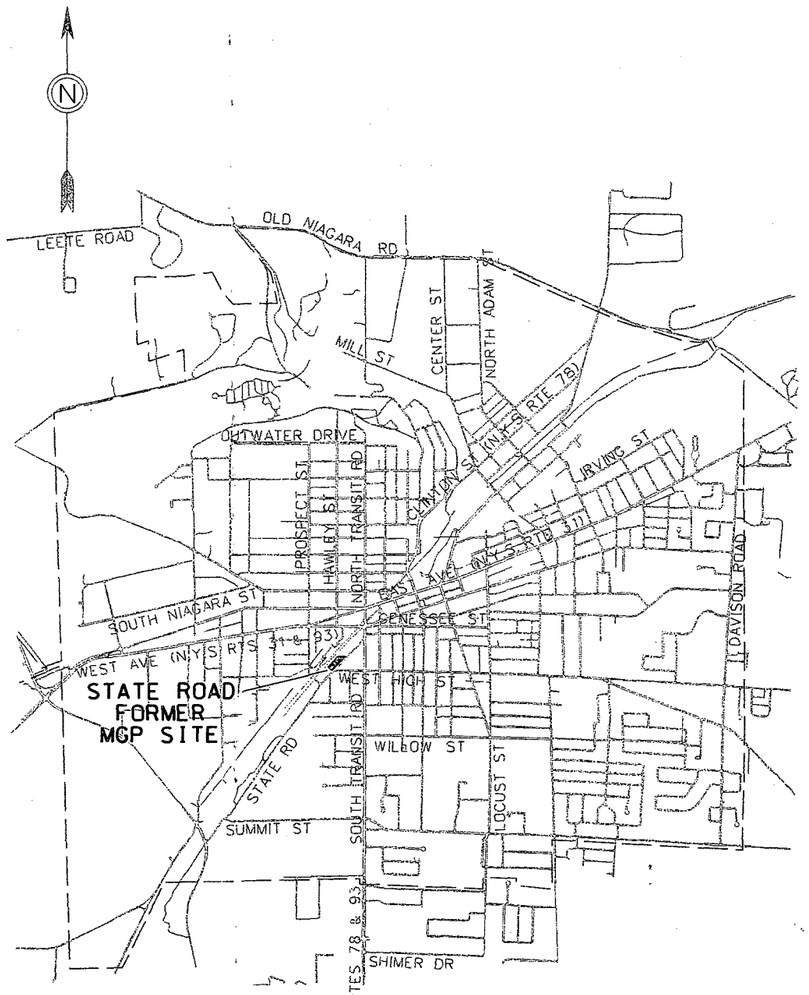
TITLE FORMER OPERATIONS LAYOUT
LOCKPORT STATE ROAD MGP SITE
CITY OF LOCKPORT
NIAGARA COUNTY, NEW YORK

SCALE AS SHOWN | DWG NO FIGURE 2 | REV

{users}rb02821{dgn}lockstahist.dgn

Date/time Plotted: $$$$$$SYTIME$$$$$





CITY OF
LOCKPORT

BASE MAP DIGITIZED FROM AERIAL PHOTOS DATED
APRIL, 1992 BY MICHAEL BAKER, JR.
BEAVER, PA.

0 100 200 300
Scale Feet
SCALE OF DETAIL

NYSEG	ENGINEERING SERVICES BINGHAMTON, N.Y.
TITLE	LOCATION MAP
	LOCKPORT STATE ROAD MGP SITE
	CITY OF LOCKPORT
	NIAGARA COUNTY, NEW YORK
SCALE: AS SHOWN	DWG NO FIGURE 1 REV
DATE: 07/16/99	

Date/Time Plotted:
$$$$$$SYSTIME$$$$$$

:\users\rb02827\dgn\lockloc.dgn (lvls. off: 21,50)

APPENDIX A

PRE-CONSTRUCTION/REMEDIATION IN SITU
SAMPLING & ANALYSIS WORK PLAN

PRE-CONSTRUCTION/REMEDIATION IN SITU
SAMPLES ANALYICAL RESULTS

NYSEG

NEW YORK STATE ELECTRIC & GAS CORPORATION

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

INTERIM REMEDIAL MEASURES

PRE-CONSTRUCTION/REMEDIATION

IN SITU SAMPLING & ANALYSIS WORK PLAN

LOCKPORT STATE ROAD FORMER MGP SITE
LOCKPORT, NEW YORK

September 20, 2000

Prepared by:

John J. Ruspantini, CHMM
Staff Environmental Specialist

Approved by:

Joseph M. Simone, P.E.
Supervising Engineer

Introduction:

The New York State Department of Transportation (DOT) is proposing to construct a road over a small portion the NYSEG (New York State Electric & Gas Corp.) Lockport State Road Former MGP site. A more significant portion of the road will also be constructed on NYSEG property immediately adjacent to the former MGP site. NYSEG is preparing to conduct an investigation to determine if any contaminants associated with historic MGP operations may impact the DOT project and, if so, characterize significantly impacted soil and debris for off-site disposal. In addition, NYSEG plans to conduct a limited investigation in the areas of the former distribution gas holder, tar tanks, booster house, and boiler room building to determine whether an IRM would be appropriate. This work plan delineates a pre-construction/remediation sampling and analysis protocol designed to provide data for in situ waste characterization and site characterization.

The first phase of in situ soil sampling and analysis is designed to properly characterize waste to be generated from the future excavation of soil for the DOT road construction. Based on the analytical results of in situ sampling for waste characterization, any soil determined to be RCRA hazardous waste will either be excavated and (1) sent to a thermal treatment facility; or (2) sent to a secured hazardous waste landfill in Canada. Soil determined to be RCRA non-hazardous waste will be excavated and (1) sent to an industrial non-hazardous waste landfill; or (2) stockpiled on-site for future use as subsurface backfill. Soil with no MGP impacts above background will be handled by DOT as normal construction and demolition debris (C&D). During remedial excavation, visual observations will also be used to segregate waste. For example, all free phase coal tar will be excluded from being used for subsurface backfill or disposed at a sanitary landfill. A total of approximately 3400 cubic yards of soil will be sampled for waste characterization of soil that will be removed for road construction.

The second phase of in situ soil sampling and analysis is designed to determine if gross contamination is present in the former MGP vessels. If site characterization samples indicate that an IRM may be undertaken, NYSEG may then elect to collect in situ soil samples for waste characterization to determine proper off-site disposal of contaminated soil targeted for remedial excavation.

NYSEG will conduct the sampling event. Zebra Environmental Services, Inc will provide geoprobe services and Severn Trent Laboratories, Inc. will provide analytical laboratory services. All sampling and analyses will be performed in accordance with the attached Quality Assurance Project Plan (QAPP). Data will be submitted to NYSDEC for review. The data will also be sent to the landfill and/or hazardous waste disposal facility representatives and the NYSDEC for review and approval prior to the transport of soil to any disposal facility.

The Health and Safety Plan used in a previous investigation has been updated for use in this sampling event. Care will be taken, through the use of plastic bags or equivalent, to ensure that no subsurface material will be spread over the surface of the

site. Soil cuttings, PPE and other sampling related consumables will be containerized for proper off-site disposal.

Sampling Protocol:

The sections of the site targeted for excavation or investigation have been designated Areas 1 - 11. (See Fig. 1) Areas 1 through 7 will represent the DOT road construction area, Area 8 will represent the former gas holder, Areas 9 will represent the area of the former tar tanks, Area 10 will represent the former booster house area and Area 11 will represent the former boiler room area. Sampling points from each Area have been chosen to gather representative waste characterization and/or site characterization samples for the target Areas. Composite samples will be collected in selected Areas for waste characterization of various depths and horizons. Additional soil samples may be collected from any general area where grossly contaminated soil is observed.

A geoprobe sampling rig will be used to collect 2" macrocore samples. The core will be examined to determine any distinct change in coal tar impact with depth. Where specified, the core samples will be properly mixed to generate a composite sample that is representative of its respective soil volume. Each core sample will be placed in a large stainless steel collection vessel. When collecting composite samples for TCLP volatile analysis, volatilization will be minimized by covering the sample compositing container and placing it within a cooler filled with ice between grab sample additions or by opening the core samples simultaneously prior to compositing.

1. DOT Road Construction Area Sampling (Areas 1 through 7)

A. Sampling of Soil to be Excavated for Road Construction

The maximum depth of excavation anticipated for Area 1 is approximately 4 feet below grade surface (bgs). The maximum depth of excavation anticipated for Areas 2 through 7 is approximately 5 feet below grade surface (bgs). For waste characterization profiling of Area 1 , a composite sample will be generated for a depth interval of 0-4'. For waste characterization profiling of Areas 2 through 7, a composite sample will be generated for a depth interval of 0-5'. Each composite sample will be comprised of a minimum of three core grab samples collected at the designated sampling points (depicted in Fig. 1) Each Area's composite sample will represent an estimated volume of soil as delineated in Table 7. Each composite sample will be submitted to the laboratory for determination of List A Analytes (See **Analytical Protocol**). For reuse characterization, at least one worst case grab sample will be collected from each Area. Worst case determination will be based on visual, olfactory and OVA meter observations. Each worst case grab sample will be submitted to the laboratory for determination of List B Analytes (See **Analytical Protocol**).

Site reconnaissance has revealed a steep embankment in Areas 5a, 5b and 6. if sampling equipment and vehicles are not able to access these areas using normal techniques, then the in situ sampling method will be abandoned to ensure worker and equipment safety. At the time of excavation, the soil in the inaccessible areas will be stockpiled, sampled and analyzed (on a priority turnaround basis) to determine proper soil disposition.

B. Sampling of Soil to be Removed for Bridge Abutment and Wing Wall

A bridge abutment and wing wall, as specified by NYSDOT, are currently planned to be placed in Areas 5 and 6. (See figure 1). Based on site reconnaissance, the placement of the bridge abutment will coincide with the embankment described above. Sampling equipment and vehicles are not likely to gain access to this area using normal techniques. Therefore, a sample point will be located along the flat edge at the top of embankment and toward the south end of the abutment. (Approximately located at point A1 as depicted in Figure 1.) Composite samples for at least two depth intervals to a final depth of approximately 40 ft (or bedrock refusal) will be generated from core grab samples collected continuously at sample point A1. Each composite sample will represent approximately 200 cubic yards of soil to be excavated for the abutment placement. According to current specifications, the placement of the wing wall will coincide with the bank of the Erie Canal. Three sample points spanning the width of the wing wall (W1, W2, and W3 - as depicted in Figure 1) will be used to generate composite samples for 8 foot depth intervals to a depth of bedrock refusal. Each composite sample will represent approximately 100 cubic yards of soil to be excavated for wing wall placement. Each composite sample will be submitted to the laboratory for determination of List A Analytes. If, at the time of construction, any soil excavated from the steep embankment appears to be contaminated with MGP constituents, then NYSEG proposes that the soil in question be stockpiled, sampled and analyzed (on a priority turnaround basis) for proper disposition.

C. Sampling of Soil to Remain Beneath Road Construction

Continuous geoprobe macrocore sampling will be conducted along the proposed northern curb line of the road to determine if the soil to remain under the road is impacted by MGP constituents. The geoprobe borings will be advanced at the following sample point locations: Area 1, Sample Point 1; Area 3, Sample Point 1; and Area 4, Sample Point 1 (See Fig. 1). Each boring will be advanced to a minimum depth of 16 feet bgs. If observed MGP impacts are evident at the base of these borings, then the borings will advanced as deeply as possible to the vertical extent of contamination. Each core sample will be examined for visual and olfactory evidence of MGP

impacts and will be screened with an OVA meter. The portion of each core sample which appears most impacted will be submitted to the laboratory for determination of List B Analytes. If any MGP impacts are encountered at boring refusal, then this work plan will be modified to address the situation and personnel and equipment will be re-mobilized to conduct an investigation of the bedrock within the road construction area at a future date.

D. Surface Soil Sampling

In order to determine if precautions need to be taken by DOT workers accessing the excavation area, one surface soil sample will be collected in the vicinity immediately north of Area 1. (i.e., at a location adjacent to the DOT construction where soil will not be removed; See Fig 1: SS-4) The following procedure will be used: A square measuring 1 meter by 1 meter (3.5 feet by 3.5 feet) will be established at each of the surface soil sampling locations. Five grab samples will be collected from the square -- one from each corner of the square and one from the center of it -- and composited into one analytical sample. Each grab sample will be collected from the top 1 inch of soil. An OVA meter will be used to screen each grab sample for VOCs (volatile organic compounds). The five grab samples will then be composited into one sample. Vegetation will be carefully removed from the sample. Each composite surface soil sample will be submitted to the laboratory for determination of List C and List D Analytes. TCL Volatile analysis will only be required if VOC's are detected from the OVA meter screening.

2. MGP Site Sampling

A. Gas Holder Area Sampling

Area 8 will be designated as the former gas holder area. Continuous geoprobe macrocore sampling will be conducted to determine the level of contamination within the perimeter of the former gas holder. The geoprobe boring will be advanced in Area 8, Sample Point 3 (or B-1 as depicted in Figure 1). The core will be examined for visual and olfactory evidence of MGP contamination and will be screened with an OVA meter. The observations will be recorded and the portion of the core which appears most impacted will be submitted to the laboratory for determination of List C and List D Analytes. To determine the level of MGP contamination outside the former gas holder, a second geoprobe boring will be advanced immediately outside and downgradient of the former gas holder (north northwest of the gas holder - See B-2 as depicted in Figure 1) to a depth of 4 feet below the structure, or until there are no MGP impacts observed.

If field observations indicate that an IRM may be conducted to remove the contents of the former gas holder for off-site disposal, composite samples from various depth horizons within the perimeter of the gas holder may be collected for waste characterization. One composite sample will be generated for each two foot interval until the bottom of the holder is encountered. Each composite sample will be comprised of a minimum of five core grab samples collected at the designated sampling points (depicted in Fig. 1) for each depth interval. To accommodate the uneven terrain in this area, the sampling points may be rearranged in the field to develop more congruous depth horizons. Each composite sample will represent approximately 640 yd^3 of soil and will be submitted to the laboratory for determination of List A Analytes.

B. Tar Tank, Booster House and Boiler Room Area Sampling

Area 9 will be designated as the former tar tank area, Area 10 will be designated as the former booster house area, and Area 11 will be designated as the former boiler room area. Continuous geoprobe macrocore sampling will be conducted to determine if MGP constituents are present within the Areas of the former gas plant structures. A minimum of one geoprobe boring will be advanced in each Area (See Figure 1: B-3 in Area 11; B-4 in Area 10; and B-5 in Area 9). The core will be examined for visual and olfactory evidence of MGP impacts and will be screened with an OVA meter. The observations will be recorded and the portion of the core which appears most impacted with will be submitted to the laboratory for determination of List C and List D Analytes.

C. Surface Soil Sampling

Three surface soil samples will be collected in the area of the former MGP site. One sample will be collected west northwest of the former gas holder a second sample will collected north of the former booster house and west of the former boiler room, a third sample will be collected southeast of the former tar tanks (SS-1, SS-2, and SS-3, respectively as depicted in Figure 1). The 5 point composite sampling method described in Section 1C will be used to collect the surface soil samples. Each composite surface soil sample will be submitted to the laboratory for determination of List C and List D Analytes. TCL Volatile analysis will only be required if VOC's are detected from the OVA meter screening.

Analytical Protocol:

(Refer to the attached QAPP for specific methods.)

List A Analytes: TCLP Volatiles, TCLP Semivolatiles, TCLP Metals, TCLP Pesticides, TCLP Herbicides, Reactive Cyanide and Reactive Sulfide (Reactivity), Corrosivity (pH), Flashpoint, PCBs, % Solids, - (Tables 1, 2, & 3).

List B Analytes: Total BTEX (benzene, toluene, ethylbenzene, and xylenes - Table 4); Total PAHs (Table 5).

List C Analytes: Target Analyte List Metals, Total Cyanide (Table 6)

List D Analytes: Target Compound List Volatiles and Semi-Volatiles

TABLE 1: COMPOSITE SAMPLE TCLP ANALYTES AND LIMITS

TCLP Analyte	Regulatory Limit (mg/L) 6NYCRR Part 371
Arsenic	5.0
Barium	100.0
Benzene	0.5
Cadmium	1.0
Carbon tetrachloride	0.5
Chlordane	0.03
Chlorobenzene	100.0
Chloroform	6.0
Chromium	5.0
Cresols (total of o, m, p)	200.0
2,4-D	10.0
1,4-Dichlorobenzene	7.5
1,2-Dichloroethane	0.5
1,1-Dichloroethylene	0.7
2,4-Dinitrotoluene	0.13
Endrin	0.02
Heptachlor	0.008
Hexachlorobenzene	0.13
Hexachlorobutadiene	0.5
Lead	5.0
Lindane	0.4
Mercury	0.2
Methoxychlor	10.0
Methyl ethyl ketone	200.0
Nitrobenzene	2.0
Pentachlorophenol	100.0
Pyridine	5.0
Selenium	1.0
Silver	5.0
Silvex	1.0
Tetrachloroethylene	0.7

TABLE 1: COMPOSITE SAMPLE TCLP ANALYTES AND LIMITS	
TCLP Analyte	**Regulatory Limit (mg/L) 6NYCRR Part 371**
Toxaphene	0.5
Trichloroethylene	0.5
2,4,5-Trichlorophenol	400.0
2,4,6-Trichlorophenol	2.0
Vinyl chloride	0.2

TABLE 2: COMPOSITE SAMPLE ANALYTES AND ACTION LIMITS REACTIVE CYANIDE and REACTIVE SULFIDE (REACTIVITY)	
ANALYTE	**US EPA ACTION LIMIT (MG/KG)**
Reactive Cyanide	250
Reactive Sulfide	500

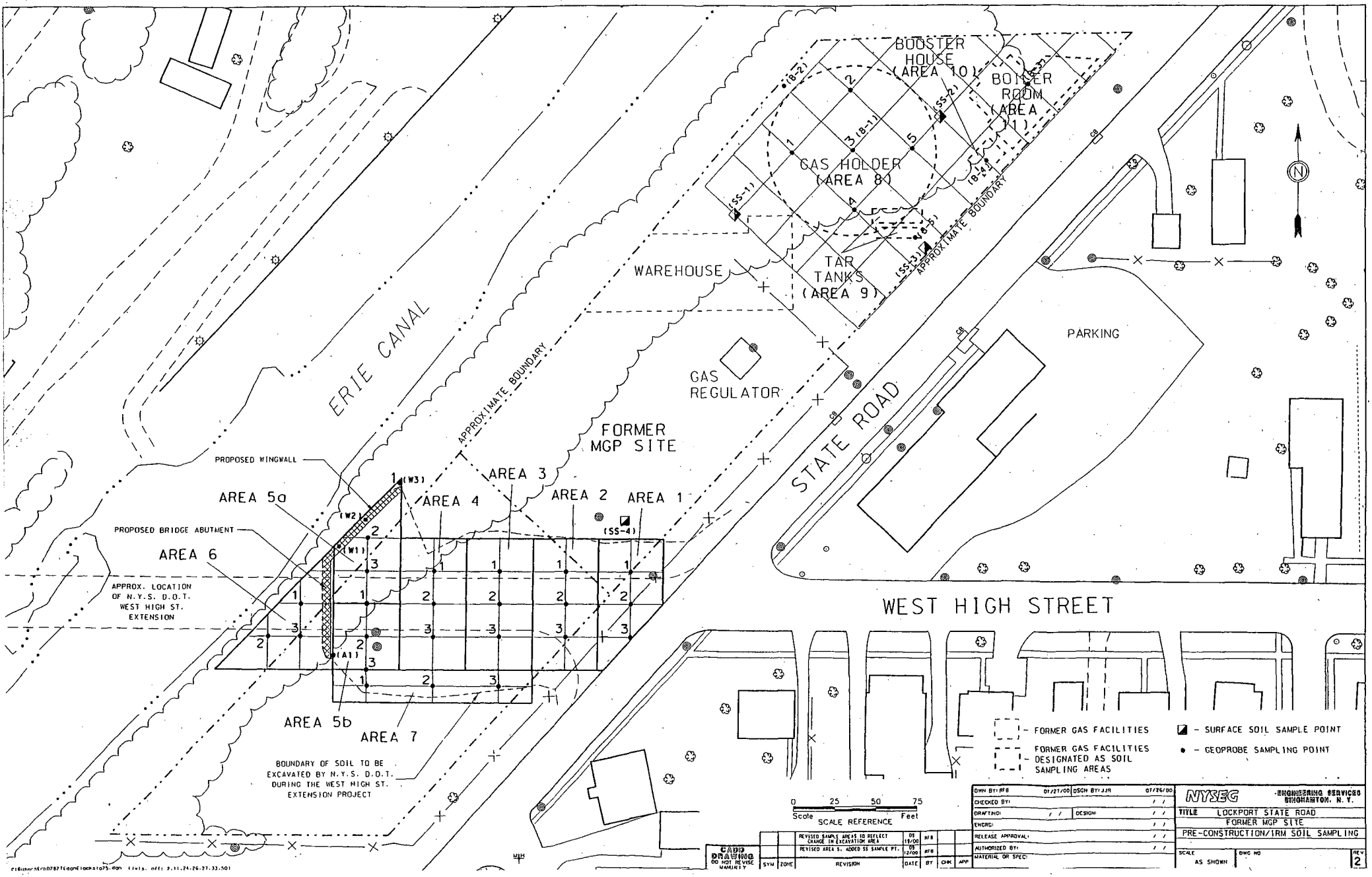
TABLE 3: COMPOSITE SAMPLE ANALYTES AND ACTION LIMITS OTHER RCRA CHARACTERISTICS AND LANDFILL ANALYTICAL REQUIREMENTS	
ANALYTE	**LIMIT**
Corrosivity (pH)	Non- Corrosive (pH must be >2 or <12.5)
Flashpoint	Must be > 60 deg. C
PCBs (Total)	50 mg/Kg
% Solids	Must be > 20%

TABLE 4: TOTAL BTEX (BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES)
ANALYTE
Benzene
Toluene
Ethylbenzene
Xylenes

TABLE 5: TOTAL POLYCYCLIC AROMATIC HYDROCARBONS (PAH)
PARAMETER
Naphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Fluorene
Phenanthrene
Anthracene
Fluoranthene
Dibenzofuran
Pyrene
Benzo (g,h,i) perylene
Benzo (a) anthracene*
Chrysene*
Benzo (b) fluoranthene*
Benzo (k) fluoranthene*
Benzo (a) pyrene*
Indeno (1,2,3 cd) pyrene*
Dibenzo (a, h) anthracene*
*Carcinogenic PAHs (cPAH)

TABLE 6: Target Analyte List Metals & Total Cyanide	
PARAMETER	
Aluminum	Magnesium
Antimony	Manganese
Arsenic	Mercury
Barium	Nickel
Berylium	Potassium
Cadmuim	Selenium
Calcium	Silver
Chromium	Sodium
Cobalt	Thallium
Copper	Vanadium
Iron	Zinc
Lead	Total Cyanide

TABLE 7: Estimated Soil Volumes - DOT Road Construction Area	
Area 1	415 Yd^3
Area 2	590 Yd^3
Area 3	590 Yd^3
Area 4	590 Yd^3
Area 5a	422 Yd^3
Area 5b	296 Yd^3
Area 6	520 Yd^3
Area 7	440 Yd^3



		REVISED SAMPLE AREAS TO REFLECT CHANGE IN EXCAVATION AREA	08 19/00	RFB		
		REVISED AREA 5, ADDED SS SAMPLE PT.	08 27/00	RFB		
SYM	ZONE	REVISION	DATE	BY	CHK	APP

CADD DRAWING DO NOT REVISE MANUALLY

DWN BY: RFB	01/27/00	DSGN BY: JJR	07/26/00
CHECKED BY:	/ /		
DRAFTING:	/ /	DESIGN:	/ /
ENERG:			/ /
RELEASE APPROVAL:			/ /
AUTHORIZED BY:			/ /
MATERIAL OR SPEC:			/ /

NYSEG — ENGINEERING SERVICES BINGHAMTON, N.Y.

TITLE: LOCKPORT STATE ROAD
FORMER MGP SITE
PRE-CONSTRUCTION/IRM SOIL SAMPLING

SCALE: AS SHOWN | DWG NO | REV 2

PRE-CONSTRUCTION/REMEDIATION IN SITU SAMPLES ANALYICAL RESULTS

Table 1
New York State Electric & Gas Corp
Lockport State Road Proposed Bridge Site
Pre-Construction/Remediation Investigation
Results of Soil Reuse Samples

Area/ Sample Point	Sample Depth (ft)	Sample ID	Sample Collection Date	Total Benzene (ppm)	Total PAH (ppm)	Total cPAH (ppm)	Naphthalene (ppm)
1/1	0-4	LSVI010401G	9/26/00	<0.005	5.800	5.800	<3.000
2/3	0-5	LSVI030502G	9/25/00	<0.005	25.50	19.70	<12.00
3/2	0-5	LSVI020503G	9/25/00	<0.005	32.46	11.90	<1.200
4/1	0-5	LSVI010504G	9/25/00	<0.005	34.50	10.20	<1.200
7/3	0-5	LSVI030507G	9/25/00	<0.005	148.8	71.70	1.10

ppm means parts per million.
na means not applicable.
PAH means polycyclic aromatic hydrocarbons
cPAH carcinogenic polycyclic aromatic hydrocarbons
PAH data are the results of original semivolatile analysis

Table 2
New York State Electric & Gas Corp
Lockport State Road Proposed DOT Bridge Site
Pre-Construction/Remediation Investigation
Results of Site Characterization Samples

Area/ Sample Point	SampleDepth (ft)	Sample ID	Sample Collect Date	Total Benzene (ppm)	Total PAH (ppm)	Total cPAH (ppm)	Naphthalene (ppm)	Total Cyanide (ppm)
1/1	6-8	LSVIC16801G	9/26/00	<0.005	93.00	39.00	<6.700	nd
1/1	8-10	LSVIC181001G	9/26/00	<0.005	150.9	119.6	<6.500	nd
1/1	14-16	LSVIC1141601G	9/26/00	<0.005	<0.330	<0.330	<0.330	nd
3/1	6-8	LSVIC16803G	9/25/00	<0.005	19.50	19.50	<12.00	nd
3/1	10-12	LSVIC101203G	9/25/00	<0.005	1077	471.0	<13.00	nd
3/1	14-16	LSVIC1141603G	9/25/00	<0.005	<1.500	<1.500	<1.500	nd
4/2	6-8	LSVIC26804G	9/26/00	<0.005	0.207	0.084	<0.330	nd
4/2	10-12	LSVIC2101204G	9/26/00	<0.005	0.261	0.087	<0.330	nd
4/2	14-16	LSVIC2141604G	9/26/00	<0.005	0.600	0.600	<0.330	nd
na	surface (SS-4)	LSVISS04C	9/26/00	<0.011	3.721	1.792	<3.400	<0.50

ft means feet.
ppm means parts per million.
na means not applicable.
nd means not determined
PAH means polycyclic aromatic hydrocarbons
cPAH carcinogenic polycyclic aromatic hydrocarbons
PAH data are the results of original semivolatile analysis

Table 3
New York State Electric & Gas Corporation
Lockport State Road Proposed DOT Bridge Site
Pre-construction/Remediation Investigation
Analytical Results of Pre-remediation In Situ Sampling
Waste Characterization - Areas 1, 2, 3, 4, 5A, 6, 7, WW, WWA, and A1

Area	Depth Interval (ft)	Sample ID	Sample Collect Date	RCRA Waste Classification	TCLP Benzene (ppm)	Soil Volume (yd^3)	Comments
1	0-4	LSVIWC0401C	9/26/00	Non-hazardous	<0.006	415	
2	0-5	LSVIWC0502C	9/25/00	Non-hazardous	<0.006	590	
3	0-5	LSVIWC0503C	9/25/00	Non-hazardous	<0.006	590	
4	0-5	LSVIWC0504C	9/25/00	Non-hazardous	<0.006	590	
5a	0-0.5	LSVIWCBB05A	9/26/00	Non-hazardous	<0.006	90	Noted bluish stain and sulfury odor in sufrace soil
6	0-0.5	LSVIWCSS06C	9/26/00	Non-hazardous	<0.006	100	
7	0-5	LSVIWC0507C	9/25/00	Non-hazardous	<0.006	440	
WW	0-4	LSVIWC04WWC	9/26/00	Non-hazardous	<0.006	50	
WWA	0-4	LSVIWC04WWAC	9/25/00	Non-hazardous	<0.006	50	
	4-8	LSVICW48WWAC	9/25/00	Non-hazardous	<0.006	50	
A1	0-20	LSCVIWC020A1C	9/26/00	Non-hazardous	<0.006	200	
	20-23	LSVIWC2023A1G	9/26/00	Non-hazardous	<0.006	30	
Total Volume Non-hazardous						**3195**	
Total Volume Hazardous						**0**	

ppm means parts per million.
yd^3 means cubic yards
WW means proposed wing wall area (composite of grab samples from W1, W2 and W3).
WWA means proposed wing wall area offset North Northeast (composite of samples from W1A, W2A and W3A).
A1 means sample area intended for the proposed bridge abutment (this area was offset East due to refusal in the specified bridge abutment area).

c:\wpdocs\Lockport\sampling results waste char1.wpd

Table 4
New York State Electric & Gas Corp
Lockport State Road Former MGP Site
Pre-Construction/Remediation investigation
Results of Soil Borings and Surface Soil Samples

Area/ Boring	Depth (ft)	Sample ID	Sample Collect Date	Total Benzene (ppm)	Total PAH (ppm)	Total cPAH (ppm)	Naphthalene (ppm)	Total Cyanide (ppm)
8B/B1	3-4	LSVI34B1G	9/26/00	<0.010	0.684	0.354	<3.500	<0.50
8B/B1	7-8	LSVI78B1G	9/26/00	<0.011	97.20	34.15	0.280	<0.50
8B/B1	10-11	LSVI1011B1G	9/26/00	<0.011	2.140	0.924	<1.900	<0.50
8B/B1	12-13	LSVI1213B1G	9/26/00	<0.011	37.72	13.93	0.140	1.30
na/B2	0-4	LSVI04B2G	9/25/00	<0.010	99.03	33.60	1.400	15.7
11/B3	2-3	LSVI23B3G	9/26/00	<0.011	5.900	2.945	<3.600	0.78
11/B3	5-6	LSVI56B3G	9/26/00	<0.011	1228.	359.7	11.00	1.70
10/B4	2-4	LSVI24B4G	9/26/00	<0.011	11.60	5.230	<35.00	2.00
10/B4	6-7	LSVI67B4G	9/26/00	0.004	139.0	41.00	8.000	12.5
10/B4	8-9	LSVI89B4G	9/26/00	<0.011	54.45	18.71	2.200	3.00
10/B4	13-15	LSVI1315B4G	9/26/00	<0.011	36.69	17.14	0.930	2.50
10/B4	17-19	LSVI1719B4G	9/26/00	<0.011	31.39	15.93	0.560	3.00
10/B4	21-23	LSVI2123B4G	9/26/00	<0.012	1.811	0.693	0.070	10.0
9/B5	2-3	LSVI23B5G	9/26/00	<0.010	12.48	7.480	<18.00	<0.50
9/B5	7-8	LSVI78B5G	9/26/00	<0.011	11.18	5.570	0.019	<0.50
9/B5	10-12	LSVI1012B5G	9/26/00	<0.011	24.44	10.20	<1.900	<0.50
na	surface (SS-1)	LSVISS01C	9/26/00	<0.014	5.899	2.600	<3.500	0.99
na	surface (SS-2)	LSVISS02C	9/26/00	<0.013	7.393	3.546	<4.100	0.83
na	surface (SS-3)	LSVISS03C	9/26/00	<0.011	8.135	4.140	4.600	<0.50

ft means feet.
ppm means parts per million.
na means not applicable.
PAH means polycyclic aromatic hydrocarbons
cPAH carcinogenic polycyclic aromatic hydrocarbons

Table 5
New York State Electric & Gas Corporation
Lockport State Road Former MGP Site
Pre-construction/Remediation Investigation
Analytical Results of Pre-remediation In Situ Sampling
Waste Characterization - Areas 8A and 8B

Area	Depth Interval (ft)	Sample ID	Sample Collect Date	RCRA Waste Classification	TCLP Benzene (ppm)	Soil Volume (yd^3)	Comments
8A	0-4	LSVIWC0408AC	9/25/00	Non-hazardous	<0.006	600	
8B	0-4	LSVIWC0408BC	9/25/00	Non-hazardous	<0.006	600	
	4-8	LSVIWC4808BC	9/25/00	Non-hazardous	<0.006	600	
Total Volume Non-hazardous						1800	
Total Volume Hazardous						0	

ppm means parts per million
yd^3 means cubic yards

Lockport State Road Former Manufactured Gas Plant (MGP) Site
Pre-construction/Remediation In Situ Soil Sampling Field Notes
J. J. Ruspantini - Project Manager

September 25, 2000

Arrive 10:30, mostly sunny, temp approximately 60 degrees F. Present: Scott Fisher-URS geologist; Zebra Environmental - geoprobe company (Butch, Chris, Ken); Dave Kerrick and tree removal crew; Brian Balchikonis of Beak; Eric Knapp of DEC arrives ~ 13:00.

Walked site with Dave Kerrick to determine what trees required removal to access sampling points. Noted significant slope, rip rap, and forestation in Areas 5a, 5b and 6.. (Geoprobe unit will not gain access to these areas.) Ran ATV mounted geoprobe rig down the embankment in Area 8 to gain access to sample points closer to the canal. Scott Fisher was charged with directing geoprobe crew and collection of samples in the former MGP area. (See field notes and boring logs from Scott Fisher of URS for work done in the MGP Areas.)

DOT Construction Area Sampling:

NYSEG gas department contacted to confirm main markout in area 1.

Waste Characterization and Soil Reuse Samples:

Area 2
Sample point 1, 0-5': fill, brown soil, clay, no visible tar, no coal tar odors, PID = 0.0 ppm.

Sample point 2 , 0-5': fill, brown soil, no visible tar, no coal tar odors, PID = 0.0 ppm.

Sample point 3 , 0-5': fill, brick, stone, no visible tar, no coal tar odors, PID = 0.0 ppm.

Use sample point 3 as worst case sample for potential soil reuse.

Area 3
Sample point 1 , 0-5': fill, brown soil, no visible tar, no coal tar odors, PID = 0.0 ppm.

Sample point 2 , 0-5': fill, brown red soil, brick, clay, no visible tar, no coal tar odors, PID = 0.0 ppm.

Sample point 3 , 0-5': fill, stone no visible tar, no coal tar odors, PID = 0.0 ppm.

Use sample point 2 as worst case sample for potential soil reuse.

Area 4
Sample point 1 , 0-5': fill, brown soil, no visible tar, no coal tar odors, PID = 0.0 ppm.

Sample point 2 , 0-5': fill, brown soil, concrete, no visible tar, no coal tar odors, PID = 0.0 ppm.

Sample point 3 , 0-5': fill, brown soil, concrete, no visible tar, no coal tar odors, PID = 0.0 ppm.

Use sample point 1 as worst case sample for potential soil reuse.

Area 7
Sample point 1 , 0-5': fill, brown soil, **coal**, stone, no visible tar, no coal tar odors, PID = 0.0 ppm.

Sample point 2 , 0-5': fill, brick, silty clay, wet, no visible tar, no coal tar odors, PID = 0.0 ppm.

Sample point 3 , 0-5': fill, brown soil, glass, no visible tar, no coal tar odors, PID = 0.0 ppm.

Use sample point 3 as worst case sample for potential soil reuse.

Site Characterization Samples:

Area 3
Sample point 1, 4-8': brown sandy soil, wet silty clay, fill, no visible tar, no coal tar odor, PID = 0.0 ppm. Sample taken at 6-8'

Sample point 1, 8-12': brown sandy soil, wet dark clay (?), fill, no visible tar, no coal tar odor, PID = 0.0 ppm. Sample taken at 10-12'

Sample point 1, 12-16': dark soil "clay" like, fill, brick, stone, glass, no visible tar, no coal tar odor, PID = 0.0 ppm. Sample taken at 14-16'

End sampling in DOT construction Area at 17:35.

September 26, 2000
Arrived on-site 08:09. Partly cloudy skies. Temp approximately 50 degrees F. Present: Scott Fisher (URS); Butch, Ken, Chris (Zebra); Eric Knapp (DEC); Brian Balchikonis (BEAK). NYSEG Gas dept contacted to send truck with winch to pull out ATV geoprobe rig - Jim Volpe and Rick dispatched to hoist rig from canal bank.

Waste Characterization and Soil Reuse Samples:

Area 1
Sample point 1, 0-4': brown wet soil, fill, brick, no visible tar, no coal tar odors, PID = 0.0 ppm.

Sample point 2, 0-4': fill, brown, soil, no visible tar, no coal tar odors, PID = 0.0 ppm.

Sample point 3, 0-4': brown sandy soil, stone, fill, no visible tar, no coal tar odors, PID = 0.0 ppm.

Use sample point 1 as worst case sample for potential reuse.

Abutment Location Waste Characterization Sample:

Sample point A1 was intended to provide waste characterization data for soil to be excavated for the bridge abutment. However, numerous refusals along bank edge in Areas 5a and 5b forced the crew to locate sampling point A1 to Area 4, sample point 2, east of the specified location of the bridge abutment. Limestone rip rap suspected at the edge of the embankment.

Area 4
Sample point 2, 0-4': brown soil, gravel, fill, no visible tar, no coal tar odors, PID = 0.0 ppm.

Sample point 2, 4-8': fill, brick, stone, no visible tar, no coal tar odors, PID = 0.0 ppm.

Sample point 2, 8-12': stone, gravel, fill, no visible tar, no coal tar odors, PID = 0.0 ppm.

Sample point 2, 12-16': stone, gravel, fill, no visible tar, no coal tar odors, PID = 0.0 ppm.

Sample point 2, 16-20': gravel, fill, stone, brown clay -18', no visible tar, no coal tar odors, PID = 0.0 ppm.

Composite all cores from 0-20 to form one waste characterization sample.

Sample point 2, 20-24': refusal at 23', brown clay, grey clay, fill no visible tar, no coal tar odors, PID = 0.0 ppm.

Deeper boring for waste characterization in this area has been abandoned. Avoiding refusal requires moving to far back from the edge of the embankment to get useful waste characterization data in the vicinity of the bridge abutment installation.

Waste Characterization Sampling:

Area 5A

Purifier waste observed in the embankment of Area 5A. **Bluish color and sulfury odor.** One composite surface soil collected for waste characterization parameters. ATV geoprobe rig could not access this area due to steep slope and large rip rap.

Area 5B
Soil in this area could not be accessed for sampling due to large rip rap and heavy forestation on a steep slope.

Area 6

One composite surface soil sample collected for waste characterization parameters. ATV geoprobe rig could not access this area due to steep slope and large rip rap.

Site Characterization Samples:

Area 4
Sample point 1, 4-8': refusal at 5'; moved sampling location to sample point 2.

Sample point 2, 4-8': fill, stone, soil, no visible tar, no coal tar odor, PID = 0.2 ppm. Sample taken at 6-8'

Sample point 2, 8-12': fill, stone, soil, no visible tar, no coal tar odor, PID = 1.0 ppm. Sample taken at 10-12'.

Sample point 2, 12-16': fill, stone, soil, clay ~ 15ft. no visible tar, no coal tar odor, PID = 1.0 ppm. Sample taken at 14-16'.

Area 1

Sample point 1, 4-8': fill, brown silty clay, **purifier waste evident at ~ 8', sulfury odor observed,** no visible tar, no coal tar odor, PID = 0.0 ppm. Sample taken at 6-8'.

Sample point 1- offset, 8-12': fill, red sand, silt, no visible tar, **purifier waste 8-10',** no coal tar odor, PID = 0.0 ppm. Sample taken at 8-10'.

Sample point 1- offset, 12-16': red sand, silt at 13', **purifier waste 12-13',** PID = 0.0 ppm.

Surface Soil Sampling:

DOT Construction Area
Sample point 4: fill, gravel, soil:
Grab #1 - PID = 0.0 ppm, no visible tar, no coal tar odor.
Grab #2 - PID = 0.0 ppm, no visible tar, no coal tar odor.
Grab #3 - PID = 0.0 ppm, no visible tar, no coal tar odor.
Grab #4 - PID = 0.0 ppm, no visible tar, no coal tar odor.
Grab #5 - PID = 0.0 ppm, no visible tar, no coal tar odor.

MGP Site

Sample point 1: brown/black top soil
Grab #1 - PID = 0.0 ppm, no visible tar, no coal tar odor.
Grab #2 - PID = 0.0 ppm, no visible tar, no coal tar odor.
Grab #3 - PID = 0.0 ppm, no visible tar, no coal tar odor.
Grab #4 - PID = 0.0 ppm, no visible tar, no coal tar odor.
Grab #5 - PID = 0.0 ppm, no visible tar, no coal tar odor.

Sample point 3: brown/black top soil
Grab #1 - PID = 0.0 ppm, no visible tar, no coal tar odor.
Grab #2 - PID = 0.0 ppm, no visible tar, no coal tar odor.
Grab #3 - PID = 0.0 ppm, no visible tar, no coal tar odor.
Grab #4 - PID = 0.0 ppm, no visible tar, no coal tar odor.
Grab #5 - PID = 0.0 ppm, no visible tar, no coal tar odor.

Sample point 2: brown/black top soil
Grab #1 - PID = 0.0 ppm, no visible tar, no coal tar odor.
Grab #2 - PID = 0.0 ppm, no visible tar, no coal tar odor.
Grab #3 - PID = 0.0 ppm, no visible tar, no coal tar odor.
Grab #4 - PID = 0.0 ppm, no visible tar, no coal tar odor.
Grab #5 - PID = 0.0 ppm, no visible tar, no coal tar odor.

JJR ends sampling at 14:55. All samples left in custody of Scott Fisher for in person delivery to Severn Trent Laboratories in Amherst, NY. JJR demobed from site at 16:15.

URS

79 Hammond Lane
Plattsburgh, New York 12901 (518) 566-7022 FAX: (518) 566-0106

Letter of Transmittal

To: John Ruspantini
NYSEG
Corp Drive, Kirkwood Industrial Park
PO Box 5224
Binghamton NY 13902-5224

Date: 10/23/00 Job No.: 0535635.81
Re: State Rd. Former MGP, Lockport

PLEASE REFER TO THE TRANSMITTAL NUMBER ON ALL FUTURE CORRESPONDENCE_____

We are sending you ☐ Attached ☐ Under Separate Cover the following items:

☐ Shop Drawings ☐ Prints ☐ Plans ☐ Specifications
☐ Copy of letter ☐ Change Order ☐ _____

COPIES	DRAWING NO.	DATE	DESCRIPTION
1			Geoprobe Logs (8 each) dated 9/25/00

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ No Exceptions Taken ☐ Resubmit ____ copies for approval
☐ For your use ☐ Revise as Noted ☐ Submit ____ copies for distribution
☐ As requested ☐ Amend and Resubmit ☐ Return ____ corrected prints
☐ For review and comment ☐ Rejected - See Remarks ☐ _____
☐ FOR BIDS DUE _____ 19 ____ ☐ PRINTS RETURNED AFTER LOAN TO US

Remarks: Logs are provided in accordance with NYSEG Contract #98-024, Work Order 80-6630. Please call if you have any questions or comments.

Copies to:

Paul E. Pavone
Office Supervisor

URS Greiner Woodward Clyde

GEOPROBE LOG

BORING NO.: B-1

PROJECT: State Rd. Former MGP, Lockport

SHEET: 1 OF 1

CLIENT: NYSEG

JOB NO.: 05000035635.81

BORING CONTRACTOR: Zebra Environmental Services

BORING LOCATION:

GROUNDWATER: —

DATE	TIME	LEVEL	TYPE		CAS.	SAMPLER	CORE	TUBE
				TYPE		Macro-Core (mc)		
				DIA.			2"	
				WT.				
				FALL				

* POCKET PENETROMETER READING

GROUND ELEVATION:

DATE STARTED: 9/25/2000

DATE FINISHED: 9/25/2000

DRILLER: Butch Eagan

GEOLOGIST: Scott Fischer

REVIEWED BY:

DEPTH FEET	STRATA	SAMPLE "S" NO.	SAMPLE CORE NO.	SAMPLE BLOWS PER 6"	SAMPLE RECOVERY ROD%	DESCRIPTION COLOR	DESCRIPTION CONSISTENCY HARDNESS	DESCRIPTION MATERIAL DESCRIPTION	DESCRIPTION CLASS USCS	REMARKS	PID
0			mc 1		90%	Dk. Brown		Apparent Fill Material - Sand/Silt/Gravel mixture, glass fragments Brick, Ash, Cinders, Slag, Coke.	GM	Dry	0.0 ppm
4						Orange/ Tan					
5			mc 2	NA NA	100%	Medium Brown Orange/ Tan	NA	- Black Stain @ 7'-8' bgs w/ No PID Reading.		Sl. Moist	0.0 ppm
8		NA									
10			mc 3		100%	Dk. Brown					0.0 ppm
12			mc 4		25%	Orange/ Tan					0.0 ppm
13								E.O.B & Refusal @ 13' bgs			

COMMENTS: Boring Advanced using Geoprobe direct Push unit mounted on an ATV.

PROJECT NO.: 35635.81

BORING NO.: B-1

URS Greiner Woodward Clyde

GEOPROBE LOG

BORING NO.: B-2

PROJECT: State Rd. Former MGP, Lockport
SHEET: 1 OF 1
CLIENT: NYSEG
JOB NO.: 05000356 35.81
BORING CONTRACTOR: Zebra Environmental Services
BORING LOCATION:
GROUNDWATER: —
GROUND ELEVATION:

DATE	TIME	LEVEL	TYPE		CAS.	SAMPLER	CORE	TUBE
				TYPE		Macro-Core(mc)		
				DIA.			2"	
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 9/25/2000
DATE FINISHED: 9/25/2000
DRILLER: Butch Eagan
GEOLOGIST: Scott Fischer
REVIEWED BY:

DEPTH FEET	STRATA	SAMPLE "S" NO.	SAMPLE CORE NO.	SAMPLE BLOWS PER 6"	SAMPLE RECOVERY RQD%	DESCRIPTION COLOR	DESCRIPTION CONSISTENCY HARDNESS	DESCRIPTION MATERIAL DESCRIPTION	CLASS USCS	REMARKS	PID
1	S0.5	NA	mc 1	NA NA	90%	DK. to Med. Brown	NA	- Apparent Fill Material - Silt w/ Traces of Med. to Coarse Sand & Fine gravel, Roots & organics Some glass, metal, & cinders. - 1' to 3.5' bgs Silt & Fine Sand w/ Some rounded gravel up to 1" d. Same rubbish as above.	ML SM	- Slightly moist - Dry	0.0 ppm
2	S0.5										
3	S0.5										
4								E.O.B & Refusal @ 4' bgs NOTE: 4' was the greatest Depth achieved after 4 attempts.			
5											
10											
15											
20											
25											
30											
35											
40											

COMMENTS: Boring Advanced Using a Geoprobe Direct Push Unit Mounted on an ATV.

PROJECT NO.: 35635.81
BORING NO.: B-2

URS Greiner Woodward Clyde

GEOPROBE LOG

BORING NO.: B-2A

PROJECT: State Rd. Former MGP, Lockport

SHEET: 1 OF 1

CLIENT: NYSEG

JOB NO.: 050035635.81

BORING CONTRACTOR: Zebra Environmental Services

BORING LOCATION:

GROUNDWATER: ——

DATE	TIME	LEVEL	TYPE		CAS.	SAMPLER	CORE	TUBE
				TYPE		Macro-Core(mc)		
				DIA.			2"	
				WT.				
				FALL				

GROUND ELEVATION:

DATE STARTED: 9/25/2000

DATE FINISHED: 9/25/2000

DRILLER: Butch Eagan

GEOLOGIST: Scott Fischer

* POCKET PENETROMETER READING

REVIEWED BY:

DEPTH FEET	STRATA	SAMPLE "S" NO.	SAMPLE CORE NO.	SAMPLE BLOWS PER 6"	SAMPLE RECOVERY ROD%	DESCRIPTION COLOR	DESCRIPTION CONSISTENCY HARDNESS	DESCRIPTION MATERIAL DESCRIPTION	DESCRIPTION CLASS USCS	REMARKS	PID
2	5.0	NA	mc 1	NA NA	100%	Orange/ Tan	NA	0-3.5': See B-2 3.5' to 5': Silty Fine Sand, Trace of Angular gravel, up to 1"d. (Apparent Fill Material).	SM	Dry	0.0 ppm
4	5.0		mc 2		25%			4.5' to 4.75': Black Layer, No PID Reading, Asphalt Cinders & Ash.			0.0 ppm
5								E.O.B & Refusal @ 5' bgs.			
								Note: Deepest Depth Achieved after 4 attempts.			
10											
15											
20											
25											
30											
35											
40											

COMMENTS: Boring Advanced using a Geoprobe Direct Push Unit Mounted on an ATV.

PROJECT NO.: 35635.81

BORING NO.: B-2A

URS Greiner Woodward Clyde

GEOPROBE LOG

BORING NO.: B-3

PROJECT: State Rd. Former MGP, Lockport

SHEET: 1 OF 1

CLIENT: NYSEG

JOB NO.: 05000356 35.81

BORING CONTRACTOR: Zebra Environmental Services

BORING LOCATION:

GROUNDWATER: —

GROUND ELEVATION:

DATE	TIME	LEVEL	TYPE		CAS.	SAMPLER	CORE	TUBE
				TYPE		Macro-Core (mc)		
				DIA.			2"	
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 9/25/2000

DATE FINISHED: 9/25/2000

DRILLER: Butch Eagan

GEOLOGIST: Scott Fischer

REVIEWED BY:

DEPTH FEET	STRATA	SAMPLE "S" NO.	SAMPLE CORE NO.	SAMPLE BLOWS PER 6"	SAMPLE RECOVERY ROD%	DESCRIPTION COLOR	DESCRIPTION CONSISTENCY HARDNESS	DESCRIPTION MATERIAL DESCRIPTION	DESCRIPTION CLASS USCS	REMARKS	PID
0			mc 1		80%	Alternating Layers of Tan/ orange/ & Black.		- Sand, Silt & Gravel (Apparent Fill) w/ concrete brick, Asphalt & glass Fragments.	GM	Slightly Moist	0.0 ppm
4		NA		NA NA			NA				
5								- Black layer @ 5'-6' bgs.		Dry	
			mc 2		50%						0.0 ppm
8											
10								E.O.B @ ~9' bgs. Refusal @ ~9' bgs.			
15											
20											
25											
30											
35											
40											

COMMENTS: Boring Advanced using a Geoprobe Direct Push unit mounted on an ATV.

PROJECT NO.: 35635.81

BORING NO.: B-3

URS Greiner Woodward Clyde

GEOPROBE LOG

BORING NO.: B-4

PROJECT: State Rd. Former MGP, Lockport

SHEET: 1 OF 1

CLIENT: NYSEG

JOB NO.: 05000356 35.81

BORING CONTRACTOR: Zebra Environmental Services

BORING LOCATION:

GROUNDWATER: —

GROUND ELEVATION:

DATE	TIME	LEVEL	TYPE		CAS.	SAMPLER	CORE	TUBE
				TYPE		Macro	Core (mc)	
				DIA.			2"	
				WT.				
				FALL				

DATE STARTED: 9/25/2000

DATE FINISHED: 9/25/2000

DRILLER: Butch Eagan

GEOLOGIST: Scott Fischer

* POCKET PENETROMETER READING

REVIEWED BY:

DEPTH FEET	STRATA	SAMPLE "S" NO.	SAMPLE CORE NO.	SAMPLE BLOWS PER 6"	SAMPLE RECOVERY ROD%	DESCRIPTION COLOR	DESCRIPTION CONSISTENCY HARDNESS	DESCRIPTION MATERIAL DESCRIPTION	DESCRIPTION CLASS USCS	REMARKS	PID
0			mc 1		100%	Alternate Layers of Brown, Tan, orange & Black Throughout.		- Sand, Silt & Gravel (Apparent Fill material) w/ Asphalt, Ash, Cinders brick, concrete, glass & metal Fragments,	Gm	Slightly moist	0.0 ppm
4										- A Tar-Like Residue was observed @ 2'-2.5' bgs, 5.5'-6' bgs, & 8'-8.5' bgs	
5			mc 2		75%						0.7 ppm
8											
10			mc 3		50%						2.5 ppm
12		NA		NA NA			NA			- Petrol./ Solvent odor from above sections.	
			mc 4		100%			- Clean Fill From 14' to 17' bgs, Sand & Silt, less gravel	Sm		0.0 ppm
15											
16			mc 5		100%			- Fill w/ rubbish as above From 17' bgs to 21' bgs.	Gm		0.0 ppm
20											
			mc 6		80%			- Clean Fill as 14' to 17' above	Sm		0.0 ppm
24											
25								E.O.B. @ 23.5' bgs. Refusal @ 23.5' bgs.			
30											
35											
40											

COMMENTS: Borings Advanced Using a Geoprobe Direct Push unit mounted on an ATV.

PROJECT NO.: 35635.81

BORING NO.: B-4

URS Greiner Woodward Clyde

GEOPROBE LOG

BORING NO.: B-5

PROJECT: State Rd. Former MGP, Lockport
SHEET: 1 OF 1
CLIENT: NYSEG
JOB NO.: 05000356.35.81
BORING CONTRACTOR: Zebra Environmental Services
BORING LOCATION:
GROUNDWATER: —
GROUND ELEVATION:

DATE	TIME	LEVEL	TYPE		CAS.	SAMPLER	CORE	TUBE
				TYPE		Macro	Core(mc)	
				DIA.			2"	
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 9/25/2000
DATE FINISHED: 9/25/2000
DRILLER: Butch Eagan
GEOLOGIST: Scott Fischer
REVIEWED BY:

DEPTH FEET	STRATA	SAMPLE "S" NO.	SAMPLE CORE NO.	SAMPLE BLOWS PER 6"	SAMPLE RECOVERY RQD%	DESCRIPTION COLOR	DESCRIPTION CONSISTENCY HARDNESS	DESCRIPTION MATERIAL DESCRIPTION	DESCRIPTION CLASS USCS	REMARKS	PID
0											
			mc 1		100%	Alternate Layers of Brown, Gray, orange, & Black.		- Sand, Silt & gravel w/ glass, Ash, Cinders, Brick Concretete & asphalt Fragments.	GM	Slightly Moist	0.0 ppm
4											
5		NA	mc 2	NA NA	80%		NA				0.0 ppm
8										- Black, hard Tar-Like seam @ 7' to 7.5' bgs.	
			mc 3		100%						0.0 ppm
10											
12								E.O.B & Refusal @ 12' bgs.			
15											
20											
25											
30											
35											
40											

COMMENTS: Boring Advanced Using a Geoprobe Direct Push Unit Mounted on an ATV.

PROJECT NO.: 35635.71
BORING NO.: B-5

URS Greiner Woodward Clyde

GEOPROBE LOG

BORING NO.: B-WWAC1-3

PROJECT: State Rd. Former MGP, Lock Part. | SHEET: 1 OF 1

CLIENT: NYSEG | JOB NO.: 05000356 35.81

BORING CONTRACTOR: Zebra Environmental Services | BORING LOCATION:

GROUNDWATER: —— | GROUND ELEVATION:

DATE	TIME	LEVEL	TYPE		CAS.	SAMPLER	CORE	TUBE
				TYPE		Macro-Core (mc)		
				DIA.			2"	
				WT.				
				FALL				
				* POCKET PENETROMETER READING				

DATE STARTED: 9/25/2000

DATE FINISHED: 9/25/2000

DRILLER: Butch Eagan

GEOLOGIST: Scott Fischer

REVIEWED BY:

DEPTH FEET	STRATA	SAMPLE "S" NO.	SAMPLE CORE NO.	SAMPLE BLOWS PER 6"	SAMPLE RECOVERY RQD%	DESCRIPTION COLOR	DESCRIPTION CONSISTENCY HARDNESS	DESCRIPTION MATERIAL DESCRIPTION	DESCRIPTION CLASS USCS	REMARKS	PID
0											
		NA	mc 1	NA NA	50%	Med. Brown	NA	- Sandy-Silt, Trace gravel up to 1 inch d., Brick, Asphalt & concrete Fragments.	SM	Slightly Moist.	0.0 ppm
4											
5			mc 2		50%	Orange/ Tan					0.0 ppm
8								E.O.B. @ 8' bgs.			
10											
15											
20											
25											
30											
35											
40											

COMMENTS: Borings Advanced using a Geoprobe Direct Push Unit Mounted on an ATV.
This Log Describes Borings - WWAC1, WWAC2 & WWAC3.

PROJECT NO.: 35635.81

BORING NO.: B-WWAC1-3

URS Greiner Woodward Clyde

GEOPROBE LOG

BORING NO.: W-1, W-2 & W-3

PROJECT: State Rd. Former MGP, Lockport

SHEET: 1 OF 1

CLIENT: NYSEG

JOB NO.: 05000 35635.81

BORING CONTRACTOR: Zebra Environmental Services

BORING LOCATION:

GROUNDWATER: —

DATE	TIME	LEVEL	TYPE

	CAS.	SAMPLER	CORE	TUBE
TYPE	(HP)	Hand-Point Core		
DIA.			1"	
WT.				
FALL				

* POCKET PENETROMETER READING

GROUND ELEVATION:

DATE STARTED: 9/25/2000

DATE FINISHED: 9/25/2000

DRILLER: Butch Eagan

GEOLOGIST: Scott Fischer

REVIEWED BY:

DEPTH FEET	STRATA	SAMPLE "S" NO.	SAMPLE CORE NO.	SAMPLE BLOWS PER 6"	SAMPLE RECOVERY ROD%	DESCRIPTION COLOR	DESCRIPTION CONSISTENCY HARDNESS	DESCRIPTION MATERIAL DESCRIPTION	DESCRIPTION CLASS USCS	REMARKS	PID
0											
2		NA	HP 1	NA NA	50%	Dk. to medium Brown	NA	- Sandy-Silt, Trace gravel w/ Fragments of Brick, Asphalt & Concrete	SM	Slightly Moist	0.0 ppm
4			HP 2		50%						0.0 ppm
5								E.O.B. @ 4' bgs.			
10											
15											
20											
25											
30											
35											
40											

COMMENTS: Borings Advanced using a Manual Hand-Point Sidr. Hammer w/ 1" x 2" macro-core barrel.
This Log Describes Borings - W-1, W-2 & W-3.

PROJECT NO.: 35635.81

BORING NO.: W-1, W-2 & W-3

April 13, 2001

SEVERN TRENT SERVICES

STL Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Tel: 716 691 2600
Fax: 716 691 7991
www.stl-inc.com

Mr. John Ruspantini, CHMM
New York State Electric & Gas Corp.
Corporate Drive, Kirkwood Industrial Park
P.O. Box 5224
Binghamton, New York 13902-5224

Dear Mr. Ruspantini,

We have reviewed the Lockport State Road Former Manufactured Gas Plant Site data in follow-up to our phone conversations of last week. These data are stored under STL Buffalo Project Number NY0A8576/Job Numbers A01-6823, A01-6824, A01-6830 and A01-7000. Our recommendations are presented below.

1) A01-6823 All data is compliant.

2) A01-6824 All data, except the TCLP Pesticides were reported using an unit of measure of MG/L. TCLP Pesticides were reported using an unit of measure of UG/L. Our AIMS system formatted the TCLP results giving the impression that the unit of measure for all analyses was MG/L. We are providing TCLP Organic Summary Forms. These forms provide the organic TCLP constituent regulatory levels and results in MG/L.

3) A01-6830 These samples exhibited a high degree of sample to sample variability. The volume of soil in the sample containers was not homogenous. The laboratory personnel attempted to collect a homogenous volume of sample material from each container.

Regarding the spiked Method Blank, we do not believe that this error effected any of the field samples and we recommend that the reported Acenaphthene and Pyrene results are representative of the associated sample points.

Regarding the re-extractions, these were conducted due to the Method Blank being spiked. If not for that lab error, the original results would have been reported. The original results reflect samples extracted and analyzed within holding time. However, some of the re-extractions (extractions performed outside of holding time/analyses performed within holding time) exhibited specific parameter results that exceeded those reported in the original analyses. While non-compliant, we believe these results provide useable data. Due to the noted sample variability, we recommend the use of any quantified compounds, including J values, in determining the representative level of target compounds in each sample.

SEVERN
TRENT
SERVICES

STL Buffalo

4) A00-7000 Regarding the spiked Method Blank, we do not believe that this error effected any of the field samples and we recommend that the reported Acenaphthene and Pyrene results are representative of the associated sample points.

If not for the spiked Method Blank, the original data set would have been reported as compliant. The sample re-extractions and re-injections confirm the original results. We recommend use of the original results in determining the representative level of target compounds in each sample.

I hope this information will assist you in using our data. I you have any additional questions or require any other assistance, please feel free to call me. We look forward to working with you in the future.

Sincerely,
SEVERN TRENT LABORATORIES, INC

Kenneth P. Kinecki
Project Manager

KPK/kpk

Chain of Custody Record

SEVERN TRENT SERVICES — Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client	Project Manager	Date	Chain of Custody Number
NYSEG	JOHN RUSPANTINI		010216
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page ____ of ____**
KIRKWOOD INDUSTRIAL PARK	(607) 762-8787 (607) 762-8451		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
BINGHAMTON / NY / 13902			
Project Name and Location (State)	**Carrier/Waybill Number**		
LOCKPORT MGP SITE, NY			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: LPH, HSL PAH	BTEX, S	TCL VOA, full TCL list, 624	PCBs, Pesticides	% solids, anion (Cl, SO4, NO3)	Reactivity, Flash Point	TCLP VOA, TCLP SVOA	HSL ME SVOA	TCN (ME)	TAL Metals	Special Instructions/ Conditions of Receipt
3 LSVIWC0502C	9/25/00	1435				X	X								X	X	X	X	X				
D LSVI030502G	9/25/00	1438				X	X						X	X									
3 LSVIWC0503C	9/25/00	1505				X	X								X	X	X	X	X				
D LSVI020503G	9/25/00	1511				X	X						X	X									
3 LSVIWC0504C	9/25/00	1543				X	X								X	X	X	X	X				
D LSVI010504G	9/25/00	1540				X	X						X	X									
3 LSVIWC0507C	9/25/00	1627				X	X								X	X	X	X	X				
D LSVI030507G	9/25/00	1633				X	X						X	X									
D LSVIC1600G	9/25/00	1644				X	X						X	X									
D LSVIC1101203G	9/25/00	1644				X	X						X	X									
D LSVIC1141602G	9/25/00	1658				X	X						X	X									
D LSVI SSC04C	9/26/00	1348				X	X													X	X	X	

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required

☑ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	9/26/00	1630	1. Received By		
2. Relinquished By	9/26/00	1700	2. Received By	9/26/00	1700
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

[redacted]

Chain of Custody Record

SEVERN TRENT SERVICES — Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client	Project Manager	Date	Chain of Custody Number
NYSEG	JOHN RUSINKIEWICZ	9/26/00	010213
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page ____ of ____**
KIRKWOOD INDUSTRIAL PARK	(607) 762-8787 (607) 762-8151		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
BINGHAMTON / NY / 13902			
Project Name and Location (State)	**Carrier/Waybill Number**		
HICKPORT MGP SITE, NY			
Contract/Purchase Order/Quote No.			

FULL TCLP

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	LPAH, HSL PAH	BTEX	Rotenone/Fenpro	PCBs, Fluorene	5 Sonos, cpah	RP, TC Pest, Cl Guaiacol	TCBA, TCLP Mb	HSL MET SEDA	T CN (WC)	TAL Metals
(2) LSVIC26804G	9/26/00	0910				X	X						X	X								
(2) LSVIC21012046	9/26/00	0936				X	X						X	X								
(2) LSVIC21416046	9/26/00	0948				X	X						X	X								
(3) LSVIWC020A1C	9/26/00	1036				X	X								X	X	X	X	X			
(3) LSVIWC2023A1C	9/26/00	1100				X	X								X	X	X	X	X			
(2) LSVIC16801G	9/26/00	1141				X	X						X	X								
(2) LSVIC18101G	9/26/00	1205				X	X						X	X								
(2) LSVIC11416016	9/26/00	1210				X	X						X	X								
(2) LSVIO1401G	9/26/00	1217				X	X						X	X								
(3) LSVIWC0401C	9/26/00	1223				X	X								X	X	X	X	X			
(1) LSVISS01C	9/26/00	1407				X	X													X	X	X
(1) LSVISS03C	9/26/00	1419				X	X													X	X	X

Special Instructions/ Conditions of Receipt

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	9/26/00	1630	1. Received By		
2. Relinquished By	9/26/00	1700	2. Received By	9/26/00	1700
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

060106

Chain of Custody Record

SEVERN TRENT SERVICES — Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client	Project Manager	Date	Chain of Custody Number
NYSEG	JOHN RUSPANTINI	9/26/00	011214
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page ____ of ____**
KIRKWOOD INDUSTRIAL PARK	(607) 762-8787		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
BINGHAMTON / NY / 13902			
Project Name and Location (State)	**Carrier/Waybill Number**		
LOCKPORT MGP SITE, NY			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: TAL Metals	Full TCLP	PCB % solid	Flashpoint	Reactivity	Corrosivity	Special Instructions/ Conditions of Receipt
LSVISSO2C	9/26/00	1433				X	X						X						
LSVIWCBBOSAC	9/26/00	1445				X	X							X	X	X	X	X	
LSVIWSSO6C	9/26/00	1500				X	X							X	X	X	X	X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ____

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1		9/26/00	1630			
2		9/26/00	1700		9/26/00	1700
3						

Comments

COOLS 4/4/1

DISTRIBUTION: WHITE - Stays with the Sample, CANARY - Returned to Client with Report, PINK - Field Copy

000107

Chain of Custody Record

SEVERN TRENT SERVICES — Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: NYSEG	Project Manager: JOHN RUSPANTINI	Date: 9/26/00	Chain of Custody Number: 010204
Address: PO BOX 5224 Corporate Drive	Telephone Number (Area Code)/Fax Number: (607) 762-8787 / FAX 762-8451	Lab Number:	Page ____ of ____
City: Binghamton NY / State: / Zip Code: 13902	Site Contact: FISHER	Lab Contact: Kinecki	
Project Name and Location (State): Lockport State Road, Lockport NY	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: TCL VOA	TCL SVOA	CN-T	TAL Metals	Special Instructions/ Conditions of Receipt
LSVI23B5G	9/26/00	1345				X	X						X				ASP 91-1,-2-4
LSVI78B5G		1355															Need to Added
LSVI1012B5G		1400															LSVI78B5G 9/ 09
LSVI24B4G		1415															
LSVI67B4G		1430															
LSVI89B4G		1435															
LSVI1315B4G		1455															
LSVI1719B4G		1445															
LSVI2123B4G		1800															
LSVI34B1G		0930															
LSVI1011B1G		1017															
LSVI1213B1G		1330															

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For 3 Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	9/26/00	1630	1. Received By		
2. Relinquished By	9/26/00	1702	2. Received By	9/26/00	1702
3. Relinquished By			3. Received By		

Comments: coolers 4/4/4 c

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

SEVERN TRENT SERVICES — Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: NYSEG	Project Manager: JOHN RUSPANTINI	Date: 9/26/00	Chain of Custody Number: 010229
Address: PO BOX 5224 Corporate Drive	Telephone Number (Area Code)/Fax Number: (607) 762-8787	Lab Number:	Page ____ of ____
City: Binghamton / State: NY / Zip Code: 13902	Site Contact:	Lab Contact:	
Project Name and Location (State): Lockport State Road MGP, Lockport NY	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TCL VOA	TCL SVOA	TCL + Total CN	TAL Metals	Full TCLP	Reactivity	Corrosivity	Flashpoint	% Solids	PCBs	Special Instructions/ Conditions of Receipt
LSVI04B26	9/25/00	1341				X	X						X	X	X	X							ASP 91-1, -2, -4
LSVI23B36	9/26/00	1325				X	X						X	X	X	X							↓
LSVI56B36	"	1535				X	X						X	X	X	X							
LSVIWC04WWC	"	1130														X	X	X	X	X	X	X	
LSVIWC0408AC	9/25/00	1430														X	X	X	X	X	X	X	
LSVIWC04WWAC		16:45														X	X	X	X	X	X	X	
LSVIWC48WWAC		16:45														X	X	X	X	X	X	X	
LSVIWC0408BC		1600														X	X	X	X	X	X	X	
LSVIWC4808BC		1610														X	X	X	X	X	X	X	
LSVIWC8208BC	↓															X	X	X	X	X	X	X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For 3 Months (A fee may be assessed if samples are retained longer than 3 months)

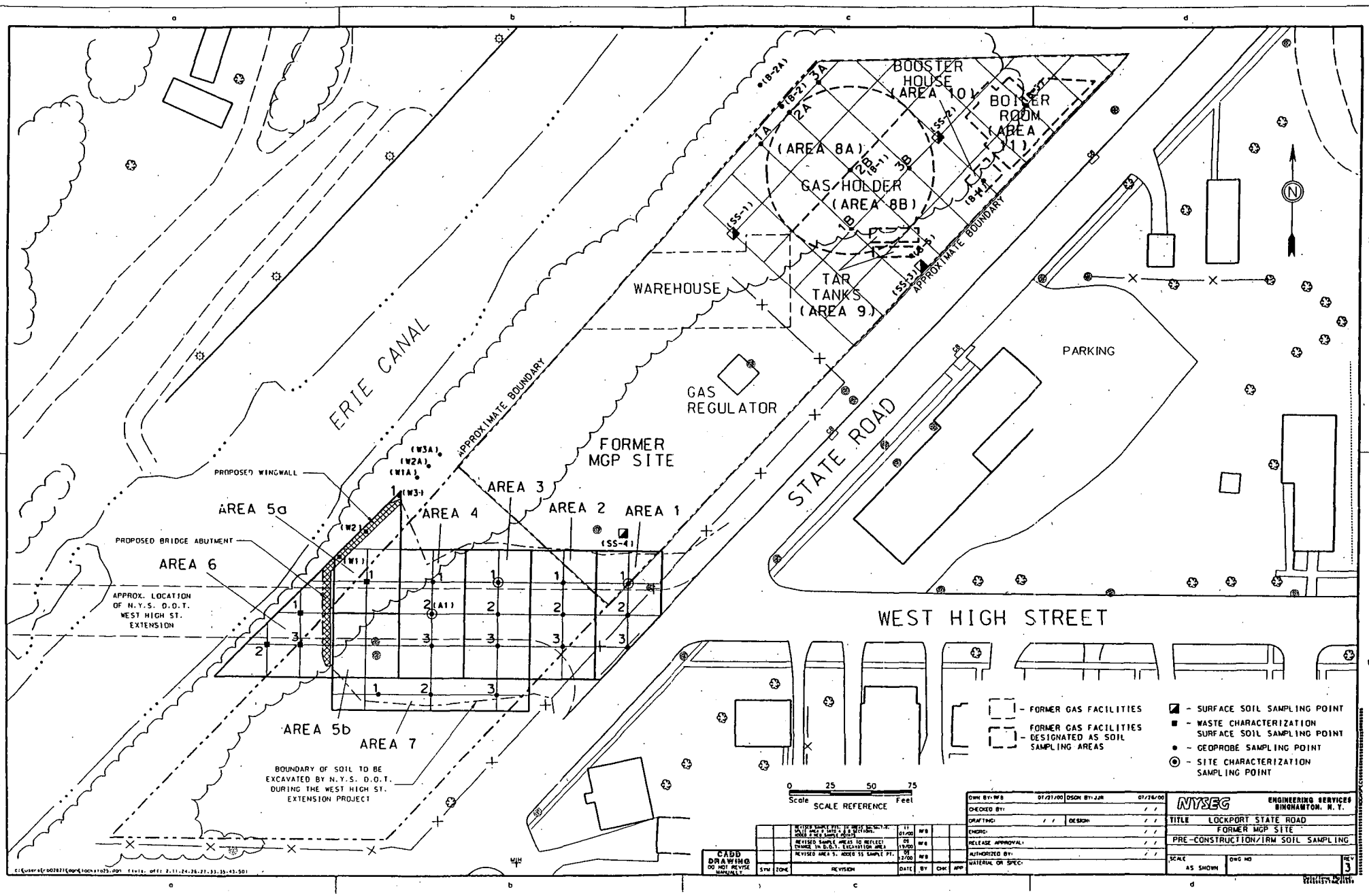
Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other ____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By	9/26/00	1630	1. Received By		
2. Relinquished By	9/26/00	1700	2. Received By	9/26/00	1700
3. Relinquished By			3. Received By		

Comments: coolers 4/4/4°C

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy


BOOSTER HOUSE (AREA 10)
BOILER ROOM (AREA 11)
GAS HOLDER (AREA 8B)
(AREA 8A)
TAR TANKS (AREA 9)
WAREHOUSE
ERIE CANAL
APPROXIMATE BOUNDARY
GAS REGULATOR
FORMER MGP SITE
PROPOSED WINGWALL
PROPOSED BRIDGE ABUTMENT
AREA 1
AREA 2
AREA 3
AREA 4
AREA 5a
AREA 5b
AREA 6
AREA 7
APPROX. LOCATION OF N.Y.S. D.O.T. WEST HIGH ST. EXTENSION
BOUNDARY OF SOIL TO BE EXCAVATED BY N.Y.S. D.O.T. DURING THE WEST HIGH ST. EXTENSION PROJECT
STATE ROAD
PARKING
WEST HIGH STREET
- FORMER GAS FACILITIES
- FORMER GAS FACILITIES DESIGNATED AS SOIL SAMPLING AREAS
- SURFACE SOIL SAMPLING POINT
- WASTE CHARACTERIZATION SURFACE SOIL SAMPLING POINT
- GEOPROBE SAMPLING POINT
- SITE CHARACTERIZATION SAMPLING POINT
SCALE REFERENCE
Scale 0 25 50 75 Feet
CADD DRAWING DO NOT REVISE MANUALLY
NYSEG
ENGINEERING SERVICES BINGHAMTON, N. Y.
TITLE LOCKPORT STATE ROAD
FORMER MGP SITE
PRE-CONSTRUCTION/IRM SOIL SAMPLING
SCALE AS SHOWN
REV 3

Analytical Report for Table 1

SEVERN TRENT SERVICES

STL Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Tel: 716 691 2600
Fax: 716 691 7991
www.stl-inc.com

November 6, 2000

Mr. John Ruspantini
NYSEG - Corporate Drive
Kirkwood Industrial Park
Binghamton, NY 13902-5224

RE: Analytical Results

Dear Mr. Ruspantini:

Please find enclosed analytical results concerning the samples recently submitted by your firm. The pertinent information regarding these analyses is listed below:

Project:	NYSEG - Lockport State Road Former MGP
Matrix:	Soil
Samples Received:	09/26/00
Sample Dates:	09/25,26/00

If you have any questions concerning this data, please contact me at (716) 691-2600 and refer to the I.D. number listed below. It has been our pleasure to provide New York State Electric & Gas with environmental testing services. We look forward to serving you in the future.

Sincerely,

STL Buffalo

Kenneth P. Kinecki
Program Manager

KPK/ekn
Enclosure

I.D.#A00-6830
#NY0A8576

This report contains 35 pages which are individually numbered

SEVERN TRENT SERVICES
STL Buffalo

ANALYTICAL RESULTS

Prepared for:

New York State Electric & Gas
Kirkwood Industrial Park
Binghamton, NY 13902-5224

Prepared by:

STL Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228-2298

METHODOLOGY

The specific methodology employed in obtaining the enclosed analytical results is indicated on the specific data tables. The method number presented refers to the following U.S. Environmental Protection Agency reference:

- "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW-846), Third Edition, Update III, December 1996, United States Environmental Protection Agency Office of Solid Waste.

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed data has been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

METHOD 8260

No deviations from protocol that affected the acceptability of the analytical results were encountered during the analytical procedures.

METHOD 8270

All samples exhibited a high degree of sample to sample variability. The collected sample volumes are not homogenous.

The Method Blank (A0B0779202) was inadvertently spiked and exhibited results for Acenaphthene and Pyrene. All associated results will be flagged with a "B" qualifier. Therefore, all samples were re-extracted outside of holding time and reanalyzed within analytical holding time.

Sample LSVI010401G was initially analyzed at a dilution factor of 5 due to viscosity. All surrogates were diluted out. The sample was re-extracted outside of holding time and reanalyzed within holding time at a dilution factor of 5 and exhibited similar results. Both sets of data are reported.

METHOD 8270 CON'T

Sample LSVI010504G was initially analyzed at a dilution factor of 20 due to viscosity. The sample was re-extracted outside of holding time and reanalyzed within holding time at a dilution factor of 20 and exhibited similar results. All surrogates were diluted out of LSVI010504G RE. Both sets of data are reported.

Sample LSVI020503G was initially analyzed at a dilution factor of 20 due to viscosity. The sample was re-extracted outside of holding time and reanalyzed within holding time at a dilution factor of 10 and exhibited similar results. All surrogates were diluted out of LSVI020503G RE. Both sets of data are reported.

Sample LSVI030502G was initially analyzed at a dilution factor of 20 due to viscosity. All surrogates were diluted out. The sample was re-extracted outside of holding time and reanalyzed within holding time at a dilution factor of 40 and exhibited similar results. Both sets of data are reported.

Sample LSVI030507G was initially analyzed at a dilution factor of 20 due to viscosity. The sample was re-extracted outside of holding time and reanalyzed within holding time at a dilution factor of 10 and exhibited similar results. All surrogates were diluted out of LSVI030507G RE. Both sets of data are reported.

Samples LSVI030507G MS and LSVI030507G SD were analyzed at a dilution factor of 20 due to viscosity and exhibited spike recovery results above quality control limits for Acenaphthene and Pyrene. However, the Matrix Spike Blank (A0B0817701) was compliant.

The Matrix Spike Blank (A0B0779201) exhibited spike recovery results below quality control limits for Acenaphthene and Pyrene. The sample was reanalyzed (A0B0817701) and was compliant.

No other deviations from protocol that affected the acceptability of the analytical results were encountered during the analytical procedures.

WET CHEMISTRY

No deviations from protocol that affected the acceptability of the analytical results were encountered during the analytical procedures.

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
1	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Sample Data Package

000006

Sample ID: LSVI010401G RE
Sample ID: A0683014RE
Date Collected: 09/26/2000
Time Collected: 12:17

Date Received: 09/26/2000
Project No: NYOA8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
NYSEG-SW8463/8270 - PAH'S							
2-Methylnaphthalene	ND		1900	UG/KG	8270	10/19/2000 11:59	JH
Acenaphthene	ND		1700	UG/KG	8270	10/19/2000 11:59	JH
Acenaphthylene	ND		1900	UG/KG	8270	10/19/2000 11:59	JH
Anthracene	ND		1700	UG/KG	8270	10/19/2000 11:59	JH
Benzo(a)anthracene	ND		1900	UG/KG	8270	10/19/2000 11:59	JH
Benzo(a)pyrene	1900		1900	UG/KG	8270	10/19/2000 11:59	JH
Benzo(b)fluoranthene	2700		1900	UG/KG	8270	10/19/2000 11:59	JH
Benzo(ghi)perylene	ND		1900	UG/KG	8270	10/19/2000 11:59	JH
Benzo(k)fluoranthene	990	J	1900	UG/KG	8270	10/19/2000 11:59	JH
Chrysene	ND		1900	UG/KG	8270	10/19/2000 11:59	JH
Dibenzo(a,h)anthracene	ND		1900	UG/KG	8270	10/19/2000 11:59	JH
Dibenzofuran	ND		1900	UG/KG	8270	10/19/2000 11:59	JH
Fluoranthene	5400		1900	UG/KG	8270	10/19/2000 11:59	JH
Fluorene	ND		1700	UG/KG	8270	10/19/2000 11:59	JH
Indeno(1,2,3-cd)pyrene	ND		1900	UG/KG	8270	10/19/2000 11:59	JH
Naphthalene	ND		1500	UG/KG	8270	10/19/2000 11:59	JH
Phenanthrene	4800		1900	UG/KG	8270	10/19/2000 11:59	JH
Pyrene	4600		1700	UG/KG	8270	10/19/2000 11:59	JH

PPM

Total PAH 19,50

Total PAH 4,699

Sample ID: LSVI030502G
Lab Sample ID: A0683001
Date Collected: 09/25/2000
Time Collected: 14:38

Date Received: 09/26/2000
Project No: NY0A8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
NYSEG- SW8463/8260-BTEX - SOIL							
Benzene	ND		5.0	UG/KG	8260	10/06/2000 17:24	CAS
Ethylbenzene	ND		5.0	UG/KG	8260	10/06/2000 17:24	CAS
Toluene	ND		5.0	UG/KG	8260	10/06/2000 17:24	CAS
Total Xylenes	ND		15	UG/KG	8260	10/06/2000 17:24	CAS
NYSEG-SW8463/8270 - PAH'S							
2-Methylnaphthalene	ND		15000	UG/KG	8270	10/13/2000 15:39	JH
Acenaphthene	ND		14000	UG/KG	8270	10/13/2000 15:39	JH
Acenaphthylene	ND		15000	UG/KG	8270	10/13/2000 15:39	JH
Anthracene	5800	J	14000	UG/KG	8270	10/13/2000 15:39	JH
Benzo(a)anthracene	ND		15000	UG/KG	8270	10/13/2000 15:39	JH
Benzo(a)pyrene	ND		15000	UG/KG	8270	10/13/2000 15:39	JH
Benzo(b)fluoranthene	14000	J	15000	UG/KG	8270	10/13/2000 15:39	JH
Benzo(ghi)perylene	ND		15000	UG/KG	8270	10/13/2000 15:39	JH
Benzo(k)fluoranthene	5700	J	15000	UG/KG	8270	10/13/2000 15:39	JH
Chrysene	ND		15000	UG/KG	8270	10/13/2000 15:39	JH
Dibenzo(a,h)anthracene	ND		15000	UG/KG	8270	10/13/2000 15:39	JH
Dibenzofuran	ND		15000	UG/KG	8270	10/13/2000 15:39	JH
Fluoranthene	ND		15000	UG/KG	8270	10/13/2000 15:39	JH
Fluorene	ND		14000	UG/KG	8270	10/13/2000 15:39	JH
Indeno(1,2,3-cd)pyrene	ND		15000	UG/KG	8270	10/13/2000 15:39	JH
Naphthalene	ND		12000	UG/KG	8270	10/13/2000 15:39	JH
Phenanthrene	ND		15000	UG/KG	8270	10/13/2000 15:39	JH
Pyrene	ND		14000	UG/KG	8270	10/13/2000 15:39	JH
Wet Chemistry Analysis							
Leachable pH	7.1		0	S.U.	9045	10/09/2000	RM

PPM

Total PAH 25.50

Total cPAH 19.70

Sample ID: LSVI030502G RE
Sample ID: A0683001RE
Date Collected: 09/25/2000
Time Collected: 14:38

Date Received: 09/26/2000
Project No: NYOA8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
NYSEG-SW8463/8270 - PAH'S							
2-Methylnaphthalene	ND		15000	UG/KG	8270	10/18/2000 19:38	JH
Acenaphthene	ND		14000	UG/KG	8270	10/18/2000 19:38	JH
Acenaphthylene	ND		15000	UG/KG	8270	10/18/2000 19:38	JH
Anthracene	ND		14000	UG/KG	8270	10/18/2000 19:38	JH
Benzo(a)anthracene	ND		15000	UG/KG	8270	10/18/2000 19:38	JH
Benzo(a)pyrene	ND		15000	UG/KG	8270	10/18/2000 19:38	JH
Benzo(b)fluoranthene	ND		15000	UG/KG	8270	10/18/2000 19:38	JH
Benzo(ghi)perylene	ND		15000	UG/KG	8270	10/18/2000 19:38	JH
Benzo(k)fluoranthene	ND		15000	UG/KG	8270	10/18/2000 19:38	JH
Chrysene	ND		15000	UG/KG	8270	10/18/2000 19:38	JH
Dibenzo(a,h)anthracene	ND		15000	UG/KG	8270	10/18/2000 19:38	JH
Dibenzofuran	ND		15000	UG/KG	8270	10/18/2000 19:38	JH
Fluoranthene	ND		15000	UG/KG	8270	10/18/2000 19:38	JH
Fluorene	ND		14000	UG/KG	8270	10/18/2000 19:38	JH
Indeno(1,2,3-cd)pyrene	ND		15000	UG/KG	8270	10/18/2000 19:38	JH
Naphthalene	ND		12000	UG/KG	8270	10/18/2000 19:38	JH
Phenanthrene	ND		15000	UG/KG	8270	10/18/2000 19:38	JH
Pyrene	ND		14000	UG/KG	8270	10/18/2000 19:38	JH

PPM

Total PAH <15.00

Total cPAH <15.00

Sample ID: LSVI020503G
Lab Sample ID: A0683002
Date Collected: 09/25/2000
Time Collected: 15:11

Date Received: 09/26/2000
Project No: NY0A8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analys
NYSEG- SW8463/8260-BTEX - SOIL							
Benzene	ND		5.0	UG/KG	8260	10/06/2000 17:56	CAS
Ethylbenzene	ND		5.0	UG/KG	8260	10/06/2000 17:56	CAS
Toluene	ND		5.0	UG/KG	8260	10/06/2000 17:56	CAS
Total Xylenes	ND		15	UG/KG	8260	10/06/2000 17:56	CAS
NYSEG-SW8463/8270 - PAH'S							
2-Methylnaphthalene	ND		1500	UG/KG	8270	10/13/2000 16:09	JH
Acenaphthene	ND		1400	UG/KG	8270	10/13/2000 16:09	JH
Acenaphthylene	ND		1500	UG/KG	8270	10/13/2000 16:09	JH
Anthracene	960	J	1400	UG/KG	8270	10/13/2000 16:09	JH
Benzo(a)anthracene	3300		1500	UG/KG	8270	10/13/2000 16:09	JH
Benzo(a)pyrene	ND		1500	UG/KG	8270	10/13/2000 16:09	JH
Benzo(b)fluoranthene	3800		1500	UG/KG	8270	10/13/2000 16:09	JH
Benzo(ghi)perylene	ND		1500	UG/KG	8270	10/13/2000 16:09	JH
Benzo(k)fluoranthene	1600		1500	UG/KG	8270	10/13/2000 16:09	JH
Chrysene	3200		1500	UG/KG	8270	10/13/2000 16:09	JH
Dibenzo(a,h)anthracene	ND		1500	UG/KG	8270	10/13/2000 16:09	JH
Dibenzofuran	ND		1500	UG/KG	8270	10/13/2000 16:09	JH
Fluoranthene	7300		1500	UG/KG	8270	10/13/2000 16:09	JH
Fluorene	ND		1400	UG/KG	8270	10/13/2000 16:09	JH
Indeno(1,2,3-cd)pyrene	ND		1500	UG/KG	8270	10/13/2000 16:09	JH
Naphthalene	ND		1200	UG/KG	8270	10/13/2000 16:09	JH
Phenanthrene	5700		1500	UG/KG	8270	10/13/2000 16:09	JH
Pyrene	6600	B	1400	UG/KG	8270	10/13/2000 16:09	JH
Wet Chemistry Analysis							
Leachable pH	7.7		0	S.U.	9045	10/09/2000	RM

ppm

Total PAH 32.46

Total cPAH 11.90

Sample ID: LSVI020503G RE
Sample ID: A0683002RE
Date Collected: 09/25/2000
Time Collected: 15:11

Date Received: 09/26/2000
Project No: NY0A8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
NYSEG-SW8463/8270 - PAH'S							
2-Methylnaphthalene	ND		3800	UG/KG	8270	10/18/2000 20:07	JH
Acenaphthene	ND		3500	UG/KG	8270	10/18/2000 20:07	JH
Acenaphthylene	ND		3800	UG/KG	8270	10/18/2000 20:07	JH
Anthracene	3200	J	3500	UG/KG	8270	10/18/2000 20:07	JH
Benzo(a)anthracene	19000		3800	UG/KG	8270	10/18/2000 20:07	JH
Benzo(a)pyrene	16000		3800	UG/KG	8270	10/18/2000 20:07	JH
Benzo(b)fluoranthene	21000		3800	UG/KG	8270	10/18/2000 20:07	JH
Benzo(ghi)perylene	ND		3800	UG/KG	8270	10/18/2000 20:07	JH
Benzo(k)fluoranthene	12000		3800	UG/KG	8270	10/18/2000 20:07	JH
Chrysene	17000		3800	UG/KG	8270	10/18/2000 20:07	JH
Dibenzo(a,h)anthracene	ND		3800	UG/KG	8270	10/18/2000 20:07	JH
Dibenzofuran	ND		3800	UG/KG	8270	10/18/2000 20:07	JH
Fluoranthene	20000		3800	UG/KG	8270	10/18/2000 20:07	JH
Fluorene	ND		3500	UG/KG	8270	10/18/2000 20:07	JH
Indeno(1,2,3-cd)pyrene	ND		3800	UG/KG	8270	10/18/2000 20:07	JH
Naphthalene	ND		3100	UG/KG	8270	10/18/2000 20:07	JH
Phenanthrene	10000		3800	UG/KG	8270	10/18/2000 20:07	JH
Pyrene	16000		3500	UG/KG	8270	10/18/2000 20:07	JH

	PPM
Total PAH	134.2
Total cPAH	85.00

000011

Sample ID: LSV1010504G
Lab Sample ID: A0683003
Date Collected: 09/25/2000
Time Collected: 15:40

Date Received: 09/26/2000
Project No: NY0A8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analys
NYSEG- SW8463/8260-BTEX - SOIL							
Benzene	ND		5.0	UG/KG	8260	10/06/2000 18:30	CAS
Ethylbenzene	ND		5.0	UG/KG	8260	10/06/2000 18:30	CAS
Toluene	ND		5.0	UG/KG	8260	10/06/2000 18:30	CAS
Total Xylenes	ND		15	UG/KG	8260	10/06/2000 18:30	CAS
NYSEG-SW8463/8270 - PAH'S							
2-Methylnaphthalene	ND		1500	UG/KG	8270	10/13/2000 16:39	JH
Acenaphthene	ND		1300	UG/KG	8270	10/13/2000 16:39	JH
Acenaphthylene	ND		1500	UG/KG	8270	10/13/2000 16:39	JH
Anthracene	5400		1300	UG/KG	8270	10/13/2000 16:39	JH
Benzo(a)anthracene	2300		1500	UG/KG	8270	10/13/2000 16:39	JH
Benzo(a)pyrene	ND		1500	UG/KG	8270	10/13/2000 16:39	JH
Benzo(b)fluoranthene	3500		1500	UG/KG	8270	10/13/2000 16:39	JH
Benzo(ghi)perylene	ND		1500	UG/KG	8270	10/13/2000 16:39	JH
Benzo(k)fluoranthene	1400	J	1500	UG/KG	8270	10/13/2000 16:39	JH
Chrysene	3000		1500	UG/KG	8270	10/13/2000 16:39	JH
Dibenzo(a,h)anthracene	ND		1500	UG/KG	8270	10/13/2000 16:39	JH
Dibenzofuran	ND		1500	UG/KG	8270	10/13/2000 16:39	JH
Fluoranthene	6900		1500	UG/KG	8270	10/13/2000 16:39	JH
Fluorene	ND		1300	UG/KG	8270	10/13/2000 16:39	JH
Indeno(1,2,3-cd)pyrene	ND		1500	UG/KG	8270	10/13/2000 16:39	JH
Naphthalene	ND		1200	UG/KG	8270	10/13/2000 16:39	JH
Phenanthrene	5600		1500	UG/KG	8270	10/13/2000 16:39	JH
Pyrene	6400	B	1300	UG/KG	8270	10/13/2000 16:39	JH
Wet Chemistry Analysis							
Leachable pH	7.8		0	S.U.	9045	10/09/2000	RM

PPM

Total PAH 34.50

Total cPAH 10.20

Sample ID: LSVI010504G
Sample ID: A0683003RR
Date Collected: 09/25/2000
Time Collected: 15:40

Date Received: 09/26/2000
Project No: NYOA8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
NYSEG-SW8463/8270 - PAH'S							
2-Methylnaphthalene	ND		3700	UG/KG	8270	10/25/2000 20:03	JH
Acenaphthene	ND		3300	UG/KG	8270	10/25/2000 20:03	JH
Acenaphthylene	ND		3700	UG/KG	8270	10/25/2000 20:03	JH
Anthracene	ND		3300	UG/KG	8270	10/25/2000 20:03	JH
Benzo(a)anthracene	ND		3700	UG/KG	8270	10/25/2000 20:03	JH
Benzo(a)pyrene	ND		3700	UG/KG	8270	10/25/2000 20:03	JH
Benzo(b)fluoranthene	ND		3700	UG/KG	8270	10/25/2000 20:03	JH
Benzo(ghi)perylene	ND		3700	UG/KG	8270	10/25/2000 20:03	JH
Benzo(k)fluoranthene	ND		3700	UG/KG	8270	10/25/2000 20:03	JH
Chrysene	ND		3700	UG/KG	8270	10/25/2000 20:03	JH
Dibenzo(a,h)anthracene	ND		3700	UG/KG	8270	10/25/2000 20:03	JH
Dibenzofuran	ND		3700	UG/KG	8270	10/25/2000 20:03	JH
Fluoranthene	ND		3700	UG/KG	8270	10/25/2000 20:03	JH
Fluorene	ND		3300	UG/KG	8270	10/25/2000 20:03	JH
Indeno(1,2,3-cd)pyrene	ND		3700	UG/KG	8270	10/25/2000 20:03	JH
Naphthalene	ND		2900	UG/KG	8270	10/25/2000 20:03	JH
Phenanthrene	ND		3700	UG/KG	8270	10/25/2000 20:03	JH
Pyrene	ND		3300	UG/KG	8270	10/25/2000 20:03	JH

PPM

Total PAH <3,700

Total cPAH <3,700

000013

Sample ID: LSVI030507G
Lab Sample ID: A0683004
Date Collected: 09/25/2000
Time Collected: 10:33

Date Received: 09/26/2000
Project No: NY0A8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
NYSEG- SW8463/8260-BTEX - SOIL							
Benzene	ND		5.0	UG/KG	8260	10/06/2000 19:02	CAS
Ethylbenzene	ND		5.0	UG/KG	8260	10/06/2000 19:02	CAS
Toluene	ND		5.0	UG/KG	8260	10/06/2000 19:02	CAS
Total Xylenes	ND		15	UG/KG	8260	10/06/2000 19:02	CAS
NYSEG-SW8463/8270 - PAH'S							
2-Methylnaphthalene	ND		1600	UG/KG	8270	10/13/2000 17:09	JH
Acenaphthene	1600	B	1400	UG/KG	8270	10/13/2000 17:09	JH
Acenaphthylene	ND		1600	UG/KG	8270	10/13/2000 17:09	JH
Anthracene	4400		1400	UG/KG	8270	10/13/2000 17:09	JH
Benzo(a)anthracene	13000		1600	UG/KG	8270	10/13/2000 17:09	JH
Benzo(a)pyrene	13000		1600	UG/KG	8270	10/13/2000 17:09	JH
Benzo(b)fluoranthene	20000		1600	UG/KG	8270	10/13/2000 17:09	JH
Benzo(ghi)perylene	4000		1600	UG/KG	8270	10/13/2000 17:09	JH
Benzo(k)fluoranthene	7600		1600	UG/KG	8270	10/13/2000 17:09	JH
Chrysene	14000		1600	UG/KG	8270	10/13/2000 17:09	JH
Dibenzo(a,h)anthracene	ND		1600	UG/KG	8270	10/13/2000 17:09	JH
Dibenzofuran	ND		1600	UG/KG	8270	10/13/2000 17:09	JH
Fluoranthene	24000		1600	UG/KG	8270	10/13/2000 17:09	JH
Fluorene	ND		1400	UG/KG	8270	10/13/2000 17:09	JH
Indeno(1,2,3-cd)pyrene	4100		1600	UG/KG	8270	10/13/2000 17:09	JH
Naphthalene	1100	J	1200	UG/KG	8270	10/13/2000 17:09	JH
Phenanthrene	18000		1600	UG/KG	8270	10/13/2000 17:09	JH
Pyrene	24000	B	1400	UG/KG	8270	10/13/2000 17:09	JH
Wet Chemistry Analysis							
Leachable pH	9.0		0	S.U.	9045	10/09/2000	RM

PPM

Total PAH 148.8

Total cPAH 71.70

000014

Sample ID: LSVI030507G RE
Sample ID: A0683004RE
Date Collected: 09/25/2000
Time Collected: 10:33

Date Received: 09/26/2000
Project No: NYOA8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
NYSEG-SW8463/8270 - PAH'S							
2-Methylnaphthalene	ND		7800	UG/KG	8270	10/18/2000 21:05	JH
Acenaphthene	ND		7000	UG/KG	8270	10/18/2000 21:05	JH
Acenaphthylene	ND		7800	UG/KG	8270	10/18/2000 21:05	JH
Anthracene	9200		7000	UG/KG	8270	10/18/2000 21:05	JH
Benzo(a)anthracene	ND		7800	UG/KG	8270	10/18/2000 21:05	JH
Benzo(a)pyrene	4000	J	7800	UG/KG	8270	10/18/2000 21:05	JH
Benzo(b)fluoranthene	7900		7800	UG/KG	8270	10/18/2000 21:05	JH
Benzo(ghi)perylene	ND		7800	UG/KG	8270	10/18/2000 21:05	JH
Benzo(k)fluoranthene	3000	J	7800	UG/KG	8270	10/18/2000 21:05	JH
Chrysene	ND		7800	UG/KG	8270	10/18/2000 21:05	JH
Dibenzo(a,h)anthracene	ND		7800	UG/KG	8270	10/18/2000 21:05	JH
Dibenzofuran	ND		7800	UG/KG	8270	10/18/2000 21:05	JH
Fluoranthene	11000		7800	UG/KG	8270	10/18/2000 21:05	JH
Fluorene	ND		7000	UG/KG	8270	10/18/2000 21:05	JH
Indeno(1,2,3-cd)pyrene	ND		7800	UG/KG	8270	10/18/2000 21:05	JH
Naphthalene	ND		6200	UG/KG	8270	10/18/2000 21:05	JH
Phenanthrene	9600		7800	UG/KG	8270	10/18/2000 21:05	JH
Pyrene	9400		7000	UG/KG	8270	10/18/2000 21:05	JH

PPM

Total PAH 54.10

Total cPAH 14.90

Analytical Report for Table 2

SEVERN TRENT SERVICES

STL Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Tel: 716 691 2600
Fax: 716 691 7991
www.stl-inc.com

November 2, 2000

Mr. John Ruspantini
NYSEG - Corporate Drive
Kirkwood Industrial Park
Binghamton, NY 13902-5224

RE: Analytical Results

Dear Mr. Ruspantini:

Please find enclosed analytical results concerning the samples recently submitted by your firm. The pertinent information regarding these analyses is listed below:

Project:	NYSEG - Lockport State Road Former MGP
Matrix:	Soil
Samples Received:	09/26/00
Sample Dates:	09/25,26/00

If you have any questions concerning this data, please contact me at (716) 691-2600 and refer to the I.D. number listed below. It has been our pleasure to provide New York State Electric & Gas with environmental testing services. We look forward to serving you in the future.

Sincerely,

STL Buffalo

Kenneth P. Kinecki
Program Manager

Susan L. Tinsmith
Laboratory Manager

KPK/SLT/ekn
Enclosure

I.D.#A00-7000
#NY0A8576

This report contains 6553 pages which are individually numbered

SAMPLE DATA SUMMARY PACKAGE

SEVERN TRENT SERVICES
STL Buffalo

SDG NARRATIVE

Laboratory Name: STL Buffalo

Laboratory Code: STL Buffalo

Contract Number: NY00-167

SDG Number: LVL4

Sample Identifications:
LSVIC1101203G
LSVIC1141601G
LSVIC1141603G
LSVIC16801G
LSVIC16803G
LSVIC181001G
LSVIC2101204G
LSVIC2141604G
LSVIC26804G

METHODOLOGY

The specific methodology employed in obtaining the enclosed analytical results is indicated on the specific data tables. The method number presented refers to the following U.S. Environmental Protection Agency reference:

- "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW-846), Third Edition, Update III, December 1996, United States Environmental Protection Agency Office of Solid Waste.

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed data has been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

VOLATILE DATA

No deviations that affected the acceptability of the analytical results were encountered during the analytical procedure.

SEVERN TRENT SERVICES

STL Buffalo

SEMIVOLATILE DATA

SBLK60 was inadvertently spiked with the spiking compounds Acenaphthene and Pyrene. All subsequent results will be flagged with a "B" qualifier. This deviation requires re-extraction of all samples. All samples were re-extracted outside of extraction holding time, with the exception of samples LSVIC1101203G, LSVIC16801G, and LSVIC181001G. Both sets of data are reported.

Analysis of samples LSVIC1101203G RE, LSVIC16801G RE, and LSVIC181001G RE exhibited dissimilar results from their base sample. Therefore, the results of these re-extracted samples were not reported. These differing results are attributed to the lack of homogeneity of the samples in question. As a confirmation, samples LSVIC1101203G, LSVIC16801G, and LSVIC181001G were re-injected. These samples and their associated re-injection exhibited similar results. Samples LSVIC1101203G; LSVIC1101203G RI, LSVIC16801G, LSVIC16801G RI, LSVIC181001G, and LSVIC181001G RI were reported.

Due to sample thickness during organic preparation the following samples were concentrated to a final volume of 10 milliliters: LSVIC1101203G, LSVIC1101203G RI, LSVIC16801G, LSVIC16801G RI, LSVIC16803G, LSVIC16803G RE, LSVIC181001G, and LSVIC181001G RI.

Sample LSVIC1101203G was initially analyzed at a dilution factor 20 due to sample viscosity, and reanalyzed at a dilution factor of 20. All surrogates were diluted out of both samples. Both sets of data are reported.

Sample LSVIC1141603G was initially analyzed at a dilution factor 20 due to sample viscosity and all surrogates were diluted out. The sample was reanalyzed at a dilution factor of 20 and exhibited surrogate recovery results of zero percent for Nitrobenzene-D5. A Both sets of data are reported.

Sample LSVIC16801G was initially analyzed at a dilution factor 10 due to sample viscosity, and reanalyzed at a dilution factor of 10. All surrogates were diluted out of both samples. Both sets of data are reported.

Sample LSVIC16803G was initially analyzed at a dilution factor 20 due to sample viscosity, and reanalyzed at a dilution factor 20. All surrogates were diluted out of both samples. Both sets of data are reported.

Sample LSVIC181001G was initially analyzed at a dilution factor 10 due to sample viscosity, and reanalyzed at a dilution factor 10. All surrogates were diluted out of both samples. Both sets of data are reported.

Sample LSVIC2141604G was initially analyzed at a dilution factor 5.0 due to sample viscosity, and reanalyzed at a dilution factor of 5. Both sets of data are reported.

The initial calibration standard curve analyzed on 10/18/2000 exhibits the %RSD of surrogate Nitrobenzene-D5 as greater than 15%. However, the mean RSD of all compounds is 6.7%.

Sample LSVIC1141603G RE exhibited internal standard recovery results below quality control limits for Perylene-D12. However, the original sample was compliant. No corrective action was required.

SEMIVOLATILES DATA CON'T

Sample LSVIC16803G RE exhibited internal standard recovery results below quality control limits for Perylene-D12. However, the original sample was compliant. No corrective action was required.

Sample LSVIC2101204G RE exhibited internal standard recovery results below quality control limits for Perylene-D12. However, the original sample was compliant. No corrective action was required.

Sample LSVIC2141604G RE exhibited internal standard recovery results below quality control limits for Perylene-D12. However, the original sample was compliant. No corrective action was required.

Sample LSVIC26804G RE exhibited internal standard recovery results below quality control limits for Perylene-D12. However, the original sample was compliant. No corrective action was required.

WET CHEMISTRY

No deviations that affected the acceptability of the analytical results were encountered during the analytical procedure.

"I certify that this data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Director or her designee, as verified by the following signature."

Susan L. Tinsmith
Laboratory Director

11/3/00
Date

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
1	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8260 - BTEX
ANALYSIS DATA SHEET

000006

Client No.

LSVIC1101203G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683006

Sample wt/vol: 5.15 (g/mL) G Lab File ID: H2822.RR

Level: (low/med) LOW Date Samp/Recv: 09/25/2000 09/26/2000

% Moisture: not dec. 18.6 Heated Purge: Y Date Analyzed: 10/06/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
108-88-3	Toluene	5.0	U
1330-20-7	Total Xylenes	15	U

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8260 - BTEX
ANALYSIS DATA SHEET

000007

Client No.:

LSVIC1141601G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683013

Sample wt/vol: 5.05 (g/mL) G Lab File ID: H2829.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 15.4 Heated Purge: Y Date Analyzed: 10/06/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
108-88-3	Toluene	5.0	U
1330-20-7	Total Xylenes	15	U

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8260 - BTEX
ANALYSIS DATA SHEET

000008

Client No.

LSVIC1141603G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683007

Sample wt/vol: 5.13 (g/mL) G Lab File ID: H2823.RR

Level: (low/med) LOW Date Samp/Recv: 09/25/2000 09/26/2000

% Moisture: not dec. 11.8 Heated Purge: Y Date Analyzed: 10/06/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
108-88-3	Toluene	5.0	U
1330-20-7	Total Xylenes	15	U

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8260 - BTEX
ANALYSIS DATA SHEET

000009

Client No.

LSVIC16801G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683011

Sample wt/vol: 5.18 (g/mL) G Lab File ID: H2827.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 22.8 Heated Purge: Y Date Analyzed: 10/06/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
108-88-3	Toluene	5.0	U
1330-20-7	Total Xylenes	15	U

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8260 - BTEX
ANALYSIS DATA SHEET

000010

Client No.

LSVIC16803G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683005

Sample wt/vol: 5.07 (g/mL) G Lab File ID: H2821.RR

Level: (low/med) LOW Date Samp/Recv: 09/25/2000 09/26/2000

% Moisture: not dec. 10.0 Heated Purge: Y Date Analyzed: 10/06/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
108-88-3	Toluene	5.0	U
1330-20-7	Total Xylenes	15	U

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8260 - BTEX
ANALYSIS DATA SHEET

000011

Client No.

LSVIC181001G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683012

Sample wt/vol: 5.12 (g/mL) G Lab File ID: H2828.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 18.1 Heated Purge: Y Date Analyzed: 10/06/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
108-88-3	Toluene	5.0	U
1330-20-7	Total Xylenes	15	U

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8260 - BTEX
ANALYSIS DATA SHEET

000012

Client No.

LSVIC2101204G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683009

Sample wt/vol: 5.13 (g/mL) G Lab File ID: H2825.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 6.1 Heated Purge: Y Date Analyzed: 10/06/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
108-88-3	Toluene	5.0	U
1330-20-7	Total Xylenes	15	U

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8260 - BTEX
ANALYSIS DATA SHEET

000013

Client No.: LSVIC2141604G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683010

Sample wt/vol: 5.25 (g/mL) G Lab File ID: H2826.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 5.8 Heated Purge: Y Date Analyzed: 10/06/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
108-88-3	Toluene	5.0	U
1330-20-7	Total Xylenes	15	U

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8260 - BTEX
ANALYSIS DATA SHEET

000014
Client No.

LSVIC26804G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683008

Sample wt/vol: 5.10 (g/mL) G Lab File ID: H2824.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 5.9 Heated Purge: Y Date Analyzed: 10/06/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
71-43-2	Benzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
108-88-3	Toluene	5.0	U
1330-20-7	Total Xylenes	15	U

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8270 - PAH'S
ANALYSIS DATA SHEET

000015

Client N

LSVIC1101203G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683006

Sample wt/vol: 30.29 (g/mL) G Lab File ID: W41381.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/25/2000 09/26/2000

% Moisture: 18.6 decanted: (Y/N) N Date Extracted: 10/04/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/18/2000

Injection Volume: 1.00 (uL) Dilution Factor: 20.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	5600	BJ
208-96-8	Acenaphthylene	16000	U
120-12-7	Anthracene	38000	
56-55-3	Benzo(a)anthracene	90000	
205-99-2	Benzo(b)fluoranthene	110000	
207-08-9	Benzo(k)fluoranthene	67000	
191-24-2	Benzo(ghi)perylene	22000	
50-32-8	Benzo(a)pyrene	85000	
218-01-9	Chrysene	94000	
53-70-3	Dibenzo(a,h)anthracene	16000	U
206-44-0	Fluoranthene	210000	
86-73-7	Fluorene	14000	U
193-39-5	Indeno(1,2,3-cd)pyrene	25000	
91-57-6	2-Methylnaphthalene	16000	U
91-20-3	Naphthalene	13000	U
85-01-8	Phenanthrene	160000	
129-00-0	Pyrene	170000	B
132-64-9	Dibenzofuran	16000	U

PPM

Total PAH 1077

Total CPAH 471.0

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8270 - PAH'S
ANALYSIS DATA SHEET

000016

Client No.

LSVIC1101203G RI

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683006RI

Sample wt/vol: 30.29 (g/mL) G Lab File ID: W41485.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/25/2000 09/26/2000

% Moisture: 18.6 decanted: (Y/N) N Date Extracted: 10/04/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/25/2000

Injection Volume: 1.00 (uL) Dilution Factor: 20.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	14000	U
208-96-8	Acenaphthylene	16000	U
120-12-7	Anthracene	30000	
56-55-3	Benzo(a)anthracene	75000	
205-99-2	Benzo(b)fluoranthene	88000	
207-08-9	Benzo(k)fluoranthene	44000	
191-24-2	Benzo(ghi)perylene	30000	
50-32-8	Benzo(a)pyrene	70000	
218-01-9	Chrysene	74000	
53-70-3	Dibenzo(a,h)anthracene	9900	J
206-44-0	Fluoranthene	180000	
86-73-7	Fluorene	14000	U
193-39-5	Indeno(1,2,3-cd)pyrene	33000	
91-57-6	2-Methylnaphthalene	16000	U
91-20-3	Naphthalene	13000	U
85-01-8	Phenanthrene	130000	
129-00-0	Pyrene	140000	B
132-64-9	Dibenzofuran	16000	U

Total PAH 903.9

Total cPAH 393.9

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8270 - PAH'S
ANALYSIS DATA SHEET

000017

Client N

LSVIC1141601G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683013

Sample wt/vol: 30.36 (g/mL) G Lab File ID: W41404.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 15.4 decanted: (Y/N) N Date Extracted: 10/04/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/19/2000

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	330	U
208-96-8	Acenaphthylene	330	U
120-12-7	Anthracene	330	U
56-55-3	Benzo(a)anthracene	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
191-24-2	Benzo(ghi)perylene	330	U
50-32-8	Benzo(a)pyrene	330	U
218-01-9	Chrysene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
206-44-0	Fluoranthene	330	U
86-73-7	Fluorene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
91-57-6	2-Methylnaphthalene	330	U
91-20-3	Naphthalene	330	U
85-01-8	Phenanthrene	330	U
129-00-0	Pyrene	330	U
132-64-9	Dibenzofuran	330	U

Total PAH (PPM) (0.330

Total cPAH (0.330

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8270 - PAH'S
ANALYSIS DATA SHEET

000018

Client No.

LSVIC1141601G RE

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683013RE

Sample wt/vol: 30.13 (g/mL) G Lab File ID: W41406.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 15.4 decanted: (Y/N) N Date Extracted: 10/17/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/19/2000

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	330	U
208-96-8	Acenaphthylene	330	U
120-12-7	Anthracene	330	U
56-55-3	Benzo(a)anthracene	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
191-24-2	Benzo(ghi)perylene	330	U
50-32-8	Benzo(a)pyrene	330	U
218-01-9	Chrysene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
206-44-0	Fluoranthene	330	U
86-73-7	Fluorene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
91-57-6	2-Methylnaphthalene	330	U
91-20-3	Naphthalene	330	U
85-01-8	Phenanthrene	330	U
129-00-0	Pyrene	330	U
132-64-9	Dibenzofuran	330	U

ppm
Total PAH <0.330

Total PAH <0.330

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8270 - PAH'S
ANALYSIS DATA SHEET

000019

Client N

LSVIC1141603G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683007

Sample wt/vol: 30.93 (g/mL) G Lab File ID: W41382.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/25/2000 09/26/2000

% Moisture: 11.8 decanted: (Y/N) N Date Extracted: 10/04/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/18/2000

Injection Volume: 1.00 (uL) Dilution Factor: 20.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	1300	U
208-96-8	Acenaphthylene	1500	U
120-12-7	Anthracene	1300	U
56-55-3	Benzo(a)anthracene	1500	U
205-99-2	Benzo(b)fluoranthene	1500	U
207-08-9	Benzo(k)fluoranthene	1500	U
191-24-2	Benzo(ghi)perylene	1500	U
50-32-8	Benzo(a)pyrene	1500	U
218-01-9	Chrysene	1500	U
53-70-3	Dibenzo(a,h)anthracene	1500	U
206-44-0	Fluoranthene	1500	U
86-73-7	Fluorene	1300	U
193-39-5	Indeno(1,2,3-cd)pyrene	1500	U
91-57-6	2-Methylnaphthalene	1500	U
91-20-3	Naphthalene	1200	U
85-01-8	Phenanthrene	1500	U
129-00-0	Pyrene	1300	U
132-64-9	Dibenzofuran	1500	U

PAH

Total PAH (1,500

Total cPAH (0.500

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8270 - PAH'S
ANALYSIS DATA SHEET

000020

Client No.

LSVIC1141603G RE

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683007RE

Sample wt/vol: 30.09 (g/mL) G Lab File ID: W41393.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/25/2000 09/26/2000

% Moisture: 11.8 decanted: (Y/N) N Date Extracted: 10/17/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/18/2000

Injection Volume: 1.00 (uL) Dilution Factor: 20.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	1400	U
208-96-8	Acenaphthylene	1500	U
120-12-7	Anthracene	1400	U
56-55-3	Benzo(a)anthracene	1500	U
205-99-2	Benzo(b)fluoranthene	2900	
207-08-9	Benzo(k)fluoranthene	990	J
191-24-2	Benzo(ghi)perylene	1500	U
50-32-8	Benzo(a)pyrene	1200	J
218-01-9	Chrysene	1500	U
53-70-3	Dibenzo(a,h)anthracene	1500	U
206-44-0	Fluoranthene	1500	U
86-73-7	Fluorene	1400	U
193-39-5	Indeno(1,2,3-cd)pyrene	1500	U
91-57-6	2-Methylnaphthalene	1500	U
91-20-3	Naphthalene	1200	U
85-01-8	Phenanthrene	1500	U
129-00-0	Pyrene	1400	U
132-64-9	Dibenzofuran	1500	U

PPM

Total PAH 5.090

Total cPAH 5.090

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8270 - PAH'S
ANALYSIS DATA SHEET

000021

Client N

LSVIC16801G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683011

Sample wt/vol: 30.99 (g/mL) G Lab File ID: W41386.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 22.8 decanted: (Y/N) N Date Extracted: 10/04/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/18/2000

Injection Volume: 1.00 (uL) Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	7500	U
208-96-8	Acenaphthylene	8400	U
120-12-7	Anthracene	7500	U
56-55-3	Benzo(a)anthracene	8400	U
205-99-2	Benzo(b)fluoranthene	27000	
207-08-9	Benzo(k)fluoranthene	12000	
191-24-2	Benzo(ghi)perylene	8400	U
50-32-8	Benzo(a)pyrene	8400	U
218-01-9	Chrysene	8400	U
53-70-3	Dibenzo(a,h)anthracene	8400	U
206-44-0	Fluoranthene	18000	
86-73-7	Fluorene	7500	U
193-39-5	Indeno(1,2,3-cd)pyrene	8400	U
91-57-6	2-Methylnaphthalene	8400	U
91-20-3	Naphthalene	6700	U
85-01-8	Phenanthrene	22000	
129-00-0	Pyrene	14000	B
132-64-9	Dibenzofuran	8400	U

Total PAH 93.00

Total cPAH 39.00

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8270 - PAH'S
ANALYSIS DATA SHEET

000022

Client No.

LSVIC16801G RI

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683011RI

Sample wt/vol: 30.99 (g/mL) G Lab File ID: W41486.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 22.8 decanted: (Y/N) N Date Extracted: 10/04/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/25/2000

Injection Volume: 1.00 (uL) Dilution Factor: 10.00

GPC Cleanup: ° (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	7500	U
208-96-8	Acenaphthylene	8400	U
120-12-7	Anthracene	3900	J
56-55-3	Benzo(a)anthracene	8400	U
205-99-2	Benzo(b)fluoranthene	23000	
207-08-9	Benzo(k)fluoranthene	9200	
191-24-2	Benzo(ghi)perylene	8000	J
50-32-8	Benzo(a)pyrene	6100	J
218-01-9	Chrysene	8400	U
53-70-3	Dibenzo(a,h)anthracene	8400	U
206-44-0	Fluoranthene	16000	
86-73-7	Fluorene	7500	U
193-39-5	Indeno(1,2,3-cd)pyrene	8600	
91-57-6	2-Methylnaphthalene	8400	U
91-20-3	Naphthalene	6700	U
85-01-8	Phenanthrene	20000	
129-00-0	Pyrene	12000	B
132-64-9	Dibenzofuran	8400	U

ppm
Total PAH 106.8

Total cPAH 46.9

NEW YORK STATE ELECIRIC & GAS
NYSEG-METHOD 8270 - PAH'S
ANALYSIS DATA SHEET

000023

Client N

LSVIC16803G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683005

Sample wt/vol: 30.36 (g/mL) G Lab File ID: W41380.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/25/2000 09/26/2000

% Moisture: 10.0 decanted: (Y/N) N Date Extracted: 10/04/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/18/2000

Injection Volume: 1.00 (uL) Dilution Factor: 20.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	13000	U
208-96-8	Acenaphthylene	15000	U
120-12-7	Anthracene	13000	U
56-55-3	Benzo(a)anthracene	15000	U
205-99-2	Benzo(b)fluoranthene	8900	J
207-08-9	Benzo(k)fluoranthene	4200	J
191-24-2	Benzo(ghi)perylene	15000	U
50-32-8	Benzo(a)pyrene	6400	J
218-01-9	Chrysene	15000	U
53-70-3	Dibenzo(a,h)anthracene	15000	U
206-44-0	Fluoranthene	15000	U
86-73-7	Fluorene	13000	U
193-39-5	Indeno(1,2,3-cd)pyrene	15000	U
91-57-6	2-Methylnaphthalene	15000	U
91-20-3	Naphthalene	12000	U
85-01-8	Phenanthrene	15000	U
129-00-0	Pyrene	13000	U
132-64-9	Dibenzofuran	15000	U

ppm

Total PAH 19.50

Total cPAH 19.50

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8270 - PAH'S
ANALYSIS DATA SHEET

000024

Client No.

LSVIC16803G RE

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683005RE

Sample wt/vol: 30.67 (g/mL) G Lab File ID: W41391.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/25/2000 09/26/2000

% Moisture: 10.0 decanted: (Y/N) N Date Extracted: 10/17/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/18/2000

Injection Volume: 1.00 (uL) Dilution Factor: 20.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	13000	U
208-96-8	Acenaphthylene	14000	U
120-12-7	Anthracene	13000	U
56-55-3	Benzo(a)anthracene	14000	U
205-99-2	Benzo(b)fluoranthene	14000	U
207-08-9	Benzo(k)fluoranthene	14000	U
191-24-2	Benzo(ghi)perylene	14000	U
50-32-8	Benzo(a)pyrene	14000	U
218-01-9	Chrysene	14000	U
53-70-3	Dibenzo(a,h)anthracene	14000	U
206-44-0	Fluoranthene	14000	U
86-73-7	Fluorene	13000	U
193-39-5	Indeno(1,2,3-cd)pyrene	14000	U
91-57-6	2-Methylnaphthalene	14000	U
91-20-3	Naphthalene	12000	U
85-01-8	Phenanthrene	14000	U
129-00-0	Pyrene	13000	U
132-64-9	Dibenzofuran	14000	U

ppm

Total PAH < 14.00

Total cPAH < 14.00

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8270 - PAH'S
ANALYSIS DATA SHEET

000025

Client N

LSVIC181001G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683012

Sample wt/vol: 30.23 (g/mL) G Lab File ID: W41403.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 18.1 decanted: (Y/N) N Date Extracted: 10/04/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/19/2000

Injection Volume: 1.00 (uL) Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	7300	U
208-96-8	Acenaphthylene	8100	U
120-12-7	Anthracene	7300	U
56-55-3	Benzo(a)anthracene	15000	
205-99-2	Benzo(b)fluoranthene	39000	
207-08-9	Benzo(k)fluoranthene	15000	
191-24-2	Benzo(ghi)perylene	8700	
50-32-8	Benzo(a)pyrene	18000	
218-01-9	Chrysene	23000	
53-70-3	Dibenzo(a,h)anthracene	8100	U
206-44-0	Fluoranthene	8100	U
86-73-7	Fluorene	7300	U
193-39-5	Indeno(1,2,3-cd)pyrene	9600	
91-57-6	2-Methylnaphthalene	8100	U
91-20-3	Naphthalene	6500	U
85-01-8	Phenanthrene	7600	J
129-00-0	Pyrene	15000	B
132-64-9	Dibenzofuran	8100	U

ppm

Total PAH 150.9

Total CPAH 119.6

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8270 - PAH'S
ANALYSIS DATA SHEET

000026

Client No.

LSVIC181001G RI

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683012RI

Sample wt/vol: 30.23 (g/mL) G Lab File ID: W41487.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 18.1 decanted: (Y/N) N Date Extracted: 10/04/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/25/2000

Injection Volume: 1.00 (uL) Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	7300	U
208-96-8	Acenaphthylene	8100	U
120-12-7	Anthracene	7300	U
56-55-3	Benzo(a)anthracene	17000	
205-99-2	Benzo(b)fluoranthene	39000	
207-08-9	Benzo(k)fluoranthene	17000	
191-24-2	Benzo(ghi)perylene	13000	
50-32-8	Benzo(a)pyrene	20000	
218-01-9	Chrysene	23000	
53-70-3	Dibenzo(a,h)anthracene	3300	J
206-44-0	Fluoranthene	15000	
86-73-7	Fluorene	7300	U
193-39-5	Indeno(1,2,3-cd)pyrene	13000	
91-57-6	2-Methylnaphthalene	8100	U
91-20-3	Naphthalene	6500	U
85-01-8	Phenanthrene	7700	J
129-00-0	Pyrene	15000	B
132-64-9	Dibenzofuran	8100	U

ppm

Total PAH 183.0

Total cPAH 132.3

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8270 - PAH'S
ANALYSIS DATA SHEET

000027

Client No.

LSVIC2101204G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683009

Sample wt/vol: 30.98 (g/mL) G Lab File ID: W41384.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 6.1 decanted: (Y/N) N Date Extracted: 10/04/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/18/2000

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	330	U
208-96-8	Acenaphthylene	330	U
120-12-7	Anthracene	330	U
56-55-3	Benzo(a)anthracene	330	U
205-99-2	Benzo(b)fluoranthene	59	J
207-08-9	Benzo(k)fluoranthene	28	J
191-24-2	Benzo(ghi)perylene	330	U
50-32-8	Benzo(a)pyrene	330	U
218-01-9	Chrysene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
206-44-0	Fluoranthene	67	J
86-73-7	Fluorene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
91-57-6	2-Methylnaphthalene	330	U
91-20-3	Naphthalene	330	U
85-01-8	Phenanthrene	47	J
129-00-0	Pyrene	60	BJ
132-64-9	Dibenzofuran	330	U

PPM

Total PAH 0.261

Total cPAH 0.087

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8270 - PAH'S
ANALYSIS DATA SHEET

000028

Client No.

LSVIC2101204G RE

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683009RE

Sample wt/vol: 30.45 (g/mL) G Lab File ID: W41395.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 6.1 decanted: (Y/N) N Date Extracted: 10/17/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/18/2000

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	330	U
208-96-8	Acenaphthylene	330	U
120-12-7	Anthracene	330	U
56-55-3	Benzo(a)anthracene	330	U
205-99-2	Benzo(b)fluoranthene	36	J
207-08-9	Benzo(k)fluoranthene	330	U
191-24-2	Benzo(ghi)perylene	330	U
50-32-8	Benzo(a)pyrene	330	U
218-01-9	Chrysene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
206-44-0	Fluoranthene	330	U
86-73-7	Fluorene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
91-57-6	2-Methylnaphthalene	330	U
91-20-3	Naphthalene	330	U
85-01-8	Phenanthrene	330	U
129-00-0	Pyrene	330	U
132-64-9	Dibenzofuran	330	U

PPM

Total PAH 0.036

Total PAH 0.036

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8270 - PAH'S
ANALYSIS DATA SHEET

000029

Client No

LSVIC2141604G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683010

Sample wt/vol: 30.43 (g/mL) G Lab File ID: W41385.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 5.8 decanted: (Y/N) N Date Extracted: 10/04/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/18/2000

Injection Volume: 1.00 (uL) Dilution Factor: 5.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	330	U
208-96-8	Acenaphthylene	350	U
120-12-7	Anthracene	330	U
56-55-3	Benzo(a)anthracene	350	U
205-99-2	Benzo(b)fluoranthene	400	
207-08-9	Benzo(k)fluoranthene	200	J
191-24-2	Benzo(ghi)perylene	350	U
50-32-8	Benzo(a)pyrene	300	J
218-01-9	Chrysene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
206-44-0	Fluoranthene	350	U
86-73-7	Fluorene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
91-57-6	2-Methylnaphthalene	350	U
91-20-3	Naphthalene	330	U
85-01-8	Phenanthrene	350	U
129-00-0	Pyrene	330	U
132-64-9	Dibenzofuran	350	U

PPM

Total PAH 0.600

Total PAH 0.600

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8270 - PAH'S
ANALYSIS DATA SHEET

000030

Client No.

LSVIC2141604G RE

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683010RE

Sample wt/vol: 30.69 (g/mL) G Lab File ID: W41396.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 5.8 decanted: (Y/N) N Date Extracted: 10/17/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/19/2000

Injection Volume: 1.00 (uL) Dilution Factor: 5.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	330	U
208-96-8	Acenaphthylene	340	U
120-12-7	Anthracene	330	U
56-55-3	Benzo(a)anthracene	340	U
205-99-2	Benzo(b)fluoranthene	420	
207-08-9	Benzo(k)fluoranthene	220	J
191-24-2	Benzo(ghi)perylene	340	U
50-32-8	Benzo(a)pyrene	270	J
218-01-9	Chrysene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
206-44-0	Fluoranthene	340	U
86-73-7	Fluorene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
91-57-6	2-Methylnaphthalene	340	U
91-20-3	Naphthalene	330	U
85-01-8	Phenanthrene	340	U
129-00-0	Pyrene	330	U
132-64-9	Dibenzofuran	340	U

PPM

Total PAH 0.910

Total cPAH 0.910

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8270 - PAH'S
ANALYSIS DATA SHEET

000031

Client No

LSVIC26804G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683008

Sample wt/vol: 30.14 (g/mL) G Lab File ID: W41383.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 5.9 decanted: (Y/N) N Date Extracted: 10/04/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/18/2000

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	330	U
208-96-8	Acenaphthylene	330	U
120-12-7	Anthracene	330	U
56-55-3	Benzo(a)anthracene	330	U
205-99-2	Benzo(b)fluoranthene	57	J
207-08-9	Benzo(k)fluoranthene	27	J
191-24-2	Benzo(ghi)perylene	330	U
50-32-8	Benzo(a)pyrene	330	U
218-01-9	Chrysene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
206-44-0	Fluoranthene	65	J
86-73-7	Fluorene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
91-57-6	2-Methylnaphthalene	330	U
91-20-3	Naphthalene	330	U
85-01-8	Phenanthrene	58	J
129-00-0	Pyrene	330	U
132-64-9	Dibenzofuran	330	U

ppm

Total PAH 0.207

Total cPAH 0.084

NEW YORK STATE ELECTRIC & GAS
NYSEG-METHOD 8270 - PAH'S
ANALYSIS DATA SHEET

000032

Client No.

LSVIC26804G RE

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: LVL4

Matrix: (soil/water) SOIL Lab Sample ID: A0683008RE

Sample wt/vol: 30.43 (g/mL) G Lab File ID: W41394.MSQ

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 5.9 decanted: (Y/N) N Date Extracted: 10/17/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/18/2000

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	330	U
208-96-8	Acenaphthylene	330	U
120-12-7	Anthracene	330	U
56-55-3	Benzo(a)anthracene	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
191-24-2	Benzo(ghi)perylene	330	U
50-32-8	Benzo(a)pyrene	330	U
218-01-9	Chrysene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
206-44-0	Fluoranthene	330	U
86-73-7	Fluorene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
91-57-6	2-Methylnaphthalene	330	U
91-20-3	Naphthalene	330	U
85-01-8	Phenanthrene	330	U
129-00-0	Pyrene	330	U
132-64-9	Dibenzofuran	330	U

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000069

Client No.

LSVISS04C

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682316

Sample wt/vol: 30.43 (g/mL) G Lab File ID: Z44625.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 5.0 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3400	U
111-44-4	Bis(2-chloroethyl) ether	3400	U
95-57-8	2-Chlorophenol	3400	U
541-73-1	1,3-Dichlorobenzene	3400	U
106-46-7	1,4-Dichlorobenzene	3400	U
95-50-1	1,2-Dichlorobenzene	3400	U
95-48-7	2-Methylphenol	3400	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	3400	U
106-44-5	4-Methylphenol	3400	U
621-64-7	N-Nitroso-Di-n-propylamine	3400	U
67-72-1	Hexachloroethane	3400	U
98-95-3	Nitrobenzene	3400	U
78-59-1	Isophorone	3400	U
88-75-5	2-Nitrophenol	3400	U
105-67-9	2,4-Dimethylphenol	3400	U
111-91-1	Bis(2-chloroethoxy) methane	3400	U
120-83-2	2,4-Dichlorophenol	3400	U
120-82-1	1,2,4-Trichlorobenzene	3400	U
91-20-3	Naphthalene	3400	U
106-47-8	4-Chloroaniline	3400	U
87-68-3	Hexachlorobutadiene	3400	U
59-50-7	4-Chloro-3-methylphenol	3400	U
91-57-6	2-Methylnaphthalene	3400	U
77-47-4	Hexachlorocyclopentadiene	3400	U
88-06-2	2,4,6-Trichlorophenol	3400	U
95-95-4	2,4,5-Trichlorophenol	8300	U
91-58-7	2-Chloronaphthalene	3400	U
88-74-4	2-Nitroaniline	8300	U
131-11-3	Dimethyl phthalate	3400	U
208-96-8	Acenaphthylene	3400	U
606-20-2	2,6-Dinitrotoluene	3400	U
99-09-2	3-Nitroaniline	8300	U

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000070
Client No.

LSVISS04C

ab Name: STL Buffalo Contract: 98-153

ab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

atrix: (soil/water) SOIL Lab Sample ID: A0682316

ample wt/vol: 30.43 (g/mL) G Lab File ID: Z44625.RR

vel: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

Moisture: 5.0 decanted: (Y/N) N Date Extracted: 09/29/2000

ncentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

jection Volume: 2.00 (uL) Total PAH 3,721 Dilution Factor: 10.00

PC Cleanup: (Y/N) N pH: ____ Total cPAH 1,792

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	3400	U
51-28-5	2,4-Dinitrophenol	8300	U
100-02-7	4-Nitrophenol	8300	U
132-64-9	Dibenzofuran	3400	U
121-14-2	2,4-Dinitrotoluene	3400	U
84-66-2	Diethyl phthalate	3400	U
7005-72-3	4-Chlorophenyl phenyl ether	3400	U
86-73-7	Fluorene	3400	U
100-01-6	4-Nitroaniline	8300	U
534-52-1	4,6-Dinitro-2-methylphenol	8300	U
86-30-6	N-nitrosodiphenylamine	3400	U
101-55-3	4-Bromophenyl phenyl ether	3400	U
118-74-1	Hexachlorobenzene	3400	U
87-86-5	Pentachlorophenol	8300	U
85-01-8	Phenanthrene	320	J
120-12-7	Anthracene	60	J
86-74-8	Carbazole	34	J
84-74-2	Di-n-butyl phthalate	3400	U
206-44-0	Fluoranthene	610	J
129-00-0	Pyrene	880	J
85-68-7	Butyl benzyl phthalate	3400	U
91-94-1	3,3'-Dichlorobenzidine	3400	U
56-55-3	Benzo(a)anthracene	430	J
218-01-9	Chrysene	320	J
117-81-7	Bis(2-ethylhexyl) phthalate	3400	U
117-84-0	Di-n-octyl phthalate	3400	U
205-99-2	Benzo(b)fluoranthene	670	J
207-08-9	Benzo(k)fluoranthene	3400	U
50-32-8	Benzo(a)pyrene	310	J
193-39-5	Indeno(1,2,3-cd)pyrene	62	J
53-70-3	Dibenzo(a,h)anthracene	3400	U
191-24-2	Benzo(ghi)perylene	59	J

New York State Electric & Gas
Wet Chemistry Analysis

000110

Client Sample No.

LSVISS04C

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: A0682316

% Solids: 95.0 Date Samp/Recv: 09/26/2000 09/26/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	0.50	U			CLP-WC	10/06/2000

Comments:

ANALYSIS DATA SHEET

Client No.

LSVISS04C

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682316

Sample wt/vol: 5.04 (g/mL) G Lab File ID: H2795.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 8.0 Heated Purge: Y Date Analyzed: 10/04/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	8	BJ
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (Total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	2	J
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Total Xylenes	11	U

NEW YORK STATE ELECTRIC & GAS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

LSVISS04C

Contract:

Lab Code: STL Case No.: SAS No.: SDG NO.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: AD016969

Level (low/med): LOW Date Received: 9/26/00

% Solids: 95

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1060		*	P
7440-36-0	Antimony	1.3	B	N	P
7440-38-2	Arsenic	3.3			P
7440-39-3	Barium	12.7	B		P
7440-41-7	Beryllium	0.26	B		P
7440-43-9	Cadmium	0.83	B		P
7440-70-2	Calcium	139000		E	P
7440-47-3	Chromium	10.2		*	P
7440-48-4	Cobalt	1.9	B		P
7440-50-8	Copper	11.4			P
7439-89-6	Iron	8410			P
7439-92-1	Lead	69.1			P
7439-95-4	Magnesium	67100		E	P
7439-96-5	Manganese	970		*	P
7440-02-0	Nickel	29.4			P
7440-09-7	Potassium	569	B		P
7782-49-2	Selenium	1.1	U		P
7439-97-6	Mercury	0.02	B	N	CV
7440-22-4	Silver	0.32	U		P
7440-23-5	Sodium	210	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	4.7	B		P
7440-66-6	Zinc	191			P

Color Before: GREY Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

Analytical Report for Tables 3 & 5

SEVERN TRENT SERVICES

STL Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Tel: 716 691 2600
Fax: 716 691 7991
www.stl-inc.com

October 24, 2000

Mr. John Ruspantini
NYSEG - Corporate Drive
Kirkwood Industrial Park
Binghamton, NY 13902-5224

RE: Analytical Results

Dear Mr. Ruspantini:

Please find enclosed analytical results concerning the samples recently submitted by your firm. The pertinent information regarding these analyses is listed below:

Project:	NYSEG - Lockport State Road Former MGP
Matrix:	Soil; Water
Samples Received:	09/26/00
Sample Dates:	09/25-26/00

If you have any questions concerning this data, please contact me at (716) 691-2600 and refer to the I.D. number listed below. It has been our pleasure to provide New York State Electric & Gas with environmental testing services. We look forward to serving you in the future.

Sincerely,

STL Buffalo

Kenneth P. Kinecki
Program Manager

KPK/klc
Enclosure

I.D.#A00-6824
#NY0A8576

This report contains 107 pages which are individually numbered

TRENT
SERVICES
STL Buffalo

ANALYTICAL RESULTS

Prepared for:

New York State Electric & Gas
Kirkwood Industrial Park
Binghamton, NY 13902-5224

Prepared by:

STL Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228-2298

METHODOLOGY

The specific methodology employed in obtaining the enclosed analytical results is indicated on the specific data tables. The method number presented refers to the following U.S. Environmental Protection Agency reference:

- "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW-846), Third Edition, Update III, December 1996, United States Environmental Protection Agency Office of Solid Waste.

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed data has been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

METHOD 8260

Samples LSVIWC020A1C, LSVIWC0401C, LSVIWC203A1G, LSVIWCBB05AC, and LSVIWCSS06C were analyzed outside of holding time. The samples were in the auto sampler and were analyzed less than 12 hours past the holding time.

All samples were analyzed at a dilution factor of 10 due to TCLP matrix.

No other deviations from protocol that affected the acceptability of the analytical results were encountered during the analytical procedures.

METHOD 8270

Samples LSVIWC0408AC, LSVIWC04WWAC, Extractor Blank (J-1332), and Method Blank (A0B0784603) exhibited low surrogate recovery results for Phenol-D5. Samples LSVIWC0408AC, LSVIWC04WWAC, LSVIWC0408BC, LSVIWC4808BC, LSVIWC48WWAC, Extractor Blank (J-1332), and Method Blank (A0B0784603) were re-extracted due non-compliant Method Blank results. The re-extraction occurred outside of holding time. Both sets of data are reported for all samples.

The Matrix Spike Blank (A0B0797902) exhibited low surrogate recoveries for Nitrobenzene-D5, 2-Fluorobiphenol-d14, Phenol-D5, and 2-Fluorophenol. However, the Matrix Spike Blank Duplicate (A0B0788702) was compliant.

The Matrix Spike Blank Duplicate (A0B0784602) exhibited low surrogate recoveries for Phenol-D5. No corrective action was taken.

The Method Blank (AB0788703) exhibited spike recovery results below quality control limits for 2,4-Dinitrotoluene, Hexachlorobenzne, 2-Methylphenol, 3-Methylphenol, 4-Methylphenol, Nitrobenzene, Pentachlorophenol, 2,4,5-Trichlorophenol, and 2,4,6-Trichlorophenol for the SB. The SBD was compliant. The relative percent difference (RPD) for spike recovery between the Matrix Spike Blank and the Matrix Spike Blank Duplicate was outside quality control limits for all analytes. The associated samples were not detected for 8270 target compounds.

The Method Blank (AB0784603) exhibited spike recovery slightly results below quality control limits for 2,4-Dinitrotoluene and 3-Methylphenol for the SB; and 2,4-Dinitrotoluene, 3-Methylphenol, and 4-Methylphenol for the SD. No corrective action was taken.

The relative percent difference (RPD) for spike recovery between the Matrix Spike Blank and the Matrix Spike Blank Duplicate was outside quality control limits for Pyridine.

No other deviations from protocol that affected the acceptability of the analytical results were encountered during the analytical procedures.

METHOD 8081

The Method Blank (A0B0784904) exhibited surrogate recovery results outside quality control limits for Tetrachloro-m-xylene. However, the sample was compliant for Decachlorobiphenyl.

No other deviations from protocol that affected the acceptability of the analytical results were encountered during the analytical procedures.

METHOD 8150

No deviations from protocol that affected the acceptability of the analytical results were encountered during the analytical procedures.

METALS

The Extractor Blank (A0B0790001) exhibited results for Total Chromium, Total Barium, and Total Silver. No corrective action was taken.

The Extractor Blank (A0B0790003) exhibited results for Total Lead. No corrective action was taken.

No other deviations from protocol that affected the acceptability of the analytical results were encountered during the analytical procedures.

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
1	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance The value obtained should be considered an estimate.
*	Indicates analysis is not within the quality control limits
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

[redacted] Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682401
ent Sample ID: LSVIWC04WWC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D018	Benzene	0.5000	0.0060	U
D035	2-Butanone	200.0000	0.020	U
D019	Carbon Tetrachloride	0.5000	0.0080	U
D021	Chlorobenzene	100.0000	0.0080	U
D022	Chloroform	6.0000	0.0050	U
D028	1,2-Dichloroethane	0.5000	0.0050	U
D029	1,1-Dichloroethene	0.7000	0.0080	U
D039	Tetrachloroethene	0.7000	0.0080	U
D040	Trichloroethene	0.5000	0.0050	U
D043	Vinyl chloride	0.2000	0.0080	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682402
ent Sample ID: LSVIWC0408AC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D018	Benzene	0.5000	0.0060	U
D035	2-Butanone	200.0000	0.020	U
D019	Carbon Tetrachloride	0.5000	0.0080	U
D021	Chlorobenzene	100.0000	0.0080	U
D022	Chloroform	6.0000	0.0050	U
D028	1,2-Dichloroethane	0.5000	0.0050	U
D029	1,1-Dichloroethene	0.7000	0.0080	U
D039	Tetrachloroethene	0.7000	0.0080	U
D040	Trichloroethene	0.5000	0.0050	U
D043	Vinyl chloride	0.2000	0.0080	U

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682403
ent Sample ID: LSVIWC04WWAC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D018	Benzene	0.5000	0.0060	U
D035	2-Butanone	200.0000	0.020	U
D019	Carbon Tetrachloride	0.5000	0.0080	U
D021	Chlorobenzene	100.0000	0.0080	U
D022	Chloroform	6.0000	0.0050	U
D028	1,2-Dichloroethane	0.5000	0.0050	U
D029	1,1-Dichloroethene	0.7000	0.0080	U
D039	Tetrachloroethene	0.7000	0.0080	U
D040	Trichloroethene	0.5000	0.0050	U
D043	Vinyl chloride	0.2000	0.0080	U

ockpor a e oa Former anu acture as ant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682404
ent Sample ID: LSVIWC48WWAC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D018	Benzene	0.5000	0.0060	U
D035	2-Butanone	200.0000	0.020	U
D019	Carbon Tetrachloride	0.5000	0.0080	U
D021	Chlorobenzene	100.0000	0.0080	U
D022	Chloroform	6.0000	0.0050	U
D028	1,2-Dichloroethane	0.5000	0.0050	U
D029	1,1-Dichloroethene	0.7000	0.0080	U
D039	Tetrachloroethene	0.7000	0.062	
D040	Trichloroethene	0.5000	0.13	
D043	Vinyl chloride	0.2000	0.0080	U

[redacted] Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682405
ent Sample ID: LSVIWC0408BC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D018	Benzene	0.5000	0.0060	U
D035	2-Butanone	200.0000	0.020	U
D019	Carbon Tetrachloride	0.5000	0.0080	U
D021	Chlorobenzene	100.0000	0.0080	U
D022	Chloroform	6.0000	0.0050	U
D028	1,2-Dichloroethane	0.5000	0.0050	U
D029	1,1-Dichloroethene	0.7000	0.0080	U
D039	Tetrachloroethene	0.7000	0.0080	U
D040	Trichloroethene	0.5000	0.0050	U
D043	Vinyl chloride	0.2000	0.0080	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682406
ent Sample ID: LSVIWC4808BC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D018	Benzene	0.5000	0.0060	U
D035	2-Butanone	200.0000	0.020	U
D019	Carbon Tetrachloride	0.5000	0.0080	U
D021	Chlorobenzene	100.0000	0.0080	U
D022	Chloroform	6.0000	0.0050	U
D028	1,2-Dichloroethane	0.5000	0.0050	U
D029	1,1-Dichloroethene	0.7000	0.0080	U
D039	Tetrachloroethene	0.7000	0.0080	U
D040	Trichloroethene	0.5000	0.0050	U
D043	Vinyl chloride	0.2000	0.0080	U

[redacted] Lockport State Road Farm [redacted] Manufactu[redacted] Ga[redacted]Pla[redacted]

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682408
ent Sample ID: LSVIWC0502C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D018	Benzene	0.5000	0.0060	U
D035	2-Butanone	200.0000	0.020	U
D019	Carbon Tetrachloride	0.5000	0.0080	U
D021	Chlorobenzene	100.0000	0.0080	U
D022	Chloroform	6.0000	0.0050	U
D028	1,2-Dichloroethane	0.5000	0.0050	U
D029	1,1-Dichloroethene	0.7000	0.0080	U
D039	Tetrachloroethene	0.7000	0.0080	U
D040	Trichloroethene	0.5000	0.0050	U
D043	Vinyl chloride	0.2000	0.0080	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682409
ent Sample ID: LSVIWC0503C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D018	Benzene	0.5000	0.0060	U
D035	2-Butanone	200.0000	0.020	U
D019	Carbon Tetrachloride	0.5000	0.0080	U
D021	Chlorobenzene	100.0000	0.0080	U
D022	Chloroform	6.0000	0.0050	U
D028	1,2-Dichloroethane	0.5000	0.0050	U
D029	1,1-Dichloroethene	0.7000	0.0080	U
D039	Tetrachloroethene	0.7000	0.0080	U
D040	Trichloroethene	0.5000	0.0050	U
D043	Vinyl chloride	0.2000	0.0080	U

[redacted] Lo[redacted]ort[redacted]at[redacted]bad[redacted]rm[redacted]lan[redacted]ctu[redacted] Ga[redacted]Plan[redacted]

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682410
ent Sample ID: LSVIWC0504C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D018	Benzene	0.5000	0.0060	U
D035	2-Butanone	200.0000	0.020	U
D019	Carbon Tetrachloride	0.5000	0.0080	U
D021	Chlorobenzene	100.0000	0.0080	U
D022	Chloroform	6.0000	0.0050	U
D028	1,2-Dichloroethane	0.5000	0.0050	U
D029	1,1-Dichloroethene	0.7000	0.0080	U
D039	Tetrachloroethene	0.7000	0.0080	U
D040	Trichloroethene	0.5000	0.0050	U
D043	Vinyl chloride	0.2000	0.0080	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682411
ent Sample ID: LSVIWC0507C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D018	Benzene	0.5000	0.0060	U
D035	2-Butanone	200.0000	0.020	U
D019	Carbon Tetrachloride	0.5000	0.0080	U
D021	Chlorobenzene	100.0000	0.0080	U
D022	Chloroform	6.0000	0.0050	U
D028	1,2-Dichloroethane	0.5000	0.0050	U
D029	1,1-Dichloroethene	0.7000	0.0080	U
D039	Tetrachloroethene	0.7000	0.020	
D040	Trichloroethene	0.5000	0.046	
D043	Vinyl chloride	0.2000	0.0080	U

[redacted] Lockport [redacted] Stat [redacted] pad [redacted] rm [redacted] Man [redacted] ctu [redacted] Ga [redacted] Pla [redacted]

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682412
ent Sample ID: LSVIWC020A1C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D018	Benzene	0.5000	0.0060	U
D035	2-Butanone	200.0000	0.020	U
D019	Carbon Tetrachloride	0.5000	0.0080	U
D021	Chlorobenzene	100.0000	0.0080	U
D022	Chloroform	6.0000	0.0050	U
D028	1,2-Dichloroethane	0.5000	0.0050	U
D029	1,1-Dichloroethene	0.7000	0.0080	U
D039	Tetrachloroethene	0.7000	0.0080	U
D040	Trichloroethene	0.5000	0.0050	U
D043	Vinyl chloride	0.2000	0.0080	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682413
ent Sample ID: LSVIWC2023A1G
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D018	Benzene	0.5000	0.0060	U
D035	2-Butanone	200.0000	0.020	U
D019	Carbon Tetrachloride	0.5000	0.0080	U
D021	Chlorobenzene	100.0000	0.0080	U
D022	Chloroform	6.0000	0.0050	U
D028	1,2-Dichloroethane	0.5000	0.0050	U
D029	1,1-Dichloroethene	0.7000	0.0080	U
D039	Tetrachloroethene	0.7000	0.0080	U
D040	Trichloroethene	0.5000	0.0050	U
D043	Vinyl chloride	0.2000	0.0080	U

[redacted] Lo[redacted]ort [redacted]at[redacted]oad [redacted]rm[redacted] Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682414
ent Sample ID: LSVIWC0401C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D018	Benzene	0.5000	0.0060	U
D035	2-Butanone	200.0000	0.020	U
D019	Carbon Tetrachloride	0.5000	0.0080	U
D021	Chlorobenzene	100.0000	0.0080	U
D022	Chloroform	6.0000	0.0050	U
D028	1,2-Dichloroethane	0.5000	0.0050	U
D029	1,1-Dichloroethene	0.7000	0.0080	U
D039	Tetrachloroethene	0.7000	0.0080	U
D040	Trichloroethene	0.5000	0.0050	U
D043	Vinyl chloride	0.2000	0.0080	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682415
ent Sample ID: LSVIWCBB05AC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D018	Benzene	0.5000	0.0060	U
D035	2-Butanone	200.0000	0.020	U
D019	Carbon Tetrachloride	0.5000	0.0080	U
D021	Chlorobenzene	100.0000	0.0080	U
D022	Chloroform	6.0000	0.0050	U
D028	1,2-Dichloroethane	0.5000	0.0050	U
D029	1,1-Dichloroethene	0.7000	0.0080	U
D039	Tetrachloroethene	0.7000	0.013	
D040	Trichloroethene	0.5000	0.048	
D043	Vinyl chloride	0.2000	0.0080	U

[redacted] Lockport [redacted] Stat [redacted] Road [redacted] Form [redacted] Man [redacted] act [redacted] d G [redacted] Pla [redacted]

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682416
ent Sample ID: LSVIWCSS06C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D018	Benzene	0.5000	0.0060	U
D035	2-Butanone	200.0000	0.020	U
D019	Carbon Tetrachloride	0.5000	0.0080	U
D021	Chlorobenzene	100.0000	0.0080	U
D022	Chloroform	6.0000	0.0050	U
D028	1,2-Dichloroethane	0.5000	0.0050	U
D029	1,1-Dichloroethene	0.7000	0.0080	U
D039	Tetrachloroethene	0.7000	0.0080	U
D040	Trichloroethene	0.5000	0.0050	U
D043	Vinyl chloride	0.2000	0.0080	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682401
ent Sample ID: LSVIWC04WWC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D027	1,4-Dichlorobenzene	7.5000	0.010	U
D030	2,4-Dinitrotoluene	0.1300	0.010	U
D032	Hexachlorobenzene	0.1300	0.010	U
D033	Hexachlorobutadiene	0.5000	0.010	U
D034	Hexachloroethane	3.0000	0.010	U
D024	3-Methylphenol	200.0000	0.010	U
D023	2-Methylphenol	200.0000	0.010	U
D025	4-Methylphenol	200.0000	0.010	U
D036	Nitrobenzene	2.0000	0.010	U
D037	Pentachlorophenol	100.0000	0.050	U
D038	Pyridine	5.0000	0.010	U
D041	2,4,5-Trichlorophenol	400.0000	0.025	U
D042	2,4,6-Trichlorophenol	2.0000	0.010	U

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682402
ent Sample ID: LSVIWC0408AC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D027	1,4-Dichlorobenzene	7.5000	0.010	U
D030	2,4-Dinitrotoluene	0.1300	0.010	U
D032	Hexachlorobenzene	0.1300	0.010	U
D033	Hexachlorobutadiene	0.5000	0.010	U
D034	Hexachloroethane	3.0000	0.010	U
D024	3-Methylphenol	200.0000	0.010	U
D023	2-Methylphenol	200.0000	0.010	U
D025	4-Methylphenol	200.0000	0.010	U
D036	Nitrobenzene	2.0000	0.010	U
D037	Pentachlorophenol	100.0000	0.050	U
D038	Pyridine	5.0000	0.010	U
D041	2,4,5-Trichlorophenol	400.0000	0.025	U
D042	2,4,6-Trichlorophenol	2.0000	0.010	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682403
ent Sample ID: LSVIWC04WWAC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D027	1,4-Dichlorobenzene	7.5000	0.010	U
D030	2,4-Dinitrotoluene	0.1300	0.010	U
D032	Hexachlorobenzene	0.1300	0.010	U
D033	Hexachlorobutadiene	0.5000	0.010	U
D034	Hexachloroethane	3.0000	0.010	U
D024	3-Methylphenol	200.0000	0.010	U
D023	2-Methylphenol	200.0000	0.010	U
D025	4-Methylphenol	200.0000	0.010	U
D036	Nitrobenzene	2.0000	0.010	U
D037	Pentachlorophenol	100.0000	0.050	U
D038	Pyridine	5.0000	0.010	U
D041	2,4,5-Trichlorophenol	400.0000	0.025	U
D042	2,4,6-Trichlorophenol	2.0000	0.010	U

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682404
ent Sample ID: LSVIWC48WWAC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D027	1,4-Dichlorobenzene	7.5000	0.010	U
D030	2,4-Dinitrotoluene	0.1300	0.010	U
D032	Hexachlorobenzene	0.1300	0.010	U
D033	Hexachlorobutadiene	0.5000	0.010	U
D034	Hexachloroethane	3.0000	0.010	U
D024	3-Methylphenol	200.0000	0.010	U
D023	2-Methylphenol	200.0000	0.010	U
D025	4-Methylphenol	200.0000	0.010	U
D036	Nitrobenzene	2.0000	0.010	U
D037	Pentachlorophenol	100.0000	0.050	U
D038	Pyridine	5.0000	0.010	U
D041	2,4,5-Trichlorophenol	400.0000	0.025	U
D042	2,4,6-Trichlorophenol	2.0000	0.010	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682405
ent Sample ID: LSVIWC0408BC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D027	1,4-Dichlorobenzene	7.5000	0.010	U
D030	2,4-Dinitrotoluene	0.1300	0.010	U
D032	Hexachlorobenzene	0.1300	0.010	U
D033	Hexachlorobutadiene	0.5000	0.010	U
D034	Hexachloroethane	3.0000	0.010	U
D024	3-Methylphenol	200.0000	0.010	U
D023	2-Methylphenol	200.0000	0.010	U
D025	4-Methylphenol	200.0000	0.010	U
D036	Nitrobenzene	2.0000	0.010	U
D037	Pentachlorophenol	100.0000	0.050	U
D038	Pyridine	5.0000	0.010	U
D041	2,4,5-Trichlorophenol	400.0000	0.025	U
D042	2,4,6-Trichlorophenol	2.0000	0.010	U

[redacted] Lockport [redacted] Stat [redacted] Road [redacted] Farm [redacted] Man [redacted] ctu [redacted] G [redacted] Pla [redacted]

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682406
ent Sample ID: LSVIWC4808BC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D027	1,4-Dichlorobenzene	7.5000	0.010	U
D030	2,4-Dinitrotoluene	0.1300	0.010	U
D032	Hexachlorobenzene	0.1300	0.010	U
D033	Hexachlorobutadiene	0.5000	0.010	U
D034	Hexachloroethane	3.0000	0.010	U
D024	3-Methylphenol	200.0000	0.010	U
D023	2-Methylphenol	200.0000	0.010	U
D025	4-Methylphenol	200.0000	0.010	U
D036	Nitrobenzene	2.0000	0.010	U
D037	Pentachlorophenol	100.0000	0.050	U
D038	Pyridine	5.0000	0.010	U
D041	2,4,5-Trichlorophenol	400.0000	0.025	U
D042	2,4,6-Trichlorophenol	2.0000	0.010	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682408
ent Sample ID: LSVIWC0502C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D027	1,4-Dichlorobenzene	7.5000	0.010	U
D030	2,4-Dinitrotoluene	0.1300	0.010	U
D032	Hexachlorobenzene	0.1300	0.010	U
D033	Hexachlorobutadiene	0.5000	0.010	U
D034	Hexachloroethane	3.0000	0.010	U
D024	3-Methylphenol	200.0000	0.010	U
D023	2-Methylphenol	200.0000	0.010	U
D025	4-Methylphenol	200.0000	0.010	U
D036	Nitrobenzene	2.0000	0.010	U
D037	Pentachlorophenol	100.0000	0.050	U
D038	Pyridine	5.0000	0.010	U
D041	2,4,5-Trichlorophenol	400.0000	0.025	U
D042	2,4,6-Trichlorophenol	2.0000	0.010	U

[redacted] Lockport Statement Road Northern Manufactured Gas Plant [redacted]

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682409
ent Sample ID: LSVIWC0503C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D027	1,4-Dichlorobenzene	7.5000	0.010	U
D030	2,4-Dinitrotoluene	0.1300	0.010	U
D032	Hexachlorobenzene	0.1300	0.010	U
D033	Hexachlorobutadiene	0.5000	0.010	U
D034	Hexachloroethane	3.0000	0.010	U
D024	3-Methylphenol	200.0000	0.010	U
D023	2-Methylphenol	200.0000	0.010	U
D025	4-Methylphenol	200.0000	0.010	U
D036	Nitrobenzene	2.0000	0.010	U
D037	Pentachlorophenol	100.0000	0.050	U
D038	Pyridine	5.0000	0.010	U
D041	2,4,5-Trichlorophenol	400.0000	0.025	U
D042	2,4,6-Trichlorophenol	2.0000	0.010	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682410
ent Sample ID: LSVIWC0504C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D027	1,4-Dichlorobenzene	7.5000	0.010	U
D030	2,4-Dinitrotoluene	0.1300	0.010	U
D032	Hexachlorobenzene	0.1300	0.010	U
D033	Hexachlorobutadiene	0.5000	0.010	U
D034	Hexachloroethane	3.0000	0.010	U
D024	3-Methylphenol	200.0000	0.010	U
D023	2-Methylphenol	200.0000	0.010	U
D025	4-Methylphenol	200.0000	0.010	U
D036	Nitrobenzene	2.0000	0.010	U
D037	Pentachlorophenol	100.0000	0.050	U
D038	Pyridine	5.0000	0.010	U
D041	2,4,5-Trichlorophenol	400.0000	0.025	U
D042	2,4,6-Trichlorophenol	2.0000	0.010	U

[redacted] Lockport State Road [redacted] Farme[redacted]anu[redacted]ctu[redacted] Ga[redacted]la[redacted]

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682411
ent Sample ID: LSVIWC0507C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D027	1,4-Dichlorobenzene	7.5000	0.010	U
D030	2,4-Dinitrotoluene	0.1300	0.010	U
D032	Hexachlorobenzene	0.1300	0.010	U
D033	Hexachlorobutadiene	0.5000	0.010	U
D034	Hexachloroethane	3.0000	0.010	U
D024	3-Methylphenol	200.0000	0.010	U
D023	2-Methylphenol	200.0000	0.010	U
D025	4-Methylphenol	200.0000	0.010	U
D036	Nitrobenzene	2.0000	0.010	U
D037	Pentachlorophenol	100.0000	0.050	U
D038	Pyridine	5.0000	0.010	U
D041	2,4,5-Trichlorophenol	400.0000	0.025	U
D042	2,4,6-Trichlorophenol	2.0000	0.010	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682412
ent Sample ID: LSVIWC020A1C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D027	1,4-Dichlorobenzene	7.5000	0.010	U
D030	2,4-Dinitrotoluene	0.1300	0.010	U
D032	Hexachlorobenzene	0.1300	0.010	U
D033	Hexachlorobutadiene	0.5000	0.010	U
D034	Hexachloroethane	3.0000	0.010	U
D024	3-Methylphenol	200.0000	0.010	U
D023	2-Methylphenol	200.0000	0.010	U
D025	4-Methylphenol	200.0000	0.010	U
D036	Nitrobenzene	2.0000	0.010	U
D037	Pentachlorophenol	100.0000	0.050	U
D038	Pyridine	5.0000	0.010	U
D041	2,4,5-Trichlorophenol	400.0000	0.025	U
D042	2,4,6-Trichlorophenol	2.0000	0.010	U

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682413
ent Sample ID: LSVIWC2023A1G
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D027	1,4-Dichlorobenzene	7.5000	0.010	U
D030	2,4-Dinitrotoluene	0.1300	0.010	U
D032	Hexachlorobenzene	0.1300	0.010	U
D033	Hexachlorobutadiene	0.5000	0.010	U
D034	Hexachloroethane	3.0000	0.010	U
D024	3-Methylphenol	200.0000	0.010	U
D023	2-Methylphenol	200.0000	0.010	U
D025	4-Methylphenol	200.0000	0.010	U
D036	Nitrobenzene	2.0000	0.010	U
D037	Pentachlorophenol	100.0000	0.050	U
D038	Pyridine	5.0000	0.010	U
D041	2,4,5-Trichlorophenol	400.0000	0.025	U
D042	2,4,6-Trichlorophenol	2.0000	0.010	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682414
ent Sample ID: LSVIWC0401C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D027	1,4-Dichlorobenzene	7.5000	0.012	U
D030	2,4-Dinitrotoluene	0.1300	0.012	U
D032	Hexachlorobenzene	0.1300	0.012	U
D033	Hexachlorobutadiene	0.5000	0.012	U
D034	Hexachloroethane	3.0000	0.012	U
D024	3-Methylphenol	200.0000	0.012	U
D023	2-Methylphenol	200.0000	0.012	U
D025	4-Methylphenol	200.0000	0.012	U
D036	Nitrobenzene	2.0000	0.012	U
D037	Pentachlorophenol	100.0000	0.050	U
D038	Pyridine	5.0000	0.012	U
D041	2,4,5-Trichlorophenol	400.0000	0.025	U
D042	2,4,6-Trichlorophenol	2.0000	0.012	U

[redacted] Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682415
ent Sample ID: LSVIWCBB05AC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D027	1,4-Dichlorobenzene	7.5000	0.010	U
D030	2,4-Dinitrotoluene	0.1300	0.010	U
D032	Hexachlorobenzene	0.1300	0.010	U
D033	Hexachlorobutadiene	0.5000	0.010	U
D034	Hexachloroethane	3.0000	0.010	U
D024	3-Methylphenol	200.0000	0.010	U
D023	2-Methylphenol	200.0000	0.010	U
D025	4-Methylphenol	200.0000	0.010	U
D036	Nitrobenzene	2.0000	0.010	U
D037	Pentachlorophenol	100.0000	0.050	U
D038	Pyridine	5.0000	0.010	U
D041	2,4,5-Trichlorophenol	400.0000	0.025	U
D042	2,4,6-Trichlorophenol	2.0000	0.010	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682416
ent Sample ID: LSVIWCSS06C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D027	1,4-Dichlorobenzene	7.5000	0.010	U
D030	2,4-Dinitrotoluene	0.1300	0.010	U
D032	Hexachlorobenzene	0.1300	0.010	U
D033	Hexachlorobutadiene	0.5000	0.010	U
D034	Hexachloroethane	3.0000	0.010	U
D024	3-Methylphenol	200.0000	0.010	U
D023	2-Methylphenol	200.0000	0.010	U
D025	4-Methylphenol	200.0000	0.010	U
D036	Nitrobenzene	2.0000	0.010	U
D037	Pentachlorophenol	100.0000	0.050	U
D038	Pyridine	5.0000	0.010	U
D041	2,4,5-Trichlorophenol	400.0000	0.025	U
D042	2,4,6-Trichlorophenol	2.0000	0.010	U

[redacted] Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

ɔratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682401
ɛnt Sample ID: LSVIWC04WWC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D016	2,4-D	10.0000	0.0010	U
D017	2,4,5-TP (Silvex)	1.0000	0.0010	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682402
ent Sample ID: LSVIWC0408AC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D016	2,4-D	10.0000	0.0010	U
D017	2,4,5-TP (Silvex)	1.0000	0.0010	U

[redacted] Lo[redacted]ort[redacted]at[redacted]bad[redacted]rm[redacted]anufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682403
ent Sample ID: LSVIWC04WWAC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D016	2,4-D	10.0000	0.0010	U
D017	2,4,5-TP (Silvex)	1.0000	0.0010	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

ɔratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682404
ɐnt Sample ID: LSVIWC48WWAC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D016	2,4-D	10.0000	0.0010	U
D017	2,4,5-TP (Silvex)	1.0000	0.0010	U

[redacted] Lockport [redacted] State [redacted] Road [redacted] rm [redacted] anu [redacted] ctu [redacted] Ga [redacted] la [redacted]

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682405
ent Sample ID: LSVIWC0408BC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D016	2,4-D	10.0000	0.0010	U
D017	2,4,5-TP (Silvex)	1.0000	0.0010	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682406
ent Sample ID: LSVIWC4808BC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D016	2,4-D	10.0000	0.0010	U
D017	2,4,5-TP (Silvex)	1.0000	0.0010	U

[redacted] Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682408
ent Sample ID: LSVIWC0502C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D016	2,4-D	10.0000	0.0010	U
D017	2,4,5-TP (Silvex)	1.0000	0.0010	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682409
ent Sample ID: LSVIWC0503C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D016	2,4-D	10.0000	0.0010	U
D017	2,4,5-TP (Silvex)	1.0000	0.0010	U

[redacted] Lockport [redacted] ate [redacted] oad [redacted] rm [redacted] anu [redacted] ctu [redacted] Ga [redacted] la [redacted]

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682410
ent Sample ID: LSVIWC0504C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D016	2,4-D	10.0000	0.0010	U
D017	2,4,5-TP (Silvex)	1.0000	0.0010	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682411
ent Sample ID: LSVIWC0507C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D016	2,4-D	10.0000	0.0010	U
D017	2,4,5-TP (Silvex)	1.0000	0.0010	U

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682412
ent Sample ID: LSVIWC020A1C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D016	2,4-D	10.0000	0.0010	U
D017	2,4,5-TP (Silvex)	1.0000	0.0010	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682413
ent Sample ID: LSVIWC2023A1G
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D016	2,4-D	10.0000	0.0010	U
D017	2,4,5-TP (Silvex)	1.0000	0.0010	U

[redacted] Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682414
ent Sample ID: LSVIWC0401C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D016	2,4-D	10.0000	0.0010	U
D017	2,4,5-TP (Silvex)	1.0000	0.0010	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682415
ent Sample ID: LSVIWCBB05AC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D016	2,4-D	10.0000	0.0010	U
D017	2,4,5-TP (Silvex)	1.0000	0.0010	U

[redacted]

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682416
ent Sample ID: LSVIWCSS06C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (MG/L)	Result (MG/L)	Q
D016	2,4-D	10.0000	0.0010	U
D017	2,4,5-TP (Silvex)	1.0000	0.0010	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682401
ent Sample ID: LSVIWC04WWC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (UG/L)	Result (UG/L)	Q
D013	gamma-BHC (Lindane)	400	0.20	U
D020	Chlordane	30	2.0	U
D012	Endrin	20	0.20	U
D031	Heptachlor	8	0.20	U
D031	Heptachlor epoxide	8	0.20	U
D014	Methoxychlor	10000	0.20	U
D015	Toxaphene	500	8.0	U

[redacted] Manufactured Gas Plant [redacted]

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682402
ent Sample ID: LSVIWC0408AC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (UG/L)	Result (UG/L)	Q
D013	gamma-BHC (Lindane)	400	0.20	U
D020	Chlordane	30	2.0	U
D012	Endrin	20	0.20	U
D031	Heptachlor	8	0.20	U
D031	Heptachlor epoxide	8	0.20	U
D014	Methoxychlor	10000	0.20	U
D015	Toxaphene	500	8.0	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682403
ent Sample ID: LSVIWC04WWAC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (UG/L)	Result (UG/L)	Q
D013	gamma-BHC (Lindane)	400	0.20	U
D020	Chlordane	30	2.0	U
D012	Endrin	20	0.20	U
D031	Heptachlor	8	0.20	U
D031	Heptachlor epoxide	8	0.20	U
D014	Methoxychlor	10000	0.20	U
D015	Toxaphene	500	8.0	U

[redacted] Laboratory [redacted] Manufactured Gas Plant [redacted]

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682404
ent Sample ID: LSVIWC48WWAC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (UG/L)	Result (UG/L)	Q
D013	gamma-BHC (Lindane)	400	0.25	U
D020	Chlordane	30	2.5	U
D012	Endrin	20	0.25	U
D031	Heptachlor	8	0.25	U
D031	Heptachlor epoxide	8	0.25	U
D014	Methoxychlor	10000	0.25	U
D015	Toxaphene	500	10	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682405
ent Sample ID: LSVIWC0408BC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (UG/L)	Result (UG/L)	Q
D013	gamma-BHC (Lindane)	400	0.20	U
D020	Chlordane	30	2.0	U
D012	Endrin	20	0.20	U
D031	Heptachlor	8	0.20	U
D031	Heptachlor epoxide	8	0.20	U
D014	Methoxychlor	10000	0.20	U
D015	Toxaphene	500	8.0	U

[redacted] Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682406
ent Sample ID: LSVIWC4808BC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (UG/L)	Result (UG/L)	Q
D013	gamma-BHC (Lindane)	400	0.20	U
D020	Chlordane	30	2.0	U
D012	Endrin	20	0.20	U
D031	Heptachlor	8	0.20	U
D031	Heptachlor epoxide	8	0.20	U
D014	Methoxychlor	10000	0.20	U
D015	Toxaphene	500	8.0	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682408
ent Sample ID: LSVIWC0502C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (UG/L)	Result (UG/L)	Q
D013	gamma-BHC (Lindane)	400	0.20	U
D020	Chlordane	30	2.0	U
D012	Endrin	20	0.20	U
D031	Heptachlor	8	0.20	U
D031	Heptachlor epoxide	8	0.20	U
D014	Methoxychlor	10000	0.20	U
D015	Toxaphene	500	8.0	U

[redacted] Lockport [redacted] Road [redacted] [redacted] [redacted] [redacted]

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682409
ent Sample ID: LSVIWC0503C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (UG/L)	Result (UG/L)	Q
D013	gamma-BHC (Lindane)	400	0.20	U
D020	Chlordane	30	2.0	U
D012	Endrin	20	0.20	U
D031	Heptachlor	8	0.20	U
D031	Heptachlor epoxide	8	0.20	U
D014	Methoxychlor	10000	0.20	U
D015	Toxaphene	500	8.0	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682410
ent Sample ID: LSVIWC0504C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (UG/L)	Result (UG/L)	Q
D013	gamma-BHC (Lindane)	400	0.20	U
D020	Chlordane	30	2.0	U
D012	Endrin	20	0.20	U
D031	Heptachlor	8	0.20	U
D031	Heptachlor epoxide	8	0.20	U
D014	Methoxychlor	10000	0.20	U
D015	Toxaphene	500	8.0	U

[redacted] Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

ɔratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682411
ɛnt Sample ID: LSVIWC0507C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (UG/L)	Result (UG/L)	Q
D013	gamma-BHC (Lindane)	400	0.20	U
D020	Chlordane	30	2.0	U
D012	Endrin	20	0.20	U
D031	Heptachlor	8	0.20	U
D031	Heptachlor epoxide	8	0.20	U
D014	Methoxychlor	10000	0.20	U
D015	Toxaphene	500	8.0	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682412
ent Sample ID: LSVIWC020A1C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (UG/L)	Result (UG/L)	Q
D013	gamma-BHC (Lindane)	400	0.20	U
D020	Chlordane	30	2.0	U
D012	Endrin	20	0.20	U
D031	Heptachlor	8	0.20	U
D031	Heptachlor epoxide	8	0.20	U
D014	Methoxychlor	10000	0.20	U
D015	Toxaphene	500	8.0	U

[redacted] Lo[redacted]port [redacted]ate [redacted]pad [redacted]rm [redacted]an[redacted]ctu[redacted] C[redacted]la[redacted]

Toxicity Characteristic Leaching Procedure

ɔratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682413
ɛnt Sample ID: LSVIWC2023A1G
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (UG/L)	Result (UG/L)	Q
D013	gamma-BHC (Lindane)	400	0.20	U
D020	Chlordane	30	2.0	U
D012	Endrin	20	0.20	U
D031	Heptachlor	8	0.20	U
D031	Heptachlor epoxide	8	0.20	U
D014	Methoxychlor	10000	0.20	U
D015	Toxaphene	500	8.0	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682414
ent Sample ID: LSVIWC0401C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (UG/L)	Result (UG/L)	Q
D013	gamma-BHC (Lindane)	400	0.20	U
D020	Chlordane	30	2.0	U
D012	Endrin	20	0.20	U
D031	Heptachlor	8	0.20	U
D031	Heptachlor epoxide	8	0.20	U
D014	Methoxychlor	10000	0.20	U
D015	Toxaphene	500	8.0	U

[redacted] Laboratory Data Report Form — Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

ɔratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682415
ɜnt Sample ID: LSVIWCBB05AC
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (UG/L)	Result (UG/L)	Q
D013	gamma-BHC (Lindane)	400	0.20	U
D020	Chlordane	30	2.0	U
D012	Endrin	20	0.20	U
D031	Heptachlor	8	0.20	U
D031	Heptachlor epoxide	8	0.20	U
D014	Methoxychlor	10000	0.20	U
D015	Toxaphene	500	8.0	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure

oratory: STL Buffalo - RECNY
Job No: A00-6824
Sample ID: A0682416
ent Sample ID: LSVIWCSS06C
No: 08TCLP

EPA HW Number	Parameter	Regulatory Level (UG/L)	Result (UG/L)	Q
D013	gamma-BHC (Lindane)	400	0.20	U
D020	Chlordane	30	2.0	U
D012	Endrin	20	0.20	U
D031	Heptachlor	8	0.20	U
D031	Heptachlor epoxide	8	0.20	U
D014	Methoxychlor	10000	0.20	U
D015	Toxaphene	500	8.0	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure
TOTAL METALS

Laboratory: STL Buffalo - RECNY
Lab Job No: A00-6824
Lab Sample ID: A0682401
Client Sample ID: LSVIWC04WWC
SDG No: 08TCLP

Matrix: Soil: Leachate
Sample Date: 09/26/2000
Dilution Factor: 1

EPA HW Number	Parameter	Method	Digestion Date	Analysis Date	Regulatory Level (MG/L)	RL	Result (MG/L)	Q
D004	Arsenic - Total	6010	10/07/2000	10/13/2000	5.0000	0.0070	0.0099	
D005	Barium - Total	6010	10/07/2000	10/13/2000	100.0000	0.0010	0.96	
D006	Cadmium - Total	6010	10/07/2000	10/13/2000	1.0000	0.0010	0.0021	
D007	Chromium - Total	6010	10/07/2000	10/13/2000	5.0000	0.0020	0.0021	
D008	Lead - Total	6010	10/07/2000	10/13/2000	5.0000	0.010	0.010	U
D009	Mercury - Total	7470	10/10/2000	10/10/2000	0.2000	0.00020	0.00020	U
D010	Selenium - Total	6010	10/07/2000	10/13/2000	1.0000	0.010	0.010	U
D011	Silver - Total	6010	10/07/2000	10/13/2000	5.0000	0.0030	0.0030	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure
TOTAL METALS

Laboratory: STL Buffalo - RECNY
Lab Job No: A00-6824
Lab Sample ID: A0682401MD
Client Sample ID: LSVIWC04WWC
SDG No: 08TCLP

Matrix: Soil: Leachate
Sample Date: 09/26/2000
Dilution Factor: 1

EPA HW Number	Parameter	Method	Digestion Date	Analysis Date	Regulatory Level (MG/L)	RL	Result (MG/L)	Q
D004	Arsenic - Total	6010	10/07/2000	10/13/2000	5.0000	0.0070	0.0070	U
D005	Barium - Total	6010	10/07/2000	10/13/2000	100.0000	0.0010	0.99	
D006	Cadmium - Total	6010	10/07/2000	10/13/2000	1.0000	0.0010	0.0014	
D007	Chromium - Total	6010	10/07/2000	10/13/2000	5.0000	0.0020	0.0020	
D008	Lead - Total	6010	10/07/2000	10/13/2000	5.0000	0.010	0.010	U
D010	Selenium - Total	6010	10/07/2000	10/13/2000	1.0000	0.010	0.010	U
D011	Silver - Total	6010	10/07/2000	10/13/2000	5.0000	0.0030	0.0030	U

Matrix duplicate

000003

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure
TOTAL METALS

Laboratory: STL Buffalo - RECNY
Lab Job No: A00-6824
Lab Sample ID: A0682402
Client Sample ID: LSVIWC0408AC
SDG No: 08TCLP

Matrix: Soil: Leachate
Sample Date: 09/25/2000
Dilution Factor: 1

EPA HW Number	Parameter	Method	Digestion Date	Analysis Date	Regulatory Level (MG/L)	RL	Result (MG/L)	Q
D004	Arsenic - Total	6010	10/07/2000	10/13/2000	5.0000	0.0070	0.0070	U
D005	Barium - Total	6010	10/07/2000	10/13/2000	100.0000	0.0010	1.2	
D006	Cadmium - Total	6010	10/07/2000	10/13/2000	1.0000	0.0010	0.0030	
D007	Chromium - Total	6010	10/07/2000	10/13/2000	5.0000	0.0020	0.0038	
D008	Lead - Total	6010	10/07/2000	10/13/2000	5.0000	0.010	0.041	
D009	Mercury - Total	7470	10/10/2000	10/10/2000	0.2000	0.00020	0.00024	
D010	Selenium - Total	6010	10/07/2000	10/13/2000	1.0000	0.010	0.010	U
D011	Silver - Total	6010	10/07/2000	10/13/2000	5.0000	0.0030	0.0036	

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure
TOTAL METALS

Laboratory: STL Buffalo - RECNY
Lab Job No: A00-6824
Lab Sample ID: A0682403
Client Sample ID: LSVIWC04WWAC
SDG No: 08TCLP

Matrix: Soil: Leachate
Sample Date: 09/25/2000
Dilution Factor: 1

EPA HW Number	Parameter	Method	Digestion Date	Analysis Date	Regulatory Level (MG/L)	RL	Result (MG/L)	Q
D004	Arsenic - Total	6010	10/07/2000	10/13/2000	5.0000	0.0070	0.0070	U
D005	Barium - Total	6010	10/07/2000	10/13/2000	100.0000	0.0010	0.95	
D006	Cadmium - Total	6010	10/07/2000	10/13/2000	1.0000	0.0010	0.0016	
D007	Chromium - Total	6010	10/07/2000	10/13/2000	5.0000	0.0020	0.0030	
D008	Lead - Total	6010	10/07/2000	10/13/2000	5.0000	0.010	0.010	U
D009	Mercury - Total	7470	10/10/2000	10/10/2000	0.2000	0.00020	0.00020	U
D010	Selenium - Total	6010	10/07/2000	10/13/2000	1.0000	0.010	0.010	U
D011	Silver - Total	6010	10/07/2000	10/13/2000	5.0000	0.0030	0.0030	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure
TOTAL METALS

Laboratory: STL Buffalo - RECNY
Lab Job No: A00-6824
Lab Sample ID: A0682404
Client Sample ID: LSVIWC48WWAC
SDG No: 08TCLP

Matrix: Soil: Leachate
Sample Date: 09/25/2000
Dilution Factor: 1

EPA HW Number	Parameter	Method	Digestion Date	Analysis Date	Regulatory Level (MG/L)	RL	Result (MG/L)	Q
D004	Arsenic - Total	6010	10/07/2000	10/13/2000	5.0000	0.0070	0.0070	U
D005	Barium - Total	6010	10/07/2000	10/13/2000	100.0000	0.0010	0.82	
D006	Cadmium - Total	6010	10/07/2000	10/13/2000	1.0000	0.0010	0.0010	U
D007	Chromium - Total	6010	10/07/2000	10/13/2000	5.0000	0.0020	0.0020	U
D008	Lead - Total	6010	10/07/2000	10/13/2000	5.0000	0.010	0.010	U
D009	Mercury - Total	7470	10/10/2000	10/10/2000	0.2000	0.00020	0.00020	U
D010	Selenium - Total	6010	10/07/2000	10/13/2000	1.0000	0.010	0.010	U
D011	Silver - Total	6010	10/07/2000	10/13/2000	5.0000	0.0030	0.0030	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure
TOTAL METALS

Laboratory: STL Buffalo - RECNY
Lab Job No: A00-6824
Lab Sample ID: A0682405
Client Sample ID: LSVIWC0408BC
SDG No: 08TCLP

Matrix: Soil: Leachate
Sample Date: 09/25/2000
Dilution Factor: 1

EPA HW Number	Parameter	Method	Digestion Date	Analysis Date	Regulatory Level (MG/L)	RL	Result (MG/L)	Q
D004	Arsenic - Total	6010	10/07/2000	10/13/2000	5.0000	0.0070	0.0070	U
D005	Barium - Total	6010	10/07/2000	10/13/2000	100.0000	0.0010	0.59	
D006	Cadmium - Total	6010	10/07/2000	10/13/2000	1.0000	0.0010	0.0019	
D007	Chromium - Total	6010	10/07/2000	10/13/2000	5.0000	0.0020	0.0020	U
D008	Lead - Total	6010	10/07/2000	10/13/2000	5.0000	0.010	0.25	
D009	Mercury - Total	7470	10/10/2000	10/10/2000	0.2000	0.00020	0.00022	
D010	Selenium - Total	6010	10/07/2000	10/13/2000	1.0000	0.010	0.010	U
D011	Silver - Total	6010	10/07/2000	10/13/2000	5.0000	0.0030	0.0030	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure
TOTAL METALS

Laboratory: STL Buffalo - RECNY
Lab Job No: A00-6824
Lab Sample ID: A0682406
Client Sample ID: LSVIWC4808BC
SDG No: 08TCLP

Matrix: Soil: Leachate
Sample Date: 09/25/2000
Dilution Factor: 1

EPA HW Number	Parameter	Method	Digestion Date	Analysis Date	Regulatory Level (MG/L)	RL	Result (MG/L)	Q
D004	Arsenic - Total	6010	10/07/2000	10/13/2000	5.0000	0.0070	0.0070	U
D005	Barium - Total	6010	10/07/2000	10/13/2000	100.0000	0.0010	0.40	
D006	Cadmium - Total	6010	10/07/2000	10/13/2000	1.0000	0.0010	0.0014	
D007	Chromium - Total	6010	10/07/2000	10/13/2000	5.0000	0.0020	0.0025	
D008	Lead - Total	6010	10/07/2000	10/13/2000	5.0000	0.010	0.017	
D009	Mercury - Total	7470	10/10/2000	10/10/2000	0.2000	0.00020	0.00020	U
D010	Selenium - Total	6010	10/07/2000	10/13/2000	1.0000	0.010	0.010	U
D011	Silver - Total	6010	10/07/2000	10/13/2000	5.0000	0.0030	0.0030	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure
TOTAL METALS

Laboratory: STL Buffalo - RECNY
Lab Job No: A00-6824
Lab Sample ID: A0682408
Client Sample ID: LSVIWC0502C
SDG No: 08TCLP

Matrix: Soil: Leachate
Sample Date: 09/25/2000
Dilution Factor: 1

EPA HW Number	Parameter	Method	Digestion Date	Analysis Date	Regulatory Level (MG/L)	RL	Result (MG/L)	Q
D004	Arsenic - Total	6010	10/07/2000	10/13/2000	5.0000	0.0070	0.0070	U
D005	Barium - Total	6010	10/07/2000	10/13/2000	100.0000	0.0010	1.0	
D006	Cadmium - Total	6010	10/07/2000	10/13/2000	1.0000	0.0010	0.0010	U
D007	Chromium - Total	6010	10/07/2000	10/13/2000	5.0000	0.0020	0.0020	U
D008	Lead - Total	6010	10/07/2000	10/13/2000	5.0000	0.010	0.011	
D009	Mercury - Total	7470	10/10/2000	10/10/2000	0.2000	0.00020	0.00020	U
D010	Selenium - Total	6010	10/07/2000	10/13/2000	1.0000	0.010	0.010	U
D011	Silver - Total	6010	10/07/2000	10/13/2000	5.0000	0.0030	0.0030	U

000032

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure
TOTAL METALS

Laboratory: STL Buffalo - RECNY
Lab Job No: A00-6824
Lab Sample ID: A0682409
Client Sample ID: LSVIWC0503C
SDG No: 08TCLP

Matrix: Soil: Leachate
Sample Date: 09/25/2000
Dilution Factor: 1

EPA HW Number	Parameter	Method	Digestion Date	Analysis Date	Regulatory Level (MG/L)	RL	Result (MG/L)	Q
D004	Arsenic - Total	6010	10/07/2000	10/13/2000	5.0000	0.0070	0.0070	U
D005	Barium - Total	6010	10/07/2000	10/13/2000	100.0000	0.0010	1.0	
D006	Cadmium - Total	6010	10/07/2000	10/13/2000	1.0000	0.0010	0.0010	
D007	Chromium - Total	6010	10/07/2000	10/13/2000	5.0000	0.0020	0.0029	
D008	Lead - Total	6010	10/07/2000	10/13/2000	5.0000	0.010	0.010	U
D009	Mercury - Total	7470	10/10/2000	10/10/2000	0.2000	0.00020	0.00074	
D010	Selenium - Total	6010	10/07/2000	10/13/2000	1.0000	0.010	0.010	U
D011	Silver - Total	6010	10/07/2000	10/13/2000	5.0000	0.0030	0.0030	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure
TOTAL METALS

Laboratory: STL Buffalo - RECNY
Lab Job No: A00-6824
Lab Sample ID: A0682410
Client Sample ID: LSVIWC0504C
SDG No: 08TCLP

Matrix: Soil: Leachate
Sample Date: 09/25/2000
Dilution Factor: 1

EPA HW Number	Parameter	Method	Digestion Date	Analysis Date	Regulatory Level (MG/L)	RL	Result (MG/L)	Q
D004	Arsenic - Total	6010	10/07/2000	10/13/2000	5.0000	0.0070	0.0070	U
D005	Barium - Total	6010	10/07/2000	10/13/2000	100.0000	0.0010	1.4	
D006	Cadmium - Total	6010	10/07/2000	10/13/2000	1.0000	0.0010	0.0010	U
D007	Chromium - Total	6010	10/07/2000	10/13/2000	5.0000	0.0020	0.0020	U
D008	Lead - Total	6010	10/07/2000	10/13/2000	5.0000	0.010	0.025	
D009	Mercury - Total	7470	10/10/2000	10/10/2000	0.2000	0.00020	0.00020	U
D010	Selenium - Total	6010	10/07/2000	10/13/2000	1.0000	0.010	0.010	U
D011	Silver - Total	6010	10/07/2000	10/13/2000	5.0000	0.0030	0.0030	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure
TOTAL METALS

Laboratory: STL Buffalo - RECNY
Lab Job No: A00-6824
Lab Sample ID: A0682411
Client Sample ID: LSVIWC0507C
SDG No: 08TCLP

Matrix: Soil: Leachate
Sample Date: 09/25/2000
Dilution Factor: 1

EPA HW Number	Parameter	Method	Digestion Date	Analysis Date	Regulatory Level (MG/L)	RL	Result (MG/L)	Q
D004	Arsenic - Total	6010	10/07/2000	10/13/2000	5.0000	0.0070	0.0070	U
D005	Barium - Total	6010	10/07/2000	10/13/2000	100.0000	0.0010	1.0	
D006	Cadmium - Total	6010	10/07/2000	10/13/2000	1.0000	0.0010	0.0022	
D007	Chromium - Total	6010	10/07/2000	10/13/2000	5.0000	0.0020	0.0020	U
D008	Lead - Total	6010	10/07/2000	10/13/2000	5.0000	0.010	0.027	
D009	Mercury - Total	7470	10/10/2000	10/10/2000	0.2000	0.00020	0.00020	U
D010	Selenium - Total	6010	10/07/2000	10/13/2000	1.0000	0.010	0.010	U
D011	Silver - Total	6010	10/07/2000	10/13/2000	5.0000	0.0030	0.0030	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure
TOTAL METALS

Laboratory: STL Buffalo - RECNY
Lab Job No: A00-6824
Lab Sample ID: A0682412
Client Sample ID: LSVIWC020A1C
SDG No: 08TCLP

Matrix: Soil: Leachate
Sample Date: 09/26/2000
Dilution Factor: 1

EPA HW Number	Parameter	Method	Digestion Date	Analysis Date	Regulatory Level (MG/L)	RL	Result (MG/L)	Q
D004	Arsenic - Total	6010	10/07/2000	10/13/2000	5.0000	0.0070	0.0070	U
D005	Barium - Total	6010	10/07/2000	10/13/2000	100.0000	0.0010	0.72	
D006	Cadmium - Total	6010	10/07/2000	10/13/2000	1.0000	0.0010	0.0010	U
D007	Chromium - Total	6010	10/07/2000	10/13/2000	5.0000	0.0020	0.0024	
D008	Lead - Total	6010	10/07/2000	10/13/2000	5.0000	0.010	0.010	U
D009	Mercury - Total	7470	10/10/2000	10/10/2000	0.2000	0.00020	0.00070	
D010	Selenium - Total	6010	10/07/2000	10/13/2000	1.0000	0.010	0.010	U
D011	Silver - Total	6010	10/07/2000	10/13/2000	5.0000	0.0030	0.0030	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure
TOTAL METALS

Laboratory: STL Buffalo - RECNY
Lab Job No: A00-6824
Lab Sample ID: A0682413
Client Sample ID: LSVIWC2023A1G
SDG No: 08TCLP

Matrix: Soil: Leachate
Sample Date: 09/26/2000
Dilution Factor: 1

EPA HW Number	Parameter	Method	Digestion Date	Analysis Date	Regulatory Level (MG/L)	RL	Result (MG/L)	Q
D004	Arsenic - Total	6010	10/07/2000	10/13/2000	5.0000	0.0070	0.0070	U
D005	Barium - Total	6010	10/07/2000	10/13/2000	100.0000	0.0010	1.4	
D006	Cadmium - Total	6010	10/07/2000	10/13/2000	1.0000	0.0010	0.0013	
D007	Chromium - Total	6010	10/07/2000	10/13/2000	5.0000	0.0020	0.0036	
D008	Lead - Total	6010	10/07/2000	10/13/2000	5.0000	0.010	0.010	U
D009	Mercury - Total	7470	10/10/2000	10/10/2000	0.2000	0.00020	0.00026	
D010	Selenium - Total	6010	10/07/2000	10/13/2000	1.0000	0.010	0.010	U
D011	Silver - Total	6010	10/07/2000	10/13/2000	5.0000	0.0030	0.0031	

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure
TOTAL METALS

Laboratory: STL Buffalo - RECNY
Lab Job No: A00-6824
Lab Sample ID: A0682414
Client Sample ID: LSVIWC0401C
SDG No: 08TCLP

Matrix: Soil: Leachate
Sample Date: 09/26/2000
Dilution Factor: 1

EPA HW Number	Parameter	Method	Digestion Date	Analysis Date	Regulatory Level (MG/L)	RL	Result (MG/L)	Q
D004	Arsenic - Total	6010	10/07/2000	10/13/2000	5.0000	0.0070	0.0070	U
D005	Barium - Total	6010	10/07/2000	10/13/2000	100.0000	0.0010	1.3	
D006	Cadmium - Total	6010	10/07/2000	10/13/2000	1.0000	0.0010	0.0028	
D007	Chromium - Total	6010	10/07/2000	10/13/2000	5.0000	0.0020	0.0020	U
D008	Lead - Total	6010	10/07/2000	10/13/2000	5.0000	0.010	0.011	
D009	Mercury - Total	7470	10/10/2000	10/10/2000	0.2000	0.00020	0.00020	U
D010	Selenium - Total	6010	10/07/2000	10/13/2000	1.0000	0.010	0.010	U
D011	Silver - Total	6010	10/07/2000	10/13/2000	5.0000	0.0030	0.0030	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure
TOTAL METALS

Laboratory: STL Buffalo - RECNY
Lab Job No: A00-6824
Lab Sample ID: A0682415
Client Sample ID: LSVIWCBB05AC
SDG No: 08TCLP

Matrix: Soil: Leachate
Sample Date: 09/26/2000
Dilution Factor: 1

EPA HW Number	Parameter	Method	Digestion Date	Analysis Date	Regulatory Level (MG/L)	RL	Result (MG/L)	Q
D004	Arsenic - Total	6010	10/07/2000	10/13/2000	5.0000	0.0070	0.0070	U
D005	Barium - Total	6010	10/07/2000	10/13/2000	100.0000	0.0010	0.86	
D006	Cadmium - Total	6010	10/07/2000	10/13/2000	1.0000	0.0010	0.0010	U
D007	Chromium - Total	6010	10/07/2000	10/13/2000	5.0000	0.0020	0.0020	U
D008	Lead - Total	6010	10/07/2000	10/13/2000	5.0000	0.010	0.18	
D009	Mercury - Total	7470	10/10/2000	10/10/2000	0.2000	0.00020	0.00020	U
D010	Selenium - Total	6010	10/07/2000	10/13/2000	1.0000	0.010	0.010	U
D011	Silver - Total	6010	10/07/2000	10/13/2000	5.0000	0.0030	0.0030	U

Lockport State Road Former Manufactured Gas Plant

Toxicity Characteristic Leaching Procedure
TOTAL METALS

Laboratory: STL Buffalo - RECNY
Lab Job No: A00-6824
Lab Sample ID: A0682416
Client Sample ID: LSVIWCSS06C
SDG No: 08TCLP

Matrix: Soil: Leachate
Sample Date: 09/26/2000
Dilution Factor: 1

EPA HW Number	Parameter	Method	Digestion Date	Analysis Date	Regulatory Level (MG/L)	RL	Result (MG/L)	Q
D004	Arsenic - Total	6010	10/07/2000	10/13/2000	5.0000	0.0070	0.0070	U
D005	Barium - Total	6010	10/07/2000	10/13/2000	100.0000	0.0010	0.78	
D006	Cadmium - Total	6010	10/07/2000	10/13/2000	1.0000	0.0010	0.0015	
D007	Chromium - Total	6010	10/07/2000	10/13/2000	5.0000	0.0020	0.0020	U
D008	Lead - Total	6010	10/07/2000	10/13/2000	5.0000	0.010	0.010	U
D009	Mercury - Total	7470	10/10/2000	10/10/2000	0.2000	0.00020	0.00020	U
D010	Selenium - Total	6010	10/07/2000	10/13/2000	1.0000	0.010	0.010	U
D011	Silver - Total	6010	10/07/2000	10/13/2000	5.0000	0.0030	0.0030	U

SEVERN TRENT SERVICES

STL Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Tel: 716.691 2600
Fax: 716 691 7991
www.stl-inc.com

October 18, 2000

Mr. John Ruspantini
NYSEG - Corporate Drive
Kirkwood Industrial Park
Binghamton, NY 13902-5224

RE: Analytical Results

Dear Mr. Ruspantini:

Please find enclosed analytical results concerning the samples recently submitted by your firm. The pertinent information regarding these analyses is listed below:

Project:	NYSEG - Lockport State Road Former MGP
Matrix:	Soil
Samples Received:	09/26/00
Sample Date:	09/26/00

If you have any questions concerning this data, please contact me at (716) 691-2600 and refer to the I.D. number listed below. It has been our pleasure to provide New York State Electric & Gas with environmental testing services. We look forward to serving you in the future.

Sincerely,

STL Buffalo

Kenneth P. Kinecki
Program Manager

KPK/klc
Enclosure

I.D.#A00-6828
#NY0A8576

This report contains 41 pages which are individually numbered

SEVERN TRENT SERVICES

STL Buffalo

ANALYTICAL RESULTS

Prepared for:

New York State Electric & Gas
Kirkwood Industrial Park
Binghamton, NY 13902-5224

Prepared by:

STL Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228-2298

METHODOLOGY

The specific methodologies employed in obtaining the enclosed analytical results are indicated on the specific data tables. The method numbers presented refer to the following U.S. Environmental Protection Agency references:

- "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW-846), Third Edition, Update III, December 1996, United States Environmental Protection Agency Office of Solid Waste.
- Annual Book of ASTM Standards, American Society for Testing and Materials, 1991.

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed data has been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

The coolers were received at temperatures of 4°C.

Sample LSVIWC81208BC was listed on the Chain of Custody, however, no volume was received.

METHOD 8082

Samples LSVIWC04WWAC and LSVIWC48WWAC were analyzed at dilution factors of 5 due to elevated concentrations of Aroclor 1248.

Samples LSVIWC0408BC, LSVIWC0408BC MS and LSVIWC0408BC SD exhibited percent recoveries for the surrogate, Decachlorobiphenyl, which were above quality control limits, suggesting matrix interference. The recoveries for Tetrachloro-m-xylene were within set limits.

No other deviations from protocol that affected the acceptability of the analytical results were encountered during the analytical procedures.

WET CHEMISTRY

The Laboratory Control Sample (A0B0804101) exhibited low recoveries for H2S Released From Waste and HCN Released From Waste.

No other deviations from protocol that affected the acceptability of the analytical results were encountered during the analytical procedures.

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TiC is a suspected aldol-condensation product.
1	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995

000005

Sample ID: LSVIWC020A1C
Sample ID: A0682811
Date Collected: 09/26/2000
Time Collected: 10:36

Date Received: 09/26/2000
Project No: NY0A8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
NYSEG-SOIL-SW8463 8082 - PCBS							
Aroclor 1016	ND		18	UG/KG	8082	10/03/2000 21:28	NH
Aroclor 1221	ND		18	UG/KG	8082	10/03/2000 21:28	NH
Aroclor 1232	ND		18	UG/KG	8082	10/03/2000 21:28	NH
Aroclor 1242	ND		18	UG/KG	8082	10/03/2000 21:28	NH
Aroclor 1248	ND		18	UG/KG	8082	10/03/2000 21:28	NH
Aroclor 1254	ND		18	UG/KG	8082	10/03/2000 21:28	NH
Aroclor 1260	ND		18	UG/KG	8082	10/03/2000 21:28	NH
Wet Chemistry Analysis							
Dry Weight	95.0		0	%	D2216-90	10/16/2000 22:15	TB
Flashpoint	>200		0	F	1010	10/09/2000 18:40	RM
H2S Released From Waste	ND		0	MG/KG	SECT7.3	10/11/2000 18:30	JS
HCN Released From Waste	ND		0	MG/KG	SECT7.3	10/11/2000 18:30	JS
Leachable pH	8.4		0	S.U.	9045	10/06/2000	BC

Sample ID: LSVIWC0401C
Lab Sample ID: A0682813
Date Collected: 09/26/2000
Time Collected: 12:23

Date Received: 09/26/2000
Project No: NY0A8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analys
NYSEG-SOIL-SW8463 8082 - PCBS							
Aroclor 1016	ND		17	UG/KG	8082	10/03/2000 23:07	NH
Aroclor 1221	ND		17	UG/KG	8082	10/03/2000 23:07	NH
Aroclor 1232	ND		17	UG/KG	8082	10/03/2000 23:07	NH
Aroclor 1242	ND		17	UG/KG	8082	10/03/2000 23:07	NH
Aroclor 1248	ND		17	UG/KG	8082	10/03/2000 23:07	NH
Aroclor 1254	ND		17	UG/KG	8082	10/03/2000 23:07	NH
Aroclor 1260	ND		17	UG/KG	8082	10/03/2000 23:07	NH
Wet Chemistry Analysis							
Dry Weight	90.0		0	%	D2216-90	10/16/2000 22:15	TB
Flashpoint	>200		0	F	1010	10/09/2000 18:40	RM
H2S Released From Waste	ND		0	MG/KG	SECT7.3	10/13/2000 20:10	JS
HCN Released From Waste	ND		0	MG/KG	SECT7.3	10/13/2000 20:10	JS
Leachable pH	7.8		0	S.U.	9045	10/06/2000	BC

Sample ID: LSVIWC0408AC
Sample ID: A0682802
Date Collected: 09/25/2000
Time Collected: 14:30

Date Received: 09/26/2000
Project No: NY0A8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
NYSEG-SOIL-SW8463 8082 - PCBS							
Aroclor 1016	ND		24	UG/KG	8082	10/03/2000 16:56	NH
Aroclor 1221	ND		24	UG/KG	8082	10/03/2000 16:56	NH
Aroclor 1232	ND		24	UG/KG	8082	10/03/2000 16:56	NH
Aroclor 1242	ND		24	UG/KG	8082	10/03/2000 16:56	NH
Aroclor 1248	ND		24	UG/KG	8082	10/03/2000 16:56	NH
Aroclor 1254	38		24	UG/KG	8082	10/03/2000 16:56	NH
Aroclor 1260	ND		24	UG/KG	8082	10/03/2000 16:56	NH
Wet Chemistry Analysis							
Dry Weight	88.6		0	%	D2216-90	10/16/2000 22:15	TB
Flashpoint	>200		0	F	1010	10/02/2000 21:45	RM
H2S Released From Waste	ND		0	MG/KG	SECT7.3	10/06/2000 20:05	JS
HCN Released From Waste	ND		0	MG/KG	SECT7.3	10/06/2000 20:05	JS
Leachable pH	7.9		0	S.U.	9045	10/02/2000	RM

Sample ID: LSVIWC0408BC
Lab Sample ID: A0682805
Date Collected: 09/25/2000
Time Collected: 16:00

Date Received: 09/26/2000
Project No: NYOA8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analy
NYSEG-SOIL-SW8463 8082 - PCBS							
Aroclor 1016	ND		19	UG/KG	8082	10/03/2000 18:10	NH
Aroclor 1221	ND		19	UG/KG	8082	10/03/2000 18:10	NH
Aroclor 1232	ND		19	UG/KG	8082	10/03/2000 18:10	NH
Aroclor 1242	ND		19	UG/KG	8082	10/03/2000 18:10	NH
Aroclor 1248	ND		19	UG/KG	8082	10/03/2000 18:10	NH
Aroclor 1254	ND		19	UG/KG	8082	10/03/2000 18:10	NH
Aroclor 1260	ND		19	UG/KG	8082	10/03/2000 18:10	NH
Wet Chemistry Analysis							
Dry Weight	92.8		0	%	D2216-90	10/16/2000 22:15	TB
Flashpoint	>200		0	F	1010	10/02/2000 21:45	RM
H2S Released From Waste	10.6		0	MG/KG	SECT7.3	10/06/2000 20:05	JS
HCN Released From Waste	ND		0	MG/KG	SECT7.3	10/06/2000 20:05	JS
Leachable pH	7.9		0	S.U.	9045	10/02/2000	RM

Sample ID: LSVIWC04WWAC
Sample ID: A0682803
Date Collected: 09/25/2000
Time Collected: 16:45

Date Received: 09/26/2000
Project No: NY0A8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
NYSEG-SOIL-SW8463 8082 - PCBS							
Aroclor 1016	ND		98	UG/KG	8082	10/03/2000 17:21	NH
Aroclor 1221	ND		98	UG/KG	8082	10/03/2000 17:21	NH
Aroclor 1232	ND		98	UG/KG	8082	10/03/2000 17:21	NH
Aroclor 1242	ND		98	UG/KG	8082	10/03/2000 17:21	NH
Aroclor 1248	860		98	UG/KG	8082	10/03/2000 17:21	NH
Aroclor 1254	ND		98	UG/KG	8082	10/03/2000 17:21	NH
Aroclor 1260	ND		98	UG/KG	8082	10/03/2000 17:21	NH
Wet Chemistry Analysis							
Dry Weight	84.2		0	%	D2216-90	10/16/2000 22:15	TB
Flashpoint	>200		0	F	1010	10/02/2000 21:45	RM
H2S Released From Waste	ND		0	MG/KG	SECT7.3	10/06/2000 20:05	JS
HCN Released From Waste	ND		0	MG/KG	SECT7.3	10/06/2000 20:05	JS
Leachable pH	7.9		0	S.U.	9045	10/02/2000	RM

Sample ID: LSVIWC04WWC
Lab Sample ID: A0682801
Date Collected: 09/26/2000
Time Collected: 11:30

Date Received: 09/26/2000
Project No: NY0A8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
NYSEG-SOIL-SW8463 8082 - PCBS							
Aroclor 1016	ND		23	UG/KG	8082	10/03/2000 15:42	NH
Aroclor 1221	ND		23	UG/KG	8082	10/03/2000 15:42	NH
Aroclor 1232	ND		23	UG/KG	8082	10/03/2000 15:42	NH
Aroclor 1242	ND		23	UG/KG	8082	10/03/2000 15:42	NH
Aroclor 1248	ND		23	UG/KG	8082	10/03/2000 15:42	NH
Aroclor 1254	41		23	UG/KG	8082	10/03/2000 15:42	NH
Aroclor 1260	ND		23	UG/KG	8082	10/03/2000 15:42	NH
Wet Chemistry Analysis							
Dry Weight	83.7		0	%	D2216-90	10/16/2000 22:15	TB
Flashpoint	>200		0	F	1010	10/09/2000 18:40	RM
H2S Released From Waste	ND		0	MG/KG	SECT7.3	10/06/2000 20:05	JS
HCN Released From Waste	ND		0	MG/KG	SECT7.3	10/06/2000 20:05	JS
Leachable pH	7.5		0	S.U.	9045	10/02/2000	RM

000011

Sample ID: LSVIWC0502C
Sample ID: A0682807
Date Collected: 09/25/2000
Time Collected: 14:35

Date Received: 09/26/2000
Project No: NY0A8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
NYSEG-SOIL-SW8463 8082 - PCBS							
Aroclor 1016	ND		18	UG/KG	8082	10/03/2000 19:49	NH
Aroclor 1221	ND		18	UG/KG	8082	10/03/2000 19:49	NH
Aroclor 1232	ND		18	UG/KG	8082	10/03/2000 19:49	NH
Aroclor 1242	ND		18	UG/KG	8082	10/03/2000 19:49	NH
Aroclor 1248	ND		18	UG/KG	8082	10/03/2000 19:49	NH
Aroclor 1254	ND		18	UG/KG	8082	10/03/2000 19:49	NH
Aroclor 1260	ND		18	UG/KG	8082	10/03/2000 19:49	NH
Wet Chemistry Analysis							
Dry Weight	92.3		0	%	D2216-90	10/16/2000 22:15	TB
Flashpoint	>200		0	F	1010	10/02/2000 21:45	RM
H2S Released From Waste	ND		0	MG/KG	SECT7.3	10/11/2000 18:30	JS
HCN Released From Waste	ND		0	MG/KG	SECT7.3	10/11/2000 18:30	JS
Leachable pH	9.2		0	S.U.	9045	10/06/2000	BC

Sample ID: LSVIWC0503C
Lab Sample ID: A0682808
Date Collected: 09/25/2000
Time Collected: 15:05

Date Received: 09/26/2000
Project No: NYOA8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analy
NYSEG-SOIL-SW8463 8082 - PCBS							
Aroclor 1016	ND		17	UG/KG	8082	10/03/2000 20:14	NH
Aroclor 1221	ND		17	UG/KG	8082	10/03/2000 20:14	NH
Aroclor 1232	ND		17	UG/KG	8082	10/03/20C0 20:14	NH
Aroclor 1242	ND		17	UG/KG	8082	10/03/2000 20:14	NH
Aroclor 1248	ND		17	UG/KG	8082	10/03/2000 20:14	NH
Aroclor 1254	ND		17	UG/KG	8082	10/03/2000 20:14	NH
Aroclor 1260	ND		17	UG/KG	8082	10/03/2000 20:14	NH
Wet Chemistry Analysis							
Dry Weight	93.0		0	%	D2216-90	10/16/2000 22:15	TB
Flashpoint	>200		0	F	1010	10/09/2000 18:40	RM
H2S Released From Waste	ND		0	MG/KG	SECT7.3	10/11/2000 18:30	JS
HCN Released From Waste	ND		0	MG/KG	SECT7.3	10/11/2000 18:30	JS
Leachable pH	8.0		0	S.U.	9045	10/06/2000	BC

Sample ID: LSVIWC0504C
Sample ID: A0682809
Date Collected: 09/25/2000
Time Collected: 15:43

Date Received: 09/26/2000
Project No: NY0A8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
NYSEG-SOIL-SW8463 8082 - PCBS							
Aroclor 1016	ND		17	UG/KG	8082	10/03/2000 20:38	NH
Aroclor 1221	ND		17	UG/KG	8082	10/03/2000 20:38	NH
Aroclor 1232	ND		17	UG/KG	8082	10/03/2000 20:38	NH
Aroclor 1242	ND		17	UG/KG	8082	10/03/2000 20:38	NH
Aroclor 1248	ND		17	UG/KG	8082	10/03/2000 20:38	NH
Aroclor 1254	160		17	UG/KG	8082	10/03/2000 20:38	NH
Aroclor 1260	ND		17	UG/KG	8082	10/03/2000 20:38	NH
Wet Chemistry Analysis							
Dry Weight	90.4		0	%	D2216-90	10/16/2000 22:15	TB
Flashpoint	>200		0	F	1010	10/09/2000 18:40	RM
H2S Released From Waste	ND		0	MG/KG	SECT7.3	10/11/2000 18:30	JS
HCN Released From Waste	ND		0	MG/KG	SECT7.3	10/11/2000 18:30	JS
Leachable pH	7.8		0	S.U.	9045	10/06/2000	BC

Sample ID: LSVIWC0507C
Lab Sample ID: A0682810
Date Collected: 09/25/2000
Time Collected: 16:29

Date Received: 09/26/2000
Project No: NY0A8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analys
NYSEG-SOIL-SW8463 8082 - PCBS							
Aroclor 1016	ND		17	UG/KG	8082	10/03/2000 21:03	NH
Aroclor 1221	ND		17	UG/KG	8082	10/03/2000 21:03	NH
Aroclor 1232	ND		17	UG/KG	8082	10/03/2000 21:03	NH
Aroclor 1242	ND		17	UG/KG	8082	10/03/2000 21:03	NH
Aroclor 1248	ND		17	UG/KG	8082	10/03/2000 21:03	NH
Aroclor 1254	ND		17	UG/KG	8082	10/03/2000 21:03	NH
Aroclor 1260	ND		17	UG/KG	8082	10/03/2000 21:03	NH
Wet Chemistry Analysis							
Dry Weight	94.3		0	%	D2216-90	10/16/2000 22:15	TB
Flashpoint	>200		0	F	1010	10/09/2000 18:40	RM
H2S Released From Waste	ND		0	MG/KG	SECT7.3	10/11/2000 18:30	JS
HCN Released From Waste	ND		0	MG/KG	SECT7.3	10/11/2000 18:30	JS
Leachable pH	8.0		0	S.U.	9045	10/06/2000	BC

000015

Sample ID: LSVIWC2023A1G
Lab Sample ID: A0682812
Date Collected: 09/26/2000
Time Collected: 11:00

Date Received: 09/26/2000
Project No: NYOAB576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
NYSEG-SOIL-SW8463 8082 - PCBS							
Aroclor 1016	ND		17	UG/KG	8082	10/03/2000 22:42	NH
Aroclor 1221	ND		17	UG/KG	8082	10/03/2000 22:42	NH
Aroclor 1232	ND		17	UG/KG	8082	10/03/2000 22:42	NH
Aroclor 1242	ND		17	UG/KG	8082	10/03/2000 22:42	NH
Aroclor 1248	ND		17	UG/KG	8082	10/03/2000 22:42	NH
Aroclor 1254	ND		17	UG/KG	8082	10/03/2000 22:42	NH
Aroclor 1260	ND		17	UG/KG	8082	10/03/2000 22:42	NH
Wet Chemistry Analysis							
Dry Weight	90.5		0	%	D2216-90	10/16/2000 22:15	TB
Flashpoint	>200		0	F	1010	10/09/2000 18:40	RM
H2S Released From Waste	ND		0	MG/KG	SECT7.3	10/11/2000 18:30	JS
HCN Released From Waste	ND		0	MG/KG	SECT7.3	10/11/2000 18:30	JS
Leachable pH	7.5		0	S.U.	9045	10/06/2000	BC

Sample ID: LSVIWC4808BC
Lab Sample ID: A0682806
Date Collected: 09/25/2000
Time Collected: 16:10

Date Received: 09/26/2000
Project No: NY0A8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
NYSEG-SOIL-SW8463 8082 - PCBS							
Aroclor 1016	ND		17	UG/KG	8082	10/03/2000 19:24	NH
Aroclor 1221	ND		17	UG/KG	8082	10/03/2000 19:24	NH
Aroclor 1232	ND		17	UG/KG	8082	10/03/2000 19:24	NH
Aroclor 1242	ND		17	UG/KG	8082	10/03/2000 19:24	NH
Aroclor 1248	ND		17	UG/KG	8082	10/03/2000 19:24	NH
Aroclor 1254	ND		17	UG/KG	8082	10/03/2000 19:24	NH
Aroclor 1260	ND		17	UG/KG	8082	10/03/2000 19:24	NH
Wet Chemistry Analysis							
Dry Weight	94.3		0	%	D2216-90	10/16/2000 22:15	TB
Flashpoint	>200		0	F	1010	10/02/2000 21:45	RM
H2S Released From Waste	ND		0	MG/KG	SECT7.3	10/11/2000 18:30	JS
HCN Released From Waste	ND		0	MG/KG	SECT7.3	10/11/2000 18:30	JS
Leachable pH	7.7		0	S.U.	9045	10/06/2000	BC

000017

Sample ID: LSVIWC48WWAC
Sample ID: A0682804
Date Collected: 09/25/2000
Time Collected: 16:45

Date Received: 09/26/2000
Project No: NY0A8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
NYSEG-SOIL-SW8463 8082 - PCBS							
Aroclor 1016	ND		97	UG/KG	8082	10/03/2000 17:45	NH
Aroclor 1221	ND		97	UG/KG	8082	10/03/2000 17:45	NH
Aroclor 1232	ND		97	UG/KG	8082	10/03/2000 17:45	NH
Aroclor 1242	ND		97	UG/KG	8082	10/03/2000 17:45	NH
Aroclor 1248	430		97	UG/KG	8082	10/03/2000 17:45	NH
Aroclor 1254	ND		97	UG/KG	8082	10/03/2000 17:45	NH
Aroclor 1260	ND		97	UG/KG	8082	10/03/2000 17:45	NH
Wet Chemistry Analysis							
Dry Weight	93.9		0	%	02216-90	10/16/2000 22:15	TB
Flashpoint	>200		0	F	1010	10/02/2000 21:45	RM
H2S Released From Waste	ND		0	MG/KG	SECT7.3	10/06/2000 20:05	JS
HCN Released From Waste	ND		0	MG/KG	SECT7.3	10/06/2000 20:05	JS
Leachable pH	7.9		0	S.U.	9045	10/02/2000	RM

Sample ID: LSVIWCBB05AC
Lab Sample ID: A0682814
Date Collected: 09/26/2000
Time Collected: 14:45

Date Received: 09/26/2000
Project No: NYOA8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analy
NYSEG-SOIL-SW8463 8082 - PCBS							
Aroclor 1016	ND		18	UG/KG	8082	10/04/2000 12:45	NH
Aroclor 1221	ND		18	UG/KG	8082	10/04/2000 12:45	NH
Aroclor 1232	ND		18	UG/KG	8082	10/04/2000 12:45	NH
Aroclor 1242	ND		18	UG/KG	8082	10/04/2000 12:45	NH
Aroclor 1248	ND		18	UG/KG	8082	10/04/2000 12:45	NH
Aroclor 1254	ND		18	UG/KG	8082	10/04/2000 12:45	NH
Aroclor 1260	ND		18	UG/KG	8082	10/04/2000 12:45	NH
Wet Chemistry Analysis							
Dry Weight	73.7		0	%	D2216-90	10/16/2000 22:15	TB
Flashpoint	>200		0	F	1010	10/09/2000 18:40	RM
H2S Released From Waste	ND		0	MG/KG	SECT7.3	10/13/2000 20:10	JS
HCN Released From Waste	ND		0	MG/KG	SECT7.3	10/13/2000 20:10	JS
Leachable pH	5.2		0	S.U.	9045	10/06/2000	BC

00001~

Sample ID: LSVIWCSS06C
Sample ID: A0682815
Date Collected: 09/26/2000
Time Collected: 15:00

Date Received: 09/26/2000
Project No: NY0A8576
Client No: L11252
Site No:

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
NYSEG-SOIL-SW8463 8082 - PCBS							
Aroclor 1016	ND		18	UG/KG	8082	10/04/2000 13:10	NH
Aroclor 1221	ND		18	UG/KG	8082	10/04/2000 13:10	NH
Aroclor 1232	ND		18	UG/KG	8082	10/04/2000 13:10	NH
Aroclor 1242	ND		18	UG/KG	8082	10/04/2000 13:10	NH
Aroclor 1248	ND		18	UG/KG	8082	10/04/2000 13:10	NH
Aroclor 1254	ND		18	UG/KG	8082	10/04/2000 13:10	NH
Aroclor 1260	ND		18	UG/KG	8082	10/04/2000 13:10	NH
Wet Chemistry Analysis							
Dry Weight	77.2		0	%	D2216-90	10/16/2000 22:15	TB
Flashpoint	>200		0	F	1010	10/09/2000 18:40	RM
H2S Released From Waste	ND		0	MG/KG	SECT7.3	10/13/2000 20:10	JS
HCN Released From Waste	ND		0	MG/KG	SECT7.3	10/13/2000 20:10	JS
Leachable pH	7.4		0	S.U.	9045	10/06/2000	BC

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000034

Client No.

LSVI23B5G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682301

Sample wt/vol: 30.76 (g/mL) G Lab File ID: Z44605.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

Moisture: 10.0 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/13/2000

Injection Volume: 2.00 (uL) Total PAH 12,48 Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: ____ Total cPAH 7,480

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	18000	U
51-28-5	2,4-Dinitrophenol	43000	U
100-02-7	4-Nitrophenol	43000	U
132-64-9	Dibenzofuran	13000	U
121-14-2	2,4-Dinitrotoluene	18000	U
84-66-2	Diethyl phthalate	18000	U
7005-72-3	4-Chlorophenyl phenyl ether	18000	U
86-73-7	Fluorene	18000	U
100-01-6	4-Nitroaniline	43000	U
534-52-1	4,6-Dinitro-2-methylphenol	43000	U
86-30-6	N-nitrosodiphenylamine	18000	U
101-55-3	4-Bromophenyl phenyl ether	18000	U
118-74-1	Hexachlorobenzene	18000	U
87-86-5	Pentachlorophenol	43000	U
85-01-8	Phenanthrene	300	J
120-12-7	Anthracene	18000	U
86-74-8	Carbazole	18000	U
84-74-2	Di-n-butyl phthalate	18000	U
206-44-0	Fluoranthene	1600	J
129-00-0	Pyrene	1900	J
85-68-7	Butyl benzyl phthalate	18000	U
91-94-1	3,3'-Dichlorobenzidine	18000	U
56-55-3	Benzo(a)anthracene	1700	J
218-01-9	Chrysene	1200	J
117-81-7	Bis(2-ethylhexyl) phthalate	18000	U
117-84-0	Di-n-octyl phthalate	18000	U
205-99-2	Benzo(b)fluoranthene	2300	J
207-08-9	Benzo(k)fluoranthene	18000	U
50-32-8	Benzo(a)pyrene	1200	J
193-39-5	Indeno(1,2,3-cd)pyrene	880	J
53-70-3	Dibenzo(a,h)anthracene	200	J
191-24-2	Benzo(ghi)perylene	1200	J

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000033

Client No.

LSVI23B5G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682301

Sample wt/vol: 30.76 (g/mL) G Lab File ID: Z44605.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 10.0 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/13/2000

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	18000	U
111-44-4	Bis(2-chloroethyl) ether	18000	U
95-57-8	2-Chlorophenol	18000	U
541-73-1	1,3-Dichlorobenzene	18000	U
106-46-7	1,4-Dichlorobenzene	18000	U
95-50-1	1,2-Dichlorobenzene	18000	U
95-48-7	2-Methylphenol	18000	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	18000	U
106-44-5	4-Methylphenol	18000	U
621-64-7	N-Nitroso-Di-n-propylamine	18000	U
67-72-1	Hexachloroethane	18000	U
98-95-3	Nitrobenzene	18000	U
78-59-1	Isophorone	18000	U
88-75-5	2-Nitrophenol	18000	U
105-67-9	2,4-Dimethylphenol	18000	U
111-91-1	Bis(2-chloroethoxy) methane	18000	U
120-83-2	2,4-Dichlorophenol	18000	U
120-82-1	1,2,4-Trichlorobenzene	18000	U
91-20-3	Naphthalene	18000	U
106-47-8	4-Chloroaniline	18000	U
87-68-3	Hexachlorobutadiene	18000	U
59-50-7	4-Chloro-3-methylphenol	18000	U
91-57-6	2-Methylnaphthalene	18000	U
77-47-4	Hexachlorocyclopentadiene	18000	U
88-06-2	2,4,6-Trichlorophenol	18000	U
95-95-4	2,4,5-Trichlorophenol	43000	U
91-58-7	2-Chloronaphthalene	18000	U
88-74-4	2-Nitroaniline	43000	U
131-11-3	Dimethyl phthalate	18000	U
208-96-8	Acenaphthylene	18000	U
606-20-2	2,6-Dinitrotoluene	18000	U
99-09-2	3-Nitroaniline	43000	U

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000032

Client No.

LSVI23B3G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682314

Sample wt/vol: 30.65 (g/mL) G Lab File ID: Z44623.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 9.5 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Total PAH 5.900 Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: ____ Total c-PAH 2.945

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	3600	U
51-28-5	2,4-Dinitrophenol	8600	U
100-02-7	4-Nitrophenol	8600	U
132-64-9	Dibenzofuran	3600	U
121-14-2	2,4-Dinitrotoluene	3600	U
84-66-2	Diethyl phthalate	3600	U
7005-72-3	4-Chlorophenyl phenyl ether	3600	U
86-73-7	Fluorene	25	J
100-01-6	4-Nitroaniline	8600	U
534-52-1	4,6-Dinitro-2-methylphenol	8600	U
86-30-6	N-nitrosodiphenylamine	3600	U
101-55-3	4-Bromophenyl phenyl ether	3600	U
118-74-1	Hexachlorobenzene	3600	U
87-86-5	Pentachlorophenol	8600	U
85-01-8	Phenanthrene	630	J
120-12-7	Anthracene	110	J
86-74-8	Carbazole	35	J
84-74-2	Di-n-butyl phthalate	3600	U
206-44-0	Fluoranthene	1000	J
129-00-0	Pyrene	980	J
85-68-7	Butyl benzyl phthalate	3600	U
91-94-1	3,3'-Dichlorobenzidine	3600	U
56-55-3	Benzo(a)anthracene	660	J
218-01-9	Chrysene	450	J
117-81-7	Bis(2-ethylhexyl) phthalate	3600	U
117-84-0	Di-n-octyl phthalate	3600	U
205-99-2	Benzo(b)fluoranthene	1000	J
207-08-9	Benzo(k)fluoranthene	110	J
50-32-8	Benzo(a)pyrene	530	J
193-39-5	Indeno(1,2,3-cd)pyrene	160	J
53-70-3	Dibenzo(a,h)anthracene	35	J
191-24-2	Benzo(ghi)perylene	180	J

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000031

Client No.

LSVI23B3G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682314

Sample wt/vol: 30.65 (g/mL) G Lab File ID: Z44623.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 9.5 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3600	U
111-44-4	Bis(2-chloroethyl) ether	3600	U
95-57-8	2-Chlorophenol	3600	U
541-73-1	1,3-Dichlorobenzene	3600	U
106-46-7	1,4-Dichlorobenzene	3600	U
95-50-1	1,2-Dichlorobenzene	3600	U
95-48-7	2-Methylphenol	3600	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	3600	U
106-44-5	4-Methylphenol	3600	U
621-64-7	N-Nitroso-Di-n-propylamine	3600	U
67-72-1	Hexachloroethane	3600	U
98-95-3	Nitrobenzene	3600	U
78-59-1	Isophorone	3600	U
88-75-5	2-Nitrophenol	3600	U
105-67-9	2,4-Dimethylphenol	3600	U
111-91-1	Bis(2-chloroethoxy) methane	3600	U
120-83-2	2,4-Dichlorophenol	3600	U
120-82-1	1,2,4-Trichlorobenzene	3600	U
91-20-3	Naphthalene	3600	U
106-47-8	4-Chloroaniline	3600	U
87-68-3	Hexachlorobutadiene	3600	U
59-50-7	4-Chloro-3-methylphenol	3600	U
91-57-6	2-Methylnaphthalene	3600	U
77-47-4	Hexachlorocyclopentadiene	3600	U
88-06-2	2,4,6-Trichlorophenol	3600	U
95-95-4	2,4,5-Trichlorophenol	8600	U
91-58-7	2-Chloronaphthalene	3600	U
88-74-4	2-Nitroaniline	8600	U
131-11-3	Dimethyl phthalate	3600	U
208-96-8	Acenaphthylene	30	J
606-20-2	2,6-Dinitrotoluene	3600	U
99-09-2	3-Nitroaniline	8600	U

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000030

Client No.

LSVI04B2G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682313

Sample wt/vol: 30.51 (g/mL) G Lab File ID: Z44638.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 6.9 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/16/2000

Injection Volume: 2.00 (uL) Total PAH 99.03 Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: ____ Total cPAH 33.60

CAS NO	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	2100	J
51-28-5	2,4-Dinitrophenol	8400	U
100-02-7	4-Nitrophenol	8400	U
132-64-9	Dibenzofuran	1900	J
121-14-2	2,4-Dinitrotoluene	3500	U
84-66-2	Diethyl phthalate	3500	U
7005-72-3	4-Chlorophenyl phenyl ether	3500	U
86-73-7	Fluorene	2200	J
100-01-6	4-Nitroaniline	8400	U
534-52-1	4,6-Dinitro-2-methylphenol	8400	U
86-30-6	N-nitrosodiphenylamine	3500	U
101-55-3	4-Bromophenyl phenyl ether	3500	U
118-74-1	Hexachlorobenzene	3500	U
87-86-5	Pentachlorophenol	8400	U
85-01-8	Phenanthrene	14000	
120-12-7	Anthracene	4200	
86-74-8	Carbazole	1100	J
84-74-2	Di-n-butyl phthalate	3500	U
206-44-0	Fluoranthene	18000	
129-00-0	Pyrene	13000	
85-68-7	Butyl benzyl phthalate	3500	U
91-94-1	3,3'-Dichlorobenzidine	3500	U
56-55-3	Benzo(a)anthracene	7500	
218-01-9	Chrysene	7100	
117-81-7	Bis(2-ethylhexyl) phthalate	3500	U
117-84-0	Di-n-octyl phthalate	3500	U
205-99-2	Benzo(b)fluoranthene	7700	
207-08-9	Benzo(k)fluoranthene	2700	J
50-32-8	Benzo(a)pyrene	7100	
193-39-5	Indeno(1,2,3-cd)pyrene	3300	J
53-70-3	Dibenzo(a,h)anthracene	1200	J
191-24-2	Benzo(ghi)perylene	3700	

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000029

Client No.

LSVI04B2G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682313

Sample wt/vol: 30.51 (g/mL) G Lab File ID: Z44638.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 6.9 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/16/2000

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3500	U
111-44-4	Bis(2-chloroethyl) ether	3500	U
95-57-8	2-Chlorophenol	3500	U
541-73-1	1,3-Dichlorobenzene	3500	U
106-46-7	1,4-Dichlorobenzene	3500	U
95-50-1	1,2-Dichlorobenzene	3500	U
95-48-7	2-Methylphenol	3500	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	3500	U
106-44-5	4-Methylphenol	3500	U
621-64-7	N-Nitroso-Di-n-propylamine	3500	U
67-72-1	Hexachloroethane	3500	U
98-95-3	Nitrobenzene	3500	U
78-59-1	Isophorone	3500	U
88-75-5	2-Nitrophenol	3500	U
105-67-9	2,4-Dimethylphenol	3500	U
111-91-1	Bis(2-chloroethoxy) methane	3500	U
120-83-2	2,4-Dichlorophenol	3500	U
120-82-1	1,2,4-Trichlorobenzene	3500	U
91-20-3	Naphthalene	1400	J
106-47-8	4-Chloroaniline	3500	U
87-68-3	Hexachlorobutadiene	3500	U
59-50-7	4-Chloro-3-methylphenol	3500	U
91-57-6	2-Methylnaphthalene	1300	J
77-47-4	Hexachlorocyclopentadiene	3500	U
88-06-2	2,4,6-Trichlorophenol	3500	U
95-95-4	2,4,5-Trichlorophenol	8400	U
91-58-7	2-Chloronaphthalene	3500	U
88-74-4	2-Nitroaniline	8400	U
131-11-3	Dimethyl phthalate	3500	U
208-96-8	Acenaphthylene	630	J
606-20-2	2,6-Dinitrotoluene	3500	U
99-09-2	3-Nitroaniline	8400	U

NEW YORK STATE ELECTRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000027

Client No.

LSVISS03C

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682318

Sample wt/vol: 5.19 (g/mL) G Lab File ID: H2802.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 10.9 Heated Purge: Y Date Analyzed: 10/04/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

NEW YORK STATE ELECTRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000026
Client No.

LSVISS02C

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682320

Sample wt/vol: 5.04 (g/mL) G Lab File ID: H2804.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 26.4 Heated Purge: Y Date Analyzed: 10/04/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene chloride	4	BJ
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (Total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	5	J
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
108-88-3	Toluene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Total Xylenes	13	U

NEW YORK STATE ELECTRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000025

Client No.

LSVISSOIC

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682317

Sample wt/vol: 5.02 (g/mL) G Lab File ID: H2801.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

Moisture: not dec. 26.4 Heated Purge: Y Date Analyzed: 10/04/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene chloride	5	BJ
67-64-1	Acetone	14	U
75-15-0	Carbon Disulfide	14	U
75-35-4	1,1-Dichloroethene	14	U
75-34-3	1,1-Dichloroethane	14	U
540-59-0	1,2-Dichloroethene (Total)	14	U
67-66-3	Chloroform	14	U
107-06-2	1,2-Dichloroethane	14	U
78-93-3	2-Butanone	14	U
71-55-6	1,1,1-Trichloroethane	14	U
56-23-5	Carbon Tetrachloride	14	U
75-27-4	Bromodichloromethane	14	U
78-87-5	1,2-Dichloropropane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
79-01-6	Trichloroethene	14	U
124-48-1	Dibromochloromethane	14	U
79-00-5	1,1,2-Trichloroethane	14	U
71-43-2	Benzene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
75-25-2	Bromoform	14	U
108-10-1	4-Methyl-2-pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	14	U
108-88-3	Toluene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
100-42-5	Styrene	14	U
1330-20-7	Total Xylenes	14	U

NEW YORK STATE ELECIRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000024

Client No.

LSVI2123B4G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682309

Sample wt/vol: 5.01 (g/mL) G Lab File ID: H2809.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 13.8 Heated Purge: Y Date Analyzed: 10/04/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

NEW YORK STATE ELECIRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000023

Client No.

LSVI1719B4G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682308

Sample wt/vol: 5.07 (g/mL) G Lab File ID: H2812.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 10.7 Heated Purge: Y Date Analyzed: 10/04/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

NEW YORK STATE ELECIRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000022

Client No.

LSVI1315B4G RE

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682307RI

Sample wt/vol: 5.16 (g/mL) G Lab File ID: H2808.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 11.4 Heated Purge: Y Date Analyzed: 10/04/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

NEW YORK STATE ELECIRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000021

Client No.

LSVI1315B4G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682307

Sample wt/vol: 5.09 (g/mL) G Lab File ID: H2786.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 11.4 Heated Purge: Y Date Analyzed: 10/03/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	13	B
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (Total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	3	J
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	2	J
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	2	J
100-42-5	Styrene	11	U
1330-20-7	Total Xylenes	4	J

NEW YORK STATE ELECTRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000020

Client No.

LSVI1213B1G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682312

Sample wt/vol: 5.05 (g/mL) G Lab File ID: H2791.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 9.7 Heated Purge: Y Date Analyzed: 10/04/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

NEW YORK STATE ELECTRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000019

Client No.

LSVI1012B5G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682303

Sample wt/vol: 5.08 (g/mL) G Lab File ID: H2782.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 9.4 Heated Purge: Y Date Analyzed: 10/03/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	19	B
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (Total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	3	J
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Total Xylenes	11	U

NEW YORK STATE ELECTRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000018

Client No.

LSVI1011B1G

ab Name: STL Buffalo Contract: 98-153

ab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

atrix: (soil/water) SOIL Lab Sample ID: A0682311

ample wt/vol: 5.08 (g/mL) G Lab File ID: H2805.RR

evel: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

Moisture: not dec. 12.0 Heated Purge: Y Date Analyzed: 10/04/2000

C Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

NEW YORK STATE ELECTRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000017

Client No.

LSVI89B4G RE

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682306RI

Sample wt/vol: 5.10 (g/mL) G Lab File ID: H2807.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 10.5 Heated Purge: Y Date Analyzed: 10/04/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	7	BJ
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (Total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	4	J
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	6	J
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	7	J
100-42-5	Styrene	11	U
1330-20-7	Total Xylenes	14	

NEW YORK STATE ELECTRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000016

Client No.

LSVI89B4G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682306

Sample wt/vol: 5.07 (g/mL) G Lab File ID: H2785.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 10.5 Heated Purge: Y Date Analyzed: 10/03/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

NEW YORK STATE ELECTRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000015

Client No.

LSVI78B5G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682302

Sample wt/vol: 5.12 (g/mL) G Lab File ID: H2781.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 10.2 Heated Purge: Y Date Analyzed: 10/03/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	29	B
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (Total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	2	J
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Total Xylenes	11	U

NEW YORK STATE ELECTRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000014

Client No.

LSVI78B1G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682319

Sample wt/vol: 5.12 (g/mL) G Lab File ID: H2803.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 8.5 Heated Purge: Y Date Analyzed: 10/04/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

NEW YORK STATE ELECIRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000013

Client No.

LSVI67B4G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682305

Sample wt/vol: 5.03 (g/mL) G Lab File ID: H2784.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 12.7 Heated Purge: Y Date Analyzed: 10/03/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	11	B
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (Total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	6	J
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	4	J
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	2	J
108-88-3	Toluene	20	
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	28	
100-42-5	Styrene	11	U
1330-20-7	Total Xylenes	42	

NEW YORK STATE ELECTRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000012

Client No.
LSVI56B3G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682315

Sample wt/vol: 5.04 (g/mL) G Lab File ID: H2794.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 10.4 Heated Purge: Y Date Analyzed: 10/04/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

NEW YORK STATE ELECTRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000011

Client No.

LSVI34B1G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682310

Sample wt/vol: 5.08 (g/mL) G Lab File ID: H2810.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 6.2 Heated Purge: Y Date Analyzed: 10/04/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

NEW YORK STATE ELECTRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000010

Client No.

LSVI24B4G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682304

Sample wt/vol: 5.07 (g/mL) G Lab File ID: H2783.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 13.0 Heated Purge: Y Date Analyzed: 10/03/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	13	B
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (Total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Total Xylenes	11	U

NEW YORK STATE ELECTRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000009

Client No.

LSVI23B5G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682301

Sample wt/vol: 5.12 (g/mL) G Lab File ID: H2780.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 4.5 Heated Purge: Y Date Analyzed: 10/03/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	16	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (Total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

NEW YORK STATE ELECTRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000008

Client No.

LSVI23B3G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682314

Sample wt/vol: 5.11 (g/mL) G Lab File ID: H2793.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 8.7 Heated Purge: Y Date Analyzed: 10/04/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene chloride	8	BJ
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (Total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	3	J
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Total Xylenes	11	U

NEW YORK STATE ELECTRIC & GAS
NYSEG-ASP91-1 - VOLATILES
ANALYSIS DATA SHEET

000007

Client No.

LSVI04B2G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682313

Sample wt/vol: 5.08 (g/mL) G Lab File ID: H2811.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: not dec. 6.7 Heated Purge: Y Date Analyzed: 10/04/2000

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

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

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

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.
B	This flag is used when the analyte is found in the associated blank, as well as in the sample.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at the secondary dilution factor.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
A	This flag indicates that a TIC is a suspected aldol-condensation product.
1	Indicates coelution.
*	Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U	Indicates element was analyzed for, but not detected. Report with the detection limit value.
J or B	Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit. detection limit.
N	Indicates spike sample recovery is not within the quality control limits.
K	Indicates the post digestion spike recovery is not within the quality control limits.
S	Indicates value determined by the Method of Standard Addition.
M	Indicates duplicate injection results exceeded quality control limits.
W	Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
E	Indicates a value estimated or not reported due to the presence of interferences.
H	Indicates analytical holding time exceedance.
*	Indicates analysis is not within the quality control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

"I certify that this data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Director or her designee, as verified by the following signature."

Susan L. Tinsmith
Laboratory Director

10/31/00
Date

Dilutions Con't:

Sample ID	Dilution
LSVI1213B1G	10
LSVI1719B4G	10
LSVISS01C	10
LSVISS02C	10
LSVISS03C	10
LSVISS04C	10
LSVI23B5G MS	5**
LSVI23B5G SD	5**

Sample LSVI56B3G contained one or more target compounds in amounts exceeding the instrument calibration range ("E" qualifiers). The sample exhibited internal standard recovery results above quality control limits for Phenanthrene-D10 and was initially analyzed at a dilution factor of 5. The sample was reanalyzed at a dilution factor of 20 and exhibited compliant internal standard recoveries. The surrogates were diluted out of both samples. Both sets of data are reported.

The Matrix Spike Blank (MSB)(A0B0765402) exhibited spike recovery results slightly above quality control limits for 4-Nitrophenol, 2,4-Dinitrotoluene, and Pentachlorophenol. Those compounds were not detected in the associated samples.

METALS

The results of soil samples have been corrected for percent solids and are reported on a dry weight basis.

Sample LSVI23B5G exhibited spike recovery results outside quality control limits for Antimony and Mercury.

The prep blank exhibited results for Lead above the CRDL. However, all associated samples results were greater than ten times that of the prep blank.

WET CHEMISTRY

The Laboratory Control Sample (LCS) exhibited spike recovery results above quality control limits for Cyanide.

SEVERN TRENT SERVICES
STL Buffalo

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed data has been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Three coolers were received at temperatures of 4°C.

METHOD 8260

VBLK34 and VBLK35 exhibited positive results for Methylene chloride. Affected samples are flagged with "B" qualifiers.

Samples LSVI1315B4G and LSVI89B4G exhibited surrogate recovery results below quality control limits for Toluene-D8. The samples were reanalyzed outside of holding time and exhibited compliant recoveries. Both sets of data are reported.

During analysis, the analyst followed ASP95 holding times instead of the required ASP91. The following samples were analyzed outside of holding time (one day outside of ASP95 holding time): LSVI1719B4G, LSVI2123B4G, LSVI34B1G, LSVII011B1G, LSVI213B1G, LSVI04B2G, LSVI23B3G, LSVI56B3G, LSVISS04C, LSVISS01C, LSVI03C, LSVI78B1G, and LSVISS02C.

METHOD 8270

Due to sample matrix, the following samples were analyzed at the indicated dilutions (* surrogates were diluted out; ** spikes were diluted out):

Sample ID	Dilution
LSVI04B2G	10
LSVI23B3G	10
LSVI23B5G	5*
LSVI24B4G	10*
LSVI34B1G	10
LSVI67B4G	10
LSVI78B1G	10
LSVI78B5G	10
LSVI89B4G	5
LSVI1011B1G	5
LSVI1012B5G	5
LSVI1315B4G	10

SEVERN TRENT SERVICES

STL Buffalo

SDG NARRATIVE

Laboratory Name: STL Buffalo

Laboratory Code: STL Buffalo

Contract Number: NY00-167

SDG Number: 23B5G

Sample Identifications:

LSVI04B2G
LSVI1011B1G
LSVI1012B5G
LSVI1213B1G
LSVI1315B4G
LSVI1719B4G
LSVI2123B4G
LSVI23B3G
LSVI23B5G
LSVI24B4G
LSVI34B1G
LSVI56B3G
LSVI67B4G
LSVI78B1G
LSVI78B5G
LSVI89B4G
LSVISS01C
LSVISS02C
LSVISS03C
LSVISS04C

METHODOLOGY

The specific methodology employed in obtaining the enclosed analytical results is indicated on the specific data tables. The method number presented refers to the following U.S. Environmental Protection Agency reference:

- "Analytical Services Protocol", New York State Department of Environmental Conservation, Document No. 0102, Volumes 1-10, September 1989 with 12/91 and 12-95 Revisions and updates.

SAMPLE DATA SUMMARY PACKAGE

SEVERN TRENT SERVICES

October 30, 2000

Mr. John Ruspantini
NYSEG - Corporate Drive
Kirkwood Industrial Park
Binghamton, NY 13902-5224

STL Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Tel: 716 691 2600
Fax: 716 691 7991
www.stl-inc.com

RE: Analytical Results

Dear Mr. Ruspantini:

Please find enclosed analytical results concerning the samples recently submitted by your firm. The pertinent information regarding these analyses is listed below:

Project:	NYSEG - Lockport State Road Former MGP
Matrix:	Soil
Samples Received:	09/26/00
Sample Date:	09/26/00

If you have any questions concerning this data, please contact me at (716) 691-2600 and refer to the I.D. number listed below. It has been our pleasure to provide New York State Electric & Gas with environmental testing services. We look forward to serving you in the future.

Sincerely,

STL Buffalo

Kenneth P. Kinecki
Program Manager

Susan L. Tinsmith
Laboratory Manager

KPK/SLT/rtv
Enclosure

I.D.#A00-6823
#NY0A8576

This report contains _____ pages which are individually numbered

Analytical Report for Table 4

NEW YORK STATE ELECIRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000035

Client No.

LSVI24B4G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682304

Sample wt/vol: 30.55 (g/mL) G Lab File ID: Z44613.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 8.1 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	35000	U
111-44-4	Bis(2-chloroethyl) ether	35000	U
95-57-8	2-Chlorophenol	35000	U
541-73-1	1,3-Dichlorobenzene	35000	U
106-46-7	1,4-Dichlorobenzene	35000	U
95-50-1	1,2-Dichlorobenzene	35000	U
95-48-7	2-Methylphenol	35000	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	35000	U
106-44-5	4-Methylphenol	35000	U
621-64-7	N-Nitroso-Di-n-propylamine	35000	U
67-72-1	Hexachloroethane	35000	U
98-95-3	Nitrobenzene	35000	U
78-59-1	Isophorone	35000	U
88-75-5	2-Nitrophenol	35000	U
105-67-9	2,4-Dimethylphenol	35000	U
111-91-1	Bis(2-chloroethoxy) methane	35000	U
120-83-2	2,4-Dichlorophenol	35000	U
120-82-1	1,2,4-Trichlorobenzene	35000	U
91-20-3	Naphthalene	35000	U
106-47-8	4-Chloroaniline	35000	U
87-68-3	Hexachlorobutadiene	35000	U
59-50-7	4-Chloro-3-methylphenol	35000	U
91-57-6	2-Methylnaphthalene	35000	U
77-47-4	Hexachlorocyclopentadiene	35000	U
88-06-2	2,4,6-Trichlorophenol	35000	U
95-95-4	2,4,5-Trichlorophenol	86000	U
91-58-7	2-Chloronaphthalene	35000	U
88-74-4	2-Nitroaniline	86000	U
131-11-3	Dimethyl phthalate	35000	U
208-96-8	Acenaphthylene	35000	U
606-20-2	2,6-Dinitrotoluene	35000	U
99-09-2	3-Nitroaniline	86000	U

NEW YORK STATE ELECIRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000036
Client No

LSVI24B4G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682304

Sample wt/vol: 30.55 (g/mL) G Lab File ID: Z44613.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 8.1 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Total PAH 11.60 Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: ____ Total cPAH 5.230

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	35000	U
51-28-5	2,4-Dinitrophenol	86000	U
100-02-7	4-Nitrophenol	86000	U
132-64-9	Dibenzofuran	35000	U
121-14-2	2,4-Dinitrotoluene	35000	U
84-66-2	Diethyl phthalate	35000	U
7005-72-3	4-Chlorophenyl phenyl ether	35000	U
86-73-7	Fluorene	35000	U
100-01-6	4-Nitroaniline	86000	U
534-52-1	4,6-Dinitro-2-methylphenol	86000	U
86-30-6	N-nitrosodiphenylamine	35000	U
101-55-3	4-Bromophenyl phenyl ether	35000	U
118-74-1	Hexachlorobenzene	35000	U
87-86-5	Pentachlorophenol	86000	U
85-01-8	Phenanthrene	1400	J
120-12-7	Anthracene	35000	U
86-74-8	Carbazole	35000	U
84-74-2	Di-n-butyl phthalate	35000	U
206-44-0	Fluoranthene	2400	J
129-00-0	Pyrene	2100	J
85-68-7	Butyl benzyl phthalate	35000	U
91-94-1	3,3'-Dichlorobenzidine	35000	U
56-55-3	Benzo(a)anthracene	1400	J
218-01-9	Chrysene	920	J
117-81-7	Bis(2-ethylhexyl) phthalate	35000	U
117-84-0	Di-n-octyl phthalate	35000	U
205-99-2	Benzo(b)fluoranthene	1500	J
207-08-9	Benzo(k)fluoranthene	35000	U
50-32-8	Benzo(a)pyrene	920	J
193-39-5	Indeno(1,2,3-cd)pyrene	490	J
53-70-3	Dibenzo(a,h)anthracene	35000	U
191-24-2	Benzo(ghi)perylene	470	J

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000037
Client No.

LSVI34B1G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682310

Sample wt/vol: 30.92 (g/mL) G Lab File ID: Z44619.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 8.3 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3500	U
111-44-4	Bis(2-chloroethyl) ether	3500	U
95-57-8	2-Chlorophenol	3500	U
541-73-1	1,3-Dichlorobenzene	3500	U
106-46-7	1,4-Dichlorobenzene	3500	U
95-50-1	1,2-Dichlorobenzene	3500	U
95-48-7	2-Methylphenol	3500	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	3500	U
106-44-5	4-Methylphenol	3500	U
621-64-7	N-Nitroso-Di-n-propylamine	3500	U
67-72-1	Hexachloroethane	3500	U
98-95-3	Nitrobenzene	3500	U
78-59-1	Isophorone	3500	U
88-75-5	2-Nitrophenol	3500	U
105-67-9	2,4-Dimethylphenol	3500	U
111-91-1	Bis(2-chloroethoxy) methane	3500	U
120-83-2	2,4-Dichlorophenol	3500	U
120-82-1	1,2,4-Trichlorobenzene	3500	U
91-20-3	Naphthalene	3500	U
106-47-8	4-Chloroaniline	3500	U
87-68-3	Hexachlorobutadiene	3500	U
59-50-7	4-Chloro-3-methylphenol	3500	U
91-57-6	2-Methylnaphthalene	3500	U
77-47-4	Hexachlorocyclopentadiene	3500	U
88-06-2	2,4,6-Trichlorophenol	3500	U
95-95-4	2,4,5-Trichlorophenol	8500	U
91-58-7	2-Chloronaphthalene	3500	U
88-74-4	2-Nitroaniline	8500	U
131-11-3	Dimethyl phthalate	3500	U
208-96-8	Acenaphthylene	3500	U
606-20-2	2,6-Dinitrotoluene	3500	U
99-09-2	3-Nitroaniline	8500	U

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000038

Client No.

LSVI34B1G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682310

Sample wt/vol: 30.92 (g/mL) G Lab File ID: Z44619.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 8.3 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Total PAH 0.684 Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: ____ Total cPAH 0.354

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	3500	U
51-28-5	2,4-Dinitrophenol	8500	U
100-02-7	4-Nitrophenol	8500	U
132-64-9	Dibenzofuran	3500	U
121-14-2	2,4-Dinitrotoluene	3500	U
84-66-2	Diethyl phthalate	3500	U
7005-72-3	4-Chlorophenyl phenyl ether	3500	U
86-73-7	Fluorene	3500	U
100-01-6	4-Nitroaniline	8500	U
534-52-1	4,6-Dinitro-2-methylphenol	8500	U
86-30-6	N-nitrosodiphenylamine	3500	U
101-55-3	4-Bromophenyl phenyl ether	3500	U
118-74-1	Hexachlorobenzene	3500	U
87-86-5	Pentachlorophenol	8500	U
85-01-8	Phenanthrene	62	J
120-12-7	Anthracene	3500	U
86-74-8	Carbazole	3500	U
84-74-2	Di-n-butyl phthalate	3500	U
206-44-0	Fluoranthene	120	J
129-00-0	Pyrene	120	J
85-68-7	Butyl benzyl phthalate	3500	U
91-94-1	3,3'-Dichlorobenzidine	3500	U
56-55-3	Benzo(a)anthracene	93	J
218-01-9	Chrysene	53	J
117-81-7	Bis(2-ethylhexyl) phthalate	3500	U
117-84-0	Di-n-octyl phthalate	3500	U
205-99-2	Benzo(b)fluoranthene	120	J
207-08-9	Benzo(k)fluoranthene	3500	U
50-32-8	Benzo(a)pyrene	69	J
193-39-5	Indeno(1,2,3-cd)pyrene	19	J
53-70-3	Dibenzo(a,h)anthracene	3500	U
191-24-2	Benzo(ghi)perylene	28	J

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000039

Client No.

LSVI56B3G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682315

Sample wt/vol: 30.89 (g/mL) G Lab File ID: Z44624.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 9.5 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	18000	U
111-44-4	Bis(2-chloroethyl) ether	18000	U
95-57-8	2-Chlorophenol	18000	U
541-73-1	1,3-Dichlorobenzene	18000	U
106-46-7	1,4-Dichlorobenzene	18000	U
95-50-1	1,2-Dichlorobenzene	18000	U
95-48-7	2-Methylphenol	18000	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	18000	U
106-44-5	4-Methylphenol	18000	U
621-64-7	N-Nitroso-Di-n-propylamine	18000	U
67-72-1	Hexachloroethane	18000	U
98-95-3	Nitrobenzene	18000	U
78-59-1	Isophorone	18000	U
88-75-5	2-Nitrophenol	18000	U
105-67-9	2,4-Dimethylphenol	18000	U
111-91-1	Bis(2-chloroethoxy) methane	18000	U
120-83-2	2,4-Dichlorophenol	18000	U
120-82-1	1,2,4-Trichlorobenzene	18000	U
91-20-3	Naphthalene	12000	J
106-47-8	4-Chloroaniline	18000	U
87-68-3	Hexachlorobutadiene	18000	U
59-50-7	4-Chloro-3-methylphenol	18000	U
91-57-6	2-Methylnaphthalene	11000	J
77-47-4	Hexachlorocyclopentadiene	18000	U
88-06-2	2,4,6-Trichlorophenol	18000	U
95-95-4	2,4,5-Trichlorophenol	43000	U
91-58-7	2-Chloronaphthalene	18000	U
88-74-4	2-Nitroaniline	43000	U
131-11-3	Dimethyl phthalate	18000	U
208-96-8	Acenaphthylene	6400	J
606-20-2	2,6-Dinitrotoluene	18000	U
99-09-2	3-Nitroaniline	43000	U

NEW YORK STATE ELECIRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000040

Client No

LSVI56B3G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682315

Sample wt/vol: 30.89 (g/mL) G Lab File ID: Z44624.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 9.5 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	15000	J
51-28-5	2,4-Dinitrophenol	43000	U
100-02-7	4-Nitrophenol	43000	U
132-64-9	Dibenzofuran	41000	
121-14-2	2,4-Dinitrotoluene	18000	U
84-66-2	Diethyl phthalate	18000	U
7005-72-3	4-Chlorophenyl phenyl ether	18000	U
86-73-7	Fluorene	42000	
100-01-6	4-Nitroaniline	43000	U
534-52-1	4,6-Dinitro-2-methylphenol	43000	U
86-30-6	N-nitrosodiphenylamine	18000	U
101-55-3	4-Bromophenyl phenyl ether	18000	U
118-74-1	Hexachlorobenzene	18000	U
87-86-5	Pentachlorophenol	43000	U
85-01-8	Phenanthrene	240000	E
120-12-7	Anthracene	42000	
86-74-8	Carbazole	26000	
84-74-2	Di-n-butyl phthalate	18000	U
206-44-0	Fluoranthene	200000	E
129-00-0	Pyrene	170000	E
85-68-7	Butyl benzyl phthalate	18000	U
91-94-1	3,3'-Dichlorobenzidine	18000	U
56-55-3	Benzo(a)anthracene	76000	
218-01-9	Chrysene	65000	
117-81-7	Bis(2-ethylhexyl) phthalate	18000	U
117-84-0	Di-n-octyl phthalate	18000	U
205-99-2	Benzo(b)fluoranthene	120000	
207-08-9	Benzo(k)fluoranthene	18000	U
50-32-8	Benzo(a)pyrene	66000	
193-39-5	Indeno(1,2,3-cd)pyrene	14000	J
53-70-3	Dibenzo(a,h)anthracene	1500	J
191-24-2	Benzo(ghi)perylene	12000	J

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000041

Client No.

LSVI56B3G DL

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682315DL

Sample wt/vol: 30.89 (g/mL) G Lab File ID: Z44640.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 9.5 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/16/2000

Injection Volume: 2.00 (uL) Dilution Factor: 20.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	71000	U
111-44-4	Bis(2-chloroethyl) ether	71000	U
95-57-8	2-Chlorophenol	71000	U
541-73-1	1,3-Dichlorobenzene	71000	U
106-46-7	1,4-Dichlorobenzene	71000	U
95-50-1	1,2-Dichlorobenzene	71000	U
95-48-7	2-Methylphenol	71000	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	71000	U
106-44-5	4-Methylphenol	71000	U
621-64-7	N-Nitroso-Di-n-propylamine	71000	U
67-72-1	Hexachloroethane	71000	U
98-95-3	Nitrobenzene	71000	U
78-59-1	Isophorone	71000	U
88-75-5	2-Nitrophenol	71000	U
105-67-9	2,4-Dimethylphenol	71000	U
111-91-1	Bis(2-chloroethoxy) methane	71000	U
120-83-2	2,4-Dichlorophenol	71000	U
120-82-1	1,2,4-Trichlorobenzene	71000	U
91-20-3	Naphthalene	11000	DJ
106-47-8	4-Chloroaniline	71000	U
87-68-3	Hexachlorobutadiene	71000	U
59-50-7	4-Chloro-3-methylphenol	71000	U
91-57-6	2-Methylnaphthalene	8600	DJ
77-47-4	Hexachlorocyclopentadiene	71000	U
88-06-2	2,4,6-Trichlorophenol	71000	U
95-95-4	2,4,5-Trichlorophenol	170000	U
91-58-7	2-Chloronaphthalene	71000	U
88-74-4	2-Nitroaniline	170000	U
131-11-3	Dimethyl phthalate	71000	U
208-96-8	Acenaphthylene	6400	DJ
606-20-2	2,6-Dinitrotoluene	71000	U
99-09-2	3-Nitroaniline	170000	U

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000042

Client No.

LSVI56B3G DL

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682315DL

Sample wt/vol: 30.89 (g/mL) G Lab File ID: Z44640.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 9.5 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/16/2000

Injection Volume: 2.00 (uL) Dilution Factor: 20.00

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

Total PAH 1228

Total cPAH 359.7

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	13000	DJ
51-28-5	2,4-Dinitrophenol	170000	U
100-02-7	4-Nitrophenol	170000	U
132-64-9	Dibenzofuran	37000	DJ
121-14-2	2,4-Dinitrotoluene	71000	U
84-66-2	Diethyl phthalate	71000	U
7005-72-3	4-Chlorophenyl phenyl ether	71000	U
86-73-7	Fluorene	35000	DJ
100-01-6	4-Nitroaniline	170000	U
534-52-1	4,6-Dinitro-2-methylphenol	170000	U
86-30-6	N-nitrosodiphenylamine	71000	U
101-55-3	4-Bromophenyl phenyl ether	71000	U
118-74-1	Hexachlorobenzene	71000	U
87-86-5	Pentachlorophenol	170000	U
85-01-8	Phenanthrene	250000	D
120-12-7	Anthracene	41000	DJ
86-74-8	Carbazole	23000	DJ
84-74-2	Di-n-butyl phthalate	71000	U
206-44-0	Fluoranthene	280000	D
129-00-0	Pyrene	160000	D
85-68-7	Butyl benzyl phthalate	71000	U
91-94-1	3,3'-Dichlorobenzidine	71000	U
56-55-3	Benzo(a)anthracene	86000	D
218-01-9	Chrysene	73000	D
117-81-7	Bis(2-ethylhexyl) phthalate	71000	U
117-84-0	Di-n-octyl phthalate	71000	U
205-99-2	Benzo(b)fluoranthene	76000	D
207-08-9	Benzo(k)fluoranthene	31000	DJ
50-32-8	Benzo(a)pyrene	61000	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	25000	DJ
53-70-3	Dibenzo(a,h)anthracene	7700	DJ
191-24-2	Benzo(ghi)perylene	26000	DJ

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000043

Client No.

LSVI67B4G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682305

Sample wt/vol: 30.12 (g/mL) G Lab File ID: Z44614.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 10.9 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	130	J
111-44-4	Bis(2-chloroethyl) ether	3700	U
95-57-8	2-Chlorophenol	3700	U
541-73-1	1,3-Dichlorobenzene	3700	U
106-46-7	1,4-Dichlorobenzene	3700	U
95-50-1	1,2-Dichlorobenzene	3700	U
95-48-7	2-Methylphenol	3700	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	3700	U
106-44-5	4-Methylphenol	180	J
621-64-7	N-Nitroso-Di-n-propylamine	3700	U
67-72-1	Hexachloroethane	3700	U
98-95-3	Nitrobenzene	3700	U
78-59-1	Isophorone	3700	U
88-75-5	2-Nitrophenol	3700	U
105-67-9	2,4-Dimethylphenol	27	J
111-91-1	Bis(2-chloroethoxy) methane	3700	U
120-83-2	2,4-Dichlorophenol	3700	U
120-82-1	1,2,4-Trichlorobenzene	3700	U
91-20-3	Naphthalene	8000	
106-47-8	4-Chloroaniline	3700	U
87-68-3	Hexachlorobutadiene	3700	U
59-50-7	4-Chloro-3-methylphenol	3700	U
91-57-6	2-Methylnaphthalene	2900	J
77-47-4	Hexachlorocyclopentadiene	3700	U
88-06-2	2,4,6-Trichlorophenol	3700	U
95-95-4	2,4,5-Trichlorophenol	8900	U
91-58-7	2-Chloronaphthalene	3700	U
88-74-4	2-Nitroaniline	8900	U
131-11-3	Dimethyl phthalate	3700	U
208-96-8	Acenaphthylene	470	J
606-20-2	2,6-Dinitrotoluene	3700	U
99-09-2	3-Nitroaniline	8900	U

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000044

Client No

LSVI67B4G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682305

Sample wt/vol: 30.12 (g/mL) G Lab File ID: Z44614.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 10.9 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

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

Total PAH 139.0

Total cPAH 41.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	5400	
51-28-5	2,4-Dinitrophenol	8900	U
100-02-7	4-Nitrophenol	8900	U
132-64-9	Dibenzofuran	4500	
121-14-2	2,4-Dinitrotoluene	3700	U
84-66-2	Diethyl phthalate	3700	U
7005-72-3	4-Chlorophenyl phenyl ether	3700	U
86-73-7	Fluorene	5000	
100-01-6	4-Nitroaniline	8900	U
534-52-1	4,6-Dinitro-2-methylphenol	8900	U
86-30-6	N-nitrosodiphenylamine	3700	U
101-55-3	4-Bromophenyl phenyl ether	3700	U
118-74-1	Hexachlorobenzene	3700	U
87-86-5	Pentachlorophenol	8900	U
85-01-8	Phenanthrene	25000	
120-12-7	Anthracene	6300	
86-74-8	Carbazole	2600	J
84-74-2	Di-n-butyl phthalate	3700	U
206-44-0	Fluoranthene	18000	
129-00-0	Pyrene	18000	
85-68-7	Butyl benzyl phthalate	3700	U
91-94-1	3,3'-Dichlorobenzidine	3700	U
56-55-3	Benzo(a)anthracene	8800	
218-01-9	Chrysene	6400	
117-81-7	Bis(2-ethylhexyl) phthalate	3700	U
117-84-0	Di-n-octyl phthalate	3700	U
205-99-2	Benzo(b)fluoranthene	9100	
207-08-9	Benzo(k)fluoranthene	3200	J
50-32-8	Benzo(a)pyrene	8400	
193-39-5	Indeno(1,2,3-cd)pyrene	4000	
53-70-3	Dibenzo(a,h)anthracene	1100	J
191-24-2	Benzo(ghi)perylene	4400	

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000045

Client No.

LSVI78B1G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682319

Sample wt/vol: 30.12 (g/mL) G Lab File ID: Z44628.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 6.5 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3500	U
111-44-4	Bis(2-chloroethyl) ether	3500	U
95-57-8	2-Chlorophenol	3500	U
541-73-1	1,3-Dichlorobenzene	3500	U
106-46-7	1,4-Dichlorobenzene	3500	U
95-50-1	1,2-Dichlorobenzene	3500	U
95-48-7	2-Methylphenol	3500	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	3500	U
106-44-5	4-Methylphenol	3500	U
621-64-7	N-Nitroso-Di-n-propylamine	3500	U
67-72-1	Hexachloroethane	3500	U
98-95-3	Nitrobenzene	3500	U
78-59-1	Isophorone	3500	U
88-75-5	2-Nitrophenol	3500	U
105-67-9	2,4-Dimethylphenol	3500	U
111-91-1	Bis(2-chloroethoxy) methane	3500	U
120-83-2	2,4-Dichlorophenol	3500	U
120-82-1	1,2,4-Trichlorobenzene	3500	U
91-20-3	Naphthalene	280	J
106-47-8	4-Chloroaniline	3500	U
87-68-3	Hexachlorobutadiene	3500	U
59-50-7	4-Chloro-3-methylphenol	3500	U
91-57-6	2-Methylnaphthalene	200	J
77-47-4	Hexachlorocyclopentadiene	3500	U
88-06-2	2,4,6-Trichlorophenol	3500	U
95-95-4	2,4,5-Trichlorophenol	8500	U
91-58-7	2-Chloronaphthalene	3500	U
88-74-4	2-Nitroaniline	8500	U
131-11-3	Dimethyl phthalate	3500	U
208-96-8	Acenaphthylene	470	J
606-20-2	2,6-Dinitrotoluene	3500	U
99-09-2	3-Nitroaniline	8500	U

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

Client No: LSVI78B1G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682319

Sample wt/vol: 30.12 (g/mL) G Lab File ID: Z44628.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 6.5 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Total PAH 97.00 Dilution Factor: 10.00

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

Total cPAH 34.15

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	1300	J
51-28-5	2,4-Dinitrophenol	8500	U
100-02-7	4-Nitrophenol	8500	U
132-64-9	Dibenzofuran	1500	J
121-14-2	2,4-Dinitrotoluene	3500	U
84-66-2	Diethyl phthalate	3500	U
7005-72-3	4-Chlorophenyl phenyl ether	3500	U
86-73-7	Fluorene	3200	J
100-01-6	4-Nitroaniline	8500	U
534-52-1	4,6-Dinitro-2-methylphenol	8500	U
86-30-6	N-nitrosodiphenylamine	3500	U
101-55-3	4-Bromophenyl phenyl ether	3500	U
118-74-1	Hexachlorobenzene	3500	U
87-86-5	Pentachlorophenol	8500	U
85-01-8	Phenanthrene	17000	
120-12-7	Anthracene	5000	
86-74-8	Carbazole	1400	J
84-74-2	Di-n-butyl phthalate	3500	U
206-44-0	Fluoranthene	18000	
129-00-0	Pyrene	15000	
85-68-7	Butyl benzyl phthalate	3500	U
91-94-1	3,3'-Dichlorobenzidine	3500	U
56-55-3	Benzo(a)anthracene	8200	
218-01-9	Chrysene	5600	
117-81-7	Bis(2-ethylhexyl) phthalate	3500	U
117-84-0	Di-n-octyl phthalate	3500	U
205-99-2	Benzo(b)fluoranthene	9700	
207-08-9	Benzo(k)fluoranthene	3000	J
50-32-8	Benzo(a)pyrene	6200	
193-39-5	Indeno(1,2,3-cd)pyrene	1300	J
53-70-3	Dibenzo(a,h)anthracene	150	J
191-24-2	Benzo(ghi)perylene	1100	J

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000047

Client No.

LSVI78B5G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682302

Sample wt/vol: 30.78 (g/mL) G Lab File ID: Z44608.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 8.0 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/13/2000

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3500	U
111-44-4	Bis(2-chloroethyl) ether	3500	U
95-57-8	2-Chlorophenol	3500	U
541-73-1	1,3-Dichlorobenzene	3500	U
106-46-7	1,4-Dichlorobenzene	3500	U
95-50-1	1,2-Dichlorobenzene	3500	U
95-48-7	2-Methylphenol	3500	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	3500	U
106-44-5	4-Methylphenol	3500	U
621-64-7	N-Nitroso-Di-n-propylamine	3500	U
67-72-1	Hexachloroethane	3500	U
98-95-3	Nitrobenzene	3500	U
78-59-1	Isophorone	3500	U
88-75-5	2-Nitrophenol	3500	U
105-67-9	2,4-Dimethylphenol	3500	U
111-91-1	Bis(2-chloroethoxy) methane	3500	U
120-83-2	2,4-Dichlorophenol	3500	U
120-82-1	1,2,4-Trichlorobenzene	3500	U
91-20-3	Naphthalene	19	J
106-47-8	4-Chloroaniline	3500	U
87-68-3	Hexachlorobutadiene	3500	U
59-50-7	4-Chloro-3-methylphenol	3500	U
91-57-6	2-Methylnaphthalene	3500	U
77-47-4	Hexachlorocyclopentadiene	3500	U
88-06-2	2,4,6-Trichlorophenol	3500	U
95-95-4	2,4,5-Trichlorophenol	8500	U
91-58-7	2-Chloronaphthalene	3500	U
88-74-4	2-Nitroaniline	8500	U
131-11-3	Dimethyl phthalate	3500	U
208-96-8	Acenaphthylene	210	J
606-20-2	2,6-Dinitrotoluene	3500	U
99-09-2	3-Nitroaniline	8500	U

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000048

Client No.

LSVI78B5G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682302

Sample wt/vol: 30.78 (g/mL) G Lab File ID: Z44608.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 8.0 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/13/2000

Injection Volume: 2.00 (uL) Total PAH 11.18 Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: ____ Total cPAH 5.570

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	3500	U
51-28-5	2,4-Dinitrophenol	8500	U
100-02-7	4-Nitrophenol	8500	U
132-64-9	Dibenzofuran	38	J
121-14-2	2,4-Dinitrotoluene	3500	U
84-66-2	Diethyl phthalate	3500	U
7005-72-3	4-Chlorophenyl phenyl ether	3500	U
86-73-7	Fluorene	140	J
100-01-6	4-Nitroaniline	8500	U
534-52-1	4,6-Dinitro-2-methylphenol	8500	U
86-30-6	N-nitrosodiphenylamine	3500	U
101-55-3	4-Bromophenyl phenyl ether	3500	U
118-74-1	Hexachlorobenzene	3500	U
87-86-5	Pentachlorophenol	8500	U
85-01-8	Phenanthrene	1800	J
120-12-7	Anthracene	260	J
86-74-8	Carbazole	120	J
84-74-2	Di-n-butyl phthalate	3500	U
206-44-0	Fluoranthene	2300	J
129-00-0	Pyrene	1900	J
85-68-7	Butyl benzyl phthalate	3500	U
91-94-1	3,3'-Dichlorobenzidine	3500	U
56-55-3	Benzo(a)anthracene	1400	J
218-01-9	Chrysene	860	J
117-81-7	Bis(2-ethylhexyl) phthalate	3500	U
117-84-0	Di-n-octyl phthalate	3500	U
205-99-2	Benzo(b)fluoranthene	1700	J
207-08-9	Benzo(k)fluoranthene	3500	U
50-32-8	Benzo(a)pyrene	940	J
193-39-5	Indeno(1,2,3-cd)pyrene	530	J
53-70-3	Dibenzo(a,h)anthracene	140	J
191-24-2	Benzo(ghi)perylene	560	J

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000049

Client No.

LSVI89B4G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682306

Sample wt/vol: 30.82 (g/mL) G Lab File ID: Z44636.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 8.9 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/16/2000

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	38	J
111-44-4	Bis(2-chloroethyl) ether	1800	U
95-57-8	2-Chlorophenol	1800	U
541-73-1	1,3-Dichlorobenzene	1800	U
106-46-7	1,4-Dichlorobenzene	1800	U
95-50-1	1,2-Dichlorobenzene	1800	U
95-48-7	2-Methylphenol	1800	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1800	U
106-44-5	4-Methylphenol	30	J
621-64-7	N-Nitroso-Di-n-propylamine	1800	U
67-72-1	Hexachloroethane	1800	U
98-95-3	Nitrobenzene	1800	U
78-59-1	Isophorone	1800	U
88-75-5	2-Nitrophenol	1800	U
105-67-9	2,4-Dimethylphenol	1800	U
111-91-1	Bis(2-chloroethoxy) methane	1800	U
120-83-2	2,4-Dichlorophenol	1800	U
120-82-1	1,2,4-Trichlorobenzene	1800	U
91-20-3	Naphthalene	2200	
106-47-8	4-Chloroaniline	1800	U
87-68-3	Hexachlorobutadiene	1800	U
59-50-7	4-Chloro-3-methylphenol	1800	U
91-57-6	2-Methylnaphthalene	820	J
77-47-4	Hexachlorocyclopentadiene	1800	U
88-06-2	2,4,6-Trichlorophenol	1800	U
95-95-4	2,4,5-Trichlorophenol	4300	U
91-58-7	2-Chloronaphthalene	1800	U
88-74-4	2-Nitroaniline	4300	U
131-11-3	Dimethyl phthalate	1800	U
208-96-8	Acenaphthylene	420	J
606-20-2	2,6-Dinitrotoluene	1800	U
99-09-2	3-Nitroaniline	4300	U

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000050

Client No.: LSVI89B4G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682306

Sample wt/vol: 30.82 (g/mL) G Lab File ID: Z44636.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 8.9 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/16/2000

Injection Volume: 2.00 (uL) Total PAH 54.45 Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: ____ Total cPAH 18.71

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	1200	J
51-28-5	2,4-Dinitrophenol	4300	U
100-02-7	4-Nitrophenol	4300	U
132-64-9	Dibenzofuran	1200	J
121-14-2	2,4-Dinitrotoluene	1800	U
84-66-2	Diethyl phthalate	1800	U
7005-72-3	4-Chlorophenyl phenyl ether	1800	U
86-73-7	Fluorene	1300	J
100-01-6	4-Nitroaniline	4300	U
534-52-1	4,6-Dinitro-2-methylphenol	4300	U
86-30-6	N-nitrosodiphenylamine	1800	U
101-55-3	4-Bromophenyl phenyl ether	1800	U
118-74-1	Hexachlorobenzene	1800	U
87-86-5	Pentachlorophenol	4300	U
85-01-8	Phenanthrene	7400	
120-12-7	Anthracene	2400	
86-74-8	Carbazole	950	J
84-74-2	Di-n-butyl phthalate	1800	U
206-44-0	Fluoranthene	10000	
129-00-0	Pyrene	6700	
85-68-7	Butyl benzyl phthalate	1800	U
91-94-1	3,3'-Dichlorobenzidine	1800	U
56-55-3	Benzo(a)anthracene	4200	
218-01-9	Chrysene	3600	
117-81-7	Bis(2-ethylhexyl) phthalate	1800	U
117-84-0	Di-n-octyl phthalate	1800	U
205-99-2	Benzo(b)fluoranthene	4000	
207-08-9	Benzo(k)fluoranthene	1200	J
50-32-8	Benzo(a)pyrene	3400	
193-39-5	Indeno(1,2,3-cd)pyrene	1700	J
53-70-3	Dibenzo(a,h)anthracene	610	J
191-24-2	Benzo(ghi)perylene	2100	

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000051

Client No.

LSVI10I1BIG

ab Name: STL Buffalo Contract: 98-153

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

trix: (soil/water) SOIL Lab Sample ID: A0682311

ample wt/vol: 30.27 (g/mL) G Lab File ID: Z44620.RR

vel: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

Moisture: 12.4 decanted: (Y/N) N Date Extracted: 09/29/2000

ncentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

jection Volume: 2.00 (uL) Dilution Factor: 5.00

PC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1900	U
111-44-4	Bis(2-chloroethyl) ether	1900	U
95-57-8	2-Chlorophenol	1900	U
541-73-1	1,3-Dichlorobenzene	1900	U
106-46-7	1,4-Dichlorobenzene	1900	U
95-50-1	1,2-Dichlorobenzene	1900	U
95-48-7	2-Methylphenol	1900	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1900	U
106-44-5	4-Methylphenol	1900	U
621-64-7	N-Nitroso-Di-n-propylamine	1900	U
67-72-1	Hexachloroethane	1900	U
98-95-3	Nitrobenzene	1900	U
78-59-1	Isophorone	1900	U
88-75-5	2-Nitrophenol	1900	U
105-67-9	2,4-Dimethylphenol	1900	U
111-91-1	Bis(2-chloroethoxy) methane	1900	U
120-83-2	2,4-Dichlorophenol	1900	U
120-82-1	1,2,4-Trichlorobenzene	1900	U
91-20-3	Naphthalene	1900	U
106-47-8	4-Chloroaniline	1900	U
87-68-3	Hexachlorobutadiene	1900	U
59-50-7	4-Chloro-3-methylphenol	1900	U
91-57-6	2-Methylnaphthalene	1900	U
77-47-4	Hexachlorocyclopentadiene	1900	U
88-06-2	2,4,6-Trichlorophenol	1900	U
95-95-4	2,4,5-Trichlorophenol	4500	U
91-58-7	2-Chloronaphthalene	1900	U
88-74-4	2-Nitroaniline	4500	U
131-11-3	Dimethyl phthalate	1900	U
208-96-8	Acenaphthylene	17	J
606-20-2	2,6-Dinitrotoluene	1900	U
99-09-2	3-Nitroaniline	4500	U

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000052
Client No.

LSVI1011B1G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682311

Sample wt/vol: 30.27 (g/mL) G Lab File ID: Z44620.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 12.4 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

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

Total PAH 2.140

Total cPAH .924

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	1900	U
51-28-5	2,4-Dinitrophenol	4500	U
100-02-7	4-Nitrophenol	4500	U
132-64-9	Dibenzofuran	1900	U
121-14-2	2,4-Dinitrotoluene	1900	U
84-66-2	Diethyl phthalate	1900	U
7005-72-3	4-Chlorophenyl phenyl ether	1900	U
86-73-7	Fluorene	19	J
100-01-6	4-Nitroaniline	4500	U
534-52-1	4,6-Dinitro-2-methylphenol	4500	U
86-30-6	N-nitrosodiphenylamine	1900	U
101-55-3	4-Bromophenyl phenyl ether	1900	U
118-74-1	Hexachlorobenzene	1900	U
87-86-5	Pentachlorophenol	4500	U
85-01-8	Phenanthrene	270	J
120-12-7	Anthracene	41	J
86-74-8	Carbazole	17	J
84-74-2	Di-n-butyl phthalate	1900	U
206-44-0	Fluoranthene	420	J
129-00-0	Pyrene	400	J
85-68-7	Butyl benzyl phthalate	1900	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
56-55-3	Benzo(a)anthracene	250	J
218-01-9	Chrysene	160	J
117-81-7	Bis(2-ethylhexyl) phthalate	1900	U
117-84-0	Di-n-octyl phthalate	1900	U
205-99-2	Benzo(b)fluoranthene	300	J
207-08-9	Benzo(k)fluoranthene	1900	U
50-32-8	Benzo(a)pyrene	160	J
193-39-5	Indeno(1,2,3-cd)pyrene	54	J
53-70-3	Dibenzo(a,h)anthracene	1900	U
191-24-2	Benzo(ghi)perylene	49	J

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000053

Client No.

LSVI1012B5G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682303

Sample wt/vol: 30.31 (g/mL) G Lab File ID: Z44612.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 13.6 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1900	U
111-44-4	Bis(2-chloroethyl) ether	1900	U
95-57-8	2-Chlorophenol	1900	U
541-73-1	1,3-Dichlorobenzene	1900	U
106-46-7	1,4-Dichlorobenzene	1900	U
95-50-1	1,2-Dichlorobenzene	1900	U
95-48-7	2-Methylphenol	1900	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1900	U
106-44-5	4-Methylphenol	1900	U
621-64-7	N-Nitroso-Di-n-propylamine	1900	U
67-72-1	Hexachloroethane	1900	U
98-95-3	Nitrobenzene	1900	U
78-59-1	Isophorone	1900	U
88-75-5	2-Nitrophenol	1900	U
105-67-9	2,4-Dimethylphenol	1900	U
111-91-1	Bis(2-chloroethoxy) methane	1900	U
120-83-2	2,4-Dichlorophenol	1900	U
120-82-1	1,2,4-Trichlorobenzene	1900	U
91-20-3	Naphthalene	1900	U
106-47-8	4-Chloroaniline	1900	U
87-68-3	Hexachlorobutadiene	1900	U
59-50-7	4-Chloro-3-methylphenol	1900	U
91-57-6	2-Methylnaphthalene	1900	U
77-47-4	Hexachlorocyclopentadiene	1900	U
88-06-2	2,4,6-Trichlorophenol	1900	U
95-95-4	2,4,5-Trichlorophenol	4600	U
91-58-7	2-Chloronaphthalene	1900	U
88-74-4	2-Nitroaniline	4600	U
131-11-3	Dimethyl phthalate	1900	U
208-96-8	Acenaphthylene	130	J
606-20-2	2,6-Dinitrotoluene	1900	U
99-09-2	3-Nitroaniline	4600	U

NEW YORK STATE ELECIRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000054

Client No.

LSVI1012B5G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682303

Sample wt/vol: 30.31 (g/mL) G Lab File ID: Z44612.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 13.6 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 5.00

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

Total CPAH 24.44

Total CPAH 10.20

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	180	J
51-28-5	2,4-Dinitrophenol	4600	U
100-02-7	4-Nitrophenol	4600	U
132-64-9	Dibenzofuran	110	J
121-14-2	2,4-Dinitrotoluene	1900	U
84-66-2	Diethyl phthalate	1900	U
7005-72-3	4-Chlorophenyl phenyl ether	1900	U
86-73-7	Fluorene	210	J
100-01-6	4-Nitroaniline	4600	U
534-52-1	4,6-Dinitro-2-methylphenol	4600	U
86-30-6	N-nitrosodiphenylamine	1900	U
101-55-3	4-Bromophenyl phenyl ether	1900	U
118-74-1	Hexachlorobenzene	1900	U
87-86-5	Pentachlorophenol	4600	U
85-01-8	Phenanthrene	3200	
120-12-7	Anthracene	710	J
86-74-8	Carbazole	250	J
84-74-2	Di-n-butyl phthalate	1900	U
206-44-0	Fluoranthene	4400	
129-00-0	Pyrene	4000	
85-68-7	Butyl benzyl phthalate	1900	U
91-94-1	3,3'-Dichlorobenzidine	1900	U
56-55-3	Benzo(a)anthracene	2300	
218-01-9	Chrysene	1700	J
117-81-7	Bis(2-ethylhexyl) phthalate	10	J
117-84-0	Di-n-octyl phthalate	1900	U
205-99-2	Benzo(b)fluoranthene	2400	
207-08-9	Benzo(k)fluoranthene	710	J
50-32-8	Benzo(a)pyrene	1800	J
193-39-5	Indeno(1,2,3-cd)pyrene	1000	J
53-70-3	Dibenzo(a,h)anthracene	290	J
191-24-2	Benzo(ghi)perylene	1300	J

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000055
Client No.

LSVI1315B4G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682307

Sample wt/vol: 30.78 (g/mL) G Lab File ID: Z44616.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 10.9 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3600	U
111-44-4	Bis(2-chloroethyl) ether	3600	U
95-57-8	2-Chlorophenol	3600	U
541-73-1	1,3-Dichlorobenzene	3600	U
106-46-7	1,4-Dichlorobenzene	3600	U
95-50-1	1,2-Dichlorobenzene	3600	U
95-48-7	2-Methylphenol	3600	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	3600	U
106-44-5	4-Methylphenol	3600	U
621-64-7	N-Nitroso-Di-n-propylamine	3600	U
67-72-1	Hexachloroethane	3600	U
98-95-3	Nitrobenzene	3600	U
78-59-1	Isophorone	3600	U
88-75-5	2-Nitrophenol	3600	U
105-67-9	2,4-Dimethylphenol	3600	U
111-91-1	Bis(2-chloroethoxy) methane	3600	U
120-83-2	2,4-Dichlorophenol	3600	U
120-82-1	1,2,4-Trichlorobenzene	3600	U
91-20-3	Naphthalene	930	J
106-47-8	4-Chloroaniline	3600	U
87-68-3	Hexachlorobutadiene	3600	U
59-50-7	4-Chloro-3-methylphenol	3600	U
91-57-6	2-Methylnaphthalene	320	J
77-47-4	Hexachlorocyclopentadiene	3600	U
88-06-2	2,4,6-Trichlorophenol	3600	U
95-95-4	2,4,5-Trichlorophenol	8800	U
91-58-7	2-Chloronaphthalene	3600	U
88-74-4	2-Nitroaniline	8800	U
131-11-3	Dimethyl phthalate	3600	U
208-96-8	Acenaphthylene	4500	
606-20-2	2,6-Dinitrotoluene	3600	U
99-09-2	3-Nitroaniline	8800	U

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000056

Client No

LSVI1315B4G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682307

Sample wt/vol: 30.78 (g/mL) G Lab File ID: Z44616.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 10.9 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Total PAH 36.69 Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: ____ Total CPAH 17.14

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	570	J
51-28-5	2,4-Dinitrophenol	8800	U
100-02-7	4-Nitrophenol	8800	U
132-64-9	Dibenzofuran	510	J
121-14-2	2,4-Dinitrotoluene	3600	U
84-66-2	Diethyl phthalate	3600	U
7005-72-3	4-Chlorophenyl phenyl ether	3600	U
86-73-7	Fluorene	720	J
100-01-6	4-Nitroaniline	8800	U
534-52-1	4,6-Dinitro-2-methylphenol	8800	U
86-30-6	N-nitrosodiphenylamine	3600	U
101-55-3	4-Bromophenyl phenyl ether	3600	U
118-74-1	Hexachlorobenzene	3600	U
87-86-5	Pentachlorophenol	8800	U
85-01-8	Phenanthrene	3000	J
120-12-7	Anthracene	1100	J
86-74-8	Carbazole	360	J
84-74-2	Di-n-butyl phthalate	3600	U
206-44-0	Fluoranthene	2300	J
129-00-0	Pyrene	3000	J
85-68-7	Butyl benzyl phthalate	3600	U
91-94-1	3,3'-Dichlorobenzidine	3600	U
56-55-3	Benzo(a)anthracene	3600	
218-01-9	Chrysene	3600	U
117-81-7	Bis(2-ethylhexyl) phthalate	3600	U
117-84-0	Di-n-octyl phthalate	3600	U
205-99-2	Benzo(b)fluoranthene	5500	
207-08-9	Benzo(k)fluoranthene	3600	U
50-32-8	Benzo(a)pyrene	5800	
193-39-5	Indeno(1,2,3-cd)pyrene	2000	J
53-70-3	Dibenzo(a,h)anthracene	240	J
191-24-2	Benzo(ghi)perylene	2600	J

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000057
Client No.

LSVI1213B1G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682312

Sample wt/vol: 30.47 (g/mL) G Lab File ID: Z44621.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 11.5 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3700	U
111-44-4	Bis(2-chloroethyl) ether	3700	U
95-57-8	2-Chlorophenol	3700	U
541-73-1	1,3-Dichlorobenzene	3700	U
106-46-7	1,4-Dichlorobenzene	3700	U
95-50-1	1,2-Dichlorobenzene	3700	U
95-48-7	2-Methylphenol	3700	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	3700	U
106-44-5	4-Methylphenol	3700	U
621-64-7	N-Nitroso-Di-n-propylamine	3700	U
67-72-1	Hexachloroethane	3700	U
98-95-3	Nitrobenzene	3700	U
78-59-1	Isophorone	3700	U
88-75-5	2-Nitrophenol	3700	U
105-67-9	2,4-Dimethylphenol	3700	U
111-91-1	Bis(2-chloroethoxy) methane	3700	U
120-83-2	2,4-Dichlorophenol	3700	U
120-82-1	1,2,4-Trichlorobenzene	3700	U
91-20-3	Naphthalene	140	J
106-47-8	4-Chloroaniline	3700	U
87-68-3	Hexachlorobutadiene	3700	U
59-50-7	4-Chloro-3-methylphenol	3700	U
91-57-6	2-Methylnaphthalene	43	J
77-47-4	Hexachlorocyclopentadiene	3700	U
88-06-2	2,4,6-Trichlorophenol	3700	U
95-95-4	2,4,5-Trichlorophenol	8900	U
91-58-7	2-Chloronaphthalene	3700	U
88-74-4	2-Nitroaniline	8900	U
131-11-3	Dimethyl phthalate	3700	U
208-96-8	Acenaphthylene	420	J
606-20-2	2,6-Dinitrotoluene	3700	U
99-09-2	3-Nitroaniline	8900	U

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000058

Client No.

LSVI1213B1G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682312

Sample wt/vol: 30.47 (g/mL) G Lab File ID: Z44621.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 11.5 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

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

Total PAH 37.72

Total PAH 13.93

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	250	J
51-28-5	2,4-Dinitrophenol	8900	U
100-02-7	4-Nitrophenol	8900	U
132-64-9	Dibenzofuran	380	J
121-14-2	2,4-Dinitrotoluene	3700	U
84-66-2	Diethyl phthalate	3700	U
7005-72-3	4-Chlorophenyl phenyl ether	3700	U
86-73-7	Fluorene	790	J
100-01-6	4-Nitroaniline	8900	U
534-52-1	4,6-Dinitro-2-methylphenol	8900	U
86-30-6	N-nitrosodiphenylamine	3700	U
101-55-3	4-Bromophenyl phenyl ether	3700	U
118-74-1	Hexachlorobenzene	3700	U
87-86-5	Pentachlorophenol	8900	U
85-01-8	Phenanthrene	5900	
120-12-7	Anthracene	1200	J
86-74-8	Carbazole	650	J
84-74-2	Di-n-butyl phthalate	3700	U
206-44-0	Fluoranthene	7900	
129-00-0	Pyrene	6000	
85-68-7	Butyl benzyl phthalate	3700	U
91-94-1	3,3'-Dichlorobenzidine	3700	U
56-55-3	Benzo(a)anthracene	3000	J
218-01-9	Chrysene	2900	J
117-81-7	Bis(2-ethylhexyl) phthalate	3700	U
117-84-0	Di-n-octyl phthalate	3700	U
205-99-2	Benzo(b)fluoranthene	3400	J
207-08-9	Benzo(k)fluoranthene	1200	J
50-32-8	Benzo(a)pyrene	2400	J
193-39-5	Indeno(1,2,3-cd)pyrene	790	J
53-70-3	Dibenzo(a,h)anthracene	240	J
191-24-2	Benzo(ghi)perylene	770	J

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000059

Client No.

LSVI1719B4G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682308

Sample wt/vol: 30.73 (g/mL) G Lab File ID: Z44637.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 7.4 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/16/2000

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3500	U
111-44-4	Bis(2-chloroethyl) ether	3500	U
95-57-8	2-Chlorophenol	3500	U
541-73-1	1,3-Dichlorobenzene	3500	U
106-46-7	1,4-Dichlorobenzene	3500	U
95-50-1	1,2-Dichlorobenzene	3500	U
95-48-7	2-Methylphenol	3500	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	3500	U
106-44-5	4-Methylphenol	3500	U
621-64-7	N-Nitroso-Di-n-propylamine	3500	U
67-72-1	Hexachloroethane	3500	U
98-95-3	Nitrobenzene	3500	U
78-59-1	Isophorone	3500	U
88-75-5	2-Nitrophenol	3500	U
105-67-9	2,4-Dimethylphenol	3500	U
111-91-1	Bis(2-chloroethoxy) methane	3500	U
120-83-2	2,4-Dichlorophenol	3500	U
120-82-1	1,2,4-Trichlorobenzene	3500	U
91-20-3	Naphthalene	560	J
106-47-8	4-Chloroaniline	3500	U
87-68-3	Hexachlorobutadiene	3500	U
59-50-7	4-Chloro-3-methylphenol	3500	U
91-57-6	2-Methylnaphthalene	170	J
77-47-4	Hexachlorocyclopentadiene	3500	U
88-06-2	2,4,6-Trichlorophenol	3500	U
95-95-4	2,4,5-Trichlorophenol	8400	U
91-58-7	2-Chloronaphthalene	3500	U
88-74-4	2-Nitroaniline	8400	U
131-11-3	Dimethyl phthalate	3500	U
208-96-8	Acenaphthylene	4300	
606-20-2	2,6-Dinitrotoluene	3500	U
99-09-2	3-Nitroaniline	8400	U

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000060

Client No: LSVI1719B4G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682308

Sample wt/vol: 30.73 (g/mL) G Lab File ID: Z44637.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 7.4 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/16/2000

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

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

Total BNA 31,39

Total CBNA 15,93

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	320	J
51-28-5	2,4-Dinitrophenol	8400	U
100-02-7	4-Nitrophenol	8400	U
132-64-9	Dibenzofuran	230	J
121-14-2	2,4-Dinitrotoluene	3500	U
84-66-2	Diethyl phthalate	3500	U
7005-72-3	4-Chlorophenyl phenyl ether	3500	U
86-73-7	Fluorene	510	J
100-01-6	4-Nitroaniline	8400	U
534-52-1	4,6-Dinitro-2-methylphenol	8400	U
86-30-6	N-nitrosodiphenylamine	3500	U
101-55-3	4-Bromophenyl phenyl ether	3500	U
118-74-1	Hexachlorobenzene	3500	U
87-86-5	Pentachlorophenol	8400	U
85-01-8	Phenanthrene	1500	J
120-12-7	Anthracene	970	J
86-74-8	Carbazole	210	J
84-74-2	Di-n-butyl phthalate	3500	U
206-44-0	Fluoranthene	1800	J
129-00-0	Pyrene	2100	J
85-68-7	Butyl benzyl phthalate	3500	U
91-94-1	3,3'-Dichlorobenzidine	3500	U
56-55-3	Benzo(a)anthracene	1400	J
218-01-9	Chrysene	1900	J
117-81-7	Bis(2-ethylhexyl) phthalate	3500	U
117-84-0	Di-n-octyl phthalate	3500	U
205-99-2	Benzo(b)fluoranthene	4400	
207-08-9	Benzo(k)fluoranthene	3500	U
50-32-8	Benzo(a)pyrene	5500	
193-39-5	Indeno(1,2,3-cd)pyrene	2100	J
53-70-3	Dibenzo(a,h)anthracene	630	J
191-24-2	Benzo(ghi)perylene	3000	J

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000061

Client No.

LSVI2123B4G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682309

Sample wt/vol: 30.82 (g/mL) G Lab File ID: Z44618.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 17.2 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	7	J
111-44-4	Bis(2-chloroethyl) ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-Di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	Bis(2-chloroethoxy) methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	70	J
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	21	J
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	940	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	940	U
131-11-3	Dimethyl phthalate	390	U
208-96-8	Acenaphthylene	43	J
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	940	U

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000062

Client No.

LSVI2123B4G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682309

Sample wt/vol: 30.82 (g/mL) G Lab File ID: Z44618.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 17.2 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

Total PAH 1.811

Total cPAH 0.693

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	38	J
51-28-5	2,4-Dinitrophenol	940	U
100-02-7	4-Nitrophenol	940	U
132-64-9	Dibenzofuran	31	J
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethyl phthalate	390	U
7005-72-3	4-Chlorophenyl phenyl ether	390	U
86-73-7	Fluorene	28	J
100-01-6	4-Nitroaniline	940	U
534-52-1	4,6-Dinitro-2-methylphenol	940	U
86-30-6	N-nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl phenyl ether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	940	U
85-01-8	Phenanthrene	260	J
120-12-7	Anthracene	62	J
86-74-8	Carbazole	23	J
84-74-2	Di-n-butyl phthalate	390	U
206-44-0	Fluoranthene	230	J
129-00-0	Pyrene	260	J
85-68-7	Butyl benzyl phthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	140	J
218-01-9	Chrysene	100	J
117-81-7	Bis(2-ethylhexyl) phthalate	24	J
117-84-0	Di-n-octyl phthalate	5	J
205-99-2	Benzo(b)fluoranthene	230	J
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	140	J
193-39-5	Indeno(1,2,3-cd)pyrene	67	J
53-70-3	Dibenzo(a,h)anthracene	16	J
191-24-2	Benzo(ghi)perylene	75	J

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000063

Client No.

LSVISS0IC

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682317

Sample wt/vol: 30.05 (g/mL) G Lab File ID: Z44626.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 5.5 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3500	U
111-44-4	Bis(2-chloroethyl) ether	3500	U
95-57-8	2-Chlorophenol	3500	U
541-73-1	1,3-Dichlorobenzene	3500	U
106-46-7	1,4-Dichlorobenzene	3500	U
95-50-1	1,2-Dichlorobenzene	3500	U
95-48-7	2-Methylphenol	3500	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	3500	U
106-44-5	4-Methylphenol	3500	U
621-64-7	N-Nitroso-Di-n-propylamine	3500	U
67-72-1	Hexachloroethane	3500	U
98-95-3	Nitrobenzene	3500	U
78-59-1	Isophorone	3500	U
88-75-5	2-Nitrophenol	3500	U
105-67-9	2,4-Dimethylphenol	3500	U
111-91-1	Bis(2-chloroethoxy) methane	3500	U
120-83-2	2,4-Dichlorophenol	3500	U
120-82-1	1,2,4-Trichlorobenzene	3500	U
91-20-3	Naphthalene	3500	U
106-47-8	4-Chloroaniline	3500	U
87-68-3	Hexachlorobutadiene	3500	U
59-50-7	4-Chloro-3-methylphenol	3500	U
91-57-6	2-Methylnaphthalene	3500	U
77-47-4	Hexachlorocyclopentadiene	3500	U
88-06-2	2,4,6-Trichlorophenol	3500	U
95-95-4	2,4,5-Trichlorophenol	8400	U
91-58-7	2-Chloronaphthalene	3500	U
88-74-4	2-Nitroaniline	8400	U
131-11-3	Dimethyl phthalate	3500	U
208-96-8	Acenaphthylene	51	J
606-20-2	2,6-Dinitrotoluene	3500	U
99-09-2	3-Nitroaniline	8400	U

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000084

Client No.

LSVISS01C

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682317

Sample wt/vol: 30.05 (g/mL) G Lab File ID: Z44626.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 5.5 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Total PAH 5.899 Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: ____ Total CPAH 2.600

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	21	J
51-28-5	2,4-Dinitrophenol	8400	U
100-02-7	4-Nitrophenol	8400	U
132-64-9	Dibenzofuran	3500	U
121-14-2	2,4-Dinitrotoluene	3500	U
84-66-2	Diethyl phthalate	3500	U
7005-72-3	4-Chlorophenyl phenyl ether	3500	U
86-73-7	Fluorene	47	J
100-01-6	4-Nitroaniline	8400	U
534-52-1	4,6-Dinitro-2-methylphenol	8400	U
86-30-6	N-nitrosodiphenylamine	3500	U
101-55-3	4-Bromophenyl phenyl ether	3500	U
118-74-1	Hexachlorobenzene	3500	U
87-86-5	Pentachlorophenol	8400	U
85-01-8	Phenanthrene	780	J
120-12-7	Anthracene	150	J
86-74-8	Carbazole	75	J
84-74-2	Di-n-butyl phthalate	3500	U
206-44-0	Fluoranthene	950	J
129-00-0	Pyrene	1200	J
85-68-7	Butyl benzyl phthalate	3500	U
91-94-1	3,3'-Dichlorobenzidine	3500	U
56-55-3	Benzo(a)anthracene	600	J
218-01-9	Chrysene	440	J
117-81-7	Bis(2-ethylhexyl) phthalate	3500	U
117-84-0	Di-n-octyl phthalate	3500	U
205-99-2	Benzo(b)fluoranthene	950	J
207-08-9	Benzo(k)fluoranthene	3500	U
50-32-8	Benzo(a)pyrene	490	J
193-39-5	Indeno(1,2,3-cd)pyrene	120	J
53-70-3	Dibenzo(a,h)anthracene	3500	U
191-24-2	Benzo(ghi)perylene	100	J

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000065

Client No.

LSVISS02C

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682320

Sample wt/vol: 30.31 (g/mL) G Lab File ID: Z44629.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 20.3 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	4100	U
111-44-4	Bis(2-chloroethyl) ether	4100	U
95-57-8	2-Chlorophenol	4100	U
541-73-1	1,3-Dichlorobenzene	4100	U
106-46-7	1,4-Dichlorobenzene	4100	U
95-50-1	1,2-Dichlorobenzene	4100	U
95-48-7	2-Methylphenol	4100	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	4100	U
106-44-5	4-Methylphenol	4100	U
621-64-7	N-Nitroso-Di-n-propylamine	4100	U
67-72-1	Hexachloroethane	4100	U
98-95-3	Nitrobenzene	4100	U
78-59-1	Isophorone	4100	U
88-75-5	2-Nitrophenol	4100	U
105-67-9	2,4-Dimethylphenol	4100	U
111-91-1	Bis(2-chloroethoxy) methane	4100	U
120-83-2	2,4-Dichlorophenol	4100	U
120-82-1	1,2,4-Trichlorobenzene	4100	U
91-20-3	Naphthalene	4100	U
106-47-8	4-Chloroaniline	4100	U
87-68-3	Hexachlorobutadiene	4100	U
59-50-7	4-Chloro-3-methylphenol	4100	U
91-57-6	2-Methylnaphthalene	4100	U
77-47-4	Hexachlorocyclopentadiene	4100	U
88-06-2	2,4,6-Trichlorophenol	4100	U
95-95-4	2,4,5-Trichlorophenol	9900	U
91-58-7	2-Chloronaphthalene	4100	U
88-74-4	2-Nitroaniline	9900	U
131-11-3	Dimethyl phthalate	4100	U
208-96-8	Acenaphthylene	4100	U
606-20-2	2,6-Dinitrotoluene	4100	U
99-09-2	3-Nitroaniline	9900	U

NEW YORK STATE ELECTRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000066

Client No.

LSVISS02C

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682320

Sample wt/vol: 30.31 (g/mL) G Lab File ID: Z44629.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 20.3 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

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

Total PAH 7.393
Total cPAH 3.546

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	4100	U
51-28-5	2,4-Dinitrophenol	9900	U
100-02-7	4-Nitrophenol	9900	U
132-64-9	Dibenzofuran	4100	U
121-14-2	2,4-Dinitrotoluene	4100	U
84-66-2	Diethyl phthalate	4100	U
7005-72-3	4-Chlorophenyl phenyl ether	4100	U
86-73-7	Fluorene	27	J
100-01-6	4-Nitroaniline	9900	U
534-52-1	4,6-Dinitro-2-methylphenol	9900	U
86-30-6	N-nitrosodiphenylamine	4100	U
101-55-3	4-Bromophenyl phenyl ether	4100	U
118-74-1	Hexachlorobenzene	4100	U
87-86-5	Pentachlorophenol	9900	U
85-01-8	Phenanthrene	780	J
120-12-7	Anthracene	110	J
86-74-8	Carbazole	4100	U
84-74-2	Di-n-butyl phthalate	4100	U
206-44-0	Fluoranthene	1400	J
129-00-0	Pyrene	1400	J
85-68-7	Butyl benzyl phthalate	4100	U
91-94-1	3,3'-Dichlorobenzidine	4100	U
56-55-3	Benzo(a)anthracene	740	J
218-01-9	Chrysene	590	J
117-81-7	Bis(2-ethylhexyl) phthalate	4100	U
117-84-0	Di-n-octyl phthalate	4100	U
205-99-2	Benzo(b)fluoranthene	1400	J
207-08-9	Benzo(k)fluoranthene	4100	U
50-32-8	Benzo(a)pyrene	660	J
193-39-5	Indeno(1,2,3-cd)pyrene	130	J
53-70-3	Dibenzo(a,h)anthracene	26	J
191-24-2	Benzo(ghi)perylene	130	J

NEW YORK STATE ELECIRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000067

Client No.

LSVISS03C

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682318

Sample wt/vol: 30.21 (g/mL) G Lab File ID: Z44627.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 28.2 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	4600	U
111-44-4	Bis(2-chloroethyl) ether	4600	U
95-57-8	2-Chlorophenol	4600	U
541-73-1	1,3-Dichlorobenzene	4600	U
106-46-7	1,4-Dichlorobenzene	4600	U
95-50-1	1,2-Dichlorobenzene	4600	U
95-48-7	2-Methylphenol	4600	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	4600	U
106-44-5	4-Methylphenol	4600	U
621-64-7	N-Nitroso-Di-n-propylamine	4600	U
67-72-1	Hexachloroethane	4600	U
98-95-3	Nitrobenzene	4600	U
78-59-1	Isophorone	4600	U
88-75-5	2-Nitrophenol	4600	U
105-67-9	2,4-Dimethylphenol	4600	U
111-91-1	Bis(2-chloroethoxy) methane	4600	U
120-83-2	2,4-Dichlorophenol	4600	U
120-82-1	1,2,4-Trichlorobenzene	4600	U
91-20-3	Naphthalene	4600	U
106-47-8	4-Chloroaniline	4600	U
87-68-3	Hexachlorobutadiene	4600	U
59-50-7	4-Chloro-3-methylphenol	4600	U
91-57-6	2-Methylnaphthalene	4600	U
77-47-4	Hexachlorocyclopentadiene	4600	U
88-06-2	2,4,6-Trichlorophenol	4600	U
95-95-4	2,4,5-Trichlorophenol	11000	U
91-58-7	2-Chloronaphthalene	4600	U
88-74-4	2-Nitroaniline	11000	U
131-11-3	Dimethyl phthalate	4600	U
208-96-8	Acenaphthylene	64	J
606-20-2	2,6-Dinitrotoluene	4600	U
99-09-2	3-Nitroaniline	11000	U

NEW YORK STATE ELECIRIC & GAS
NYSEG - ASP91-2/S-VOAS - SOIL
ANALYSIS DATA SHEET

000068

Client No

LSVISS03C

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix: (soil/water) SOIL Lab Sample ID: A0682318

Sample wt/vol: 30.21 (g/mL) G Lab File ID: Z44627.RR

Level: (low/med) LOW Date Samp/Recv: 09/26/2000 09/26/2000

% Moisture: 28.2 decanted: (Y/N) N Date Extracted: 09/29/2000

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/14/2000

Injection Volume: 2.00 (uL) Total PAH 8,135 Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: ____ Total cPAH 4,140

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	4600	U
51-28-5	2,4-Dinitrophenol	11000	U
100-02-7	4-Nitrophenol	11000	U
132-64-9	Dibenzofuran	4600	U
121-14-2	2,4-Dinitrotoluene	4600	U
84-66-2	Diethyl phthalate	4600	U
7005-72-3	4-Chlorophenyl phenyl ether	4600	U
86-73-7	Fluorene	4600	U
100-01-6	4-Nitroaniline	11000	U
534-52-1	4,6-Dinitro-2-methylphenol	11000	U
86-30-6	N-nitrosodiphenylamine	4600	U
101-55-3	4-Bromophenyl phenyl ether	4600	U
118-74-1	Hexachlorobenzene	4600	U
87-86-5	Pentachlorophenol	30	J
85-01-8	Phenanthrene	530	J
120-12-7	Anthracene	91	J
86-74-8	Carbazole	4600	U
84-74-2	Di-n-butyl phthalate	4600	U
206-44-0	Fluoranthene	1500	J
129-00-0	Pyrene	1600	J
85-68-7	Butyl benzyl phthalate	4600	U
91-94-1	3,3'-Dichlorobenzidine	4600	U
56-55-3	Benzo(a)anthracene	960	J
218-01-9	Chrysene	660	J
117-81-7	Bis(2-ethylhexyl) phthalate	24	J
117-84-0	Di-n-octyl phthalate	4600	U
205-99-2	Benzo(b)fluoranthene	1500	J
207-08-9	Benzo(k)fluoranthene	4600	U
50-32-8	Benzo(a)pyrene	760	J
193-39-5	Indeno(1,2,3-cd)pyrene	220	J
53-70-3	Dibenzo(a,h)anthracene	40	J
191-24-2	Benzo(ghi)perylene	210	J

NEW YORK STATE ELECTRIC & GAS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

LSVI04B2G

ontract:

ab Code: STL Case No.: SAS No.: SDG NO.: 23B5G

trix (soil/water): SOIL Lab Sample ID: AD016966

evel (low/med): LOW Date Received: 9/26/00

Solids: 93

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3350		*	P
7440-36-0	Antimony	2.2	B	N	P
7440-38-2	Arsenic	5.7			P
7440-39-3	Barium	68.2			P
7440-41-7	Beryllium	0.43	B		P
7440-43-9	Cadmium	0.21	B		P
7440-70-2	Calcium	62500		E	P
7440-47-3	Chromium	7.2		*	P
7440-48-4	Cobalt	4.1	B		P
7440-50-8	Copper	30.7			P
7439-89-6	Iron	10600			P
7439-92-1	Lead	130			P
7439-95-4	Magnesium	9150		*	P
7439-96-5	Manganese	318		*	P
7440-02-0	Nickel	10.6			P
7440-09-7	Potassium	546	B		P
7782-49-2	Selenium	1.8			P
7439-97-6	Mercury	0.28		N	CV
7440-22-4	Silver	0.32	U		P
7440-23-5	Sodium	175	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	8.7	B		P
7440-66-6	Zinc	86.0			P

Color Before: BLACK Clarity Before: Texture: MEDIUM

or After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

NEW YORK STATE ELECTRIC & GAS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

LSVI1011B1G

Contract:

Lab Code: STL Case No.: SAS No.: SDG NO.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: AD016964

Level (low/med): LOW Date Received: 9/26/00

% Solids: 88

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7930		*	P
7440-36-0	Antimony	2.2	B	N	P
7440-38-2	Arsenic	4.2			P
7440-39-3	Barium	76.6			P
7440-41-7	Beryllium	0.69	B		P
7440-43-9	Cadmium	0.31	B		P
7440-70-2	Calcium	61000		E	P
7440-47-3	Chromium	11.0		*	P
7440-48-4	Cobalt	6.5	U		P
7440-50-8	Copper	22.7			P
7439-89-6	Iron	15200			P
7439-92-1	Lead	82.4			P
7439-95-4	Magnesium	12700		*	P
7439-96-5	Manganese	771		*	P
7440-02-0	Nickel	13.4			P
7440-09-7	Potassium	1090	B		P
7782-49-2	Selenium	1.7			P
7439-97-6	Mercury	0.13		N	CV
7440-22-4	Silver	0.34	U		P
7440-23-5	Sodium	119	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	16.3			P
7440-66-6	Zinc	146			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

NEW YORK STATE ELECTRIC & GAS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: LSVI1012B5G

ontract:

ab Code: STL Case No.: SAS No.: SDG NO.: 23B5G

trix (soil/water): SOIL Lab Sample ID: AD016956

evel (low/med): LOW Date Received: 9/26/00

Solids: 86

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11100		*	P
7440-36-0	Antimony	2.5	B	N	P
7440-38-2	Arsenic	5.4			P
7440-39-3	Barium	96.7			P
7440-41-7	Beryllium	0.85	B		P
7440-43-9	Cadmium	0.14	U		P
7440-70-2	Calcium	32600		E	P
7440-47-3	Chromium	16.6		*	P
7440-48-4	Cobalt	9.1	B		P
7440-50-8	Copper	33.6			P
7439-89-6	Iron	19100			P
7439-92-1	Lead	50.0			P
7439-95-4	Magnesium	7860		*	P
7439-96-5	Manganese	603		*	P
7440-02-0	Nickel	20.3			P
7440-09-7	Potassium	1290			P
7782-49-2	Selenium	1.3			P
7439-97-6	Mercury	0.10		N	CV
7440-22-4	Silver	0.35	U		P
7440-23-5	Sodium	89.4	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	21.4			P
7440-66-6	Zinc	77.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

or After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

NEW YORK STATE ELECTRIC & GAS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: LSVI1213B1G

Contract:

Lab Code: STL Case No.: SAS No.: SDG NO.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: AD016965

Level (low/med): LOW Date Received: 9/26/00

% Solids: 89

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6200		*	P
7440-36-0	Antimony	1.3	B	N	P
7440-38-2	Arsenic	4.4			P
7440-39-3	Barium	55.1			P
7440-41-7	Beryllium	0.61	B		P
7440-43-9	Cadmium	0.21	B		P
7440-70-2	Calcium	93200		E	P
7440-47-3	Chromium	14.0		*	P
7440-48-4	Cobalt	5.0	B		P
7440-50-8	Copper	16.8			P
7439-89-6	Iron	12200			P
7439-92-1	Lead	66.2			P
7439-95-4	Magnesium	32200		*	P
7439-96-5	Manganese	805		*	P
7440-02-0	Nickel	14.0			P
7440-09-7	Potassium	1090	B		P
7782-49-2	Selenium	1.7			P
7439-97-6	Mercury	0.56		N	CV
7440-22-4	Silver	0.34	U		P
7440-23-5	Sodium	196	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	13.2			P
7440-66-6	Zinc	74.1			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

NEW YORK STATE ELECTRIC & GAS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

LSVI1315B4G

ontract:

Lab Code: STL Case No.: SAS No.: SDG NO.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: AD016960

Level (low/med): LOW Date Received: 9/26/00

% Solids: 89

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4200		*	P
7440-36-0	Antimony	1.8	B	N	P
7440-38-2	Arsenic	3.1			P
7440-39-3	Barium	64.5			P
7440-41-7	Beryllium	0.43	B		P
7440-43-9	Cadmium	0.13	U		P
7440-70-2	Calcium	39700		E	P
7440-47-3	Chromium	6.9		*	P
7440-48-4	Cobalt	5.1	B		P
7440-50-8	Copper	19.3			P
7439-89-6	Iron	11000			P
7439-92-1	Lead	17.1			P
7439-95-4	Magnesium	7260		*	P
7439-96-5	Manganese	624		*	P
7440-02-0	Nickel	9.6			P
7440-09-7	Potassium	888	B		P
7782-49-2	Selenium	1.4			P
7439-97-6	Mercury	0.02	U	N	CV
7440-22-4	Silver	0.33	U		P
7440-23-5	Sodium	161	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	10.7	B		P
7440-66-6	Zinc	33.8			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

NEW YORK STATE ELECTRIC & GAS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: LSVI1719B4G

Contract:

Lab Code: STL Case No.: SAS No.: SDG NO.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: AD016961

Level (low/med): LOW Date Received: 9/26/00

% Solids: 93

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4770		*	P
7440-36-0	Antimony	1.1	B	N	P
7440-38-2	Arsenic	3.8			P
7440-39-3	Barium	58.4			P
7440-41-7	Beryllium	0.47	B		P
7440-43-9	Cadmium	0.13	U		P
7440-70-2	Calcium	51400		E	P
7440-47-3	Chromium	7.9		*	P
7440-48-4	Cobalt	5.5	B		P
7440-50-8	Copper	21.7			P
7439-89-6	Iron	13900			P
7439-92-1	Lead	27.5			P
7439-95-4	Magnesium	7200		*	P
7439-96-5	Manganese	624		*	P
7440-02-0	Nickel	11.3			P
7440-09-7	Potassium	936	B		P
7782-49-2	Selenium	1.4			P
7439-97-6	Mercury	0.04	B	N	CV
7440-22-4	Silver	0.32	U		P
7440-23-5	Sodium	132	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	11.2			P
7440-66-6	Zinc	40.4			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

NEW YORK STATE ELECTRIC & GAS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: LSVI2123B4G

ontract:

Lab Code: STL Case No.: SAS No.: SDG NO.: 23B5G

atrix (soil/water): SOIL Lab Sample ID: AD016962

Level (low/med): LOW Date Received: 9/26/00

Solids: 83

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6040		*	P
7440-36-0	Antimony	1.9	B	N	P
7440-38-2	Arsenic	6.3			P
7440-39-3	Barium	82.8			P
7440-41-7	Beryllium	0.62	B		P
7440-43-9	Cadmium	0.15	U		P
7440-70-2	Calcium	28300		E	P
7440-47-3	Chromium	11.1		*	P
7440-48-4	Cobalt	5.5	B		P
7440-50-8	Copper	27.2			P
7439-89-6	Iron	16500			P
7439-92-1	Lead	81.4			P
7439-95-4	Magnesium	4510		*	P
7439-96-5	Manganese	583		*	P
7440-02-0	Nickel	11.2			P
7440-09-7	Potassium	919	B		P
7782-49-2	Selenium	1.2			P
7439-97-6	Mercury	0.07		N	CV
7440-22-4	Silver	0.36	U		P
7440-23-5	Sodium	147	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	15.5			P
7440-66-6	Zinc	50.9			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

lor After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

NEW YORK STATE ELECTRIC & GAS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

LSVI23B3G

Contract:

Lab Code: STL Case No.: SAS No.: SDG NO.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: AD016967

Level (low/med): LOW Date Received: 9/26/00

% Solids: 91

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6000		*	P
7440-36-0	Antimony	2.0	B	N	P
7440-38-2	Arsenic	5.2			P
7440-39-3	Barium	81.2			P
7440-41-7	Beryllium	0.62	B		P
7440-43-9	Cadmium	0.42	B		P
7440-70-2	Calcium	70400		E	P
7440-47-3	Chromium	10.8		*	P
7440-48-4	Cobalt	5.8	B		P
7440-50-8	Copper	169			P
7439-89-6	Iron	13100			P
7439-92-1	Lead	133			P
7439-95-4	Magnesium	19200		*	P
7439-96-5	Manganese	589		*	P
7440-02-0	Nickel	14.2			P
7440-09-7	Potassium	1020	B		P
7782-49-2	Selenium	1.2			P
7439-97-6	Mercury	0.10		N	CV
7440-22-4	Silver	0.52	B		P
7440-23-5	Sodium	166	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	14.5			P
7440-66-6	Zinc	436			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

NEW YORK STATE ELECTRIC & GAS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

LSVI23B5G

ontract:

Lab Code: STL Case No.: SAS No.: SDG NO.: 23B5G

atrix (soil/water): SOIL Lab Sample ID: AD016952

Level (low/med): LOW Date Received: 9/26/00

Solids: 90

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9120		*	P
7440-36-0	Antimony	1.9	B	N	P
7440-38-2	Arsenic	4.4			P
7440-39-3	Barium	60.6			P
7440-41-7	Beryllium	0.70	B		P
7440-43-9	Cadmium	0.13	U		P
7440-70-2	Calcium	59000		E	P
7440-47-3	Chromium	13.0		*	P
7440-48-4	Cobalt	7.2	B		P
7440-50-8	Copper	18.0			P
7439-89-6	Iron	16700			P
7439-92-1	Lead	48.5			P
7439-95-4	Magnesium	18300		*	P
7439-96-5	Manganese	636		*	P
7440-02-0	Nickel	15.1			P
7440-09-7	Potassium	1290			P
7782-49-2	Selenium	1.6			P
7439-97-6	Mercury	0.09		N	CV
7440-22-4	Silver	0.33	U		P
7440-23-5	Sodium	122	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	18.3			P
7440-66-6	Zinc	69.8			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

olor After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

STL BUFFALO

NEW YORK STATE ELECTRIC & GAS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

LSVI24B4G

Contract:

Lab Code: STL Case No.: SAS No.: SDG NO.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: AD016957

Level (low/med): LOW Date Received: 9/26/00

% Solids: 92

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6860		*	P
7440-36-0	Antimony	1.9	B	N	P
7440-38-2	Arsenic	4.9			P
7440-39-3	Barium	62.4			P
7440-41-7	Beryllium	0.62	B		P
7440-43-9	Cadmium	0.99	B		P
7440-70-2	Calcium	99600		E	P
7440-47-3	Chromium	13.2		*	P
7440-48-4	Cobalt	6.1	B		P
7440-50-8	Copper	28.3			P
7439-89-6	Iron	16800			P
7439-92-1	Lead	78.2			P
7439-95-4	Magnesium	21700		*	P
7439-96-5	Manganese	547		*	P
7440-02-0	Nickel	16.2			P
7440-09-7	Potassium	1100			P
7782-49-2	Selenium	1.9			P
7439-97-6	Mercury	0.39		N	CV
7440-22-4	Silver	0.32	U		P
7440-23-5	Sodium	95.9	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	16.2			P
7440-66-6	Zinc	210			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

NEW YORK STATE ELECTRIC & GAS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

LSVI34B1G

Contract:

Lab Code: STL Case No.: SAS No.: SDG NO.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: AD016963

Level (low/med): LOW Date Received: 9/26/00

% Solids: 92

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4300		*	P
7440-36-0	Antimony	2.0	B	N	P
7440-38-2	Arsenic	3.4			P
7440-39-3	Barium	60.7			P
7440-41-7	Beryllium	0.43	B		P
7440-43-9	Cadmium	1.8			P
7440-70-2	Calcium	68500		E	P
7440-47-3	Chromium	7.8		*	P
7440-48-4	Cobalt	4.2	B		P
7440-50-8	Copper	28.6			P
7439-89-6	Iron	9750			P
7439-92-1	Lead	65.2			P
7439-95-4	Magnesium	28300		*	P
7439-96-5	Manganese	658		*	P
7440-02-0	Nickel	12.6			P
7440-09-7	Potassium	868	B		P
7782-49-2	Selenium	1.1	U		P
7439-97-6	Mercury	0.06		N	CV
7440-22-4	Silver	0.32	U		P
7440-23-5	Sodium	167	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	10.4	B		P
7440-66-6	Zinc	294			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

NEW YORK STATE ELECTRIC & GAS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

LSVI56B3G

Contract:

Lab Code: STL Case No.: SAS No.: SDG NO.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: AD016968

Level (low/med): LOW Date Received: 9/26/00

% Solids: 91

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5100		*	P
7440-36-0	Antimony	2.8	B	N	P
7440-38-2	Arsenic	6.3			P
7440-39-3	Barium	945			P
7440-41-7	Beryllium	0.63	B		P
7440-43-9	Cadmium	0.46	B		P
7440-70-2	Calcium	72000		E	P
7440-47-3	Chromium	23.8		*	P
7440-48-4	Cobalt	5.0	B		P
7440-50-8	Copper	72.0			P
7439-89-6	Iron	20400			P
7439-92-1	Lead	261			P
7439-95-4	Magnesium	31800		*	P
7439-96-5	Manganese	566		*	P
7440-02-0	Nickel	16.1			P
7440-09-7	Potassium	925	B		P
7782-49-2	Selenium	2.3			P
7439-97-6	Mercury	0.55		N	CV
7440-22-4	Silver	1.2	B		P
7440-23-5	Sodium	258	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	16.3			P
7440-66-6	Zinc	550			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

NEW YORK STATE ELECTRIC & GAS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: LSVI67B4G

Contract:

Lab Code: STL Case No.: SAS No.: SDG NO.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: AD016958

Level (low/med): LOW Date Received: 9/26/00

Solids: 89

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4310		*	P
7440-36-0	Antimony	2.2	B	N	P
7440-38-2	Arsenic	10.0			P
7440-39-3	Barium	73.8			P
7440-41-7	Beryllium	0.58	B		P
7440-43-9	Cadmium	0.14	U		P
7440-70-2	Calcium	137000		E	P
7440-47-3	Chromium	7.9		*	P
7440-48-4	Cobalt	4.6	B		P
7440-50-8	Copper	33.5			P
7439-89-6	Iron	18300			P
7439-92-1	Lead	235			P
7439-95-4	Magnesium	11900		*	P
7439-96-5	Manganese	437		*	P
7440-02-0	Nickel	9.5			P
7440-09-7	Potassium	986	B		P
7782-49-2	Selenium	2.4			P
7439-97-6	Mercury	0.14		N	CV
7440-22-4	Silver	0.34	U		P
7440-23-5	Sodium	241	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	13.5			P
7440-66-6	Zinc	89.4			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

NEW YORK STATE ELECTRIC & GAS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: LSVI78B1G

Contract:

Lab Code: STL Case No.: SAS No.: SDG NO.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: AD016972

Level (low/med): LOW Date Received: 9/26/00

% Solids: 94

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8270		*	P
7440-36-0	Antimony	1.7	B	N	P
7440-38-2	Arsenic	4.2			P
7440-39-3	Barium	96.3			P
7440-41-7	Beryllium	0.70	B		P
7440-43-9	Cadmium	0.13	U		P
7440-70-2	Calcium	54600		E	P
7440-47-3	Chromium	12.0		*	P
7440-48-4	Cobalt	6.8	B		P
7440-50-8	Copper	27.1			P
7439-89-6	Iron	14800			P
7439-92-1	Lead	87.7			P
7439-95-4	Magnesium	9800		*	P
7439-96-5	Manganese	538		*	P
7440-02-0	Nickel	14.6			P
7440-09-7	Potassium	1280			P
7782-49-2	Selenium	2.3			P
7439-97-6	Mercury	0.27		N	CV
7440-22-4	Silver	0.32	U		P
7440-23-5	Sodium	99.9	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	17.0			P
7440-66-6	Zinc	78.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

NEW YORK STATE ELECTRIC & GAS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: LSVI78B5G

ntract:

ab Code: STL Case No.: SAS No.: SDG NO.: 23B5G

trix (soil/water): SOIL Lab Sample ID: AD016955

evel (low/med): LOW Date Received: 9/26/00

olids: 92

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9920		*	P
7440-36-0	Antimony	1.2	B	N	P
7440-38-2	Arsenic	4.6			P
7440-39-3	Barium	76.4			P
7440-41-7	Beryllium	0.80	B		P
7440-43-9	Cadmium	0.13	B		P
7440-70-2	Calcium	28500		E	P
7440-47-3	Chromium	14.0		*	P
7440-48-4	Cobalt	8.2	B		P
7440-50-8	Copper	24.9			P
7439-89-6	Iron	17400			P
7439-92-1	Lead	103			P
7439-95-4	Magnesium	10500		*	P
7439-96-5	Manganese	677		*	P
7440-02-0	Nickel	20.1			P
7440-09-7	Potassium	1270			P
7782-49-2	Selenium	1.5			P
7439-97-6	Mercury	0.09		N	CV
7440-22-4	Silver	0.32	U		P
7440-23-5	Sodium	121	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	20.0			P
7440-66-6	Zinc	90.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

lor After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

NEW YORK STATE ELECTRIC & GAS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: LSVI89B4G

Contract:

Lab Code: STL Case No.: SAS No.: SDG NO.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: AD016959

Level (low/med): LOW Date Received: 9/26/00

% Solids: 91

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5010		*	P
7440-36-0	Antimony	1.8	B	N	P
7440-38-2	Arsenic	6.1			P
7440-39-3	Barium	60.2			P
7440-41-7	Beryllium	0.64	B		P
7440-43-9	Cadmium	0.13	U		P
7440-70-2	Calcium	87100		E	P
7440-47-3	Chromium	8.5		*	P
7440-48-4	Cobalt	5.8	B		P
7440-50-8	Copper	33.2			P
7439-89-6	Iron	20900			P
7439-92-1	Lead	141			P
7439-95-4	Magnesium	20500		*	P
7439-96-5	Manganese	859		*	P
7440-02-0	Nickel	10.9			P
7440-09-7	Potassium	1200			P
7782-49-2	Selenium	1.1			P
7439-97-6	Mercury	0.29		N	CV
7440-22-4	Silver	0.33	U		P
7440-23-5	Sodium	208	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	10.9	B		P
7440-66-6	Zinc	83.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

NEW YORK STATE ELECTRIC & GAS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

LSVISS0IC

Contract:

Lab Code: STL Case No.: SAS No.: SDG NO.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: AD016970

Level (low/med): LOW Date Received: 9/26/00

Solids: 95

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5400		*	P
7440-36-0	Antimony	1.2	B	N	P
7440-38-2	Arsenic	3.3			P
7440-39-3	Barium	49.2			P
7440-41-7	Beryllium	0.54	B		P
7440-43-9	Cadmium	0.23	B		P
7440-70-2	Calcium	28800		E	P
7440-47-3	Chromium	13.9		*	P
7440-48-4	Cobalt	6.4	B		P
7440-50-8	Copper	20.2			P
7439-89-6	Iron	10800			P
7439-92-1	Lead	49.8			P
7439-95-4	Magnesium	7410		*	P
7439-96-5	Manganese	440		*	P
7440-02-0	Nickel	32.2			P
7440-09-7	Potassium	1090			P
7782-49-2	Selenium	1.6			P
7439-97-6	Mercury	0.10		N	CV
7440-22-4	Silver	0.31	U		P
7440-23-5	Sodium	77.4	U		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	12.8			P
7440-66-6	Zinc	75.6			P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

NEW YORK STATE ELECTRIC & GAS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: LSVISS02C

Contract:

Lab Code: STL Case No.: SAS No.: SDG NO.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: AD016973

Level (low/med): LOW Date Received: 9/26/00

% Solids: 80

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6370		*	P
7440-36-0	Antimony	1.5	B	N	P
7440-38-2	Arsenic	6.2			P
7440-39-3	Barium	90.8			P
7440-41-7	Beryllium	0.67	B		P
7440-43-9	Cadmium	0.33	B		P
7440-70-2	Calcium	59200		E	P
7440-47-3	Chromium	12.1		*	P
7440-48-4	Cobalt	5.9	B		P
7440-50-8	Copper	27.1			P
7439-89-6	Iron	16100			P
7439-92-1	Lead	72.0			P
7439-95-4	Magnesium	37300		*	P
7439-96-5	Manganese	765		*	P
7440-02-0	Nickel	19.9			P
7440-09-7	Potassium	1560			P
7782-49-2	Selenium	2.0			P
7439-97-6	Mercury	0.11		N	CV
7440-22-4	Silver	0.40	B		P
7440-23-5	Sodium	173	B		P
7440-28-0	Thallium	1.3	U		P
7440-62-2	Vanadium	17.2			P
7440-66-6	Zinc	86.3			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

NEW YORK STATE ELECTRIC & GAS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

LSVISS03C

ntract:

ab Code: STL Case No.: SAS No.: SDG NO.: 23B5G

trix (soil/water): SOIL Lab Sample ID: AD016971

evel (low/med): LOW Date Received: 9/26/00

olids: 72

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3780		*	P
7440-36-0	Antimony	4.0	B	N	P
7440-38-2	Arsenic	9.4			P
7440-39-3	Barium	53.0	B		P
7440-41-7	Beryllium	0.69	B		P
7440-43-9	Cadmium	0.36	B		P
7440-70-2	Calcium	98300		E	P
7440-47-3	Chromium	19.8		*	P
7440-48-4	Cobalt	6.4	B		P
7440-50-8	Copper	53.2			P
7439-89-6	Iron	42100			P
7439-92-1	Lead	83.5			P
7439-95-4	Magnesium	81000		*	P
7439-96-5	Manganese	1250		*	P
7440-02-0	Nickel	33.5			P
7440-09-7	Potassium	1190	B		P
7782-49-2	Selenium	3.7			P
7439-97-6	Mercury	0.08		N	CV
7440-22-4	Silver	0.47	B		P
7440-23-5	Sodium	231	B		P
7440-28-0	Thallium	1.4	B		P
7440-62-2	Vanadium	20.7			P
7440-66-6	Zinc	113			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

or After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

New York State Electric & Gas
Wet Chemistry Analysis

000091

Client Sample No.

LSVI04B2G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix (scil/water): SOIL Lab Sample ID: A0682313

% Solids: 93.1 Date Samp/Recv: 09/26/2000 09/26/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	15.7				CLP-WC	10/02/2000

Comments:

New York State Electric & Gas
Wet Chemistry Analysis

000093

Client Sample No.

LSVI23B3G

I Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: A0682314

% Solids: 90.6 Date Samp/Recv: 09/26/2000 09/26/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	0.78				CLP-WC	10/02/2000

Comments:

New York State Electric & Gas
Wet Chemistry Analysis

000693

Client Sample No.

LSVI23B5G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: A0682301

% Solids: 90.1 Date Samp/Recv: 09/26/2000 09/26/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	0.50	U			CLP-WC	10/02/2000

Comments:

New York State Electric & Gas
Wet Chemistry Analysis

000034

Client Sample No.

LSVI24B4G

Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: A0682304

% Solids: 91.9 Date Samp/Recv: 09/26/2000 09/26/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	2.0				CLP-WC	10/02/2000

Comments:

New York State Electric & Gas
Wet Chemistry Analysis

Client Sample No.
LSVI34B1G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: A0682310

% Solids: 91.7 Date Samp/Recv: 09/26/2000 09/26/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	0.50	U			CLP-WC	10/02/2000

Comments:

New York State Electric & Gas
Wet Chemistry Analysis

000095

Client Sample No.

LSVI56B3G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: A0682315

% Solids: 90.5 Date Samp/Recv: 09/26/2000 09/26/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	1.7				CLP-WC	10/02/2000

Comments:

New York State Electric & Gas
Wet Chemistry Analysis

000037

Client Sample No.

LSVI67B4G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: A0682305

% Solids: 89.1 Date Samp/Recv: 09/26/2000 09/26/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	12.5				CLP-WC	10/02/2000

Comments:

New York State Electric & Gas
Wet Chemistry Analysis

000038

Client Sample No.

LSVI78B1G

Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: A0682319

Solids: 93.5 Date Samp/Recv: 09/26/2000 09/26/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	0.50	U			CLP-WC	10/02/2000

Comments:

New York State Electric & Gas
Wet Chemistry Analysis

000009

Client Sample No.

LSVI78B5G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: A0682302

% Solids: 92.0 Date Samp/Recv: 09/26/2000 09/26/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	0.50				CLP-WC	10/02/2000

Comments:

New York State Electric & Gas
Wet Chemistry Analysis

000109

Client Sample No.

LSVI89B4G

Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: A0682306

% Solids: 91.1 Date Samp/Recv: 09/26/2000 09/26/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	3.0				CLP-WC	10/02/2000

Comments:

New York State Electric & Gas
Wet Chemistry Analysis

000101

Client Sample No.

LSVI1011B1G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: A0682311

% Solids: 87.6 Date Samp/Recv: 09/26/2000 09/26/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	0.50	U			CLP-WC	10/02/2000

Comments:

New York State Electric & Gas
Wet Chemistry Analysis

Client Sample No.

LSVI1012B5G

Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: A0682303

Solids: 86.4 Date Samp/Recv: 09/26/2000 09/26/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	0.50	U			CLP-WC	10/02/2000

Comments:

New York State Electric & Gas
Wet Chemistry Analysis

Client Sample No.: LSVI1213B1G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: A0682312

% Solids: 88.5 Date Samp/Recv: 09/26/2000 09/26/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	1.3				CLP-WC	10/02/2000

Comments:

New York State Electric & Gas
Wet Chemistry Analysis

000104

Client Sample No.

LSVI1315B4G

Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: A0682307

% Solids: 89.1 Date Samp/Recv: 09/26/2000 09/26/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	2.5				CLP-WC	10/02/2000

Comments:

New York State Electric & Gas
Wet Chemistry Analysis

Client Sample No.: LSVI1719B4G

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: A0682308

% Solids: 92.6 Date Samp/Recv: 09/26/2000 09/26/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	3.0				CLP-WC	10/02/2000

Comments:

New York State Electric & Gas
Wet Chemistry Analysis

000106
Client Sample No.

LSVI2123B4G

Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: A0682309

% Solids: 82.8 Date Samp/Recv: 09/26/2000 09/26/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	10				CLP-WC	10/02/2000

Comments:

New York State Electric & Gas
Wet Chemistry Analysis

000107

Client Sample No.

LSVISS01C

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: A0682317

% Solids: 94.5 Date Samp/Recv: 09/26/2000 09/26/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	0.99				CLP-WC	10/06/2000

Comments:

New York State Electric & Gas
Wet Chemistry Analysis

000108

Client Sample No.

LSVISS02C

Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: A0682320

Solids: 79.7 Date Samp/Recv: 09/26/2000 09/26/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	0.83				CLP-WC	10/06/2000

Comments:

New York State Electric & Gas
Wet Chemistry Analysis

000109

Client Sample No.

LSVISS03C

Lab Name: STL Buffalo Contract: 98-153

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: 23B5G

Matrix (soil/water): SOIL Lab Sample ID: A0682318

% Solids: 71.8 Date Samp/Recv: 09/26/2000 09/26/2000

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	MG/KG	0.50	U			CLP-WC	10/06/2000

Comments:

APPENDIX B

CITIZEN PARTICIPATION PLAN
(CPP)

NYSEG

NEW YORK STATE ELECTRIC & GAS CORPORATION
Corporate Drive, Kirkwood Industrial Park, P.O. Box 5224
Binghamton, New York 13902-5224

INTERIM REMEDIAL MEASURES

NEW YORK STATE DEPARTMENT OF TRANSPORTATION
PROSPECT STREET OVER ERIE CANAL PROJECT

CITIZEN PARTICIPATION PLAN

FOR ACTIVITIES ON AND ADJACENT TO

LOCKPORT STATE ROAD
FORMER MANUFACTURED GAS PLANT SITE
City of Lockport, Niagara County, New York

JUNE 2002

Prepared By:
NYSEG Licensing & Environmental Operations Department

Reviewed and Approved By:
New York State Department of Environmental Conservation

TABLE OF CONTENTS

1.0 INTRODUCTION

NYSEG has developed this *Citizen Participation Plan (CPP)* to facilitate communication with individuals, groups, and organizations which have expressed an interest in the Lockport State Road former manufactured gas plant (MGP) site or surrounding areas. The *CPP* will provide information to those in the community who may be interested in the MGP Site's remediation project. The *CPP* will detail the citizen participation activities that will be implemented in association with this MGP Site.

An *Interim Remedial Measures (IRM) Work Plan for Activities on and adjacent to Lockport State Road Former Manufactured Gas Plant Site* has been produced. The proposed remedial measures will involve excavation and off site disposal or thermal treatment of MGP structures, their contents and surrounding coal tar contaminated soil, as detailed in Section 4.0.

The *Work Plan* will be conducted according to the requirements of a March 25, 1994 Order on Consent between NYSEG and the New York State Department of Environmental Conservation (NYSDEC). The Order on Consent is a legal document between NYSEG and the NYSDEC which defines the requirements of each party for conducting site investigations and remediations. The Order on Consent requires that all work at the Site be performed under the oversight of the NYSDEC and the New York State Department of Health (NYSDOH).

2.0 BASIC SITE INFORMATION

The State Road Site is the location of the former State Road Tar Works in the City of Lockport, Niagara County, New York. The State Road Tar Works was established as a secondary processing plant for tar generated at the Transit Street MGP Site. The Transit Street MGP was located approximately one block east of the State Road Tar Works in Lockport. The 1898 Sanborn Map showed State Road Site occupied by several warehouses that were owned by Lockport Gas Light Company. The State Road Tar Works was identified on the 1903 Sanborn Map. Several tar tanks and ammonia tanks are also depicted. Lockport Light, Heat and Power Company acquired the site in 1907. The site remained essentially unchanged between 1903 and 1919. The 1928 Sanborn Map documented the construction of a 500,000 cubic foot gas holder northeast of the warehouse building between 1919

and 1928. In 1929, NYSEG acquired the Lockport Light, Heat and Power Company, and in the process, the property now referred to as the State Road Site. The old stone building, adjacent to State Road and north west of the holder, was added onto and converted into a gas compressor building by 1938.

By-products of gas manufacturing include coal tars, light oils and spent purifying materials. These products were often left behind when the plants closed.

Purifier wastes are the spent materials (i.e. wood chips or other organic material with iron filings) used to remove impurities like hydrogen sulfide and cyanide from the gas produced by the MGP.

Petroleum products were used on-site as a fuel source for the MGP and to increase the heat content of the manufactured gas. These products were potentially discharged on-site as a result of material handling practices.

3.0 PREVIOUS INVESTIGATION

In May 1991, NYSEG's consultant Atlantic Environmental Services, Inc. completed a *Manufactured Gas Plant Site Screening Report*. This investigation was completed prior to NYSEG signing the Order on Consent and were not done under NYSDEC oversight.

In September 2000, NYSEG completed a *Pre-Construction/Remediation In Situ Sampling & Analysis Work Plan* with NYSDEC oversight.

4.0 PROJECT DESCRIPTION

The overall objectives of the proposed *IRM* will be to support the Prospect Street over Erie Canal Construction Project (BIN 4454180) proposed by the NYSDOT. This work will include the excavation, handling, disposal of coal tar contaminated soil and handling, collection, disposal of contaminated construction water and groundwater, as required to complete the *IRM*.

This *IRM* is scheduled to be initiated during the Fall of 2002.

5.0 INTERESTED/AFFECTED PUBLIC

A mailing list has been developed which includes adjacent property owners and businesses, local and State elected officials, local media, and other identified interested parties. Parties wishing to be added to the mailing list can do so by contacting any of the individuals listed below in Section 8.0 - Additional Information, or by completing a "mailer" which is included with all mailings.

6.0 DOCUMENT REPOSITORY

Documents associated with the previous investigations and this *IRM* are available for public review at the following document repositories:

- Lockport Public Library
  23 East Street
  Lockport, New York
  Attn.: Margaret Lynch
  Phone: (716) 433-5935

- New York State Department of Environmental Conservation
  270 Michigan Avenue
  Buffalo, New York 14203-2999
  Attn.: Martin Doster
  Phone: (716) 851-7220

- NYSEG (New York State Electric & Gas Corporation)
  6544 Lincoln Avenue
  Lockport, New York 14095
  Attn.: Frank B. Inglese
  Phone: (716) 438-9803, Ext. 367

7.0 DESCRIPTION OF CITIZEN PARTICIPATION ACTIVITIES FOR EACH MAJOR ELEMENT OF THE INTERIM REMEDIAL MEASURE (IRM) PROGRAM

To facilitate the *IRM* process, NYSEG in cooperation with NYSDEC, NYSDOH and NYSDOT, will inform the public and local officials of planned remedial activities and address concerns raised by the community. The *CPP* will include at least the following:

- a fact sheet describing the planned remedial activities. The fact sheet will be distributed to those identified in Section 5.0 of this document.
- a telephone number for the public to call with any questions or concerns which may arise during the Project[1].

8.0 Additional Information

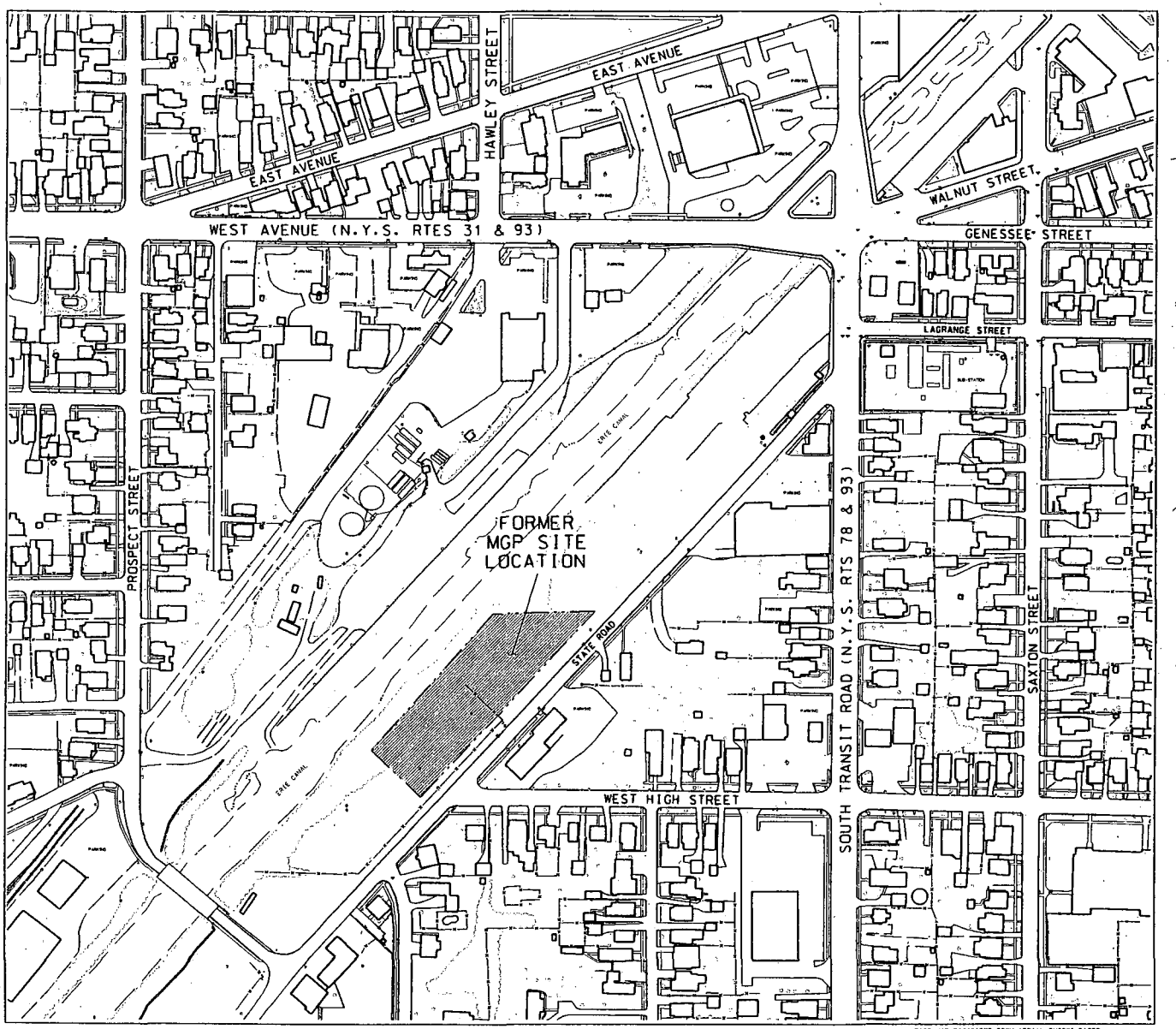
Contacts for additional information:

NYSEG: Mr. David N. Greenfield
Community Outreach Manager
NYSEG
150 Erie Street
Lancaster, NY 14086
Phone: (716) 651-5226
E-mail: dngreenfield@nyseg.com

NYSDEC: Mr. David L. Crosby, P.E.
Project Manager
NYSDEC
625 Broadway
Albany, New York 12233
1-800-342-9296 or (518) 402-9813
E-mail: dacrosby@gw.dec.state.ny.us

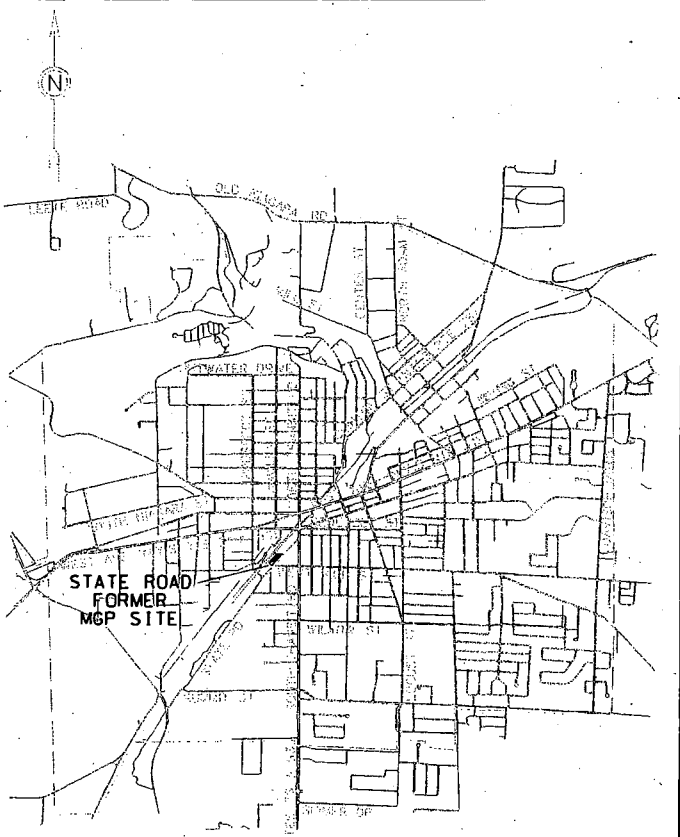
NYSDOH: Mr. Mark VanValkenburg
Community Health & Safety Oversight
NYSDOH
Flannigan Square
547 River Street
Troy, New York 12180-2216
(518) 402-7890
E-mail: mev05@health.state.ny.us

[1] A call to the posted phone number (1-800-572-1111) during normal business hours will be answered by one of a specially trained group of operators who can provide information from the fact sheet. If additional information is required, the operator can contact members of the project team from a call list. After normal business hours, for emergencies, this phone number (1-800-572-1121) rings directly to a dedicated trained answering service which will contact a project team member directly from the call list.



0 100 200 300
Scale Feet
SCALE OF DETAIL

BASE MAP DIGITIZED FROM AERIAL PHOTOS DATED APRIL, 1992 BY MICHAEL BAKER, JR. BEAVER, PA.



CITY OF LOCKPORT

NYSEG ENGINEERING SERVICES BINGHAMTON, N.Y.

TITLE	LOCATION MAP
	LOCKPORT STATE ROAD MGP SITE
	CITY OF LOCKPORT
	NIAGARA COUNTY, NEW YORK
SCALE: AS SHOWN	DWG NO FIGURE 1 REV
DATE: 07/16/99	

c:\users\rb02827\dgn\lockloc.dgn (lvls. off: 21,50)

APPENDIX C

CONSTRUCTION QUALITY ASSURANCE PLAN
(CQAP)

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

NEW YORK STATE DEPARTMENT OF TRANSPORTATION
PROSPECT STREET OVER ERIE CANAL PROJECT

CONSTRUCTION QUALITY ASSURANCE PLAN (CQAP)

FOR ACTIVITIES ON AND ADJACENT TO

LOCKPORT STATE ROAD
FORMER MANUFACTURED GAS PLANT SITE
City of Lockport, Niagara County, New York

JUNE 2002

Prepared By:
NYSEG Licensing & Environmental Operations Department

TABLE OF CONTENTS

1.0 INTRODUCTION

This *Construction Quality Assurance Plan (CQAP)* is designed to assure the quality of the project by monitoring, inspecting, and testing the processes and materials associated with the Interim Remedial Measure (*IRM*) to be completed at New York State Electric and Gas Corporation's (NYSEG's) Lockport State Road Former Manufactured Gas Plant site (MGP), City of Lockport, Niagara County, New York. This Construction Quality Assurance Plan supplements the *IRM Work Plan, dated* June 2002.

1.1 Construction Quality Assurance Plan (CQAP) Objectives

The objective of this *CQAP* is to identify and standardize measures to provide confidence that activities in all phases of the project will be completed in accordance with the *IRM Work Plan*, applicable local, state and federal regulations and appropriate industry standards. The CQAP will be implemented through inspection, sampling, testing, review of services, workmanship, and materials. Specific objectives of this plan establish protocols and procedures for the following components:

1. Responsibility and Authority - The responsibility and authority of the key personnel involved in the completion of the project.

2. Inspection and Testing Activities - Establish the observations and implement inspections and tests that will be used to ensure that the construction activities for the project meet or exceed all design criteria, (i.e., *IRM Work Plan*, and local, state and federal regulations).

3. Sampling Strategies - Establish responsibility for sampling activities and methods including frequency and acceptance criteria for ensuring that sampling meets criteria in the *IRM Work Plan*, local, state and federal regulations.

4. Documentation and Reporting - Establish appropriate field documents (i.e.,daily field construction reports, photographic log, sampling log, and variances to the *IRM Work Plan*).

2.0 RESPONSIBILITY AND AUTHORITY

Responsibilities of each member of the construction project team are described below.

2.1 NYSDOT Contractor

The contractor is responsible for coordinating field operations of the *IRM*, including coordination of subcontractors, to comply with the requirements of the *IRM Work Plan* and permitting agencies. The Contractor is responsible for completing and submitting documentation required by the *CQAP* and also has the authority to accept or reject the materials and workmanship of any subcontractors at the site.

The contractor is also responsible to ensure a functional construction quality control organization is active during the project and provide support for the construction quality control system to perform inspections, tests and retesting in the event of failure of any item of work, including that of the subcontractors, and to assure compliance with the contract provisions. The construction quality control system includes, but is not limited to, the inspections and tests required in the technical provisions of the *IRM Work Plan*, and will cover all project operations.

2.2 Construction Quality Assurance Officer: Bert W Finch
NYSEG Project Manager

The responsibility of the construction quality assurance officer is to perform those activities in this *CQAP* deemed necessary to assure the quality of construction and support quality control efforts. The construction quality assurance officer will be on-site as required during construction activities. The responsibility of the construction quality assurance officer is to ensure the quality of construction meets or exceeds that defined by the *IRM Work Plan* and identified in the *Quality Assurance Plan (QAPP)*. Specific responsibilities of the construction quality assurance officer include:

- Directing and supporting the construction quality control representative inspection personnel in performing observations and tests by verifying that the data are properly recorded, validated, reduced, summarized, and inspected.

- Evaluating the construction activities and the construction quality control representative's efforts
- Evaluating sampling activities and efforts of the sampling quality assurance officer
- Educating construction quality control inspection personnel on construction quality control requirements and procedures
- Scheduling and coordinating construction quality assurance inspection activities

2.3 Sampling Quality Assurance Officer: Walter Savichky
NYSEG Sampling Oversight

The responsibility of the sampling quality assurance officer is to perform those activities in this *CQAP, IRM Work Plan and QAPP* deemed necessary to assure the quality of sampling and testing and support quality control efforts.

To avoid conflicts of interest, the sampling quality assurance is performed by an entity other than the construction quality control, and provides the permitting agency an assurance that all sampling efforts, for both field and laboratory analysis, meet or exceed that defined by the *IRM Work Plan* and identified in the *CQAP.* The sampling quality assurance officer will be on-site as required during the project. The sampling quality assurance officer will report directly to the construction quality assurance officer.

Specific responsibilities of the sampling quality assurance officer include:

- confirming that the test data are properly recorded and maintained (this may involve selecting reported results and backtracking them to the original observation and test data sheets);
- confirming that the testing equipment, personnel, and procedures do not change over time or making sure that any changes do not adversely impact the inspection process; and

- confirming that regular calibration of testing equipment occurs and is properly recorded.

- Providing the construction quality control officer with up to date sampling results.

2.4 Construction Quality Control Representative: NYSDOT Contractor Construction Supervisor

A construction quality control representative, supplemented as necessary by additional personnel, is to be on the work site during the construction process, with complete authority to take any action necessary to ensure compliance with the *IRM Work Plan* as necessary to achieve quality in the constructed facility. The construction quality control representative will be the field engineer. Specific responsibilities of the construction quality control representative include:

- *IRM Work Plan* for clarity and completeness so that the construction activities can be effectively implemented.

    - Verifying that a contractor's construction quality is in accordance with *CQAP*.

- Performing on-site inspection of the work in progress to assess compliance with the *IRM Work Plan*.

- Prepare and log material shipping manifest for transportation of non-hazardous and Hazardous materials.

- perform the duties of the health & safety officer.

- Reporting the results of all observations and tests as the work progresses, modify materials and work to comply with *IRM Work Plan*. This includes:

    1. Providing reports on daily field construction, material shipments, and inspection results.

    2. Review and interpretation of all data sheets and reports.

3. Identification of work that should be accepted, rejected, or uncovered for observation, or that may require special testing, inspection, or approval.

4. Rejection of defective work and verification that corrective measures are implemented.

5. Make observations and records that will aid in finalization of the *RI* Report.

- Reporting to the construction quality assurance officer results of all inspections including work that is not of acceptable quality or that fails to meet the *IRM Work Plan*.

- Verifying that the equipment used in testing meets the test requirements and that the test are conducted according to the proper standardized procedures.

- Verifying that materials are installed as specified, except where necessary field modifications were required.

The construction quality control representative will report directly to the quality assurance officer.

2.5 Sampling Representative: NYSEG Brian Balchikonis
NYSEG Tom Sienkiewicz
NYSDOT Contractor Sampling Technician

A sampling representative, supplemented as necessary by additional personnel, is to be on the work site at all times during the construction process. The sampling representative reports directly to the sampling quality assurance officer. Specific responsibility of the sampling representative include:

- Set up and operation of the weather station. Daily recording of meteorological data.

- Daily calibration and operation of real time total volatile organic compound and suspended particulate air monitoring equipment. Daily recording of real time air quality data. Informs construction supervisor and on-site New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH) representatives when concentration of air contaminants approaches or exceeds action levels specified in the *IRM Work Plan*. Faxing or e-mailing real-time air quality data to the (NYSDOH) representative and Sampling Quality Assurance Officer daily.

- Daily calibration and operation of the portable GC (Perkin-Elmer Voyager) per guidelines specified in the *QAPP* and *IRM Work Plan*. Compiling calibration and results data into spreadsheets. E-mailing compiled data along with chromatograms to Sampling Quality Assurance Officer daily.

- Collection, packaging and shipment soil and water samples per guidelines specified in the *QAPP* and *IRM Work Plan*. Maintaining master log of all air, water and soil samples collected. Faxing copies of the chain of custody sheets to the Sampling Quality Assurance Officer daily. Tracking confirmation sample points and construct a map depicting confirmation sample point locations.

- Consultation with Sampling Quality Assurance Officer for all technical questions, problems, considerations, or requests for supplies or equipment.

- Maintaining and organizing on-site field specialist equipment and supplies storage area.

- Performing the duties of Assistant Health & Safety Officer.

3.0 FIELD QUALITY CONTROL INSPECTIONS, TESTING, AND SAMPLING REQUIREMENTS

The definable features of work identified below are described in section 4 of the *IRM Work Plan* . This section of the *CQAP* describes the anticipated inspection, testing, and sampling requirements of these definable feature works.

3.1 Site Preparation

Elements of the site preparation, including clearing, grubbing, fencing, and entrance road construction, will be inspected as they occur to assure compliance with the *IRM Work Plan*. Inspection of the siltation fence shall confirm that it is contiguous and its skirt is embedded along its length.

3.2 Equipment Set-up

All materials and equipment are designed to meet specific project needs. Each delivery of materials and/or equipment will be inspected upon arrival by the construction quality control representative and stored at a designated area of the site. Equipment will be set-up per the work plan design and drawings.

3.3 Staging of Materials

Material will be transported to storage area. Piles will be inspected a minimum of once per day to assure that covers are in place and intact, and standing water is removed from the liner as needed. Covers will be replaced as needed to prevent precipitation from contacting the material and dust from being generated by the material.

3.4 Loading of Material for Transportation

Staged products will be loaded with a rubber tired articulated wheel loader into dump trailers for transportation to permitted disposal facility. Polyethylene sheeting will be placed between the pile and the truck to retain any material spilled from the loader. The spilled material will be added back to the pile following completion of loading of

each truck. The loading area will be visually inspected to confirm that material remains within the bermed stockpile area.

3.5 Excavation of Existing MGP Residue

MGP residue will be excavated from the former gas holder, piping and surface soil in accordance with the *IRM Work Plan*. All excavation activities will be observed and recorded by the construction quality control representative noting soil type, color, moisture, foreign objects, odor and any other noticeable characteristics. Limits of the excavation will be measured by the construction quality control representative upon completion of the excavation for documentation drawings. Sampling of the excavated materials and residual soils is covered in a separate sampling assurance plan.

3.6 Site Restoration

Site restoration will be observed by the construction quality control representative. The excavation noted above will be backfilled with as specified in the *IRM Work Plan*, and the surface will match the existing surfacing material. Clean imported backfill material will be inspected upon arrival. Backfilling and compacting of the excavation will be observed and documented by the construction quality control representative. All liners will be removed and disposed. No stockpiles will remain on-site at the end of the project. All affected areas will be graded to match existing grades. The finish surface will match the existing stone. Visual inspections will confirm that the site surfacing meets owner approval.

4.0 DOCUMENTATION AND REPORTING REQUIREMENTS FOR *CQAP* ACTIVITIES

The value of the *CQAP* will be assured by proper documentation techniques. The construction quality assurance plan inspection team will be guided by data sheets, schedules and checklists. The documentation of the inspection activities will facilitate the adherence to the design documents and maintain the level of reporting required by the parties involved in the project.

4.1 Inspection Reports

In general, documentation may involve daily summary and photographic reports including sketches of a particular section or activity, inspection log, corrective measure summary, or schedule summary. Specific documentation procedures are listed in the following subsections. The construction quality control representative will ensure that one set of full sized contract drawings are marked on a daily basis to record deviations from the contract drawings, including buried or concealed structures and utilities which are revealed during the course of site work. The construction quality control representative shall initial each variation or revision. The construction quality control representative shall, upon completion of site work, certify the accuracy of the record drawings, and submit them to the project manager.

4.2 Daily Field Construction Report

The construction quality control representative shall prepare a Daily Field Construction Report (DFCR) identifying work force and their labor hours, location and description of work performed, lost time accidents, equipment left on job site, equipment/materials received and if applicable, submittal status, non-compliance notices received, errors and/or omission in plans and specifications, visitors to the job site, weather conditions and temperatures, and any other pertinent information.

4.3 Photo Log

The photo log is designed to document construction activities by still photos. Photo log may also be used to photographically record activities recorded in a daily construction log or an as-built sketch log. Photos will be collected by the construction quality control representative.

4.4 Daily Sampling Log

The daily sampling log is designed to document all sampling activities and how they correspond to the *IRM Work Plan*. All observations, field and/or laboratory tests will be recorded on a daily sampling log. It is important to note recorded field observations may take the form of notes, charts, sketches, or photographs. The daily sampling log will be completed by the sampling technician.

4.5 Variances to *IRM Work Plan*

Required changes to the *IRM Work Plan* will be processed through the use of a variance log. Approval from the construction quality assurance officer is required to recommend a change to the *IRM Work Plan*. Once an approved recommended plan change is received from all parties an addendum to the *IRM Work Plan* can be completed and returned to the job site.

4.6 Final Engineering Report

At the completion of the project the Project Manager/construction quality assurance officer will prepare and submit a Final Engineering Report to the NYSDEC. This report will include a summary of all of the DFCR's, Photographic Log, Sampling Log, Meeting Log, Material Disposition Log, and Variances to *IRM Work Plan*. The Final Engineering Report will be signed by the construction quality assurance officer and sampling quality assurance office. In addition, the Final Engineering Report will be signed and certified by a professional engineer that all activities that comprised the IRM were performed in full accordance with NYSDEC approved *IRM Work Plan* and the NYSDEC Order on Consent Index #D0-0002-9309.

APPENDIX D

QUALITY ASSURANCE PROJECT PLAN (QAPP)

NYSEG

NEW YORK STATE ELECTRIC & GAS CORPORATION
Corporate Drive, Kirkwood Industrial Park, P.O. Box 5224
Binghamton, New York 13902-5224

INTERIM REMEDIAL MEASURES

NEW YORK STATE DEPARTMENT OF TRANSPORTATION
PROSPECT STREET OVER ERIE CANAL PROJECT

QUALITY ASSURANCE PROJECT PLAN (QAPP)

FOR ACTIVITIES ON AND ADJACENT TO

LOCKPORT STATE ROAD
FORMER MANUFACTURED GAS PLANT SITE
City of Lockport, Niagara County, New York

JUNE 2002

Prepared By:
NYSEG Licensing & Environmental Operations Department

Section **Page**

Attachments

1.0 INTRODUCTION

This Quality Assurance Project plan (*QAPP*) provides a description of the sampling and laboratory procedures/protocols to be used in support of the Interim Remedial Measures (*IRM*) project at the Lockport State Road Former Manufactured Gas Plant (MGP) Site, City of Lockport , Niagara County, New York. The fundamental purpose of the *QAPP* is to ensure that quality analytical data will be generated to support the project in a manner consistent with the Data Quality Objectives (*DQOs*) as specified herein. This *QAPP* is designed to be used in conjunction with a New York State Department of Environmental Conservation (NYSDEC) approved *IRM Work Plan* with regards to specific project objectives and field sampling activities. To the extent that discrepancies exist between this *QAPP* and the *IRM Work Plan*, the *IRM Work Plan* shall control.

2.0 DATA QUALITY OBJECTIVES

Data quality objectives (*DQOs*) are statements, expressed in either qualitative or quantitative terms, which address the appropriate level of data quality for a project. The quality of data generated must be suitable to support the decisions used to achieve the overall goals as delineated in the *IRM Work Plan*. The general project *DQOs* are summarized in this section, with detailed information given throughout this *QAPP* and associated sections of the specific project *IRM Work Plan*. The overall *DQOs* of the project are:

- To ensure that samples collected are representative of the sample population.
- To provide detection limits for the selected analytical methods which are below the established cleanup objectives or regulatory limits.
- To measure and document precision and accuracy using procedures established by the laboratories, the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) and U.S. Environmental Protection Agency (EPA) approved analytical methods.
- To ensure that all soil/residues and wastewater analyses will be conducted by a NYSDOH ELAP and NYSDOH ELAP CLP certified laboratory.
- To ensure that all final site verification samples (confirmatory samples) are reported with ASP Category B deliverables.

3.0 SAMPLE COLLECTION

3.1 Soils

Soil samples will be collected as described in the appropriate sections of the *IRM Work Plan* or the *Pre-Remediation In Situ Sampling and Analysis Work Plan*. These sections describe the collection procedures, sampling equipment, locations and frequencies for the soil samples. These schedules are based on the requirements for soil disposal or confirmation of excavation endpoint.

All sampling equipment will be properly disposed or decontaminated before being reused (see Section 9.1.1). Samples will be collected and placed in pre-cleaned sample containers provided by the laboratory performing the analysis. All necessary preservatives will be added to the sample containers at the laboratory prior to being shipped to the site (see Section 3.3). Samples will be stored at 4 degrees Centigrade until delivered to, and analyzed by the laboratory. If required by laboratory a temperature blank will be placed inside the sample cooler to facilitate temperature measurement. This will be accomplished by utilization of an on-site refrigerator and/or coolers with ice. (When collecting composite samples for TCLP volatile analysis, volatilization will be minimized by covering the sample compositing container and placing it within a cooler filled with ice between grab sample additions.)

3.2 Wastewater Sampling

Wastewater samples will be collected as described in the appropriate sections of the *IRM Work Plan*. These sections describe the collection procedures, sampling equipment, locations and frequencies for the wastewater samples. Samples of wastewater will be analyzed before being transported to a permitted facility for proper treatment and disposal.

Samples will be transferred directly into pre-cleaned sample collection containers which are supplied by the laboratory performing the analyses. All necessary preservatives will be added to the sample containers at the laboratory prior to being shipped to the site (see Section 3.3). Samples will be stored at 4 degrees Centigrade until delivered to, and analyzed by the laboratory. This will be accomplished by utilization of an on-site refrigerator and/or coolers with ice.

3.3 Sample Containers and Preservatives

Sample containers and preservatives will be provided by the contracted laboratories and stored on-site in a clean and dry location. Sample containers and preservatives by matrix and analysis are listed in the table below.

TABLE A **(Continued on next page)**
SAMPLE CONTAINERS & PRESERVATIVES

Analysis	Matrix	Container	Preservative
TCLP Semivolatiles	Soil	500 ml glass*	4 degrees C
TCLP Metals	Soil	500 ml glass*	4 degrees C
TCLP Pesticides/Herbicides	Soil	500 ml glass*	4 degrees C
Reactive Cyanide	Soil	500 ml glass*	4 degrees C
Reactive Sulfide	Soil	500 ml glass*	4 degrees C
TCLP Volatiles	Soil	20 ml glass	4 degrees C
Total PAHs	Soil	250 ml glass	4 degrees C
Total BTEX (benzene, toluene, ethylbenzene, xylenes)	Soil	125 ml glass	4 degrees C
Total Metals	Soil	250 ml glass**	4 degrees C
Total Metals	Water	500 ml plastic	HNO_3 to pH < 2
Semivolatiles	Water	1000 ml amber glass	4 degrees C
Pesticides/Herbicides	Water	1000 ml amber glass	4 degrees C
Volatiles	Water	40 ml glass	4 degrees C or HCl to pH <2
Paint Filter	Water	500 ml glass	4 degrees C
Total Cyanide	Water	500 ml plastic	4 degrees C NaOH to pH >12
Percent Sulfur	Soil	250 ml glass**	4 degrees C
PCBs	Soil	500 ml glass***	4 degrees C
Ignitability	Soil	500 ml glass***	4 degrees C
BTU/lb	Soil	500 ml glass***	4 degrees C
Flashpoint	Soil	500 ml glass***	4 degrees C
Reactivity	Soil/Water	500 ml glass***	4 degrees C

TABLE A (Continued from previous page)
SAMPLE CONTAINERS & PRESERVATIVES

Analysis	Matrix	Container	Preservative
Corrosivity	Soil/Water	500 ml glass***	4 degrees C
Percent Solids	Soil	500 ml glass***	4 degrees C
pH	Soil	500 ml glass***	4 degrees C

* May be analyzed from same sample container and/or extract.
** May be analyzed from same sample container.
*** May be analyzed from same sample container.
Note: All glass containers will be sealed with Teflon lined caps. All water samples for organic fractions will be collected in duplicate.

3.4 Sampling Holding Times

The following identifies samples by type and matrix and their related holding times.

TABLE B
WASTE CHARACTERIZATION SAMPLES

Sample Type	Matrix	Holding Time*
TCLP Pest./Herb.	Soil	5 days (extraction) 40 days (after extraction)
TCLP Semivolatiles	Soil	5 days (extraction) 40 days (after extraction)
TCLP Mercury	Soil	5 days (extraction) 28 days (after extraction)
TCLP Metals	Soil	180 days
TCLP Volatiles	Soil	14 days
Reactive Sulfide	Soil	7 days
Reactive Cyanide	Soil	14 days
PCBs	Soil	5 days (extraction) 40 days (after extraction)
Ignitability	Soil	N/A
Reactivity	Soil	Cyanide 14 days Sulfide 7 days
Corrosivity	Soil	2 days
Percent Solids	Soil	N/A

* Samples will be analyzed on a priority basis and reported within 10 days of collection or the maximum holding time, whichever is less.

TABLE C
WASTEWATER SAMPLES

Sample Type	Matrix	Holding Time*
Semivolatiles	Water	5 days (extraction) 40 days (after extraction)
Mercury	Water	26 days
Metals	Water	180 days
Total Cyanide	Water	14 days
Paint Filter	Water	N/A
Reactivity	Water	Cyanide 14 days Sulfide 7 days
Corrosivity	Water	Analyze immediately
Volatiles	Water	14 days

* Samples will be analyzed on a priority basis and reported within 5 days or the maximum holding time, whichever is less.

TABLE D
POST REMEDIATION CONFIRMATORY SAMPLES

Sample Type	Matrix	Holding Time
Total Benzene	Soil	7 days
PAHs	Soil	5 days to extraction 40 days after extraction
TCL Volatiles	Soil	7 days
TCL Semivolatiles	Soil	5 days to extraction 40 days after extraction
~~Total Mercury~~	Soil	26 days
~~Total Lead~~	Soil	26 days

1 ASP Category B deliverables required. Duplicates, matrix spike, and matrix spike duplicate samples will be collected at a rate of ten percent.
2. Samples will be analyzed on a priority basis and reported within 48 hours or the maximum holding time, whichever is less.
3. TCL volatiles and semi-volatiles will be determined at a minimum rate of 1 per every group of 10 confirmation samples or portion thereof.

4.0 SAMPLE CUSTODY, IDENTIFICATION & TRACKING

4.1 Holding Times and Sample Transport

Since the samples will be analyzed at priority turn around, no exceedances of holding time are expected. Holding times will be calculated from the time the sample is collected to the subsequent extraction, if necessary, or analysis. All samples will be delivered to the laboratory by same day courier or overnight delivery in sealed coolers with ice.

4.2 Chain of Custody

All samples will be accompanied by a Chain of Custody (COC) form the point of sampling to delivery of the samples to the laboratory. The COC will be a record of the location where the sample was collected, the date and time collected, number of containers collected, type(s) of analyses requested, special remarks or requests, and the signature of each custodian of the samples. The completed COC will be included in all hard copies of reports. See Attachment 1 for a sample COC Form.

Upon sample receipt, laboratory personnel will be responsible for sample custody. The laboratory sample custodian will record the cooler temperature on the COC form, verify sample integrity and compare the cooler contents against the field chain of custody. If a sample container is broken or leaking it will be noted on the COC form and NYSEG project personnel will be immediately notified. If any labeling or descriptive errors are observed by the sample custodian, NYSEG project personnel will be contacted immediately to resolve any discrepancies. After all discrepancies (if any) are resolved, the laboratory will acknowledge receipt of the samples (i.e., by signing and dating the COC) and the completed COC will be included in all hard copies of reports and become a permanent part of the project records.

4.2.1 Sample Identification

Each sample collected during the project will have a unique identification number. This number, date of collection and type of analysis will be placed on each sample container after the sample is collected. See Attachment 2 for sample identification naming convention for air, water and confirmatory samples. A Site map will be used throughout the project to denote the area or point that a confirmatory sample represents. Each confirmatory sample will be assigned a sample point number which will appear as characters 9 & 10.

4.3 Laboratory Sample Tracking

Each laboratory has an internal tracking mechanism to ensure that each sample received has a unique identification number and that results generated and reported for each sample correspond to the identification number assigned at the laboratory.

5.0 CALIBRATION PROCEDURES

Each analysis will be performed in accordance with NYSDOH ELAP (Environmental Laboratory Approval Program) sanctioned methods or equivalent U.S. EPA analytical procedures. Each procedure specifies the method and frequency of calibration necessary to perform accurate and precise analyses. Each analytical instrument verifies the Minimum Detection Limit at least every six months as prescribed by the NYSDOH ELAP. The calibration of the instruments are verified at the beginning and end of each auto sampler run. Gas Chromatograph/Mass Spectrometers are tuned and calibrated every 12 hours, at a minimum.

All field equipment, for real time and speciated real time air analyses will be calibrated daily, in accordance with manufacturer's recommendations. All equipment will be calibrated more frequently if conditions warrant. The HNu meter used to measure Volatile Organic Vapors will be calibrated to a benzene standard. The Mini Ram used to measure particulates will be calibrated to zero with filtered air. The portable GC unit will be used to measure the BTEX (benzene, toluene, ethylbenzene and xylenes) compounds and will be calibrated to a BTEX standard.

6.0 ANALYTICAL PROCEDURES

6.1 Laboratory Analyses

The following charts shows the analytical method to be used for each analyte or group of analytes for the IRM Project:

TABLE E
ANALYTICAL METHODS

Analyte	Analytical Method
TCLP Extractions	SW 846 Method 1311
TCLP Volatiles	SW 846 Method 8260
TCLP Semivolatiles	SW 846 Method 8270
TCLP Metals	SW 846 Method 6000/7000 Series
TCLP Pesticides/Herbicides	SW 846 Method 8080/8151
Polycyclic Aromatic Hydrocarbons (Table F)	SW 846 Method 8270
Total Volatiles	SW 846 Method 8260
Total Semivolatiles	SW 846 Method 8270
Total Metals	SW 486 Method 6000/7000 Series
PCBs	SW 846 Method 8082
Reactive Sulfide	SW 846 Chapter 7.3.4.2
Reactive Cyanide	SW 846 Section 7.3.3.2
Percent Sulfur	ASTM D-129
BTU/lb	ASTM D-215
Flashpoint	ASTM D-93
Ignitability	SW 846 Method 1030
Reactivity	SW 846 Section 7
Corrosivity	SW 846 Section 7
Percent Solids	ASP Method D-V-Section IX
pH	SW 846 Method 9045
Total Cyanide	SW 846 9012
Paint Filter Test	SW 846 9095

TABLE F Polycyclic Aromatic Hydrocarbon (PAH) Analyte List
PARAMETER
Naphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Fluorene
Phenanthrene
Anthracene
Fluoranthene
Dibenzofuran
Pyrene
Benzo (g,h,i) perylene
Benzo (a) anthracene*
Chrysene*
Benzo (b) fluoranthene*
Benzo (k) fluoranthene*
Benzo (a) pyrene*
Indeno (1,2,3 cd) pyrene*
Dibenzo (a, h) anthracene*
*Carcinogenic PAHs (cPAH)

6.2 Laboratory Selection

The laboratory chosen for the project must be certified, and maintain certification, under the NYSDOH ELAP and NYSDOH ELAP CLP for analyses of solid and hazardous waste. Only analytical laboratories that have experience in MGP projects or similar projects will be considered for use.

7.0 DATA REDUCTION VALIDATION AND REPORTING

7.1 Data Reduction

7.1.1 Field Data Collection

Real time field data collected during sampling events will include qualitative information regarding the texture, appearance, odors, and any other observations made while soil and water samples are being collected. Meteorological data and current site activity will be noted while collecting data for real time air monitoring. These observations will be recorded in the field log book.

7.1.2 Laboratory Data Collection and Reduction

A significant portion of the analyses performed require the use of automated laboratory instrumentation. Raw data collected from the instruments detectors will be converted to standard units of mg/Kg for solid matrices and mg/L for water. All raw data will be stored in electronic form and in laboratory notebooks, in case the analysis needs to be recreated. Raw data for all analyses will be archived for a minimum of four years.

7.2 Data Review

All analytical data will be verified for precision and accuracy utilizing the laboratory's in-house Quality Assurance/Quality Control programs. In addition, all data packages will be reviewed by NYSEG project personnel to ensure that all data deliverables have been properly provided.

7.3 Full Data Validation

The full third party data validation process consists of a formal systematic review of analytical results and quality control documentation with regards to the parameters cited in section 8.3. On the basis of this review, a third party data validator will make judgements and express concerns on the quality and limitations of the specific data and the validity of the data package as a whole. The data validator prepares documentation of his or her review using the standard USEPA Inorganics Regional assessment and Organics Regional assessment forms to summarize deficiencies and general laboratory performance. These forms are accompanied by appropriate supplementary documentation which identifies specific problems.

Since a full data validation would typically be used for the purposes of litigation, this level of review may surpass the scope of work necessary for the project. Therefore, any full data validation for analytical results of confirmatory samples will be performed at NYSEG's discretion. Confirmatory sampling data will be archived in the event that it becomes necessary to perform a full data validation at a future date.

7.4 Data Usability Summary Report (DUSR)

A Data Usability Summary Report (DUSR) provides a thorough review and evaluation of analytical data without the formality of a full third party data validation. A DUSR for the analytical results of confirmatory samples will be generated in lieu of a full data validation to verify that the proper data deliverables and procedures have been rendered in accordance with the data quality objectives of the *IRM*.

7.5 Reporting

Final reports for analytical data will be reviewed and accepted by NYSEG prior to submission to the NYSDEC. Reports for analyses performed under the ELAP protocol will contain results sheet for the sample analyzed. These reports must include at a minimum:

- NYSEG Sample ID number;
- Laboratory sample ID number;
- Sample collection date;
- Extraction or digestion date (if applicable);
- Date Analyzed;
- Analytical method;
- Analytical results (with units clearly identified);
- Results of laboratory blank and field blanks;
- Results of spikes, matrix spikes and duplicates;
- Surrogate recoveries (if applicable);
- Completed Chain of Custody forms; and
- Field log sheets (if available)

8.0 QUALITY CONTROL CHECKS

8.1 Field Quality Control

8.1.1 Decontamination Procedures for Confirmation Sampling

The following decontamination procedure will be followed for all non-disposable sampling equipment before being reused.

- Equipment will be washed thoroughly with a non-phosphate detergent.
- The equipment will then be rinsed with analyte-free water.
- The equipment will be rinsed with a reagent grade methanol solution diluted with analyte-free water.
- If the equipment is being used for the collection of samples for metals analyses it will then be rinsed with a 10% reagent grade nitric acid solution.
- The equipment will be rinsed with analyte-free water.

After decontamination, equipment will be carefully stored to avoid contamination between sampling events.

8.2 Laboratory Quality Control (QC)

Each laboratory is NYSDOH Certified for the analyses they will perform. Each analyst must complete a start-up proficiency procedure to demonstrate their capability to perform accurate and precise analyses on each type of instrument they operate. In addition, each laboratory must accurately analyze samples provided by NYSDOH on a semi annual basis to maintain certification. The laboratories have internal quality control officers that review all methodologies and implement corrective action, including reanalyzing samples which do not pass established laboratory quality control (QC) criteria.

Laboratory quality control procedures are specified in the analytical methods. These specifications include the type of QC check required, compounds and concentrations to be used, and QC acceptance criteria. QC checks will include (where specified by method):

- Calibration Standards
- Methods Blanks
- Matrix Spike/Matrix Spike Duplicates

- Surrogate Spikes
- Internal Standards
- Laboratory Duplicates
- Calibration Check Standards
- Laboratory Control Samples

9.0 PREVENTATIVE MAINTENANCE

9.1 Field Instruments and Equipment

Equipment, instruments, tools, gauges, and other items requiring preventive maintenance will be serviced in accordance with the manufacturer's specified recommendations or written procedures developed by the operators. All field equipment service will be conducted by qualified personnel. Prior to any field sampling, each piece of field equipment will be inspected to ensure that it is operational. if the equipment is not operational, it must be repaired prior to use. All equipment which require charging or batteries will be fully charged or have fresh batteries at the start of the project. An equipment repair/maintenance log will be kept for each field instrument. Any non-operational/non-repairable field equipment will be replaced.

9.2 Laboratory Instruments and Equipment

Each laboratory has an instrument/equipment maintenance program which includes procedures for daily, weekly, monthly, or annual routine maintenance. In addition, maintenance is performed if the accuracy and/or precision of the instrument is in question.

9.2.1 Instrument Maintenance

Preventive maintenance of laboratory instruments will be conducted in accordance with the manufacturer's guidelines or written procedures developed by the operators. All instrument service will be performed by qualified personnel. To minimize potential downtime, the laboratory will maintain a sufficient supply of critical spare parts for its instruments and, where practical, maintain a service contract for rapid instrument repair. Wherever possible, the laboratory will retain backup instrumentation. An instrument repair/maintenance log will be maintained for each instrument.

9.2.2 Equipment Monitoring

On a daily basis, the operation of the laboratory equipment (i.e., balances, ovens, refrigerators, water purification systems, etc.) Will be checked and documented. Any discrepancies will be immediately reported to the appropriate laboratory personnel for resolution.

ATTACHMENT 1

NYSEG CHAIN OF CUSTODY RECORD

Laboratory _____

Project Location: _____
Samplers: _____
Affiliation: _____

Sample ID Code	Type	Matrix	Collection Date/Time	No. of Con-tainers												Remarks

Matrix Code: L=Liquid; S=Solid; A=Air

Relinquished by:	Loc:	Date:	Time:	Seals Intact Y N NA
Received by:	Loc:	Date:	Time:	
Relinquished by:	Loc:	Date:	Time:	Seals Intact Y N NA
Received by:	Loc:	Date:	Time:	

Special Instructions / Remarks: _____

Delivery Method: In Person Common Carrier(specify) Lab Courier Other(specify)

ATTACHMENT 2

SYSTEM CODING

SYSTEM CODING IS DERIVED FROM A 10 CHARACTER CODE WITH THE 11 CODE DECLARING SAMPLE TYPE.

HOW THE 10 CHARACTER CODING SYSTEM WORKS:

1 2	3	4	5 6	7 8	9 10

EX. OWEGO WELLPOINT 81-01 SH

O	W	G	U	S	H	8	1	0	1	G
1	2	3	4	5	6	7	8	9	10	

FIRST TWO CHARACTERS = SITE
THIRD CHARACTER = SOURCE
FOURTH CHARACTER = RELATIVE LOCATION
FIFTH AND SIXTH CHARACTER = LOCATION
SEVENTH & EIGHTH CHARACTER = YEAR OF LOCATION/WELL
(XX, IF NOT APPLICABLE)
NINTH & TENTH CHARACTER = NUMBER OF SAMPLING POINT/CONSECUTIVE #
IF MORE THAN ONE SAMPLE FROM SAME LOCATION
(XX, IF NOT APPLICABLE)

ENVIRONMENTAL QUALITY ANALYSIS SYSTEM
CLASS: SITE

CODE	DESCRIPTION
AC	AUBURN CLARK STREET MGP
AF	AFTON ASH DISPOSAL SITE
AG	AUBURN GREEN STREET MGP HOLDER
AL	ALBION MGP
AM	AUBURN MCMASTER STREET MGP
BC	BORDER CITY MGP
CA	CANANDAIGUA MGP
CH	CORTLAND/HOMER MGP
CL	CLYDE MGP
CO	COOPERSTOWN MGP
CR	CORNING MGP
CS	CLIFTON SPRINGS MGP
DR	DAVIS ROAD ASH DISPOSAL SITE
DV	DANSVILLE MGP
EL	ELMIRA MGP
EW	ELMIRA WATER STREET MGP
GS	GOSHEN MGP
GV	GRANVILLE MGP
HN	HORNELL MGP
IC	ITHACA COURT ST MGP
IF	ITHACA FIRST STREET MGP
II	ITHACA CAYUGA INLET MGP STORAGE AREA
LP	LOCKPORT MGP
LS	LOCKPORT STATE STREET MGP HOLDER
LY	LYONS MGP
MC	MECHANICVILLE COONS CROSSING MGP DISPOSAL AREA
MD	MEDINA MGP
ME	MECHANICVILLE CENTRAL AVE MGP
MW	MECHANICVILLE WILLOW GLEN MGP DISPOSAL AREA
NO	NORWICH MGP

ENVIRONMENTAL QUALITY ANALYSIS SYSTEM
CLASS: SITE

CODE	DESCRIPTION
NW	NEWARK MGP
ON	ONEONTA MGP
OW	OWEGO MGP
PA	PALMYRA MGP
PB	PLATTSBURGH BRIDGE STREET MGP
PJ	PENN YAN JACKSON STREET MGP
PL	PLATTSBURGH SARANAC STREET MGP
PP	POZZOLANA PARK ASH DISPOSAL SITE
PY	PENN YAN MGP
RE	(FOR "REASON9999" LIMITS)
SF	SENECA FALLS MGP
WA	WARSAW MGP
WR	WATERLOO MGP HOLDER
WT	WATERVILLE MGP
WW	GENEVA WADSWORTH STREET MGP

ENVIRONMENTAL QUALITY ANALYSIS SYSTEM
CLASS: SOURCE

CODE	DESCRIPTION
A	AIR SAMPLE
D	DRINKING WATER
E	LEAK DETECTION SYSTEM
F	FLY ASH
G	GROUND WATER
H	LEACHATE COLLECTION SYSTEM
I	BIOLOGICAL
L	LABORATORY
M	STORMWATER DISCHARGE
O	(FOR "GROUND9999" LIMITS)
P	PROCESS STREAM
Q	LIQUID WASTE
S	SURFACE WATER
T	SEDIMENT SAMPLE
U	SURFACE SOILS
V	SUBSURFACE SOILS
W	SOLID WASTE
X	SLUDGE SAMPLE
Z	PIEZOMETER

ENVIRONMENTAL QUALITY ANALYSIS SYSTEM
CLASS: RELATIVE LOCATION

CODE	DESCRIPTION
A	AMBIENT
C	CROSSGRADIENT
D	DOWNGRADIENT
I	IN FILL (TAKEN OUT OF A PILE) OR IN SOURCE
L	LOWER
P	UPPER
S	(FOR "REASON9999" LIMITS)
U	UPGRADIENT
W	WASTEWATER
X	N/A

ENVIRONMENTAL QUALITY ANALYSIS SYSTEM
CLASS: LOCATION

CODE	DESCRIPTION
A-	DENOTES A WELL
AI	AIR INDOOR
AO	AIR OUTDOOR
AS	AIR SAMPLING LOCATION
B-	BORING
BD	BOTTOM ASH POND DISCHARGE - NOT TREATED
BI	SETTLING BASIN INFLUENT
CK	SINK
CN	CANAL
CR	COAL TAR TANK
D-	DEEP
DS	DISTRIBUTION SYSTEM
DU	REPLICATE
E-	EAST
FB	FIELD BLANK
FL	FLOOR DRAIN
FO	DRINKING WATER FOUNTAIN
GD	GROUND WATER DRAIN
GH	GAS HOLDER

ENVIRONMENTAL QUALITY ANALYSIS SYSTEM
CLASS: LOCATION

CODE	DESCRIPTION
I-	INSIDE LOCATION AREA
L-	LOWER
LA	LAGOON
LD	LEAK DETECTION DRAIN
LE	ASH LEACHATE
LS	LIFT STATION - PUMPING STATION
MD	MATRIX SPIKE DUPLICATE
MH	MANHOLE
MS	MATRIX SPIKE
N-	NORTH
ND	(FOR "GROUND9999" LIMITS)
ON	(FOR "REASON9999" LIMITS)
OS	OIL STORAGE AREA
PB	PURIFIER BOX
PD	PERIPHERAL DRAINAGE DITCH - AROUND LANDFILL, NO DIRECT DISCHARGE
PO	POND
PW	PROCESS WATER TREATMENT PLANT DISCHARGE - FINAL DISCHARGE FROM TREATMENT FACILITY
R-	DENOTES REPLACEMENT WELL
RF	ROLLOFF CONTAINER
RO	ROOF DRAIN
S-	SOUTH
SD	SEDIMENTATION POND DISCHARGE
SE	STORAGE PILE
SF	SURFACE
SP	SPRING
SH	SHALLOW
SP	SEDIMENTATION POND

ENVIRONMENTAL QUALITY ANALYSIS SYSTEM
CLASS: LOCATION

CODE	DESCRIPTION
SR	WATER
SS	STREAM
ST	SANITARY TREATMENT PLANT DISCHARGE
SW	DRAINAGE SWALE AREA - LOW SPOT FOR WATER COLLECTION
TB	TRIP BLANK
TD	TOE DRAIN
TK	TRUCK
TP	TEST PIT
TR	TRANSFORMER
TT	TELLTALE
U-	UPPER
UD	UNDERDRAIN
W-	WEST
WK	WATER TANK
WO	WASTE OIL CONTAINMENT STRUCTURE
WS	WATER SUPPLY WELL
WT	WATER TREATMENT WASTES
XX	N/A
YR	YARD ROOF DRAINS

ENVIRONMENTAL QUALITY ANALYSIS SYSTEM
CLASS: TYPE

CODE	DESCRIPTION
A	GAS SAMPLER
B	BAILER
C	COMPOSITE OVER THE TIME AT ONE LOCATION
D	PROBE
G	GRAB-SINGLE SAMPLE
H	HNU SAMPLE
L	COMPOSITE OF GRAB SAMPLES COLLECTED AT MULT. LOCS
Q	QUALITY ASSURANCE SAMPLE
V	OVA SAMPLE

APPENDIX E

TRANSPORTATION OF SOLID AND/OR LIQUID WASTE

NYSEG

NEW YORK STATE ELECTRIC & GAS CORPORATION
Corporate Drive, Kirkwood Industrial Park, P.O. Box 5224
Binghamton, New York 13902-5224

INTERIM REMEDIAL MEASURES

NEW YORK STATE DEPARTMENT OF TRANSPORTATION
PROSPECT STREET OVER ERIE CANAL PROJECT

TRANSPORTATION OF SOLID AND/OR LIQUID WASTE

FOR ACTIVITIES ON AND ADJACENT TO

LOCKPORT STATE ROAD
FORMER MANUFACTURED GAS PLANT SITE
City of Lockport, Niagara County, New York

JUNE 2002

Prepared By:
NYSEG Licensing & Environmental Operations Department

1.0 SCOPE OF WORK

This specification is for the transportation of solid and/or liquid nonhazardous and hazardous waste for Lockport State Road former manufactured gas plant (MGP) site, City of Lockport, Niagara County, New York as detailed herein. All transportation must be in accordance with the Order on Consent Index No. D0-0002-9309 with New York State Department of Environmental Conservation, and any other applicable Federal, State, and Local Laws.

2.0 WORK BY CONTRACTOR

The transporter shall provide all necessary training, permits, manifests (when required), labor, personal protective equipment (PPE), tools, equipment, consumable materials, and expendable materials, to transport solid and/or liquid waste as detailed herein.

3.0 GENERAL WORK CONDITIONS

3.1 The transporter shall comply with all applicable provisions of New York State Department of Environmental Conservation Regulation, 6 NYCRR Part 364 "Waste Transporters Permit", Title 6 of the Official Compilation of Codes, Rules and Regulations.

3.2 The transporter shall comply with all applicable provisions of New York State Department of Environmental Conservation Regulation 6 NYCRR Part 372 "Hazardous Waste Manifest System and Related Standards for Generators, Transporters and Facilities", Title 6 of the Official Compilation of Codes, Rules and Regulations.

3.3 The transporter shall comply with all applicable provisions of New York State Department of Transportation (NYSDOT) , the New York State Department of Motor Vehicle (NYSDMV), and/or any other applicable Federal, State, and Local Laws.

3.4 The transporter shall comply with applicable provisions of OSHA 29 CFR 1910.120 "Hazardous Waste Operations Health & Emergency Response".

3.5 The transporter shall develop and implement a written Health & Safety Plan for their drivers which addresses potential exposure to MGP residuals.

3.6 The transporter shall adhere to the following rules while working on an MGP Site and waste disposal facility.

3.6.1 Any truck found unacceptable by NYSEG's field representative and/or the Site's Health & Safety Officer may be rejected. Any cost for rejected trucks shall be born by the transporter. If the NYSDEC representative finds any truck unacceptable, they should bring it to the attention of NYSEG field representative.

3.6.2 The truck drivers will report their arrival to NYSEG's Field Representative and/or the MGP Site's Health & Safety Officer.

3.6.3 Truck drivers are generally restricted to their trucks and the designated waiting areas. Drivers are not permitted access to the MGP Sites without express permission from a representative of NYSEG.

3.6.4 Truck drivers will don hard hats, safety glasses, safety shoes, and gloves, as a minimum for personal protection. When required drivers may be required to don rubber boots and tyvek suits.

3.6.5 All trucks and roll off containers transporting hazardous solid material will have the driver line the entire box (to top of side boards) with 6-mil thick polyethylene sheets (poly sheets). Trucks transporting non hazardous material may be lined as previously stated. All trucks will also have a gasket between the box and tailgate.

3.6.6 All trucks require working audible and visual backup signals.

3.6.7 When loading or when directed by a representative on site, the truck engine should be shut off. Each truck may be restarted and driven away only after receiving the "all clear" direction from the loader operator, or a Site representative.

3.6.8 Truck engines are not allowed to idle in residential or other areas where the exhaust and/or noise could be a nuisance.

3.6.9 No trucks will be loaded above the side boards and no material will be spilling out of the truck. The trucks' exteriors will be cleaned (by others) from material being loaded before they leave the loading area.

3.6.10 The NYSEG's remedial workers will cover trucks with tarps inside the loading area. No driver will walk over the load.

3.6.11 Obey traffic signs and notices (obey the posted speed limit).

3.6.12 Obey rules posted on the site and/or any site specific Health & Safety Plan for all employees.

3.6.13 Report any accidents to the NYSEG's Field Representative and/or the MGP Site's Health & Safety Officer and cooperate with any subsequent accident investigation.

3.6.14 No children under 16 years of age are allowed on MGP Sites. Drivers **are not** allowed in the exclusion zones. No passengers are allowed either in the contamination reduction zones or exclusion zone.

3.6.15 Slow down and be extra cautious during times of poor weather (rain, fog, and snow).

3.6.16 Take extra care around blind corners (watch for construction equipment and pedestrians).

3.6.17 Smoking, eating, and/or drinking is not permitted within the security fence (Contamination Reduction Zone and Exclusion Zone). Smoking, eating, and/or drinking is permitted only in designated areas.

3.6.18 After disposal of material, the transporter is responsible for properly decontaminating their truck and/or equipment.

4.0 TRANSPORTATION ROUTE

4.1 Arrival

Trucks will exit New York State Thruway I-90 (Exit 49) and proceed to NYS Route 78; turn north onto NYS Route 78(South Transit Road) and proceed to Lockport; in the City of Lockport turn left onto West High Street and proceed to State Road; Turn right onto State Road and proceed to MGP Site; and turn left into MGP site.

4.2 Departure

Trucks will exit the MGP site by turning right onto State Road and proceed to West high Street; Turn right onto west High Street and proceed to NYS Route 78(South Transit Road); Turn right onto NYS Route 78(South Transit Road) and proceed to New York State Thruway I-90 (Exit 49).

APPENDIX F

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL
ORDER ON CONSENT

NYSDEC

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 Broadway
Albany, New York 12233-7013

ORDER ON CONSENT

INDEX # D0-0002-9309

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

In the Matter of the Development and Implementation of a Former Manufactured Gas Plant (MGP) Sites Investigation and Remediation Program by New York State Electric & Gas Corporation

ORDER ON CONSENT
Index #D0-0002-9309

WHEREAS:

1. The New York State Department of Environmental Conservation (the "Department") is responsible for enforcement of the Environmental Conservation Law, which, inter alia, requires the Department to carry out the environmental policy of the State set forth of the ECL 1-0101. ECL 3-0301.1.

2. The New York State Electric & Gas Corporation ("Respondent") is a business corporation organized under the laws of the State of New York.

3. Respondent is aware of former manufactured gas plant ("MGP") sites at the locations listed in Table "A" of Paragraph I of this Order at which coal tar and associated hazardous substances ("MGP wastes") were, or which may have been, disposed at various times in the past by Respondent or its predecessors or affiliates (individually, "the Site;" collectively, "the Sites"). Respondent also is the owner of other former MGP sites.

4. The Department asserts that its authority to require abatement and remediation of releases of, inter alia, hazardous substances as that term is defined in 42 U.S.C. 9601(14), including MGP wastes, that are in violation of law or that exceed State environmental quality standards (as those set forth in 6 NYCRR Part 703) ("hazardous substances"), is varied, including, but not limited to, ECL 1-0101, 3-0301, 71-1929, 71-2703, and 71-2705. In addition, the Department asserts that it has the power, inter alia, to provide for the prevention and abatement of all water, land, and air pollution caused by, inter alia, the release of hazardous substances into the environment. ECL 3-0301.1.i. Furthermore, the Department asserts that it has authority to require abatement and remediation of significant threats to the public health or the environment caused by threatened releases of hazardous substances that are hazardous wastes as that term is defined in ECL 27-1301.

5. The Department and Respondent agree that the goals of this Order are for Respondent to (i) gather and provide data pertaining to each of the Sites (other than Mechanicville [Central Avenue] and Owego) sufficient to constitute a Preliminary Site Assessment ("PSA") that will enable the Department to characterize hazardous

substances, as that term is defined in 42 USC 9601(14) (including MGP wastes) which are or may be present at the Site and to enable the Department to determine whether such hazardous substances constitute a significant threat to public health or the environment necessitating remediation; (ii) develop and implement a Remedial Investigation ("RI") and prepare a Feasibility Study ("FS") for any Site the Department determines, based upon the results of the PSA, to require the more comprehensive evaluations and assessments that would be provided through the Remedial Investigation/Feasibility Study ("RI/FS") process; (iii) remediate each Site that the Department determines is in need of remediation on a schedule and to an extent acceptable to the Department, including authorizing Respondent to develop and implement Interim Remedial Measures ("IRMs") that the Department determines to be appropriate; (iv) develop and implement acceptable methods of treating and disposing of nonhazardous coal tar soils ("CTS") that minimize any future impacts on public health and the environment and minimize cost, including, as appropriate, the burning of CTS in Respondent's existing utility steam generating facilities including but not limited to Respondent's Hickling and Jennison Stations; and (v) pay for the State's reasonable administrative and oversight costs associated with implementation of this Order.

6. Respondent, without admitting or denying the Department's authority to require investigation and remediation of hazardous substances at the sites listed in Table "A" of Paragraph I of this Order and having waived its right to a hearing herein as provided by law, and having consented to the issuance and entry of this Order, agrees to be bound by its terms. Respondent consents to and agrees not to contest the authority or jurisdiction of the Department to issue or enforce this Order; and agrees not to contest the validity of this Order or its terms. However, should the Department request that this Order be revised, Respondent reserves all of its rights provided by law and the New York Environmental Conservation Law.

7. Respondent and the Department agree that Respondent shall not be responsible under this Order to investigate, gather data concerning, or remediate those hazardous substances that may exist at or originate from any Site listed in Table "A" of Paragraph I of this Order if, respecting that Site, all the following criteria are met:

a. Respondent no longer owns or controls the Site where the hazardous substances are found;

b. the original disposal and release of the hazardous substances occurred after Respondent or its predecessors or affiliates sold or returned control of the Site to its owner;

c. the hazardous substances were not generated, stored, treated, or disposed at the Site while Respondent or its predecessors or affiliates owned or controlled the Site; and

d. investigation and remediation of the hazardous substances would require Respondent to perform activities and incur costs not necessary to study, characterize, and remediate hazardous substances at the Site that were generated, treated, stored, or disposed at the Site during the ownership or control of Respondent or any of its predecessors or affiliates.

NOW, having considered this matter and being duly advised, IT IS ORDERED THAT:

I. Initial Submittals

Unless otherwise agreed with respect to specific Sites, no later than 45 days after the effective date of this Order, Respondent shall submit to the Department all data and information it has respecting each Site listed in Table "A" of this Paragraph. The data and other information shall include, at a minimum:

A. A brief history and description of the Site, including the types, quantities, physical state, location, and, if applicable, dates of disposal of MGP wastes, including methods of disposal and spillage of such wastes;

B. A comprehensive list and copies of all existing relevant reports with titles, authors, and subject matter, as well as a description of the results of all previous investigations of each Site and areas in the vicinity of each Site, including copies of all available topographic and property surveys, engineering studies and aerial photographs; and

C. An 8.5 inch by 11 inch portion of a United States Geological Survey topographic map of the Site which contains the name of the quadrangle and an arrow indicating the orientation of a northern compass point.

TABLE "A"

1. Auburn (Clark Street)
2. Auburn (Green Street)
3. Auburn (McMaster Street)
4. Clyde
5. Cortland/Homer
6. Dansville
7. Elmira (Madison Avenue)
8. Elmira (Water Street)
9. Geneva (Border City)
10. Geneva (Wadsworth Street)
11. Goshen
12. Granville
13. Ithaca (Cayuga Inlet)

14. Ithaca (Court Street)
15. Ithaca First Street)
16. Lockport (State Road)
17. Lockport (Transit Road)
18. Lyons
19. Mechanicville (Central Avenue)
20. Mechanicville (Coon's Crossing)
21. Newark
22. Norwich
23. Oneonta
24. Owego
25. Palmyra
26. Penn Yan (Jackson Street)
27. Penn Yan (Water Street)
28. Plattsburgh (Bridge Street)
29. Plattsburgh (Saranac Street)
30. Seneca Falls
31. Warsaw
32. Waterloo
33. Waterville

II. Preliminary Site Assessment

A. The Department shall review the data and information Respondent shall submit under Paragraph I of this Order for the purpose of determining whether additional data need to be obtained to enable it to characterize the nature and extent of distribution of any hazardous substances at the Site and to determine whether such substances constitute a significant threat to public health or the environment necessitating remediation. For those Sites pertaining to which the Department determines that there exist sufficient data to enable it to make such characterization and determination, the Department shall inform Respondent of its determination, and if the Department determines that the hazardous substances found at the Site constitute a significant threat to the environment, Respondent shall undertake an RI/FS for such Site as described in this Order. For those Sites pertaining to which the Department determines that more data must be acquired to enable it to make such characterization and determination, the Department shall inform Respondent in writing of its determination and identify the information which must be obtained, and Respondent shall undertake such additional investigation (referred to below as a "Preliminary Site Assessment," or "PSA") as the Department shall require in accordance with a schedule the Department shall determine in consultation with Respondent. Such schedule shall include the date by which Respondent shall submit to the Department a work plan to acquire the information the Department shall require and a date by which field work necessary to develop such information shall commence ("PSA Work Plan").

B. The Department may revise the PSA Work Plan submittal date and the field work start date, or either of them, for any Site identified in Table "A" of Paragraph I if information is developed, or otherwise becomes available, indicating the existence of a condition or circumstance justifying immediate or near-term evaluation or response at that Site which otherwise would not be addressed until a later time.

C. Each Site's PSA Work Plan shall describe the methods and procedures to be implemented in undertaking a study at the Site to which it pertains that will cause the generation of information sufficient to enable the Department to characterize the nature and extent of distribution of any hazardous substances at the Site and to determine whether such substances constitute a significant threat to public health or the environment necessitating remediation. Hence, each Site's PSA Work Plan shall include, but not be limited to, the following:

(1) A chronological description of the anticipated investigative activities together with a schedule for the performance of these activities. Such schedule shall take into account, at a minimum, the submission of draft documents, Department review of such documents, and submission of final approvable documents;

(2) A Sampling and Analysis Plan that shall include:

(a) A quality assurance project plan that describes the quality assurance and quality control protocols necessary to achieve the initial data quality objectives. This plan shall designate a data validation expert and must describe such individual's qualifications and experience, and

(b) A field sampling plan that defines sampling and data gathering methods in a manner consistent with appropriate provisions of the "Compendium of Superfund Field Operations Method" (EPA/540/P-87/001, OSWER Directive 9355.0-14, December 1987) as supplemented by the Department; and

(3) A health and safety plan to protect persons at and in the vicinity of the Site during the performance of the investigation, which shall be prepared in accordance with 29 CFR 1910 and all other applicable standards by a certified health and safety professional. Respondent shall add supplemental items to this plan if necessary to ensure the health and safety of all persons at or in the vicinity of the Site during the performance of any work pursuant to this Order.

D. If after review of the data generated during and after implementation of the Department-approved PSA Work Plan for a particular Site the Department determines that the hazardous substances found at the Site constitute a significant threat to the environment and that response actions are needed in addition to any IRMs the Department may approve or may have approved for the Site under Paragraph III of this Order to address adverse environmental conditions at the Site, the Department shall

notify Respondent of that determination and within 90 days after receipt of that notification, Respondent shall submit to the Department a work plan for that Site that shall incorporate all appropriate elements of an RI/FS as set forth in the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 ("CERCLA") [42 USC 9601 et seq.], as amended; the National Contingency Plan ("NCP") of March 8, 1990 [40 CFR Part 300]; the USEPA guidance document entitled "Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA," dated October 1988 and any subsequent revisions to that guidance document in effect at the time the RI/FS Work Plan is submitted; and appropriate USEPA and Department technical and administrative guidance documents (the "RI/FS Work Plan" for that particular Site). (However, Respondent shall undertake RI/FSs for Mechanicville [Central Avenue] [546033] and Owego [754008] under the terms of, respectively, Department Orders on Consent A5-0276-91-10 dated 23 February 1993 and A7-0150-88-09 dated 2 January 1991.)

III. IRMs

A. (1) Respondent may propose one or more IRMs for any Site. Respondent may propose a treatability study as an IRM.

(2) In proposing each IRM, Respondent shall submit to the Department a work plan that includes a chronological description of the anticipated IRM activities together with a schedule for performance of those activities (an "IRM Work Plan" for that Site).

(3) Upon the Department's determination that the proposal is an appropriate IRM and upon the Department's approval of such work plan, the IRM Work Plan shall be incorporated into and become an enforceable part of this Order; and Respondent shall submit to the Department for its review and (as appropriate) approval, in accordance with the schedule contained in the Department-approved IRM Work Plan, detailed documents and specifications prepared, signed, and sealed by a professional engineer to implement the Department-approved IRM. Such documents shall include a health and safety plan, contingency plan, and (if the Department requires such) a citizen participation plan that incorporates appropriate activities outlined in the Department's publication, "New York State Inactive Hazardous Waste Citizen Participation Plan," dated August 30, 1988, and any subsequent revisions thereto. Respondent shall then carry out such IRM in accordance with the requirements of the approved IRM Work Plan, detailed documents and specifications, and this Order. Respondent shall notify the Department of any significant difficulties that may be encountered in implementing the Department-approved work plan, detailed documents, or specifications and shall not modify any obligation unless first approved by the Department.

(4) During implementation of all construction activities identified in the Department-approved IRM Work Plan, Respondent shall have on-Site a full-time

representative who is qualified to supervise the work done.

(5) Within the schedule contained in the Department-approved IRM Work Plan, Respondent shall submit to the Department a final engineering report prepared by a professional engineer that includes a certification by that individual that all activities that comprised the IRM were performed in full accordance with the Department-approved IRM Work Plan, detailed documents and specifications, and this Order.

(i) If the performance of the Department-approved IRM encompassed construction activities, the final engineering report shall include a detailed post-remedial operation and maintenance plan ("O & M Plan"); "as-built" drawings and a final engineering report (each including all changes made to the Remedial Design during construction); and a certification by a professional engineer that the IRM was implemented and all construction activities were completed in accordance with the Department-approved detailed documents and specifications for the IRM. The O & M Plan, "as built" drawings, final engineering report, and certification must be prepared, signed, and sealed by a professional engineer.

(ii) Upon the Department's approval of the O & M Plan, Respondent shall implement the O & M Plan in accordance with the requirements of the Department-approved O & M Plan.

(6) After receipt of the final engineering report and certification, the Department shall notify Respondent in writing whether the Department is satisfied that the IRM was completed in compliance with the Department-approved IRM Work Plan and design.

B. (1) In implementing any IRM approved by the Department under this Order, Respondent shall be exempt from the requirement to obtain any permit issuable by the Department for an activity satisfying the criteria set out in Subparagraph III.B(2) of this Order.

(2) The following criteria must be met:

(i) The activity is conducted on the Site. For purposes of this Order, an activity is on the Site:

(a) if it is conducted on the same premises as the Site, or

(b) if it is conducted on different premises that are under common control or are contiguous to or physically connected with the Site and the activity manages exclusively hazardous substances for which Respondent is liable (except

in situations where the PSA discloses the existence of off-Site hazardous substance deposits derived from, or otherwise related to materials deposited on-Site, in which case such deposits shall be deemed "on-Site" and subject to this Order to the extent Respondent is able to obtain access for purposes of investigation and/or removal); and

(c) the activity is conducted in a manner which satisfies all substantive technical requirements applicable if the activity were conducted pursuant to a permit issued by the Department.

IV. Performance and Reporting of PSA and of Remedial Investigation

A. (1) In accordance with the schedule contained in a Site's Department-approved PSA Work Plan, Respondent shall commence that Site's PSA.

(2) Respondent shall perform the PSA in accordance with that Site's Department-approved PSA Work Plan.

(3) During the performance of that Site's Department-approved PSA, Respondent shall have at such Site a full-time representative who is qualified to supervise the work done. Respondent's designated representative may be a qualified employee of a consultant or contractor.

(4) In accordance with the schedule contained in a particular Site's Department-approved PSA Work Plan, Respondent shall prepare a PSA Report pertaining to that Site that shall:

(i) include all data generated and all other information obtained during the investigation of that Site;

(ii) provide all appropriate assessments and evaluations set forth in CERCLA, the NCP, and the guidance documents identified in Subparagraph II.D of this Order; and

(iii) include a certification by the individual or firm with primary responsibility for the day to day performance of the PSA for that Site that all activities that comprised the Investigation were performed in full accordance with the Department-approved PSA Work Plan for that Site.

B. This Subparagraph applies only to those Sites identified in Table "A" of Paragraph I of this Order concerning which the Department determines under this Order that an RI/FS must be prepared. (Respondent shall undertake RI/FSs for Mechanicville [Central Avenue] [546033] and Owego [754008] under the terms of, respectively, Department Orders on Consent A5-0276-91-10 dated 23 February 1993 and A7-0150-88-09 dated 2 January 1991.)

(1) In accordance with the schedule contained in a particular Site's Department-approved RI/FS Work Plan, Respondent shall commence that Site's Remedial Investigation.

(2) Respondent shall perform the Remedial Investigation in accordance with that Site's Department-approved RI/FS Work Plan.

(3) During the performance of that Site's Remedial Investigation, Respondent shall have at such Site a full-time representative who is qualified to supervise the work done. Respondent's designated representative may be a qualified employee of a consultant or contractor.

(4) In accordance with the schedule contained in a particular Site's Department-approved RI/FS Work Plan, Respondent shall prepare a Remedial Investigation Report pertaining to that Site that shall:

(i) include all data generated and all other information obtained during the remedial investigation of that Site;

(ii) identify any additional data that must be collected; and

(iii) provide all appropriate assessments and evaluations set forth in CERCLA, the NCP, and the guidance documents identified in Subparagraph II.D of this Order; and

(iv) include a certification by the individual or firm with primary responsibility for the day to day performance of the Remedial Investigation at that Site that all activities that comprised the Remedial Investigation were performed in full accordance with the Department-approved RI/FS Work Plan for that Site.

C. As an element of the Feasibility Study pertaining to a Site, Respondent may undertake a treatability study of remedial alternatives for potential use at such Site, including two EPRI-sponsored demonstration projects, one involving a clean soil process and another involving a contaminated groundwater biotreatment demonstration project (the "study"). The Department agrees with Respondent that the data generated during the course of the study will be beneficial to both Respondent and the Department. In implementing the study, Respondent shall be exempt from the requirement to obtain any permit issuable by the Department for an activity that is conducted on the Site. For purposes of this Order, an activity is on the Site:

1. if it is conducted on the same premises as the Site, or

2. if it is conducted on different premises that are under common control or are contiguous to or physically connected with the Site and the activity

manages exclusively hazardous substance for which Respondent is liable (except in situations where the PSA discloses the existence of off-Site hazardous substance deposits derived from, or otherwise related to materials deposited on-Site, in which case such deposits shall be deemed "on-Site" and subject to this Order and this Subparagraph to the extent Respondent is able to obtain access for purposes of investigation and/or removal); and

3. the activity satisfies all substantive technical requirements applicable to like activity conducted pursuant to a permit as determined by the Department.

Respondent, under the provisions of the Freedom of Information Law, may request that the Department treat as confidential any technology descriptions and data submitted to the Department as part of the study; and the Department, under the provisions of the Freedom of Information Law, shall maintain as confidential any of those descriptions or data that the Department determines is confidential.

V. Feasibility Study

This Paragraph applies only to those Sites identified in Table "A" of Paragraph I of this Order concerning which the Department determines under this Order that an RI/FS must be prepared. (Respondent shall undertake RI/FSs for Mechanicville [Central Avenue] [546033] and Owego [754008] under the terms of, respectively, Department Orders on Consent A5-0276-91-10 dated 23 February 1993 and A7-0150-88-09 dated 2 January 1991.)

A. Within 150 days after receipt of the Department's approval of the Remedial Investigation Report pertaining to a particular Site, Respondent shall submit a Feasibility Study evaluating on-Site and off-Site remedial actions to eliminate, to the maximum extent practicable, all health and environmental hazards and potential hazards attributable to hazardous substance disposal at that Site. Such evaluation may include remediation cleanup levels based upon a Site-specific risk assessment that shall consider a range of exposure scenarios and assumptions that take into account the form, nature, biodegradation, fate, and transport of the contaminant present, and available toxicological data that are based upon generally accepted and peer-reviewed scientific evidence or methodologies. Such Site-specific risk assessment shall be consistent with guidance and regulations for exposure assessment developed by the United States Environmental Protection Agency pursuant to CERCLA and other statutory authorities as applicable; and any proposed remediation cleanup level based upon a Site-specific risk assessment shall be protective of the public health and safety and of the environment. In the event that Respondent intends to undertake such evaluation using a Site-specific risk assessment, Respondent shall submit such risk assessment to the Department for its review no later than 90 days before Respondent shall be required to submit the Feasibility Study for the Site. Unless the Department determines that such risk

assessment is not consistent with peer-reviewed scientific evidence or methodologies, or appropriate guidance and regulations--in which case, the Department shall provide Respondent with a written explanation of the basis for such a determination--the Site-specific risk-based remediation cleanup level determined by application of the risk assessment shall be approved by the Department and shall be used for purposes of selecting the remedial alternative for the Site. Such evaluation also shall take into account any and all Department-approved IRMs that were implemented at the Site. The Feasibility Study shall be prepared by and have the signature and seal of an individual licensed and registered to practice professional engineering in the State of New York who shall certify that the Feasibility Study was prepared in accordance with this Order.

B. Unless the Department otherwise specifies for a particular Site, Respondent shall perform and prepare the Feasibility Study in accordance with the Department-approved RI/FS Work Plan in a manner consistent with appropriate sections of CERCLA, the NCP, and the guidance documents identified in Subparagraph II.D of this Order. If the Department specifies otherwise for a particular Site, Respondent shall perform and prepare the Feasibility Study in accordance with the Department's specifications.

C. (1) Within 30 days after the Department's approval of the Feasibility Study, Respondent shall cooperate and assist the Department in soliciting public comment on the RI/FS and the proposed remedial action plan identified therein, in accordance with appropriate provisions of CERCLA, the NCP, the guidance documents identified in Subparagraph II.D of this Order, and with any Department policy and guidance documents in effect at the time the public comment period is initiated.

(2) The Department shall afford Respondent an opportunity to review and comment upon the proposed remedial action plan for a Site before its release to the public using the following procedure: the Department shall prepare a proposed remedial action plan and shall mail a copy of same to Respondent at least fifteen business days before the scheduled date of the publication of the notice of availability of the document. Respondent shall have ten business days to meet with the Department to discuss it. In the event that Respondent disputes the proposed remedial action plan, within that ten day period, it may request in writing a resolution of its dispute using the procedures contained in Subparagraph XVII.A of this Order. Any resolution of the dispute through the use of those procedures shall concern only the contents of the proposed remedial action plan to be released to the public and shall not preclude the Department from selecting a final remedial alternative for the Site that may be inconsistent with the contents of the proposed remedial action plan that shall have been released to the public.

(3) After the close of the public comment period, the Department shall select a final remedial alternative for the Site in a Record of Decision ("ROD").

The ROD shall be incorporated into and become an enforceable part of this Order.

VI. Remedial Design

This Paragraph applies only to those Sites concerning which the Department determines under this Order that an RI/FS must be prepared, and to Mechanicville (Central Avenue) (546033) and Owego (754008).

A. Unless the ROD selects the "no action" alternative, within 180 days after the ROD is signed, or as otherwise specified in the ROD, Respondent shall submit to the Department a remedial design to implement the remedial alternative for the Site selected by the Department in the ROD (the "Remedial Design"). The Remedial Design shall be prepared by and have the signature and seal of a professional engineer who shall certify that the Remedial Design was prepared in accordance with this Order.

B. The Remedial Design shall include the following:

(1) A detailed description of the remedial objectives and the means by which each essential element of the selected remedial alternative will be implemented to achieve those objectives, including, but not limited to:

(i) the construction and operation of any structures;

(ii) the collection, destruction, treatment, and/or disposal of hazardous substances and their constituents and degradation products, and of any soil or other materials contaminated thereby;

(iii) the collection, destruction, treatment, and/or disposal of contaminated groundwater, leachate, and air;

(iv) physical security and posting of the Site;

(v) health and safety of persons living and/or working at or in the vicinity of the Site;

(vi) quality control and quality assurance procedures and protocols to be applied during implementation of the Remedial Design; and

(vii) monitoring which integrates needs which are present on-Site and off-Site during implementation of the Department-selected remedial alternative.

(2) "Biddable quality" documents for the Remedial Design including, but not limited to, documents and specifications prepared, signed, and sealed

by a professional engineer. These plans shall satisfy all applicable local, state and federal laws, rules and regulations;

(3) A time schedule to implement the Remedial Design;

(4) The parameters, conditions, procedures, and protocols to determine the effectiveness of the Remedial Design, including, if the Remedial Design encompasses groundwater monitoring, a schedule for periodic sampling of groundwater monitoring wells on-Site and off-Site;

(5) A description of operation, maintenance, and monitoring activities to be undertaken after the Department has approved construction of the Remedial Design, including the number of years during which such activities will be performed;

(6) A contingency plan to be implemented if any element of the Remedial Design fails to achieve any of its objectives or otherwise fails to protect human health or the environment;

(7) A health and safety plan for the protection of persons at and in the vicinity of the Site during construction and after completion of construction. This plan shall be prepared in accordance with 29 CFR 1910 by a certified health and safety professional; and

(8) A citizen participation plan which incorporates appropriate activities outlined in the Department's publication, "New York State Inactive Hazardous Waste Citizen Participation Plan," dated August 30, 1988, and any subsequent revisions thereto.

VII. Remedial Construction

This Paragraph applies only to those Sites concerning which the Department determines under this Order that an RI/FS must be prepared, and to Mechanicville (Central Avenue) (546033) and Owego (754008).

A. Within such time as identified in the Department's approval of the Remedial Design (such time being determined in consultation with Respondent), Respondent shall commence construction of the Remedial Design. The Department will extend this period if reasonably necessary to accommodate weather-related limitations or other restrictions upon the construction season.

B. Respondent shall implement the Remedial Design in accordance with the Department-approved Remedial Design.

C. During implementation of all construction activities identified in the Remedial Design, Respondent shall have on-Site a full-time representative who is qualified to supervise the work done.

D. Within 90 days after completion of the construction activities identified in the Remedial Design, Respondent shall submit to the Department a detailed post-remedial operation and maintenance plan ("O & M Plan"); "as-built" drawings and a final engineering report (each including all changes made to the Remedial Design during construction); and a certification by a professional engineer that the Remedial Design was implemented and all construction activities were completed in accordance with the Department-approved Remedial Design. The O & M Plan, "as built" drawings, final engineering report, and certification must be prepared, signed, and sealed by a professional engineer.

E. Upon the Department's approval of the O & M Plan, Respondent shall implement the O & M Plan in accordance with the requirements of the Department-approved O & M Plan.

F. After receipt of the "as-built" drawings, final engineering report, and certification, the Department shall notify Respondent in writing whether the Department is satisfied that all construction activities have been completed in compliance with the approved Remedial Design.

G. If the Department concludes that any element of the Remedial Program fails to achieve its objectives or otherwise fails to protect human health or the environment, Respondent shall take whatever action the Department determines necessary to achieve those objectives or to ensure that the Remedial Program otherwise protects human health and the environment.

VIII. Progress Reports and Meetings

A. Respondent shall submit to each of the parties set forth in Paragraph XVI of this Order two copies of written monthly progress reports that:

1. describe the actions which have been taken toward achieving compliance with this Order during the previous month;

2. identify all work plans, reports, and other deliverables required by this Order that were completed and submitted during the previous month;

3. describe all actions, including, but not limited to, data collection and implementation of work plans, that are scheduled for the next month and provide other information relating to the progress at each Site;

4. include information regarding percentage of completion, unresolved delays encountered or anticipated that may affect the future schedule for implementation of the Respondent's obligations under the Order, and efforts made to mitigate those delays or anticipated delays; and

5. include any modifications to any work plans that Respondent has proposed to the Department or that the Department has approved. Respondent shall submit these progress reports to the Department with respect to each Site by the 10th day after the end of the month to which the report pertains.

B. Respondent shall allow the Department to attend, and shall provide the Department at least seven days advance notice of the occurrence of, any of the following: prebid meetings, job progress meetings, substantial completion meeting and inspection, and final inspection and meeting; provided, however, that if circumstances are such as to prevent Respondent from providing the Department with such seven day notice period, Respondent shall provide as much advance notice as possible, under the circumstances.

IX. Review of Submittals

A. (1) The Department shall review each of the submittals Respondent is required to make pursuant to this Order to determine whether it was prepared, and whether the work done to generate the data and other information in the submittal was done, in accordance with this Order and generally accepted technical and scientific principles. Respondent shall include all results of sampling and tests and all other data received or generated by Respondent or Respondent's contractors or agents, including quality assurance/quality control information, whether conducted pursuant to this Order or conducted independently by Respondent, in the submittal to which such sampling, tests, and other data pertain. The Department shall notify Respondent in writing of its approval or disapproval of the submittal, except for the health and safety plans identified in Paragraph III and in Subparagraphs II.C(3) and VI.B(7) of this Order. All Department-approved submittals shall be incorporated into and become an enforceable part of this Order.

(2) (i) If the Department disapproves a submittal, it shall so notify Respondent in writing and shall specify the reasons for its disapproval. Within 30 days after receiving written notice that Respondent's submittal has been disapproved, Respondent shall make a revised submittal to the Department that addresses and resolves all of the Department's stated reasons for disapproving the first submittal.

(ii) Within a reasonable time after receipt of the revised submittal so as to not cause Respondent to be unable to comply with subsequent obligations and schedule deadlines as presented in Department-approved work plans, the Department shall notify Respondent in writing of its approval or disapproval. If the Department disapproves the revised submittal, Respondent shall be in violation of this

Order and the Department may take any action or pursue whatever rights it has pursuant to any provision of statutory or common law, unless Respondent exercises the dispute resolution procedure described in Subparagraph XVII.A of this Order. If the Department approves the revised submittal, it shall be incorporated into and become an enforceable part of this Order.

B. The Department may require Respondent to modify and/or amplify and expand a submittal if the Department determines, as a result of reviewing data generated by an activity required under this Order or as a result of reviewing any other data or facts, that further work is necessary.

X. Penalties

A. Respondent's failure to comply with any term of this Order constitutes a violation of this Order and the ECL.

B. Respondent shall not suffer any penalty under this Order or be subject to any proceeding or action for enforcement of this Order if it cannot comply with any requirement hereof because of war, riot, or an unforeseeable disaster which the exercise of ordinary human prudence could not have prevented. Respondent shall, within five days of when it obtains knowledge of any such condition, notify the Department in writing. Respondent shall include in such notice the measures taken and to be taken by Respondent to prevent or minimize any delays and shall request an appropriate extension or modification of this Order. Failure to give such notice within such five-day period constitutes a waiver of any claim that a delay is not subject to penalties. Respondent shall have the burden of proving that an event is a defense to compliance with this Order.

XI. Entry upon Site

Subject to conditions that may be described in a particular Site's health and safety plan, Respondent hereby consents to the entry upon the Site or areas in the vicinity of the Site which may be under the control of Respondent by any duly designated employee, consultant, contractor, or agent of the Department or any State agency for purposes of inspection, sampling, and testing and to ensure Respondent's compliance with this Order.

XII. Payment of State Costs

The Department shall establish an interest-bearing account into which the Department shall place all monies received from Respondent under the provisions of this Paragraph in order to pay for the State's expenses (including, but not limited to, direct labor and fringe benefits, overhead, travel, analytical costs, and contractor costs) incurred by the State of New York to fund environmental monitors for work associated with

reviewing and revising submittals made pursuant to this Order, overseeing activities conducted pursuant to this Order, collecting and analyzing samples, and administrative costs associated with administering the requirements of this Order. Respondent shall make payments to the Department as follows:

A. Respondent shall submit to the Department the sum of $310,000, which shall represent the State's estimate of the first year expenses (including, but not limited to, direct labor and fringe benefits, overhead, travel, analytical costs, and contractor costs) incurred by the State of New York to fund environmental monitors for work associated with reviewing and revising submittals made pursuant to this Order to date, overseeing activities conducted pursuant to this Order, collecting and analyzing samples, and administrative costs associated with administering the requirements of this Order. The $310,000 shall be submitted as follows: $110,000 on or before the effective date of this Order; $100,000 on or before the 60th day after the effective date of this Order; and $100,000 on or before the 120th day after the effective date of this Order. Respondent shall make subsequent quarterly payments to the Department for the duration of this Order in order to maintain an account balance sufficient to meet the next nine months' anticipated above-described State costs, however, not exceeding on an annual basis $310,000 (which amount may be increased on an annual basis based upon increases in the Consumer Price Index). Each quarterly billing will be based on expenditures incurred to date. The quarterly billing will take into account matters such as inflation, salary increases, accrued interest to be applied to the balance, changes in operating hours and procedures and the need for additional personnel and supervision of such personnel by full-time supervisors. Costs and expenses to be covered by this account include:

(1) Direct personal service costs and fringe benefits of the State's staff assigned to work associated with reviewing and revising submittals made pursuant to this Order, overseeing activities conducted pursuant to this Order, collecting and analyzing samples, and administrative costs associated with administering the requirements of this Order, including their supervisors and including the costs of replacement personnel for the persons regularly assigned to these duties;

(2) Direct non-personal service costs, including but not limited to purchase of a vehicle if necessary and its full operating costs, any appropriate chemical sampling and analysis, travel, supplies, and contractual costs;

(3) Indirect support or overhead costs at the annually approved indirect support cost rate; and

(4) Consultant services.

B. The Department shall notify Respondent in writing when a quarterly payment is due by submitting a quarterly billing. Respondent shall make such payment

in the form of a check payable to the order of the New York State Department of Environmental Conservation and shall submit such payment to the Department at the following address no later than 30 days from receipt of such billing:

New York State Department of Environmental Conservation
50 Wolf Road, Room 608
Albany, NY 12233-1510
ATTENTION: Director of Environmental Monitors

Payments are to be in advance of the period in which they will be expended. Respondent may dispute a quarterly billing by informing the Department in writing within 30 days of receipt of such billing that the amount of such billing is unreasonable. For purposes of this Order, the sole grounds for determining that a billing is unreasonable are that it contains clerical errors; and that all or a portion of a billing cannot be substantiated by the documentation identified in Subparagraph XII.D or XII.E, as appropriate, of this Order. The procedures contained in Subparagraph XVII.A of this Order shall be used to resolve such dispute, and Respondent shall pay the amount as those procedures shall determine Respondent shall pay, within the time period they shall require.

C. Upon the later termination of this Order and upon payment of any outstanding costs and expenses, the Department shall return the unexpended balance, including interest, to Respondent.

D. Actual personal service costs will be based on Site-specific time and activity ("T&A") costs. Non-personal service costs will be prorated based on the type of cost incurred: general costs (such as, supplies and equipment) will be prorated evenly among the Sites subject to this Order; while other project-related costs will be prorated based on the percentage of T&A incurred for each Site subject to this Order for that time period.

E. Actual costs incurred will be documented by quarterly T&A reports for personal service costs. Copies of actual invoices will not be provided but shall be made available for auditing purposes.

XIII. Department Reservation of Rights

A. Nothing contained in this Order shall be construed as barring, diminishing, adjudicating, or in any way affecting any of the Department's rights.

B. Nothing contained in this Order shall be construed to prohibit the Commissioner or his duly authorized representative from exercising any summary abatement powers.

XIV. Indemnification

Respondent shall indemnify and hold the Department, the State of New York, and their representatives and employees harmless for all claims, suits, actions, damages, and costs of every name and description arising out of or resulting from the fulfillment or attempted fulfillment of this Order by Respondent, and/or Respondent's directors, officers, employees, servants, agents, successors, and assigns; provided, however, that Respondent shall not indemnify the Department, the State of New York, and their representatives and employees in the event that such claim, suit, action, damages, or cost relate to or arise from any unlawful, willful, grossly negligent, or malicious acts or omissions on the part of the Department, the State of New York, or their representatives and employees.

XV. Public Notice

A. Within 30 days after the effective date of this Order with respect to each Site Respondent owns as of the effective date of this Order, or within 30 days after Respondent acquires ownership in any Site, Respondent shall file, with respect to each Site, a Declaration of Covenants and Restrictions with the Clerk of the County within which each such Site is located to give all parties who may acquire any interest in such Site notice of this Order.

B. If Respondent proposes to convey the whole or any part of Respondent's ownership interest in any Site, Respondent shall, not fewer than 60 days before the date of conveyance, notify the Department in writing of the identity of the transferee and of the nature and proposed date of the conveyance of the Site in question and shall notify the transferee in writing, with a copy to the Department, of the applicability of this Order and shall accompany such notification with a copy of this Order.

XVI. Communications

A. All written communications required by this Order shall be transmitted by United States Postal Service, by private courier service, or hand delivered as follows:

Communication from Respondent shall be sent to:

(1) Charles N. Goddard, P.E.
Assistant Director
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233-7010

(2) Director, Bureau of Environmental
Exposure Investigation
New York State Department of Health
2 University Place
Albany, New York 12203

(3) Department Regional Director in whose
Region the Site in question is located

(4) Charles E. Sullivan, Jr.
Division of Environmental Enforcement
New York State Department of
Environmental Conservation
50 Wolf Road, Room 609
Albany, New York 12233-5500

B. Copies of work plans and reports shall be submitted as follows:

(1) Six copies (one unbound) to Mr. Goddard

(2) Two copies to the Director, Bureau of
Environmental Exposure Investigation

(3) One copy to Mr. Sullivan

C. Within 30 days of the Department's approval of any report submitted pursuant to this Order, Respondent shall submit to Mr. Goddard a computer readable magnetic media copy of the approved report in American Standard Code for Information Interchange (ASCII) format. This requirement shall not apply to past reports that will be submitted to the Department but have already been completed by Respondent.

D. Communication to be made from the Department to Respondent shall be sent to:

Phillip M. Murphy, Manager--Alternative Methods
Environment & Research Department
New York State Electric & Gas Corporation
Corporate Drive, Kirkwood Industrial Park
P.O. Box 5227
Binghamton, New York 13902-5227

E. The Department and Respondent reserve the right to designate additional or different addressees for communication or written notice to the other.

XVII. Miscellaneous

A. (1) This Subparagraph applies only to those Sites identified in Table "A" of Paragraph I of this Order concerning which the Department determines under this Order that an RI/FS must be prepared.

(2) If after conferring in good faith, there remains a dispute between Respondent and the Department concerning a provision of this Order identified as subject to this Subparagraph's procedures, within the time period provided in that provision Respondent serve on the Department a request for an appointment of an Administrative Law Judge ("ALJ"), and a written statement of the issues in dispute, the relevant facts upon which the dispute is based, and factual data, analysis, or opinion supporting its position, and all supporting documentation on which Respondent relies (hereinafter called the "Statement of Position"). The Department shall serve upon Respondent its Statement of Position, including supporting documentation no later than ten (10) business days after receipt of Respondent's Statement of Position. Respondent shall have five (5) business days after receipt of the Department's Statement of Position within which to serve upon the Department a reply to the Department's Statement of Position, and in the event Respondent serves such a reply, the Department shall have five (5) business days after receipt of Respondent's reply to the Department's Statement of Position within which to serve upon Respondent the Department's reply to Respondent's reply to the Department's Statement of Position. In the event that the periods for exchange of Statements of Position and replies may cause a delay in the work being performed under this Order, the time periods may be shortened upon and in accordance with notice by the Department as agreed to by Respondent.

(3) The Department shall maintain an administrative record of any dispute being addressed under this Subparagraph. The record shall include the Statement of Position of each party served pursuant to Subparagraph XVII.A(2) and any relevant information. The record shall be available for review of all parties and the public.

(4) Upon review of the administrative record as developed pursuant to this Subparagraph, the ALJ shall issue a final decision and order resolving the dispute. If the matter in dispute concerns a submittal,

(i) Respondent shall revise the submittal in accordance with the Department's specific comments, as may be modified by the ALJ and except for those which have been withdrawn by the ALJ, and shall submit a revised submittal. The period of time within which the submittal must be revised as specified by the Department in its notice of disapproval shall control unless the ALJ revises the time frame in the ALJ's final decision and order resolving the dispute.

(ii) After receipt of the revised submittal, the Department

shall notify Respondent in writing of its approval or disapproval of the revised submittal.

(iii) If the revised submittal fails to address the Department's specific comments, as may be modified by the ALJ, and the Department disapproves the revised submittal for this reason, Respondent shall be in violation of this Order and the ECL.

(5) In review by the ALJ of any dispute pursued under this Subparagraph, Respondent shall have the burden of proving by a preponderance of the evidence that the Department's position should not prevail.

(6) a deadline involving any matter that is the subject of the dispute resolution process described in this Subparagraph shall be held in abeyance while it is the subject of the dispute resolution process unless the Department and Respondent otherwise agree in writing. The invocation of the procedures stated in this Subparagraph shall constitute an election of administrative remedies by Respondent, and such election of this remedy shall constitute a waiver of any and all other administrative remedies which may otherwise be available to Respondent regarding the issue in dispute.

B. All activities and submittals required by this Order shall address both on-Site and off-Site contamination resulting from the disposal of hazardous substances at each Site.

C. Respondent shall retain professional consultants, contractors, laboratories, quality assurance/quality control personnel, and data validators acceptable to the Department to perform the technical, engineering, and analytical obligations required by this Order. Within 30 days after completion of Respondent's retainer process resulting in the selection of a particular firm or individual to perform any of such obligations, Respondent shall submit to the Department a summary of the experience, capabilities, and qualifications of the firm or individual retained. Respondent must obtain the Department's approval of these firms or individuals before the initiation of any activities for which Respondent and such firms or individuals will be responsible.

D. The Department shall have the right to obtain split samples, duplicate samples, or both, of all substances and materials sampled by Respondent, and the Department also shall have the right to take its own samples. Respondent shall have the right to obtain split samples, duplicate samples, or both, of all substances and materials sampled by the Department, and Respondent also shall have the right to take its own samples. Respondent shall make available to the Department the results of all sampling and/or tests or other data generated by Respondent with respect to implementation of this Order, including a tabular summary of any such results in any report submitted pursuant to this Order requiring such results.

E. Respondent shall notify the Department at least 10 working days in

advance of any field activities to be conducted pursuant to this Order. The Department's project manager is hereby authorized to approve any modification to an activity to be conducted under a Department-approved work plan in order to adapt the activities to be undertaken under such work plan to the conditions actually encountered in the field.

F. Respondent shall use reasonable efforts to obtain whatever permits, easements, rights-of-way, rights-of-entry, approvals, or authorizations are necessary to perform Respondent's obligations under this Order. If Respondent is unable, after exhaustion of such reasonable efforts, to obtain any such permissions, the Department will exercise whatever authority is available to it, in its discretion, to obtain same. In no event will Respondent be determined to be in violation of this Order if it fails to obtain any such permissions after exhausting reasonable efforts to obtain same. This is in recognition of the fact that, with respect to certain Sites, the New York State Electric and Gas Corporation is the current owner of only part of the potential area of disposal of MGP wastes, and may in fact, as to certain Sites, not be the owner of any portion of the Site. Significant impediments may, therefore, be encountered as to Respondent's ability to obtain access for purposes of carrying out the requirements of this Order.

G. If Respondent determines, in connection with any given Site, that a valid claim exists in favor of Respondent as against any other potentially responsible party, for contribution toward response costs deemed necessary by the Department in connection with such Site (or for recovery of an appropriate portion of such costs previously incurred by Respondent), the Department shall provide, in a timely manner, information responsive to any reasonable request (otherwise in conformity with Freedom of Information Law requirements) by such party related to conditions at the Site and any other relevant information that may be helpful in substantiating Respondent's claim. Similarly, if Respondent requests access to non-privileged and otherwise disclosable information in the Department's possession and relevant to the potential liability of any person or entity who may be subject to such claim by Respondent for contribution or cost recovery, the Department will take reasonable steps to expedite Respondent's access to such information.

H. Respondent and its successors and assigns shall be bound by this Order. Any change in ownership or corporate status of Respondent including, but not limited to, any transfer of assets or real or personal property shall in no way alter Respondent's responsibilities under this Order. Respondent's officers, directors, employees, servants, and agents shall be obliged to comply with the relevant provisions of this Order in the performance of their designated duties on behalf of Respondent.

I. Respondent shall provide a copy of this Order to each contractor hired to perform work required by this Order and to each person representing Respondent with respect to the Site and shall condition all contracts entered into hereunder upon performance in conformity with the terms of this Order. Respondent or Respondent's contractors shall provide written notice of this Order to all subcontractors hired to

perform any portion of the work required by this Order. Respondent shall nonetheless be responsible for ensuring that Respondent's contractors and subcontractors perform the work to be done under this Order in accordance with this Order.

J. All references to "professional engineer" in this Order are to an individual licensed and registered to practice professional engineering in accordance with Article 145 of the New York State Education Law.

K. All references to "days" in this Order are to calendar days unless otherwise specified.

L. The section headings set forth in this Order are included for convenience of reference only and shall be disregarded in the construction and interpretation of any of the provisions of this Order.

M. (1) The terms of this Order shall constitute the complete and entire Order between Respondent and the Department concerning the Site. No term, condition, understanding, or agreement purporting to modify or vary any term of this Order shall be binding unless made in writing and subscribed by the party to be bound. No informal advice, guidance, suggestion, or comment by the Department regarding any report, proposal, plan, specification, schedule, or any other submittal shall be construed as relieving Respondent of Respondent's obligation to obtain such formal approvals as may be required by this Order. However, in the event that Respondent determines that it cannot continue burning CTS at either its Jennison Station or Hickling Station, then Respondent may request that the Department modify its obligations regarding the Sites listed in Table "A" of Paragraph I of this Order. The Department's decision on whether to grant Respondent's request shall not be unreasonably denied and shall consider, but not be limited to, Respondent's costs of proceeding with its obligations under this Order.

(2) If Respondent desires that any provision of this Order be changed, Respondent shall make timely written application, signed by the Respondent, to the Commissioner setting forth reasonable grounds for the relief sought. Copies of such written application shall be delivered or mailed to Messrs. Goddard and Sullivan.

N. The effective date of this Order shall be the date it is signed by the Commissioner or his designee.

DATED: Albany, New York
March 30, 1994

J. LANGDON MARSH
Acting Commissioner
New York State Department
of Environmental Conservation

CONSENT BY RESPONDENT

Respondent hereby waives its right to a hearing herein as provided by law; consents to the issuance and entry of this Order; and agrees to be bound by its terms, not to contest the authority or jurisdiction of the Department to issue or enforce this Order, and not to contest the validity of this Order or its terms.

NEW YORK STATE ELECTRIC & GAS CORPORATION

by: Vincent W Rider

Typed name of signer: Vincent W. Rider

Title of signer: Vice President - Electric Generation

Date signed: March 25, 1994

STATE OF NEW YORK)
) ss:
COUNTY OF Broome)

On this 25th day of March, 1994, before me personally appeared Vincent W. Rider, to me known, who, being duly sworn, did depose and say that he resides in Endwell, New York; that he is Vice President-Electric Generation of the New York State Electric & Gas Corporation; that he executed the foregoing instrument on behalf of the New York State Electric & Gas Corporation; that he knew the seal of said corporation; that the seal affixed to said instrument was such corporate seal; that it was so affixed by order of the Board of Directors of said corporation; and that he signed his name thereto by like order.

Gail A. Marion
Notary Public State of New York
Registration number: 5003473
My commission expires: 10/26/94

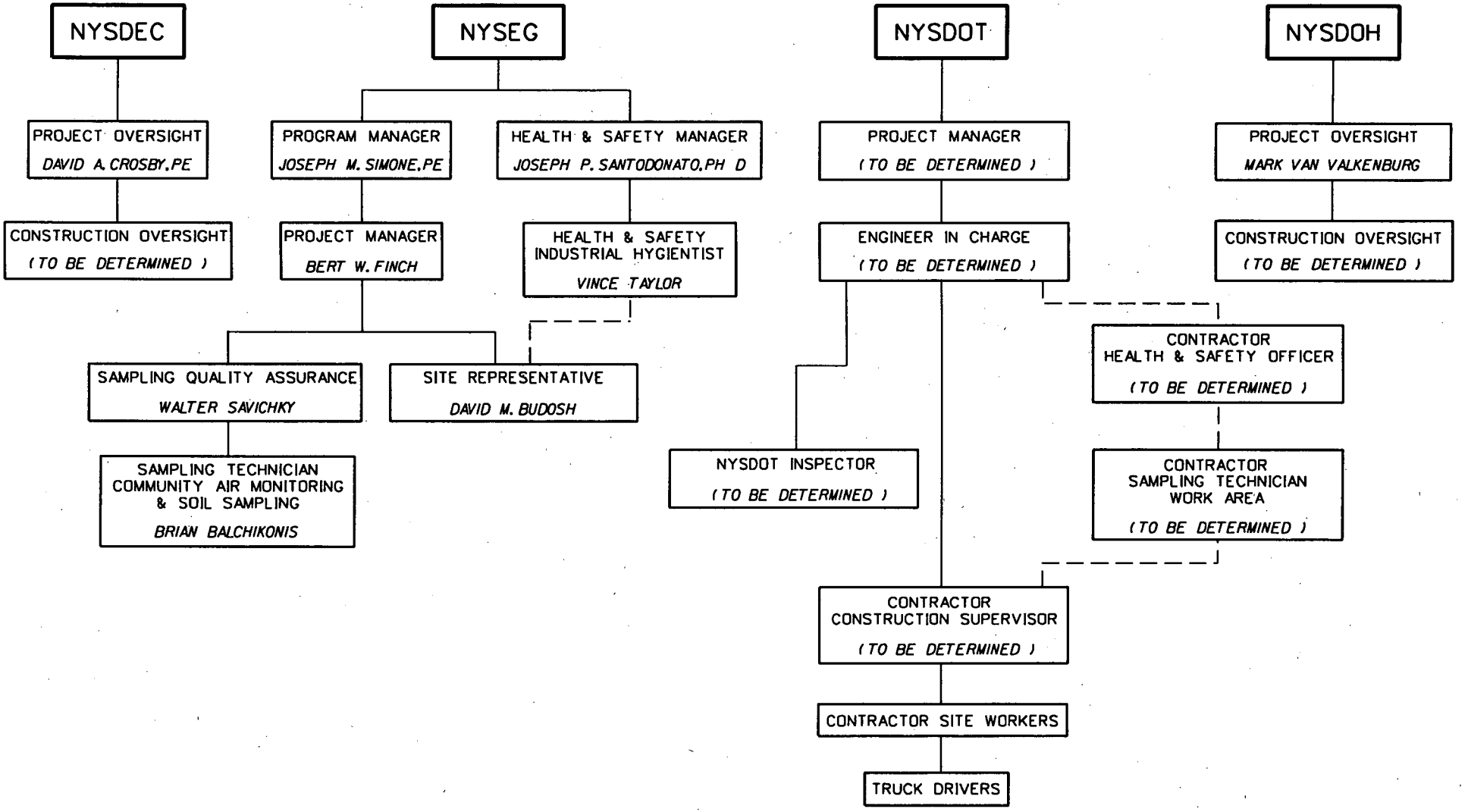
GAIL A. MARION
Notary Public, State of New York
No. 5003473
Residing in Broome County
My commission expires Oct 26 19 94

(oNYSEG2.cst)

APPENDIX G

ORGANIZATION STRUCTURE

ORGANIZATION STRUCTURE FOR ACTIVITIES AT LOCKPORT STATE ROAD FORMER MGP SITE NYSDOT PROSPECT STREET OVER ERIE CANAL PROJECT

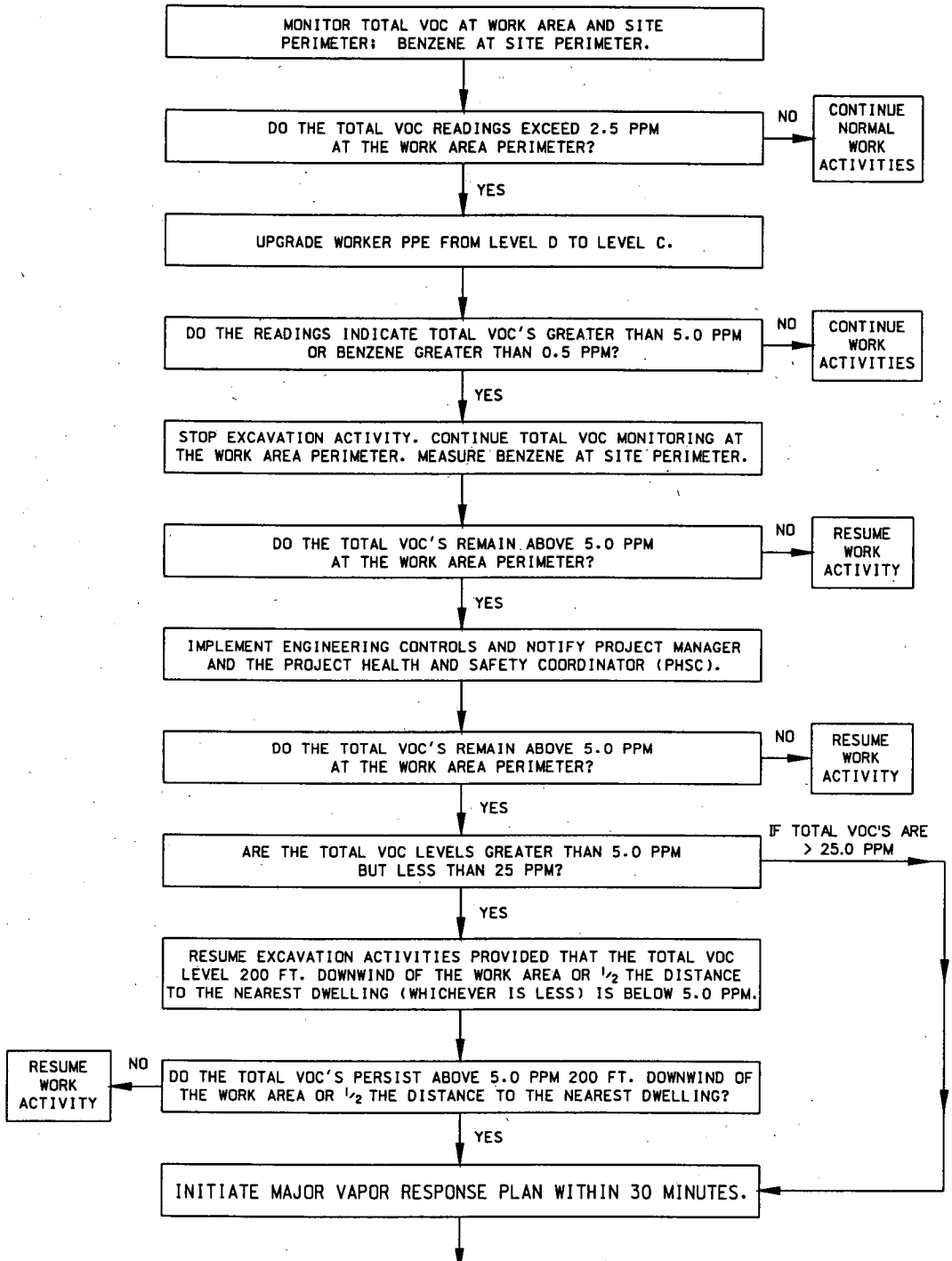


LOCKSTORG.DGN 01-02-02 (Rev.1: 06-03-02)

APPENDIX H

VAPOR EMISSION RESPONSE PLAN

LOCKPORT STATE ROAD MGP SITE
VAPOR EMISSION RESPONSE PLAN



1. COVER THE EXCAVATED AREA WITH POLYETHYLENE SHEETING.
2. NOTIFY THE NYSDOH, MARK VAN VALKENBURG (518) 402-7890, NYSDEC, DAVID CROSBY (518) 402-9813, AND THE LOCKPORT POLICE BUREAU (716) 433-7700.
3. TOTAL VOC LEVELS WILL BE MONITORED WITHIN 20 FEET OF THE NEAREST DOWNWIND RESIDENTIAL OR COMMERCIAL STRUCTURE. (20 FOOT ZONE).
4. CONTINUE AIR MONITORING 15-MINUTE INTERVALS IN THE 20 FOOT ZONE. IF TWO SUCCESSIVE READINGS BELOW ACTION LEVELS ARE MEASURED, AIR MONITORING INTERVALS MAY BE HALTED OR MODIFIED BY THE PHSC, WITH APPROVAL OF THE NYSDEC AND NYSDOH.
5. IF THE TOTAL VOC LEVELS PERSIST ABOVE THE 5.0 PPM WITHIN THE 20 FOOT ZONE, THE NYSDOT CONTRACTOR CONSTRUCTION SUPERVISOR, PHSC AND NYSEG MANAGER WILL CONSULT WITH EACH OTHER AND THE EMERGENCY REPONSE AGENCIES TO DETERMINE APPROPRIATE ACTIONS TO BE IMPLEMENTED. NYSEG HAS ULTIMATE AUTHORITY DURING MAJOR VAPOR EMISSION EMERGENCIES.

c:\users\rb02827\dgn\lockstvapor.dgn

APPENDIX I

CONTINGENCY PLAN

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

NEW YORK STATE DEPARTMENT OF TRANSPORTATION
PROSPECT STREET OVER ERIE CANAL PROJECT

CONTINGENCY PLAN

FOR ACTIVITIES ON AND ADJACENT TO

LOCKPORT STATE ROAD
FORMER MANUFACTURED GAS PLANT SITE
City of Lockport, Niagara County, New York

JUNE 2002

Prepared By:
NYSEG Licensing & Environmental Operations Department

TABLE OF CONTENTS

1.0 CONTINGENCY PLAN

This *Contingency Plan* is designed to address potential emergencies that may arise as a result of operations during the Interim Remedial Measure (*IRM*) to be completed at NYSEG's (New York State Electric and Gas Corporation's) Lockport State Road Former Manufactured Gas Plant (MGP) site, City of Lockport, Niagara County, New York. This Plan supplements the *IRM Work Plan* and the *IRM Health and Safety Plan*.

The New York State Department of Transportation (NYSDOT) contractors and subcontractors providing major services will each produce contingency plans addressing potential emergencies that may arise as a result of their operations. The Site Safety Officer (SSO) will be made aware of the emergencies and coordinate any response activities carried out at the site. The SSO will serve as the overall Project Emergency Coordinator (PEC) and have the ultimate authority in specifying and facilitating any contingency action.

If the SSO is not able to perform these duties, he will specify another senior individual to serve in this capacity. The PEC will become familiar with contingency plans developed by each contractor and subcontractor.

1.1 Identifying the Hazards and Assessing the Risk

The objectives during any emergency shall be to protect human health and safety and then the environment. Possible hazards to human health or environment that may result from any emergency situation will be identified by the PEC. The PEC must take into consideration both direct and indirect effects of the incident.

The PEC will then access the possible risks to human health or the environment that may result from the emergency (e.g., release, fire, explosion, or severe weather conditions). He will make this assessment by:

- identifying the materials involved in the incident;
- consulting the appropriate Occupational Health Guideline or MSDS to determine the potential effects of exposure/release, and appropriate safety precautions; and

- identifying the exposure and/or release pathways and the quantities of materials involved.

Based on this information the PEC will determine the best course of action for dealing with the emergency, and possible follow-up requirements that may result from implementing those actions (e.g., equipment repair, material disposal, etc.).

If the incident cannot be controlled by operating personnel without incurring undue risk, the PEC will implement the Site Evacuation Procedures (Section 2.1) If off-site neighboring population is at risk the Off-Site Evacuation Procedures (Section 2.2) will be implemented. The PEC will notify NYSEG project manager and the appropriate government agencies and departments that a situation resulting in evacuation has occurred. Should emergency assistance in treating injuries or carrying out the evacuation be required, the PEC will request assistance of the appropriate parties.

1.2 Conditions for Implementing a Contingency Plan

Some of the conditions under which the contingency plan would be implemented are:

- fire or explosion;
- occurrence of a spill or material release;
- severe weather conditions; and
- physical or chemical injury to a worker.

1.2.1 Fire and/or Explosion Conditions

Contingency procedures will immediately be implemented upon notification that any of the following scenarios involving fire and/or explosion is imminent or has occurred:

- a fire that causes, or could cause, the release of toxic fumes;
- a fire that could possible ignite nearby flammable or could cause heat-induced explosions;
- a fire that could possibly spread to off-site areas;

- a danger exists that an explosion could occur causing a safety or health hazard; and
- an explosion has occurred.

1.2.2 Spill or Material Release Conditions

Any of the following scenarios involving a spill or material release, whether imminent or having already occurred, will cause implementation of contingency procedures:

- a spill or material release that could result in the release of flammable liquids or vapors, thus causing a fire or gas explosion hazard;
- a spill or material release that could cause the release of toxic vapors or fumes into the atmosphere in concentrations higher than the OSHA Permissible Exposure Limits (PELs);
- a spill or material release that can be contained on-site where a potential exists for groundwater or surface water contamination; and
- a spill or material release that cannot be contained on-site, resulting in a potential for off-site soil contamination and/or groundwater or surface water pollution.

The PEC (or sub-contractor's emergency coordinator) will immediately identify the character, source, amount, and extent of any release. Spills or material releases shall be reported immediately to the PEC. Initial identification will be based on visual analysis of the material and location of the release. If the release material cannot be identified, samples will be taken for analysis.

1.2.3 Severe Weather Conditions

The following severe weather conditions, whether imminent or having occurred, may cause implementation of contingency procedures.

- a tornado has been sighted in the area;
- a tornado warning is in effect for the area;
- a lightning storm is underway in the area (storm center less than 5 miles away); and
- other severe weather or weather induced conditions (e.g., hurricane or flood).

1.2.4 Physical or Chemical Injury Conditions

The following worker injuries may cause implementation of the Contingency Plan:

- major physical injuries;
- chemical injuries; and
- severe symptoms of chemical overexposure.

1.3 Contingency Procedures

If any of the aforementioned conditions for implementing the Contingency Plan are met, the appropriate following contingency procedure(s) shall be performed.

1.3.1 Contingency Procedures for Fire/Explosion

When fire or explosion appear imminent or have occurred, all normal activity in affected areas will cease. The PEC will make an assessment of the potential risk and severity of the situation to decide whether the emergency event will or will not be readily controllable with existing portable fire extinguishers or site equipment and materials at hand. Fire fighting will not be done at the risk to site workers. Local fire departments will be contacted in all situations in which fires and/or explosions have occurred. The following steps will be taken for localized fire.

- contact local fire departments;
- move all personnel to an upwind location at an appropriately safe distance away;
- determine if fire is within on-site personnel capabilities to attempt initial fire fighting;
- if the fire is within on-site personnel capabilities, utilize most appropriate means of extinguishing fire (e.g., fire extinguishers, water, covering with soil, etc.); and
- once fire is extinguished, containerize and properly dispose of any spilled material, runoff, or soil.

If the situation appears uncontrollable and poses a direct threat to human life, fire departments will be contacted and the Evacuation Plan will be implemented. If the chances of an impending explosion are high, the entire area within a 1,000-foot radius of the fire source will be evacuated. The PEC will alert personnel when all

danger has passed, as determined by the chief fire fighter from the responding fire department. All equipment used in the emergency will be cleaned and refurbished as soon as possible after the emergency has passed so that it will be ready for use in the event of any future emergency.

1.3.2 Contingency Procedures for Spills or Material Releases

If a hazardous waste spill or material release or process upset resulting in probable vapor release is identified, the PEC will immediately assess the magnitude and potential seriousness of the spill or release based upon;

- MSDS for the material spilled or released;
- source of the release or spillage of hazardous material;
- an estimate of the quantity released and the rate at which it is being released;
- the direction in which the spill or air release is moving;
- personnel who may be or may have been in contact with material, or air release, and possible injury or sickness as a result;
- potential for fire and/or explosion resulting from the situation; and
- estimates of area under influence of release.

If the spill or release is determined to be within the on-site emergency response capabilities, the PEC will ensure implementation of the necessary remedial action. If the accident is beyond the capabilities of the operating crew, all personnel not involved with emergency response activity will be evacuated from the immediate area and the appropriate emergency response group(s) will be contacted.

1.3.3 Contingency Procedures for Severe Weather

When a tornado is sighted in the area, when a tornado warning has been issued, or when a lightning storm occurs, the information will be immediately relayed to the PEC. In the case of a tornado sighting, the PEC will then institute emergency shutdown procedures, and all personnel will be directed to proceed indoors after completing appropriate shutdown procedures. In the case of a tornado warning, or lightning storm, the PEC will have operations stopped and direct all personnel to stand by for emergency procedures. Other types of weather or weather inducted conditions (e.g., hurricane or flooding) for which long range prediction is available may also require positive action as identified herein.

When the severe weather has passed, the PEC will direct all contractor's to inspect on-site equipment to ensure its readiness for operation prior to restarting operations.

If an inspection indicates a fire, explosion, or release has occurred as the result of a severe weather condition, the procedures for those events will be followed.

1.3.4 Contingency Procedures for Physical Injury to Workers

Regardless of the nature and degree of the injury, the PEC will be apprised of all injuries requiring first aid of any kind. A report of the injury or incident will be completed as required by *IRM Health and Safety Plan.*

Upon notification that worker has been injured, the PEC will immediately determine the severity of the accident, and whether the victim can be safely moved from the incident site. Appropriate medical assistance will be summoned immediately.

Minor injuries sustained by workers will be treated on-site using materials from the first aid kits. Whenever possible, such treatment will be administered by trained personnel in a "clean zone". Examples of minor injuries include small scrapes and blisters. Minor injuries would not be expected to trigger implementation of the contingency plan.

Major injuries sustained by workers will require professional medical attention at a hospital. The PEC will immediately summon an ambulance and contact the hospital to which the injured worker will be transported. The PEC will notify NYSEG project manager as soon as practical. The hospital and ambulance should be advised of:

- the nature of the injury;
- whether the injured worker will be decontaminated prior to transport;
- when and where the injury was sustained; and
- the present condition of the injured work (e.g., conscious, breathing).

1.3.5 Contingency Procedures for Chemical Injury to Workers

Injuries involving hazardous chemicals or symptoms of severe chemical overexposure will automatically trigger implementation of the contingency plan. Upon notification that a chemical injury has been sustained or severe symptoms of chemical exposure are being experienced, the PEC will notify the hospital and ambulance of the occurrence. The PEC will provide, to the extent possible, the following information:

- the nature of the injury (e.g., eyes contaminated);
- the chemical(s) involved;
- the present condition of the injured worker (e.g., conscious, breathing);
- whether the injured worker will be decontaminate prior to transport; and
- when and where the injury was sustained.

Steps will immediately be taken to remove the victim from the incident site using whatever personal protective equipment (PPE) and safety equipment is necessary. Rescuers will check for vital signs and, if possible, remove contaminated outer clothing. If the victim's eyes have been contaminated, personnel trained in administering first aid will flush the victim's eyes with eyewash solution until the emergency response team arrives.

Details on the nature of the contaminant and methods for treating exposure or injury can be obtained from the MSDSs or Occupational Health Guidelines as provided in the *IRM Health and Safety Plan*.

2.0 EMERGENCY EVACUATION PROCEDURES

2.1 Site Evacuation Procedures

If an emergency occurs that requires the evacuation of an area to ensure personnel safety, including (but not limited to) fire, explosion, severe weather or hazardous waste/material spills, or a significant release of vapors into the atmosphere, an air horn will be sounded on the site by the nearest person aware of the event. The horn will sound continuously for approximately 15 seconds, signaling that immediate evacuation of all personnel from the area is necessary as a result of some existing or impending danger. In areas where only two or three people are working side by

side, and the need to evaluate can be communicated verbally, the air horn will not be necessary by the nearest person aware of the event.

All heavy equipment in the area will be shutdown. Under no circumstances will incoming visitors (other than emergency response personnel) be allowed to enter any area where an emergency is occurring. Visitors or observers and all non-essential personnel present in the area of an emergency will be instructed to evacuate the area immediately.

Contractor and subcontractor emergency coordinators and/or health and safety officers (as designated) will be responsible for ensuring that emergency response requirements specific to their own operations are carried out. These parties will report their activities to the PEC. The PEC, however, has final authority regarding all emergency response activities.

All non-essential personnel shall evacuate the emergency areas and notify personnel in adjacent areas to evacuate also. The evacuated workers will assemble at the primary assembly area at the site construction office trailer, where the PEC will give directions for implementing necessary actions. In the event that the primary assembly area is involved, unapproachable, or unsafe due to the event, evacuated workers shall assemble at the alternate assembly area at the intersection of state Road and High Street. The PEC will phone for backup assistance.

Personnel are to avoid encountering smoke/gas plumes as practicable during evacuation and assembling.

The PEC will take charge of all emergency response activities and dictate the procedures that will be followed until emergency personnel arrive. The PEC will assess the seriousness of the situation, and direct whatever efforts are necessary until the emergency response units arrive.

After initiating emergency response procedures, the PEC will assign appropriate personnel to check and attempt to ensure that access roads are not obstructed. If traffic control is necessary, as in the event of a fire or explosion, personnel who have been trained in these procedures and designated at the project safety meeting will take over these duties until emergency units arrive.

The PEC will remain at the site to provide any assistance requested by emergency-response squads as they arrive to deal with the situation. The PEC will have the authority to shut down any part or all of the project after an emergency until he deems it safe to continue operations. He will dictate any changes in project safety practices which are made necessary by the emergency that has occurred or are required for preventing further emergencies.

2.2 Off-Site Evacuation Procedures

If the PEC deems that humans outside of the site are at risk, he will notify the appropriate agencies and departments (e.g., NYSEG project manager, Lockport police department, New York State Department of Environmentai Conservation and New York State Department of Health, etc.) of the need or potential need to institute off-site evacuation procedures. The PEC will provide, at a minimum, the following information:

- his or her name and telephone number;
- name and address of facility;
- time and type of incident (e.g., release, fire, etc.)
- name and quantity of materials or materials involved, to the extent this information is known;
- the extent of injuries, if any; and
- the possible hazards to human health or environment, and cleanup procedures.

APPENDIX J

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
APPROVAL LETTER

New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Construction Services, 12th Floor
625 Broadway, Albany, New York 12233-7013
Phone: (518) 402-9814 • **FAX:** (518) 402-9819
Website: www.dec.state.ny.us

Erin M. Crotty
Commissioner

JUL 23 2002

FAX

Mr. Bert Finch
Project Manager
New York State Electric and Gas Corporation
Corporate Drive-Kirkwood Industrial Park
P.O. Box 5224
Binghamton, New York 13902-5224

Dear Mr. Finch:

Re: Lockport State Street Former MGP Site
Interim Remedial Measures - Work Plan

The New York State Department of Environmental Conservation has reviewed the revised Interim Remedial Measures Work Plan for Activities at the Lockport State Street MGP Site, Prospect Street Over Erie Canal Project, prepared by the New York State Electric and Gas Corporation (NYSEG), dated June 2002. The revised work plan adequately addresses the Departments comments and the work plan is approved.

When available, please provide the Department with a project schedule so we can arrange for field oversight.

The Department appreciates NYSEG's continuing effort to conduct a remedial program at the Lockport State Street Former MGP site. If you have any questions, please feel free to contact me at (518) 402-9813.

Sincerely,

David A. Crosby

David A. Crosby, P.E.
Senior Environmental Engineer
Central Field Services Section
Bureau of Construction Services
Division of Environmental Remediation

cc: J. Simone - NYSEG
T. Wheeler - NYSDOT-Buffalo Office
M. Forcucci - NYSDOH, Buffalo Office
M. VanValkenburg - NYSDOH, Troy Office