



Environment

Prepared for:
NYSEG
Binghamton, NY

Prepared by:
AECOM
Latham, NY
60137390-500

Remedial Investigation Report NYSEG Granville Former MGP Site NYSDEC Site No.: 5-58-021 Index #: DO – 0002-9309

July, 2011





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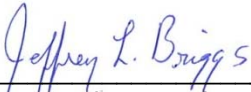
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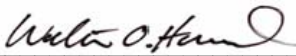
This Remedial Investigation Report was prepared by geologists, environmental scientists and engineers from AECOM Environment's Latham, New York, Ithaca, New York and Pittsburgh, Pennsylvania offices.

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List of Acronyms

AOC		Administrative Order on Consent
ARARs		Applicable or Relevant and Appropriate Requirements
bgs	.....	Below Ground Surface
BTEX	.....	Benzene, Ethyl benzene, Toluene, and Xylene
CAMP	.....	Community Air Monitoring Plan
cfs	.....	cubic feet per second
COC	.....	Constituents of Concern
DER	.....	Division of Environmental Remediation
DNAPL	.....	Dense Non-Aqueous Phase Liquid
DPW	.....	Department of Public Works
DUSR	.....	Data Usability Summary Report
ELAP	.....	Environmental Laboratory Approval Program
ERL	.....	Effect Range Low
ERM	.....	Effect Range Moderate
FSAP	.....	Field Sampling and Analytical Plan
FEMA	.....	Federal Emergency Management Agency
FOIL	.....	Freedom of Information Law
FS	.....	Feasibility Study
FWIA	.....	NYSDEC Fish and Wildlife Impact Analysis
GPS	.....	Global Positioning System
HASP	.....	Health and Safety Plan
HSA	.....	Hollow-stem Augers
I.D.	.....	Inner Diameter
IDW	.....	Investigation-derived Waste
IRM	.....	Interim Remedial Measure
LEL	.....	Lowest Effect Level
LNAPL	.....	Light Non-Aqueous Phase Liquid
MS	.....	Matrix Spike
MSD	.....	Matrix Spike Duplicate
mg/Kg	.....	Milligram/Kilogram
MGP	.....	Manufactured Gas Plant
MTBE	.....	Methyl tert-butyl ether
NAD83	.....	North American Datum of 1983
NAVD88	.....	North American Vertical Datum of 1988
NAPL	.....	Non-Aqueous Phase Liquid

NAVFAC	.....	Naval Facilities Design Manual
NAWQC	.....	National Ambient Water Quality Criteria
NCP	.....	National Contingency Plan
NTUs	.....	Nephelometric Turbidity Units
NYSASP 2005	.....	New York State Analytical Services Protocol – July
NYSCC	.....	New York State Canal Corporation
NYSDOH	.....	New York State Department of Health
NYSDEC Conservation	.....	New York State Department of Environmental
NYSEG	.....	New York State Electric and Gas Corporation
NYSWQS	.....	New York State Water Quality Standards
O.D.	.....	Outer Diameter
PAH	.....	Polycyclic Aromatic Hydrocarbon
PCB	.....	Polychlorinated Biphenyl
PID	.....	Photo-ionization Detector
PSE	.....	Preliminary Site Evaluation
ppb	.....	Parts per Billion
PPE	.....	Personal Protective Equipment
ppm	.....	Parts per Million
PVC	.....	Polyvinyl Chloride
QAPP	.....	Quality Assurance Project Plan
RI	.....	Remedial Investigation
RI/FS	.....	Remedial Investigation/Feasibility Study
ROW	.....	Right-of-Way
Sanborn	.....	Sanborn Fire Insurance Map
SCGs	.....	Standards, Criteria and Guidance
SCOs	.....	Soil Cleanup Objectives
SEL	.....	Severe Effect Level
SOPs	.....	Standard Operating Procedures
SSC	.....	Sediment Screening Criteria
SVI	.....	Soil Vapor Intrusion
SVOCs	.....	Semi-Volatile Organic Compounds
TAL	.....	Target Analyte List
TCL	.....	Target Compound List
TCLP	.....	Toxicity Characteristic Leaching Procedure
TOC	.....	Total Organic Carbon
ug/L	.....	Micrograms per Liter

U.S. EPA	United States Environmental Protection Agency
USCS	Unified Soil Classification System
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

Executive Summary

Introduction and Background

This Remedial Investigation (RI) Report has been prepared for New York State Electric and Gas Corporation (NYSEG) by AECOM Environment (AECOM) for the Granville Former Manufactured Gas Plant (MGP) Site. The Granville Former MGP Site (the Site) is located south of the NYSEG service center, at 69 North Street (Route 24), in the Village of Granville, New York. The location of the site is shown on Figure 1. This site was the former location of a MGP that was operated between 1898 and 1946.

The investigation of the property is being conducted pursuant to a Multi-site Order on Consent between NYSEG and the New York State Department of Environmental Conservation (NYSDEC), Index # D0-0002-9309, which was executed on March 25, 1994, and in accordance with applicable guidelines of the NYSDEC, the New York State Department of Health (NYSDOH), the United States Environmental Protection Agency (U.S. EPA) and the National Contingency Plan (NCP).

The fieldwork for the RI was performed using procedures described in the NYSDEC-approved document entitled "*Remedial Investigation Work Plan, Granville Former MGP Site, Granville, New York, NYSDEC Site No.:5-58-021*" (RI Work Plan), dated August 2008 [ENSR/AECOM, 2008a].

RI Overview

The RI was completed in three general phases of field work, between November 2008 and August 2010. The purpose of the RI was to complete the environmental characterization of the Site, collect the data necessary to determine the limits of MGP-related impacts in the environmental media, and to complete a human health exposure assessment and fish and wildlife impact analysis. The overall objective is to collect sufficient Site data to facilitate evaluation of remedial alternatives to address MGP-related impacts. RI field investigations included the collection and analysis samples of surface and subsurface soil, sediments in the Mettowee River, on-site soil vapor, and groundwater in three water-bearing zones.

RI results

The geology at the Site is comprised of unconsolidated deposits of glacial and post-glacial origin overlying Middle Ordovician-age slate bedrock of the Normanskill Group. The thickness of unconsolidated deposits at the Site was found during the RI to range from zero (0) to over 70 feet. Six unconsolidated stratigraphic units were identified at the Site, and are summarized in order of increasing depth as follows:

Fill: A layer of historic fill material comprised of re-worked native soil and traces of glass and brick fragments, ash, metal, concrete, slag and cinders (thickness of up to 12 feet).

Gravelly Sand: Derived from fluvial and alluvial processes associated with geologically recent deposition along the Mettowee River, this unit consists primarily of fine to coarse-grain sand with trace to little gravel (observed thickness range of 4 to 14 feet).

Gravel: Derived from glacial outwash deposition, this unit consists primarily of coarse to fine-grain gravel with some coarse to medium-grain sand (observed thickness range of 2 to 9 feet).

Silty Sand: Derived from glacial lacustrine deposition, this unit consists primarily of fine sand with some silt and little clay (observed thickness range up to 8 feet except north and east of Site where it is pinched out by shallow underlying bedrock).

Silty Clay: Derived from glacial lacustrine deposition, this unit consists primarily of firm moist to wet gray silty clay (observed thickness range up to 30 feet, except north and east of Site where it is pinched out by shallow underlying bedrock).

Sand and Gravel: Derived from glacial till deposition, this unit consists primarily of loose to compact fine sand with some coarse to medium sand and gravel and frequent red and dark gray slate fragments (observed thickness range of 4 to 12 feet). The sand and gravel directly overlies the slate bedrock.

The RI data indicates the silty sand and silty clay units, where present, serve as a confining layer to inhibit downward migration of the MGP residuals. Because this layer was found to be absent in a localized area on the north and east side of the Site, it is considered to function as a semi-confining unit to underlying water-bearing zones. Accordingly, the unit is referred to as a semi-confining layer in this report.

Two groundwater flow systems exist in the unconsolidated stratigraphic units above a fractured bedrock water-bearing zone. Unconfined (water table) groundwater conditions exist in the shallow overburden (outwash gravel) stratigraphic unit. There was hydraulic connection found between the water table and the Mettowee River in the study area, although the gradient was found to be predominantly positive (or non-existent) from surface water to groundwater, indicating that groundwater discharge to surface water is insignificant, if it occurs at all. A confined water-bearing zone exists in the deep overburden sand and gravel (glacial till unit). This zone is expected to be locally unconfined where the overlying semi-confining layer is absent. A glacial lacustrine silty sand and silty clay unit forms a semi-confining aquitard between the shallow and deep overburden water-bearing zones. Groundwater is also present in open fractures in the bedrock.

During the RI, residuals from former MGP operations were found in soil and bedrock in various forms, including hydrocarbon odor and sheens, non-aqueous phase liquid (NAPL) staining and blebs, and full NAPL saturation in some areas. The various forms observed during this RI are not specifically differentiated in this report, and are referred to hereinafter as either "coal tar" or "MGP-related" impacts. Coal tar impacts were found most widespread and significant at the base of the outwash gravel unit, on top of the silty sand/silty clay glacial lacustrine unit.

MGP impacts in the shallow overburden unit are most significant in the vicinity of the gas holder foundation and former MGP Site operations area, just north of the gas holder. In this area, many borings encountered zones (pockets, seams, lenses) of coal tar NAPL, and frequent evidence of NAPL saturation across thicknesses of 3 feet or more, generally within a depth range of 8 to 14 feet below ground surface (bgs). Coal tar impacts decrease rapidly in the shallow overburden moving directly north from the former MGP Site. The impacts in this area terminate where the bedrock surface becomes shallow and the silty sand/silty clay semi-confining layer beneath the impacted outwash gravel pinches out. This data indicates that the absence of the semi-confining layer in this area may provide a local pathway for coal tar impacts to seep downward to the underlying glacial till sand and gravel, and underlying bedrock.

The zone of coal tar impact in the shallow overburden unit extends laterally off-site in a northwestern direction, in an apparent contiguous zone. This zone is inferred to extend a distance of about 500 feet

northwest, beneath the bed of the Mettowie River, and then northward an additional 300 feet towards the NYSEG Operating Center (see Figure 13b). Throughout this area, the impacted zone is confined to the base of the outwash gravel unit. In general, the zone of impact continually thins from the Site source area to the downgradient terminus, where impact thickness was observed to be less than 1 foot. The depth of impact at the terminus was about 10 to 11 feet bgs. The depth to the top of the coal tar impact beneath the bed of the Mettowie River was at least 1 foot below the bed of the river, but was found at a depth of 3 feet or more in most of the river bed test borings. In general, the width of this coal tar impact zone varies from about 100 to 200 feet. The zone was found to extend a relatively short distance onto the Granville Little League property on the west side of the Mettowie River, at a depth interval of about 10 to 12 feet bgs.

Coal tar impacts were observed in the deep overburden at a few isolated test boring locations, primarily to the south of the gas holder foundation. The sporadic occurrences of impact in this deep zone indicates there could be a localized breach in the semi-confining layer somewhere near the gas holder foundation, and/or that the localized impacts in this unit may be from discharge from impacted bedrock fractures immediately upgradient of the borings.

Coal tar impacts were observed in the bedrock at borings located along an axis extending northward from the gas holder foundation. This axis extends southward generally parallel with the bedrock strike direction, from the area where the silty sand/silty clay semi-confining layer in the overburden pinches out on shallow bedrock. The data indicates that the coal tar has seeped downward to the bedrock in the area where the semi-confining layer is absent, and then has spread laterally along strike within the fracture to the north and south.

A deep bedrock well (MW-11B) drilled on the recreational path to the east of the Site identified some hydrocarbon sheen and odor in the bedrock core at a depth of 139 to 141.5 feet below grade, indicating that some migration of MGP residuals may occur down eastward dipping bedrock bedding plane fractures.

In general, MGP-related impacts to groundwater were observed in wells located within or immediately adjacent to areas of subsurface coal tar impacts. In these areas, total benzene, toluene, ethyl benzene and xylene (BTEX) and total polycyclic aromatic hydrocarbon (PAH) compounds were detected at concentrations appreciably above their respective groundwater standards and guidance values.

Wells located distances of less than 100 feet from the limit of coal tar impact zones, even in a downgradient direction, typically did not exhibit exceedances of groundwater standards and guidance values. Overall, the groundwater data indicates that the residual coal tar impact zones have not caused a significant impact to downgradient dissolved-phase groundwater quality. No significant MGP-related impacts were identified in the surface soil, surficial river sediment or soil vapor during the RI.

Human Health Exposure Assessment

The human health assessment was performed by identifying potential sources, migration routes for the constituents of concern (COCs), potential receptors and potential exposure pathways at and in the vicinity of the Site. The assessment was conducted following guidelines specified in the "NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation" [NYSDEC, 2010].

A Human Health Conceptual Site Model was prepared to outline contaminant sources, transport mechanisms, exposure routes and potential human receptors associated with the Site, and to identify the status of the human receptors (potentially complete, incomplete, and insignificant).

The sources of environmental impact for the investigation area are residuals associated with the former MGP-related structures. The nature and extent of coal tar impacts, as described in the RI results discussion above, was used as the basis to determine the potential for exposure by human receptors on the NYSEG property, Mettowee River, the recreational property to the west of the river, and the recreational path to the east of the Site.

Potential human receptors associated with the NYSEG property include outdoor maintenance workers, subsurface utility workers and occasional trespassers. Subsurface utility workers may potentially be exposed to COCs in surface and subsurface soil and groundwater via incidental ingestion, dermal contact, and inhalation of volatiles or particulates if deep subsurface excavation work is needed to install underground utility lines or equipment on the NYSEG property. Only properly trained and equipped field personnel should complete subsurface utility or repair work in these impacted areas using methods specified in a Site-specific health and safety plan (HASP) until the areas have been cleared of impacted materials.

Exposure pathways to Site-related impacts during recreational use of the Mettowee River, the recreational property west of the river, and the recreational path to the east of the Site were found to be incomplete. Based on this, the potential for exposure to maintenance workers, occasional trespassers, recreationalists and pedestrians in these areas, as well as anglers and recreational swimmers/waders using the river, is considered to be low.

Fish and wildlife impact analysis

In October, 2010, NYSDEC Division of Fish and Wildlife staff requested NYSEG to conduct a Fish and Wildlife Impact Analysis (FWIA) to evaluate the potential for ecological impacts from MGP-related impacts at the Site. Therefore, a FWIA was prepared for the Site according to NYSDEC guidance document *Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites* [NYSDEC, 1994]. Steps I through IIB of the NYSDEC Guidance were addressed in the FWIA. The FWIA conducted for the Site is included in Appendix G, and is summarized in Section 8.0.

Based on the results of the RI, the FWIA did not identify Site-related impacts to surface water and sediment in the Mettowee River that would pose an exposure risk to ecological receptors. Surface soil may present a potential risk of adverse effects to ecological receptors because 3 metals and 5 PAHs had surface soil concentrations high enough to exceed ecological risk-based screening criteria in at least one site sample location. Such a screening exceedance does not mean that an adverse effect will occur; only that a screening threshold has been exceeded.

Coal Tar Extraction

Automated coal tar recovery systems were installed and operated on wells MW-5B and MW-18S. A total of 54 gallons of coal tar was extracted from MW-5B, and 24 gallons was extracted from well MW-18S, before the recovery systems were shut down in December 2009. Based on Site subsurface conditions as described above and in this report, it is AECOM's opinion that coal tar extraction from bedrock wells at the Site has potential to increase downward migration of coal tar from the shallow overburden to bedrock, and therefore, is not advisable until remedial action alternatives to address coal tar impacts in the shallow overburden are determined. In addition, because of the apparent relatively widespread contiguous zone of coal tar impact residing at the base of the gravel outwash unit, AECOM believes that operation of the recovery system on well MW-18S will yield no appreciable

reduction in the mass of coal tar present in this zone. Furthermore, the results of the RI did not identify significant impacts to surface sediment in the Mettowie River, and surface water and groundwater elevation monitoring indicate there is not significant potential for coal tar impacts in the shallow overburden zone to be discharged to the river. Accordingly, it is AECOM's opinion that extraction of coal tar from MW-18S is not warranted until remedial action alternatives to address coal tar impacts in the shallow overburden are determined.

Conclusion and Recommendations

With the observations and data presented in this report, NYSEG has performed an evaluation of conditions on the site, and thereby adequately fulfilled the requirements for a Remedial Investigation as outlined in the Order on Consent, and the NYSDEC Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10). A Feasibility Study (FS) will be prepared to identify and evaluate potential remedial alternatives to address the MGP-impacted media identified at the site.

1.0 Introduction

This Remedial Investigation (RI) Report has been prepared for New York State Electric and Gas Corporation (NYSEG) by AECOM Environment (AECOM) for the Granville Former Manufactured Gas Plant (MGP) Site. The Granville Former MGP Site (the Site) is located south of the NYSEG service center, at 69 North Street (Route 24), in the Village of Granville, New York. The location of the site is shown on Figure 1. An MGP operated at the Site between 1898 and 1946.

The fieldwork for the RI was performed using procedures described in the NYSDEC-approved document entitled “*Remedial Investigation Work Plan, Granville Former MGP Site, Granville, New York, NYSDEC Site No.:5-58-021*” (RI Work Plan), dated August 2008 [ENSR/AECOM, 2008a]. Four companion documents were prepared to detail additional procedures and protocols for the RI. A Field Sampling and Analytical Plan (FSAP) [AECOM, 2008b] described the procedures used for the RI fieldwork. A *Quality Assurance Project Plan (QAPP)* [ENSR/AECOM, 2008c] specified the field and laboratory quality assurance/quality control procedures. A *Community Air Monitoring Plan (CAMP)* [ENSR/AECOM, 2008d] provided procedures to be used for the monitoring of airborne constituents during the invasive sampling tasks conducted during the investigation. A Health and Safety Plan (HASP) [ENSR/AECOM, 2008e] provided the health and safety procedures required to minimize potential risk to AECOM and contractor personnel involved with implementing the RI fieldwork. A complete copy of the RI Work Plan is included in Appendix A.

1.1 Purpose of report

The objectives of the RI included the following:

- To collect additional data to more completely determine the subsurface characteristics of the Site;
- To more completely determine the nature and extent of subsurface MGP-related residuals that are present at the Site and surrounding areas;
- To further define the potential routes of off-site migration from on-site sources of MGP-related residuals;
- To perform an exposure assessment to evaluate the pathways by which human and ecological receptors (either on-site or off-site) may be exposed to MGP-related residuals; and
- To obtain sufficient data to facilitate the evaluation of remedial alternatives to address MGP-residuals at the Site.

1.2 Scope of work

The scope of work for the RI included the following:

- Subsurface utility clearance;
- Test pitting, subsurface soil boring installation, and subsurface soil sampling;
- CAMP monitoring

- Soil vapor sampling;
- Surface soil sampling;
- Monitoring well installation and development;
- Sediment sampling;
- Groundwater sampling;
- NAPL gauging and extraction;
- Site surveying; and
- Management of investigation-derived wastes.

1.3 Report organization

This report is organized into nine sections following this introduction, as follows:

- **Section 2** describes the Site, previous investigations, and remedial work performed.
- **Section 3** describes the RI field investigation activities performed at the Site.
- **Section 4** summarizes information regarding the Site's topography, geology and hydrogeology, and the observed extent of MGP-related residuals.
- **Section 5** summarizes the field investigation results.
- **Section 6** summarizes the results of the laboratory analyses for environmental media sampled during the investigation.
- **Section 7** presents a qualitative human health exposure assessment for the Site.
- **Section 8** summarizes the Fish and Wildlife Impact Analysis for the Site (included in Appendix G).
- **Section 9** provides a summary and conclusions for the RI.
- **Section 10** provides recommendations for further work at the Site
- **Section 11** provides a list of resources used in developing this RI.

Tables, figures, and appendices are presented immediately following the report text.

Appendices to the report include the following:

- **Appendix A** – Final RI Work Plan including reports discussing the previous investigation and remedial work performed at the Site (CD-ROM disk).
- **Appendix B** – Test pit, soil boring and well construction logs for the RI and the previous investigations performed at the Site.
- **Appendix C** – Seismic Refraction Survey Report, Hager-Richter Geoscience, Inc., June 2010.
- **Appendix D** – Geotechnical Soil Laboratory Testing Report.

- **Appendix E** – The chain-of-custody records for the samples analyzed during the RI and a Data Usability Summary Report (DUSR), including the laboratory Form I report sheets (CD-ROM disk).
- **Appendix F** – The full NYSDEC Analytical Services Protocol (ASP) Category B deliverable data package (CD-ROM disk).
- **Appendix G** – Fish and Wildlife Impact Analysis

2.0 Site Description and History

This section presents a description of the Site, information regarding Site ownership and operational history, and the results of the previous investigation and remedial work performed.

2.1 Site description

The Site is located to the west of North Street (County Road 24) in the Village of Granville, Washington County, New York (Figure 1). The Site is located approximately 0.25 miles to the north of the central business district of the Village and the intersection of North Street and West Main Street (NYS Route 149). The Site location and the surrounding features are shown on an aerial photograph on Figure 2. The Site boundary shown on Figure 2 depicts the approximate aerial limits of the operations area of the former MGP, based on information obtained from historical documents. Figure 2 also shows approximate property boundary lines for land parcels in the vicinity of the Site. This information was copied from geographical information system (GIS) files obtained from the Washington County Office of Real Property Tax Services.

Figure 2 shows that the Site is located at the southern end of the largest and northernmost of five adjoining NYSEG parcels. NYSEG's current Granville Operating Center is also located on the northern side of this parcel. As shown on Figure 2, the Site extends to the south onto two of the smaller adjoining NYSEG parcels.

An open (mowed) lot abuts the south side of the paved operations center. A six to eight foot high man-made earthen berm extends south along the west side of the Operating Center, and then extends southeastward along the south end of the open lot to the eastern property line (see Figure 3). NYSEG constructed this berm as a flood-control measure. A crushed stone driveway extends from north to south along the eastern property line from the Operating Center to the MGP site. The driveway forms a circle around the foundation of the former MGP gas holder. The gas holder foundation is shown in Figures 2 and 3. The rest of the NYSEG parcels are characterized as a mixture of forest and scrub/brush land, except where vegetation was cleared for equipment access to conduct the RI. Locations of historical features of the former MGP site, obtained from historical documents, are shown on Figure 3. The foundations of many of these features remain present, however the above-ground structures are removed. These historical features are discussed in more detail in Section 2.2.

2.1.1 Adjacent properties

The Site is abutted to the east by the former Delaware and Hudson railroad right-of-way. This property is owned by New York State Office of Parks and Recreation (NYSOPR) (Figure 2). The rail tracks have been removed and the right-of-way has been redeveloped as a recreational path for biking and walking. To the east of the recreational path are residential properties with frontage along North Street. The nearest residence to the former MGP process area is approximately 500 feet to the east of the Site. The residential area in the vicinity of the site obtains its water from a public water supply. The Village of Granville well field is located approximately $\frac{3}{4}$ of a mile to the southeast of the site. Based on data recorded at the Site to date, groundwater at the Site flows from the southeast towards the west or northwest, indicating that the well field is located hydraulically upgradient from the site. Surface water flow in the Mettowee River is from the southeast to the northwest, and therefore the well field is upstream from the site. Based on the distance of the well field from the site, and on its upgradient location, it is unlikely that MGP impacts at the Site represent a concern for the Village well field.

The head of the Mettowee River is located in Vermont, about 12 miles southeast of the Site. The river flows into the Champlain Canal about 11 miles northwest of the Site. In Granville, the river is classified as a Class C stream by NYSDEC.

Figure 2 shows that property parcels west of the Mettowee River from the Site are owned by or deeded to the American Legion and the Granville Little League. These parcels are used as recreational fields. Based on information provided by the Village of Granville Department of Public Works (DPW), there are no irrigation wells in this area.

During the RI, investigation work was conducted on the NYSEG parcels, the NYSOPR parcel, the American Legion and Little League parcels west of the river, and within the Mettowee River.

2.2 Site history

A review of the historical information available for the site has been performed with the results summarized in a report prepared by Blasland, Bouck & Lee, Inc. Engineers & Scientists (BBL) entitled "*Site Characterization Summary and Data Transmittal for the Granville Site*", dated February 2003 [BBL, 2003].

The report included a review of the historic Sanborn Fire Insurance maps for the Village of Granville and other facility maps obtained from the Village of Granville historian and NYSEG. These Sanborn maps and facility figures were included as Appendix A of the RI Workplan.

The MGP was constructed in 1898 and operated until 1946. During this period, gas was manufactured using a carbureted water gas process by the Granville Electric and Gas Company until 1925, and then by the Eastern New York Electric and Gas Company, Inc. until 1928, and finally by the New York State Electric and Gas Corporation until 1946. From 1946 to 1958 a propane distribution company (Fuel Gas Company) distributed propane from the site. The location of the former propane above ground tanks (ASTs) for the Fuel Gas Company is shown on Figure 3.

The historical research identified various former site features which could have been potential source areas for MGP residuals; as such, those areas have been targeted for additional investigation. The key features of the MGP are shown on Figure 3 and summarized as follows:

- The MGP Process Building was located in the central area of the site. As shown on Figure 3, water gas retorts, a purifier room, and boilers were present within the footprint of the building.
- A 55-foot diameter Gas Holder was present in the northwestern portion of the MGP process area. The foundation for the Gas Holder is still present at the site at the location shown on Figure 3.
- A Work Shop was located to the southwest of the process area.
- Three circular oil tanks were located to the northwest of the MGP Building.
- A rectangular Fuel Oil AST was located to the north of the MGP Building.
- A Generator Room was located in the northwest area of the MGP Building.
- Coal bins are still present at the site and are located along the former rail grade to the east of the MGP process area.

- A rectangular feature (Feature A) is shown on the historic fire insurance maps to the north of the MGP Building. The feature is not labeled on the historic fire insurance or facility maps and its purpose is unknown.
- A circular feature (Feature B) is shown on the historic fire insurance maps to the south of the MGP process area. The feature is not labeled on the historic fire insurance or facility maps and its purpose is unknown.
- A rectangular feature (Feature C) is shown on the historic fire insurance maps to the southeast of the MGP process area. The feature is not labeled on the historic fire insurance or facility maps and its purpose is unknown.
- A Regulator Room is shown on the historic fire insurance maps to the south of the MGP process area. This appears to be the southern-most MGP-related feature shown at the site.

2.3 Previous investigation and remedial work

The previous investigation work performed at the site is summarized as follows:

- In 1992, Engineering Science (ES) performed an assessment of site conditions that included historical research, a site reconnaissance, and surface soil, surface water, and sediment sampling and analysis. The results of the assessment were presented in the document entitled "*Prioritization of Former Manufactured Gas Plant Site – Granville Site*", dated January 1992 [ES, 1992]. The report is included in Appendix A.
- In 1993 BBL performed an investigation that included the excavation of test pits, the advancement of soil borings, the installation of monitoring wells, the probing of sediments in the river, and the collection of sediment samples. The results of the investigation were presented in the document entitled "*Task II Remedial Investigation Report, Former Granville Manufacturing Gas Plant Site*," dated December 1993, [BBL, 1993]. The report is included in Appendix A. The test pit logs, borelogs, and well construction logs for the previous investigation work performed by BBL are also included in Appendix B.
- In 2003, NYSEG directed BBL to summarize the investigations performed in 1992 and 1993 into a single document. A report was prepared by BBL entitled "*Site Characterization Summary and Data Transmittal for the Granville Site*", dated February 2003 [BBL, 2003]. The report is included in Appendix A.
- Information provided in these previous reports was summarized in a series of figures and data summary tables that were included in the RI Work Plan (Appendix A).

3.0 Investigation Activities

This section provides a description of the activities performed during the RI, and the methods used for conducting the fieldwork. Unless otherwise noted in the following sections, the procedures used were consistent with the methods and procedures described in the NYSDEC-approved RI Work Plan, FSAP, QAPP, and CAMP (Appendix A). Each field activity performed during the investigation, grouped by field task or environmental media, is described in the following sections. The RI sample locations, and the locations of the samples collected during the previous investigations, are shown on Figures 4a through 4d.

3.1 Subsurface utility location

Prior to the start of any ground intrusive fieldwork, clearance of underground utilities was performed. Dig Safely New York was contacted to locate and mark all underground utilities in the vicinity of the proposed sample locations. Subsurface utilities were not present in the investigation area.

3.2 Test pit excavations

Although test pits have been excavated during the previous investigation performed at the site, additional sampling was needed in and around several former MGP features. These features include the former Gas Holder foundation and several features to the south of the former MGP process area that were not previously investigated (the Regulator Room, and Features A, B and C [Figure 3]). RI test pit locations are shown on Figure 4a. Additional information regarding the test pit excavations is presented in Table 1 including: the test pit designations, the sampling rationale and location, the test pit excavation depth, and the number and type of laboratory samples collected. The test pits were excavated with a backhoe or excavator using methods presented in the FSAP.

3.3 Surface soil sampling

During a previous investigation of the site in 1992 (BBL, 1993), five surface soil samples (SF-1 through SF-5) were collected from locations on the former MGP Site (locations shown on Figure 4c). The report for that sampling (included in Appendix A) indicated detection of slightly elevated PAH concentrations in these samples. As part of the RI, additional data was needed in order to assess the potential for direct exposure of on-site and off-site workers, ecological receptors or the public to site-related residuals. Twelve additional surface soil samples were collected during the RI at the locations shown on Figures 4c and 4d, and are summarized as follows:

On-Site Samples:

- Samples SF-06 and SF-07 were collected along the recreational path where it bounds the eastern side of the site;
- Sample SF-08 was collected near the coal bins; and,
- Sample TP-20 was collected from a test pit at the southern end of the site, from beneath a pile of wood chips.

Off-Site/Background Samples:

- Samples SF-09, SF-10 and SF-11 were collected near the pavilions on the parcels west of the river; and,
- Samples SS-12 through SS-16 were collected at locations to assess background conditions along the recreation path north and south of the Site.

Sample TP-20 was collected at a depth of 1.0 to 1.5 feet below grade and the other eleven samples were collected at a depth of between 0 and 2 inches after the vegetative or gravel layer had been removed. Each of the surface soil samples was analyzed for the full Target Compound List (TCL) VOCs, SVOCs, Target Analyte List (TAL) metals, and total cyanide. Additional information regarding the soil sampling methods and laboratory analyses is presented in the FSAP and QAPP.

3.4 Subsurface soil borings and well installation

Subsurface soil borings were advanced in order to:

- Obtain additional information regarding the thickness and composition of fill beneath the site;
- Characterize geologic units;
- Determine the depth to the water table;
- Observe and screen subsurface soil and bedrock in order to identify conditions that may be indicative of MGP impacts ;
- Obtain samples for testing of geotechnical parameters;
- Obtain additional information to map the surface of the bedrock unit; and,
- Install additional groundwater monitoring wells.

Locations of the soil borings and monitoring wells are shown on Figure 4b, and for several of the borings and wells, the locations are shown on the cross-sections (Figures 7a to 7h). Table 1 provides additional information regarding the location, rationale, sampling depth and the number and types of samples collected. Table 2 provides a summary of monitoring well construction details. Table 3 provides a summary of the depths of stratigraphic contacts penetrated at each borehole. Table 5 is a summary of visual observations of coal tar impacts in the test borings. As shown in the cross sectional views, borings were advanced to variable depths and spread out over the site and surrounding area in order to delineate the vertical and horizontal extent of MGP residuals observed onsite.

The subsurface soil borings were advanced by a conventional hollow-stem auger (HSA) drill rig equipped with split-spoon samplers or macrocore sampler. Continuous soil samples were typically taken from the ground surface to the bottom of the borehole for both field characterization (photoionization detector [PID] screening and observations) and for the collection of samples for chemical analysis.

Standard penetration tests (SPT) were conducted in select borings for use in estimating in-situ density and strength of the site soils. A number of the SPT tests were conducted using a 3" diameter split spoon, requiring the blow counts to be corrected using the Lacroix and Horn correction factor. Soil samples were also collected from each soil type to aid in soil classification through moisture content (ASTM D2216), gradation testing (ASTM D442), and index property testing (ASTM D4318). Several Shelby tube samples were collected (ASTM D4220) for use in Unconsolidated-undrained (UU) triaxial testing (ASTM D2850) to determine strength of the fine grained silt and clay soils at the site. Soil grain

size and strength testing were performed to obtain data for estimating design parameters to be used during the development and evaluation of remediation alternatives.

The soil samples obtained were logged by an AECOM geologist recording such data as the presence of fill material or subsurface structures, the nature of each geologic unit encountered, observations regarding moisture content, the results of PID readings, and visual and olfactory observations regarding the presence of hydrocarbons.

A maximum of two soil samples were collected from each soil boring for laboratory analysis. If impacts were encountered, a sample was collected from the most impacted intervals based on field screening and observations, unless coal tar was present. A second sample was then collected from the first clean interval below the impacts to confirm non-impacted conditions. If impacts were not encountered, a sample was collected from the interval where impacts typically present. Additional samples were taken from the different stratigraphic units to characterize them.

Samples of grossly impacted soil containing visible coal tar were not sampled for analysis.

The “MGP source” materials are assumed to be impacted to the extent that management is required by NYSDEC. Information regarding the vertical extent of this material was recorded by the onsite geologist and the areal extent of this material was surveyed during the survey task.

Overburden monitoring wells were installed in 34 of the RI soil borings. The monitoring well locations, shown on Figure 4b, were selected in order to have a sufficient number of wells to evaluate the groundwater in areas that are considered up gradient, side gradient and down gradient of the site. Generally, the groundwater monitoring wells were screened in areas that either straddled the most impacted interval based on field screening, or the water table. The wells were constructed using 2-inch diameter schedule 40 PVC well with a 0.02-inch slotted screen. Wells installed in impacted areas also contain a 1 to 2-foot long sump for monitoring the presence of any dense non-aqueous phase liquid (DNAPL). Additional details for monitoring well installation are provided in the FSAP and construction details are provided in the bore logs, and Table 2.

3.4.1 River test borings

Subsurface soil samples were also collected from beneath the bed of the Mettowie River to characterize the extent of impacted soil beneath the river. River test borings numbered RTB-1 through RTB-19 (RTB-7 was not drilled) were drilled in October 2009, in accordance with a supplemental investigation work plan that was approved by NYSDEC. The RTB borings were completed by lowering a platform mounted, rotary skid drilling rig onto the boring location with an over head crane. The borings were advanced by driving a 3 inch split-spoon to the desired depth, and advancing the borehole with 4-inch flush joint drill casing. Additional information regarding the location, rationale, sampling depth and the number and types of samples collected in the river test borings is included in Table 1. Logs for the RTB borings are included in Appendix B. The soil samples obtained were logged by an AECOM geologist, recording such data as the nature of each geologic unit encountered, observations regarding moisture content, the results of PID readings, and visual and olfactory observations regarding the presence of hydrocarbons. The river borings were drilled using a step out method moving down gradient away from the site until there were no visual signs of impacts. Samples were collected to confirm “non-impacted” areas.

3.5 Bedrock borings and well installation

To assess the presence or absence of DNAPL in the bedrock unit, bedrock coring was performed at 22 locations. Bedrock monitoring wells were installed at 18 of these locations (Table 3).

Similar to the overburden borings, soil overlaying the bedrock at each location was sampled with a macrocore or 3 inch split-spoon sampler down to the surface of the bedrock unit. The bedrock surface was confirmed by sampler refusal, visual inspection of the sample and auger resistance. The augers were used to advance the borehole up to 2 feet into the bedrock to form a bedrock "rock socket".

For the borings that were not completed as a monitoring well, bedrock coring was performed through 4 inch flush joint casing to ensure that DNAPL did not migrate downward into the borehole as the coring was performed.

For the bedrock monitoring wells, a permanent 4 inch casing was installed through 6 ¼ inch ID augers to case off overburden soil and groundwater and to prevent potential migration of DNAPL into the bedrock wells from the overburden soils.

The isolation casing was placed inside the augers to the final depth of the borehole and the augers were withdrawn as the casing was grouted in place with a cement/bentonite grout. The grout mix consisted of Type II Portland cement and 5% bentonite. Water was added to the grout in a grout mixing tub and pumped into the borehole via a tremie pipe. The grout surrounding the isolation casing was left to cure for a minimum of 24 hours prior to coring.

After the curing process was complete, a 10 foot long, 2 7/8-inch outer diameter NX rock core barrel equipped with a diamond cutting bit was used to core and sample the bedrock. The bedrock was sampled in 10 foot intervals or until the core barrel got blocked, resulting in a shorter sample length. After each run was completed, the core was extracted from the borehole via a wire line tool and placed into a wooden core storage box. The field geologist then logged the core for: 1) length of rock recovered, 2) percent of the run recovered, 3) rock quality designation (RQD), 4) rock type, 5) evidence of weathering; 6) presence and orientation of fractures and voids, and, 6) observed visible or olfactory evidence of MGP residuals.

After the borehole was sampled to the desired depth, the bedrock was reamed with a 4 ¼ inch OD roller bit, and a standard PVC monitoring well was constructed in the borehole. A 2-inch diameter, 0.020-inch slotted screen was used for this application. Screen lengths were typically 10-foot long unless field conditions dictated otherwise. A DNAPL sump was added to the bottom of the well screen. Similar to the overburden wells, the borehole annulus surrounding the sump was filled with bentonite chips to ensure that DNAPL, if present, was collected in the sump. Additional information regarding the installation of the bedrock wells is provided in the FSAP and construction details are provided in the bore logs.

3.6 Geophysical Survey

A seismic refraction survey was conducted during the RI to better define the elevation of the bedrock surface. This survey was conducted to gather additional depth-to-bedrock information between soil boring locations. The primary goal of this survey was to attempt to identify areas where the bedrock surface may be at a relatively shallow depth, such that a migration pathway may exist for MGP-related impacts in the overburden to contact the bedrock surface. A second goal of the survey was to estimate bedrock depths in locations where deep overburden borings were planned along the western

and northern side of the RI study area. The seismic survey was performed by Hager-Richter Geoscience in May, 2010.

3.7 Pipe sampling

As shown on Figure 3, vertical pipes have been observed to be present in several areas of the Site. The pipes were probed by mechanical methods to assess whether they contain MGP-related residuals. Tools such as split-spoon or Macro core samples, rods or a sewer snake was used to probe the ends of the pipe. Observations regarding the pipe depths and the presence or absence of materials in the pipes were recorded and photographs of the pipes were taken. The pipe sampling did not reveal any evidence of significant coal tar, and therefore with the NYSDEC's approval samples of material in the pipes were not collected for laboratory analysis.

3.8 Well development

Each of the RI monitoring wells were developed in order to remove fine-grained sediment and fluid residue from the well and the sand pack and to create maximum well efficiency. Each of the new monitoring wells were developed no sooner than 24-hours after installation. Well development methods are presented in the FSAP

3.9 Groundwater monitoring

The groundwater monitoring activities consisted of: the collection of depth-to-water measurements to map the flow direction for groundwater in the investigation area; gauging the wells for the presence of coal tar; and the collection of groundwater samples for laboratory analyses.

3.9.1 Depth-to-water measurements

Depth-to-water measurements were collected on four separate occasions throughout the RI field activities.

An electronic interface probe was utilized to measure the depth-to-water and to gauge the thickness of any product that was present in the well. Table 4 presents the depth-to-water measurements collected during the RI along with the water table elevation and the measurements of any recordable NAPL gauged in the well.

3.9.2 Groundwater sampling

The RI groundwater sampling was performed in October 2009 and July 2010, after the new monitoring wells were installed, developed, and left to stabilize for a period of approximately 2 weeks. Groundwater samples were collected in accordance with the QAPP and FSAP.

3.10 Surface water elevation monitoring

Three surface water elevation reference points (SWRP1, SWRP2, and SWRP3) with surveyed elevations above NAVD88 were established along the Mettowie River adjacent to the site. The depth-to-surface water measurements obtained at these locations were used to determine the surface water elevation at the same time as the groundwater elevation measurements were taken at the site. The surface water elevation data was included on the groundwater flow direction maps that have been prepared for this report to evaluate hydraulic connection and relative gradient between groundwater and surface water.

3.11 Sediment investigation

The field activities for the investigation of sediment quality in the Mettowie River included systematic hand probing of sediments and the collection of surface sediment samples. Three general areas of the river were investigated. One area is upstream of the site in the Village of Granville (Background Area); the second area is adjacent to the site (Site Area); and the third area was the first significant pool located downstream of the Site where appreciable sediment deposition would be expected to occur (Downstream Area). The sample points in the Site Area adjacent to the site are shown on Figure 4c. The sediment sample points located in the Background Area and in the Downstream Area are shown on Figure 4d.

3.11.1 Manual sediment probing

Systematic sediment probing was performed in the fall of 2008 to determine whether visible evidence of MGP-related residuals is present in the sediments in the river upstream of, adjacent to, and downstream of the site. Transect locations were marked out approximately 25 feet apart along the shoreline at the locations shown on Figure 4c. A series of probe points were established out into the creek using a rope with measured increments. Sediments at each probe point was probed (agitated) by hand using a threaded steel bar and/or bucket auger (where possible) to observe the sediment physical characteristics, and to look for the presence of coal tar. The bar or bucket auger was advanced by hand as deep as possible at each probe point, with a target depth of 2-3 feet below the sediment surface. Some of probes were observed to exhibit hydrocarbon sheen and odor upon extraction from the river bed. These preliminary testing results were used to verify that some coal tar impacts were likely present in subsurface soil beneath the river bed, and to aid in planning the river test boring program completed in October 2009.

3.11.2 Surface sediment sampling

Surface sediment samples were collected in the three areas of the river. Background samples were collected at locations upstream of the site. The locations of the background samples were determined in the field in consultation with the NYSDEC.

Surface samples were also collected to determine the extent of MGP-related COC in areas considered adjacent to, and downstream of the site. The locations of sediment samples are shown on Figures 4c and 4d. The locations of the surface sediment samples were determined in consultation with the NYSDEC following completion of the probing task.

Surface sediment samples were collected from a depth of 0 to 6 inches below sediment surface with a trowel or shovel. Table 1 lists the samples obtained and the laboratory analyses performed.

3.12 Soil Vapor Intrusion (SVI) sampling

Five soil vapor samples were collected during the RI. Information regarding the sampling is summarized in Table 1. The samples (SV1 to SV5) were collected from locations along the eastern boundary of the site (Figure 4c). The methods used to collect the samples were consistent with the methods presented in the documents entitled "*Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, New York State Department of Health*", dated October 2006 [NYSDOH, 2006], and the U.S. EPA document entitled "*Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils, Office of Solid Waste and Emergency Response*" [U.S. EPA, 2002].

The soil vapor samples were collected from the vadose zone, at least 2 feet above the saturated zone. The final sampling depths were determined following the gauging of the monitoring wells which determined the depth to water at the site. Soil vapor samples were collected with direct-push drilling tools Geoprobe™ PRT (Post-Run Tubing) Systems sampler. Helium tracer testing was also performed at each sample location. The purpose of the helium was to act as a highly mobile tracer gas that would indicate the extent of any leakage through the seal (i.e., the amount of ambient air being drawn from the surface to the subsurface during soil vapor sampling). The soil vapor sample was collected as an integrated (not grab) sample. A laboratory-provided flow controller fixed to a negative pressure vessel (typically, a 6-liter Summa™ canister) was used to collect the integrated sample. Additional information regarding the methods used for the soil vapor sampling is presented in the FSAP.

3.13 Site survey

A survey of the investigation sampling points and important site features was conducted at the end of each phase of the fieldwork by an AECOM survey crew. All horizontal locations were reported in the applicable (NAD83 NYS Zone) coordinates. All vertical measurements were recorded in NAVD88.

3.14 Investigation-derived waste management

Several types of investigation-derived waste (IDW) were generated during the RI activities including:

- Decontamination wash-water from the down hole drilling tools;
- Soil cuttings from the borehole drilling;
- Well development water;
- Groundwater sampling purge water;
- Coal tar from impacted drill cuttings and purging and extraction testing of monitoring wells;
- Personal Protective Equipment (PPE); and,
- Miscellaneous sampling equipment and plastic sheeting.

All IDW generated during these tasks was staged and managed at the Site for offsite disposal in accordance with the approved methods for the remediation activities.

4.0 Site Physical Characteristics

This section describes the regional geologic setting of the Granville area, and presents a summary of the field measurements and observations of the physical environment of the investigation area. Included is a discussion of the topography, geology, and hydrology of the Site.

4.1 Site topography and drainage

The ground surface in the area of the former MGP operations is approximately 388 feet NAVD88. From this area the ground surface slopes to the west towards the Mettowee River (approximately 382 feet NAVD88). The Mettowee River flows from the south to the north along the western boundary of the former MGP process area, and then to the northwest further downstream from the site. The river is classified as a NYSDEC Class C surface water body. The designated uses for a Class C water body include activities such as fishing, fish propagation, and primary and secondary recreation.

4.2 Regional geology

Eastern Washington County lies within the Taconic Uplands physiographic province. The province is characterized by the hilly relief exaggerated by the tightly folded and fractured bedrock. The bedrock in the area is a series of metamorphic slates with interbedded shale and limestone units and minor amounts of quartzite and phyllite. The bedrock in the Granville area consists of Cambrian to Middle Ordovician age slate overlain by glacial and alluvial deposits. Glacial deposits in this area generally consist of till overlain by glacial lacustrine and outwash deposits.

4.3 Site geology

The geology at the Site is comprised of unconsolidated deposits of glacial and post-glacial origin overlying Middle Ordovician-age slate bedrock of the Normanskill Group. The thickness of unconsolidated deposits at the Site was found during the RI to range from zero (0) feet (i.e., a bedrock outcrop is exposed along the eastern side of the Site, north of the former MGP) to over 70 feet thick to the north of the Site at the Mettowee River. A top of bedrock contour map is provided in Figure 5a. A copy of the Seismic Refraction Survey report, prepared by Hager-Richter Geoscience, is included in Appendix C.

As shown on the cross-sectional views of the site (Figures 7a to 7h) and summarized in Table 3, six subsurface units that overlay the bedrock were identified during the investigation including:

- **Fill** – Historic fill material was observed to be present in the former MGP process area. The fill was thickest (11-12 feet) in the area of the former Gas Holder and the Recreational Path (Figure 7d).
- **Gravelly Sand** – Beneath the fill is a sand and gravel unit that ranges in thickness from 4 to 14 feet.
- **Gravel** – Beneath the gravelly sand is a gravel unit that ranges in thickness from 2 to 9 feet.
- **Silty Sand** – Beneath the gravel is a silty sand unit that where present ranges in thickness from 2 to 8 feet.

- **Silty Clay** – Beneath the silty sand is a silty clay unit which ranges in thickness from 4 to 30 feet thick.
- **Sand and Gravel** – Beneath the silty clay unit is a sand and gravel unit that ranges in thickness from 4 to 12 feet.
- **Bedrock** – Beneath the lower sand unit is a slate bedrock unit.

The stream bottom of the Mettowee River consists mostly of gravel, cobbles and boulders; little soft sediment has been observed to be present in the reach of the river adjacent to the site.

4.3.1 Fill

The fill material in the vicinity of the Site is comprised of re-worked brown fine to medium sand, little gravel, and trace glass and brick fragments, ash, metal, concrete, slag and cinders. As shown on the cross-sectional views of the Site, fill is present in all areas of the former MGP property. Where present fill thicknesses generally ranging from 2 to 4 feet. Fill material was observed in thicknesses of 11 feet in borings advanced in close proximity to the former Gas Holder.

4.3.2 Gravelly Sand

The gravelly sand unit is derived from fluvial and alluvial processes associated with geologically recent deposition along the Mettowee River. This unit consists primarily of brown fine to coarse sand with trace to little gravel and the moisture content of the unit ranges from dry to wet.

4.3.3 Gravel

The gravel unit is differentiated from the overlying gravelly sand by both grain size and depositional environment. This unit is derived from glacial outwash deposition as opposed to the recent fluvial and alluvial deposits. The unit consists primarily of brown coarse to fine grain gravel with some coarse to medium grain sand; the moisture content ranges from moist to wet. This is the primary water bearing unit of the shallow unconfined water-bearing zone and was observed to range in thickness from 2 to 9 feet.

4.3.4 Silty Sand

The silty sand unit is derived from glacial lacustrine deposition. Where present the unit consists primarily of brown to gray fine sand with some silt and little clay; the moisture content is wet. The occurrence of this unit is fairly widespread across the Site, although was absent in some test borings. Where present, the unit was observed to range from 2 to 8 feet thick. In nearly all locations where MGP coal tar was observed, the product was perched in the outwash gravel unit on top of this silty sand unit. Based on this, where the silty sand unit is present, it is considered to represent a confining layer, and serves to restrict/limit the potential for downward migration of coal tar impacts at the Site.

4.3.5 Silty Clay

In association with the overlying silty sand layer the silty clay unit is also derived from glacial lacustrine deposition. This fine grained unit is even more widespread laterally across the Site than the overlying layer. Where present the unit was measured to range in thickness from 4 to 30 feet. The unit consists primarily of firm moist to wet gray silty clay. As is the case with the silty sand unit, where the silty clay unit is present, it is considered to serve as a confining layer to restrict/limit the potential for downward migration of coal tar impacts at the Site.

Figure 5b is a isopach map of the combined thickness of the silty sand and silty clay glacial lacustrine units. The map shows that these deposits are thickest to the southwest of the Site (35 feet thick) and along the northwestern side of the RI study area (45 feet thick), where the depth to bedrock is greatest. Conversely, the units gradually thin to the north and east side of the Site, where the bedrock surface becomes shallow. The map shows that the units are absent at test borings TB-30, TB-44, TB-90, TB-32 and MW-29B, because the units are pinched out on shallow bedrock. Because the combined glacial lacustrine deposits pinch out at the north and east sides of the Site, they are overall considered to function as a semi-confining layer to underlying water-bearing zones. Accordingly, this unit is referred to as a semi-confining layer within this report.

4.3.6 Sand and Gravel

The sand and gravel unit consists primarily of gray fine sand with some coarse to medium sand and gravel and frequent red and dark gray slate fragments. The unit constitutes a sandy glacial till deposit. The unit is very firm and moist with a thickness ranging from 4 to 12 feet. Based on slow recharge rates in purged monitoring wells, the unit exhibits relatively low permeability, but is water-bearing, and therefore was screened to evaluate deep groundwater conditions.

4.3.7 Bedrock

Beneath the glacial till is a moderately to highly fractured slate bedrock unit that has trace calcite veins and pyrite nodules.

4.4 Site hydrogeology

Two groundwater flow systems exist above a fractured bedrock aquifer at the Site. Unconfined (water table) groundwater conditions exist in the shallow overburden (outwash gravel) stratigraphic unit. A semi-confined water-bearing zone exists in the deep overburden sand and gravel (glacial till unit). The glacial lacustrine silty sand and silty clay units are anticipated to form a semi-confining aquitard between the shallow and deep overburden water-bearing zones. Groundwater in the deep overburden zone is likely under unconfined water table conditions in areas where the semi-confining layer is absent. The deep overburden water-bearing zone exhibits lower hydraulic conductivity than the shallow water-bearing zone, based on recovery rates to purged monitoring wells. Groundwater is also present in the bedrock in open fractures. This water-bearing zone is considered to be under confined conditions, except it is potentially under unconfined conditions where bedrock is shallow and the semi-confining layer is absent.

Based on four rounds of water level measurements obtained during the RI, the water table is between 6 and 12 feet bgs and groundwater flows from the southeast towards the west or northwest in the shallow system (Figures 8a and 8b) and from the southeast to the northwest in the deep system (Figures 8b and 9b). Surface water flow in the Mettowie River follows the same general flow direction from the southeast to the northwest.

Based on the contouring in Figures 8a and 8b, the water table gradient across the Site is on the order of about 0.003 ft/ft. From Figures 9a and 9b, the horizontal hydraulic gradient in the deep overburden water-bearing zone is on the order of about 0.0015 ft/ft.

Figure 8a shows surface water elevations that were measured at three gauging stations (SWRP-1, SWRP-2 and SWRP-3) in the Mettowie River, within the study area. These measurements were taken on the same dates (February 5, 2010, and July 16, 2010) as groundwater elevation measurements collected in the monitoring wells. Comparison of surface water elevations relative to

groundwater elevations in nearby monitoring wells allows for an evaluation to be made of relative hydraulic gradients and potential for flow between groundwater and surface water. In general, during both monitoring events, surface water elevations were equal to or slightly higher than groundwater elevations in nearby wells. This data indicates there is hydraulic connection between the shallow groundwater and surface water, as is to be expected. The minimal relative gradient between the groundwater and surface water indicates there is little if any discharge of groundwater to surface water at the locations tested, and a potential for recharge of the groundwater from the river.

4.5 Geotechnical testing

Geotechnical laboratory testing was performed on representative samples collected throughout the site. The geotechnical testing program focused on developing preliminary estimates of soil strength and hydraulic conductivity. Soil strength and hydraulic conductivity will be critical during the Feasibility Study alternative development/analysis, and remedial design process. The testing was performed by Atlantic Testing Laboratories, Inc. A copy of the geotechnical laboratory testing report is included in Appendix D. Below is a summary of the geotechnical data for each general soil type found at this site.

4.5.1 Upper Sand and Gravel

Standard Penetration Test (SPT) N-values in the upper sand and gravel material ranged from approximately 5 to greater than 50 blows per foot, although the majority of SPT tests exhibited N-values between 15 and 25 blows per foot, corresponding to medium compact.

Several gradation tests were conducted on material collected from the upper sand and gravel layer. The majority of the gradation tests indicate that the materials are well graded sand and gravel with silt, with a USCS soil classification of SW-SM and GW-GM.

The hydraulic conductivity of the upper sand and gravel material was estimated using correlations based on grain size data. The correlations indicate that hydraulic conductivities on the order of 1×10^{-2} cm/s to 1×10^{-1} cm/s are to be expected for the upper sand and gravel. Slug tests were performed on wells screened in the upper sand and gravel during previous site investigations. The slug test results substantiate the correlations.

4.5.2 Silt and Clay

The fine grained silt and clay soils are found beneath the upper sand and gravel. In general the upper material in this layer is a non-plastic silt, with the clay fraction and plasticity increasing with depth. The plasticity index ranged from non-plastic in the upper silty material to 23 in the lower, more clayey material. Moisture content ranged from 20 to 35 percent in this layer, generally increasing with depth.

SPT N-values in the silt and clay layers ranged from weight of hammer (WOH) to 5 blows per foot, indicating a very soft to soft consistency. Several undisturbed Shelby tube samples were collected in the silt and clay materials to measure undrained shear strength, using Unconsolidated-Undrained (UU) triaxial tests. The measured undrained shear strength of the silt and clay materials ranged from 144 psf to 776 psf with an average strength of about 340 psf. The shear strengths measured by the UU tests correspond to a very soft to medium stiff material.

4.5.3 Lower Sand and Gravel

The lower sand and gravel is encountered beneath the fine grained silt and clay soils. SPT N-values range from 11 to greater than 50 blows per foot, with most samples falling in the range between 25 and 40 blows per foot. These results indicate that this material is medium dense to dense.

The lower sand and gravel contains a larger percentage of fine grained soils and therefore has lower hydraulic conductivity than the upper sand and gravel. Slug test data indicates that hydraulic conductivity in the lower sand and gravel is on the order of 1×10^{-4} cm/s to 1×10^{-3} cm/s.

5.0 Field Investigation Results

This section presents a summary of the field observations made during the RI. During the subsurface investigation, residuals from former MGP operations were observed in various forms, such as hydrocarbon sheens, staining, and as NAPL. The term “tar” or “coal tar” is typically used to describe viscous NAPL from MGP operations which does not readily separate from soils. The term “coal tar NAPL” or “NAPL” is typically used to describe less viscous NAPL from former MGP operations which will readily flow or separate from soils. Density and viscosity testing was not performed on tar or NAPL encountered in the borings; it is presumed that these materials are residuals from the gas production process. For discussion and illustrative purposes of this report, tar or coal tar is not differentiated from coal tar NAPL or NAPL. All such impacts are presumed to reflect MGP-related impacts and thus are collectively referred to in this report as “coal tar” or “MGP-related” impacts. From this, the observations made by the field geologist have been grouped into the following general categories:

- Fill material comprised of non-indigenous material emplaced at the Site that contained trace amounts of anthropogenic materials such as cinders, coal fragments, coke fragments, ashes, and varying amounts of construction debris;
- Moderately to heavily impacted soil or fill material exhibiting a visibly identifiable coal tar staining, coal tar sheen, and/or trace amounts of coal tar NAPL blebs (indicated by the green color on the report figures, test boring logs and cross-sectional views of the Site); and
- Soil saturated with coal tar NAPL (indicated by the red color on the report figures, test boring logs and cross-sectional views of the Site).

It is important to note that these descriptions and colored illustrations are included to provide a useful tool in representing the extent of the observed residuals at the Site; however, they are somewhat general in nature and are intended to be used along with the subsurface logs and the results of the chemical analyses to fully evaluate the nature and extent of impacts at the Site.

5.1 Subsurface soil and bedrock investigation results

Thirteen (13) test pits and one hundred and fifty five (155) soil borings were advanced during the RI to evaluate the nature and extent of MGP-related impacts across the Site. The locations of the test pits and borings are shown on Figures 4a and 4b, respectively. Cross-sections are shown on Figures 7a through 7h. Logs of the test pits and soil borings are included in Appendix B.

Figure 13a provides a summary of laboratory analytical results of subsurface soil samples collected in the soil borings, and summarizes coal tar impacts observed in the borings. Figure 13b presents the anticipated horizontal limits of coal tar impacts within the shallow overburden stratigraphic unit, which are primarily confined to the glacial outwash gravel, above the glacial lacustrine silty sand/silty clay deposit. The limits of impact depicted in Figure 13b are inferred between the test borings where actual observations were made. Figures 13c and 13d show the occurrences of coal tar impacts observed in the deep overburden (glacial till) deposit and bedrock, respectively.

Cross-sections A-A' through G-G' illustrate the horizontal and vertical distribution of fill materials, subsurface geologic units, approximate water table elevations, and observed coal tar impacts. Portions of the gravel unit described above (Section 4.3.3) are shown in each of the cross-sections.

As shown on the cross-sections, with few exceptions, coal tar impacts were observed at the base of the gravel unit on top of the silty sand or clay units which are considered to constitute a confining layer, where present, to inhibit deeper migration of MGP residuals. At several locations, impacts were also observed in the bedrock, suggesting that although the lacustrine deposits are acting as a confining layer in most areas, MGP related impacts have reached the bedrock in the isolated areas where the confining layer is absent. Because of this and as described previously, the glacial lacustrine deposits are considered to overall function as a semi-confining layer with respect to the Site as a whole. As shown on Figures 7a through 7g, the impacts appear generally limited to the gravel unit and isolated areas of the bedrock.

Figure 13b shows that coal tar impacts in the shallow overburden extend from the MGP Site to the north-northwest. Impacts were found to be most significant on the former MGP Site. Many borings drilled in the vicinity of the gas holder, and northwest to boring TB-16, encountered zones (pockets, seams, lenses) of NAPL, and frequent evidence of NAPL saturation across thicknesses of 3 feet or more. These impacts are primarily contained to the base of the outwash gravel and top of the underlying semi-confining glacial lacustrine layer, and generally within a depth range of 8 to 14 feet below grade (as shown in Table 5). Figure 13b shows that coal tar impacts terminate abruptly in the shallow overburden directly north of the former MGP Site, at test borings TB-28 and TB-82. Figures 5a and 5b, respectively, show that the bedrock surface becomes shallow and the semi-confining layer beneath the outwash gravel pinches out in this area. This data indicates that the absence of the semi-confining layer in this area may provide a local pathway for coal tar impacts to seep downward to the underlying glacial till sand and gravel and bedrock surface. As a result, this area could present be a primary pathway for MGP-related impacts to reach bedrock.

From the former MGP Site, the zone of observed coal tar impacts in the shallow overburden also generally thins and spreads out in a northwestern direction, parallel with and beneath the bed of the Mettowie River. The coal tar impacts in this area remain confined to the base of the outwash gravel, and where present exist at an average depth of about 3 feet below the bed of the river. Figure 13b shows that the impact zone extends to the northwest a distance of about 500 feet from the Site, and fluctuates in width between about 100 and 200 feet. The coal tar impacts in the shallow overburden in this area extend a relatively short distance onto the Granville Little League property on the west side of the Mettowie River, as shown in Figure 13b.

At a distance of about 500 feet downstream of the Site, the zone of coal tar impact changes to a northerly direction, and extends a distance of about 300 feet towards the NYSEG Operating Center. The borings furthest in this direction exhibiting coal tar impacts were TB-69 and TB-70. At this terminus point of the impact zone, coal tar was observed to be less than 1 foot thick, and still confined to the base of the outwash gravel, at a depth of about 10 to 11 feet below grade.

Figures 13c shows that coal tar impacts, existing as NAPL saturation, sheens and blebs, were observed in the deep overburden (glacial till sand and gravel) unit at only seven (7) boreholes. This demonstrates that MGP impacts in the deep unit are localized and isolated, and further demonstrate that the glacial lacustrine semi-confining layer serves to restrict downward migration of coal tar impacts, where present. Borings exhibiting coal tar saturation in the deep overburden unit (TB-1, TB-2, TB-3 and TB-89) were all located to the south of the gas holder, where the unit slopes downward to

the south on the bedrock surface. The occurrence of isolated impacts at depth in this area, without evidence of similar impacts in the unit at locations nearer the gas holder, indicate that:

1. There is a localized breach in the semi-confining layer somewhere near or immediately upgradient of these borings; and/or,
2. The impacts observed in these borings resulted from discharge from bedrock fractures immediately upgradient of the borings.

Figure 13d shows that coal tar impacts were observed in the bedrock at borings located along an axis extending northward from the gas holder foundation (MW-5B, MW-12B, MW-14B, MW-19B and MW-23B). These borings are located near the location where the semi-confining layer in the overburden pinches out, suggesting as described previously that the absence of the semi-confining layer likely serves as a pathway for coal tar to seep downward to the bedrock. The locations of these five bedrock wells also form a fairly straight line that closely parallels the strike of the bedrock structure. This suggests that the NAPL-saturated fractures in these wells are hydraulically connected along a zone of high fracture density thereby enabling coal tar to spread laterally within the bedrock.

During the RI it was suspected that coal tar impacts may also have potential to migrate along bedding plane fractures that may exist in the bedrock. Therefore, based on the approximate 60 degree east dip of the bedding planes (and fractures) measured in the bedrock core, two deep bedrock wells (MW-11B and MW-29B) were drilled to the east of the Site, on the recreational path. Based on the measured dip angles in the on-site bedrock well cores, well MW-11B was drilled to a depth of 145 feet below grade and MW-29B was drilled to a depth of 120 feet below grade. The goal of these installation depths was to target the same impacted fractures encountered on the Site, at depth further down the dip angle. Some hydrocarbon sheen and odor was observed in the core for MW-11B at a depth of 139 to 141.5 feet below grade. No visible/olfactory evidence of impacts were observed in the core at well MW-29B.

5.2 NAPL gauging and collection results

During the course of the field investigation several rounds of NAPL gauging and manual purging (bailing) were conducted to assess whether or not recoverable coal tar was accumulating in the monitoring wells or associated sumps. Measurable coal tar was gauged in several wells located in the vicinity of the former gas holder and areas directly down gradient. All of the monitoring wells that have measureable DNAPL are screened within the bedrock or the gravel unit. These wells included:

- MW-1B – DNAPL thickness range (ft) – 0.0-0.5, screened in bedrock
- MW-5B – DNAPL thickness range (ft) – 5.0-13.2, screened in bedrock
- MW-7S – DNAPL thickness range (ft) – 0.33-2.0, screened in gravel
- MW-12B – DNAPL thickness range (ft) – 0.29-17.0, screened in bedrock
- MW-18S – DNAPL thickness range (ft) – 2.85-4.2, screened in bedrock
- MW-19B – NAPL flowed into the well at the onset of purging, screened in bedrock
- MW-23B – DNAPL thickness range (ft) – 0.0-0.9, screened in bedrock
- During gauging events NAPL blebs were observed in MW-1D, MW-2S, MW-5S, MW-6S, MW-6B, and MW-14B.

Based on the gauging results, coal tar was bailed from wells MW-5B, MW-12B, MW-7S, and MW-18S on about a weekly basis between June and August 2009. Based on the results of that testing, automated coal tar recovery systems were installed on MW-5B and MW-18S, and operated between October and December 2009. In 2009, a total of 54 gallons was removed from MW-5B, 24 gallons from MW-18S, 8 gallons from MW-12B, and 2.2 gallons from MW-7S. The automated recovery systems were shut down for the winter, in December 2009. The results of the NAPL gauging, purging and extraction testing are summarized on Figure 14.

5.3 Mettowee River sediment investigation results

As part of a previous investigation at the Site in 1992 (BBL, 1993), elevated PAH concentrations were reported in “sediment” samples collected in the Mettowee River near the former MGP Site. The locations of those samples (SS-1 through SS-8) are shown on Figure 4c and the results are summarized on Figure 12a. These samples and reported results are further discussed at the end of this section.

During the RI, sediment samples were collected from the Mettowee River in attempt to confirm the findings reported from the 1992 investigation and to assess the potential for MGP related impacts to river sediment. The samples were collected from an interval between 0 and 6-inches in depth to represent surface sediment conditions. The RI surface sediment samples were collected during two separate sampling events. In October, 2008, twenty six (26) samples (SD-01 to SD-26) were collected at locations extending from just upstream of the former MGP Site to a distance of about 400 feet downstream of the Site. These samples were collected at locations corresponding to equally spaced transects along the river (Figure 4c). Throughout this section, virtually no fine grain material is present on the river bottom, as the river is primarily erosional (as opposed to depositional) in nature. Accordingly, these samples contained little if any fine grain sediment. The second sediment sampling event was conducted in August 2009, and included the collection of twelve (12) samples (SD-27 to SD-38). Attempts were made during this event to target the sample collection points to areas of accumulated fine grain surface sediment. Samples SD-28 through SD-36 were collected from locations extending from about 150 feet to 700 feet downstream of the Site (Figure 4c). These samples were all collected in shallow water near the riverbank where fine grain sediment had accumulated. Samples SD-37 and SD-38 (Figure 4d) were collected along the edge of a meander and pool in the river located approximately 1,400 feet downstream of the Site (Downstream Area). Sample SD-27 was collected at the base of the stone wall that extends along the edge of the Site (Figure 4c), at an elevated non-depositional point along the river bank, above the water line. Because of its collection point, AECOM considers this sample to be representative of Site surface soil rather than river sediment, although the results of this sample are presented as sediment in Section 6. As discussed in detail in Section 6, no appreciable impacts attributed to MGP discharges were observed or detected in the Mettowee River surface sediments during sampling conducted during the RI. It is noted that during the RI coal tar impacts were identified extending in the shallow overburden outwash gravel unit below the bed of the river at depths of at least 1 foot or more below the bed of the river, as shown in the cross sections (Figures 7c to 7h) and test boring logs (Appendix B).

A description of the 1992 samples and the methodology used for their collection is included in Appendix A-4 of that report (BBL 1993), which is included in Appendix A of this report. The report states that the samples were collected by driving a lexan tube into the sediment until resistance, and then applying a vacuum to the tube with a hand pump to retain sample upon extraction of the tube. Visual descriptions reported the two samples collected from tubes driven to the greatest depth (SS-1 to 1.7 feet and SS-5 to 1.5 feet) were oily with a strong odor. The locations of these samples and the depths of their collection appear to be consistent with the presence of coal tar impacts identified

during the RI in the glacial outwash gravel unit beneath the bed of the river, as described in Section 5.1 and shown on Figure 13B. Based on this information, it is AECOM's opinion that analytical results of the 1992 samples are not representative of surface sediment conditions in the river, but rather of the glacial outwash gravel unit beneath the bed of the river.

6.0 Analytical Results

This section presents the results of the laboratory analyses performed for the RI samples. A discussion of the results of the analyses, and a comparison to applicable NYSDEC Standards, Criteria and Guidance (SCGs) values are grouped according to environmental media in the following sections.

To include the results of all the sampling that has been completed at the Site in this report, the laboratory reports and summary spreadsheets for the previous investigations performed are included in Appendix A, and the results are summarized on the figures discussed in this section.

6.1 Analytical program

Subsurface and surface soil, sediment, groundwater, and air samples were analyzed during the RI. Except where noted below, the samples were analyzed by Test America of Buffalo, New York.

6.1.1 Surface and subsurface soil analyses

The surface and subsurface soil samples were analyzed for the following parameters:

- VOC compounds by U.S. EPA Method 8260B;
- Semi-volatile organic compounds (SVOCs) by U.S. EPA Method 8270C;
- Target Analyte List (TAL) Metals by U.S. EPA Method 6000-7000 Series; and
- Total Cyanide by U.S. EPA Method 9012A.

6.1.2 Groundwater analyses

The groundwater samples were analyzed for the following parameters:

- VOC compounds by U.S. EPA Method 8260B;
- SVOC compounds by U.S. EPA Method 8270C;
- TAL Metals by U.S. EPA Method 6000-7000 Series; and
- Total Cyanide by U.S. EPA Method 9012A.

6.1.3 Sediment analyses

The sediment samples were analyzed for the following parameters:

- VOC compounds by U.S. EPA Method 8260B;
- SVOC compounds by U.S. EPA Method 8270C;
- Total Cyanide by U.S. EPA Method 9012A; and
- Total Organic Carbon by the Lloyd-Kahn Method.

6.1.4 Soil vapor analyses

Air samples were analyzed for the following parameters:

- VOC plus MGP indicators analysis by U.S. EPA Method TO-15.

6.2 Quality assurance/quality control analyses

Field and laboratory quality control samples for the investigation were collected and analyzed to document the accuracy and precision of the samples. The quality assurance/quality control (QA/QC) samples included trip blanks, field duplicates, matrix spikes, and matrix spike duplicates. The data quality level for the investigation was consistent with procedures outlined in the NYSDEC ASP Category B 2005 methodologies. A full data package has been prepared by the laboratory for all samples collected during the RI and is included in Appendix F. The results of the field QA/QC samples and the laboratory QA/QC samples are included in Appendix F.

6.3 DUSR review

For quality control purposes, comprehensive CLP-like data packages were produced by Test America for the soil, sediment, soil vapor, and groundwater samples for review by a qualified chemist. A DUSR was prepared by AECOM for each soil, air, and water sample delivery group. The DUSR for this project is included in Appendix E.

As part of the data review process, analytical results and data qualifiers were corrected where necessary to reflect quality control issues. The Form I Report Sheets in Appendix E, and the data summary spreadsheets discussed in this section, have been modified to reflect the findings of the DUSR.

Organic data quality was evaluated by reviewing the following parameters: holding times, GC/MS tuning and performance, internal standards, initial and continuing calibrations, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD) samples, MS/MSD relative percent differences (RPDs), laboratory control standards (LCSs), laboratory blanks, laboratory and field duplicates, compound identification, and compound quantization. No data points were rejected for the samples collected in 2008 and 2010. As a result of the review of the 2009 data: 1) six non-detect soil boring sample benzaldehyde results were rejected because of poor method accuracy, 2) eight non-detect sediment sample acetone and thirteen non-detect sediment sample 1,1,2-trichlorotrifluoroethane results were rejected because of poor instrument sensitivity, and 3) six non-detect surface soil t-butanol results were rejected because of poor instrument sensitivity. All other data were found to be useable with some qualifications. The rejected data and other resultant qualifications do not affect the conclusions of this report.

Inorganic data quality was evaluated by reviewing the following parameters: holding times, matrix spikes, initial and continuing calibrations, contract required detection limit (CRDL) standard recoveries, laboratory control samples, ICP interference check sample results, ICP serial dilution results, laboratory and field duplicates, and laboratory blanks. No inorganic data points were rejected. All inorganic results were found to be useable with some qualification, which do not affect the conclusions of this report.

6.4 Subsurface soil results

A list of the subsurface soil samples collected, and the analyses performed is included in Table 1. The results of the subsurface soil samples are summarized in Table 6 (VOC results), Table 7 (SVOC results), and Table 8 (Metal and cyanide results).

The subsurface soil results included in the tables are compared to the Unrestricted Use and Commercial Use Soil Cleanup Objectives (SCOs). Where a result is greater than the respective Subpart 375-6 Unrestricted Use SCO, the result is shown with a bold font. If a result is greater than the respective Subpart 375-6 Commercial Use SCO, the result has been shaded on the tables.

The results of the subsurface soil sampling performed at the Site are summarized on Figure 13a. Included on the figure for each sample analyzed are the sample designation, the date depth, the stratigraphic unit from which the sample was collected, shading to indicate whether the sample exhibited visible evidence of coal tar impact, the total BTEX concentration, and the total PAH concentration.

As indicated in the RI Work Plan, in general, samples were collected from the most impacted intervals based on the PID screening and field observations (visual and olfactory) regarding the presence of MGP-related residuals. If impacts were not encountered, a sample was collected from the 1-foot interval immediately above the water table at several boring locations. Samples were also collected from the bottom of several of the borings to confirm "non-impacted" conditions. The intervals sampled at each boring location are shown on the borelogs in Appendix B and are summarized in Table 1. The results of the analyses are discussed by area below.

The subsurface samples were collected during three separate phases of investigation in November 2008, August 2009, and July 2010. Sixty-two (62) subsurface soil samples were collected from the borings advanced in during November 2008. Thirty-three (33) samples in August 2009 and twenty-nine (29) samples in July 2010. The rationale for each test boring is presented in Table 1.

6.4.1 Subsurface soil results - NYSEG and Recreation Path Parcels

During the first phase of the subsurface investigation in November 2008, Forty-three (43) subsurface samples were collected from the NYSEG property and along the recreation path that abuts the eastern side of the Site. During the second phase in August 2009 thirty-one (31) subsurface samples were collected from this area and during the third phase in July 2010 twenty-four (24) samples were collected from this area.

6.4.1.1 VOCs

During the November 2008 sampling event, BTEX compounds were detected in 17 of the 43 subsurface samples collected (Table 6). Total BTEX concentrations ranged from 0.001 mg/Kg (TB20 (24-26)) to 2450 mg/Kg (TP16 (10-12)). Only one sample TP16 (10-12) had concentrations of BTEX compounds that exceeded the Commercial Use SCO. Benzene (660 mg/Kg), Toluene (860 mg/Kg), and total Xylenes (680 mg/Kg) were detected in the samples at concentrations greater than the Commercial Use SCOs of 44 mg/Kg, 500 mg/Kg, and 500mg/Kg, respectively. BTEX compounds were not detected at concentrations greater than the respective Commercial Use SCOs in any other soil samples collected from area borings.

Targeted samples were collected from the silty sand and silty clay units beneath impacted shallower zones in the outwash gravel unit to further assess whether the silty lacustrine deposits may be acting as a confining unit beneath the Site. These samples included: TB13 (20-24), TB14 (14-16), TB15 (20-22), TB17 (26-28), TB18 (27-29), TB19 (24-26), TB20 (24-26), TB21 (26-28), TB22 (20-22), TB24 (24-26), TB25 (14-16), TB26 (16-18), TB27 (16-18), TB31 (18-20), MW-1B (24-26), MW-3B (22-24), and MW-6B (28-30). As shown on Table 6, all BTEX compounds for these samples were either not detected, or where detected were less than the Commercial Use SCOs.

During the August 2009 sampling event, BTEX compounds were detected in 11 of the 31 subsurface samples collected. Total BTEX concentrations ranged from 0.0038 mg/Kg (TB57 (12-14)) to 0.211 mg/Kg (MW-19 (13-14)). BTEX compounds were not detected at concentrations greater than the respective Commercial Use SCOs in any soil samples collected from area borings during this event.

During the July 2010 sampling event, BTEX compounds were detected in 2 of the 24 subsurface samples collected. Total BTEX concentrations ranged from 0.0069 mg/Kg (TB85 (16-18.5)) to 0.547 mg/Kg (TB89 (52-54)). BTEX compounds were not detected at concentrations greater than the respective Commercial Use SCOs in any soil samples collected from area borings during this event.

6.4.1.2 SVOCs

During the November 2008 sampling event, PAH compounds were detected in 38 of the 43 subsurface samples collected (Table 7). Total PAH concentrations ranged from 0.01 mg/Kg (TB24 (24-26)) to 69,220 mg/Kg (TP16 (10-12)). Of the 38 samples that had detectable PAH compounds, 14 of these had concentrations of one or more compound that exceeded the Commercial Use SCO. The majority of the samples that had concentrations exceeding the standard occurred in the outwash gravel unit at an average depth of 8-12 feet below ground surface.

Targeted samples were collected from the silty sand and silty clay units beneath impacted shallower zones in the outwash gravel unit to further assess whether the silty lacustrine deposits may be acting as a confining unit beneath the Site. These samples included: TB13 (20-24), TB14 (14-16), TB15 (20-22), TB17 (26-28), TB18 (27-29), TB19 (24-26), TB20 (24-26), TB21 (26-28), TB22 (20-22), TB24 (24-26), TB25 (14-16), TB26 (16-18), TB27 (16-18), TB31 (18-20), MW-1B (24-26), MW-3B (22-24), and MW-6B (28-30). As shown on Table 7, all PAH compounds for these samples were either not detected, or where detected were less than respective Unrestricted Use and Commercial Use SCOs.

During the August 2009 sampling event, PAH compounds were detected in 18 of the 43 subsurface samples collected. Total PAH concentrations ranged from 0.026 mg/Kg (TB56 (11-12)) to 600.8 mg/Kg (MW-19 (11-12)). Of the 18 samples that had detectable PAH compounds, three of these had concentrations of one or more compound that exceeded the Commercial Use SCO. These samples included:

- MW-19B (11-12) – Total PAHs = 600.8 mg/Kg. This sample was collected 200' north, hydrologically down gradient, of the former gas holder. This sample was collected from an interval where some black non-viscous NAPL was observed in the gravel layer. PAHs were not detected in the deeper sample from the silty clay at this location (MW-19B (13-14)).
- MW-23B (10-12) – Total PAHs = 143.9 mg/Kg. This sample was collected 275' north, hydrologically down gradient, of the former gas holder and approximately 75' north of MW-19B. This sample was collected from an interval where slight sheen and hydrocarbon odor was observed in the gravel layer.
- TB48 (13.5-14.5) – Total PAHs = 52.59 mg/Kg. This sample was collected 75' inland of the east bank of the River approximately 50' north of MW-18S. This sample was collected from an interval where trace black NAPL blebs and slight hydrocarbon sheen was observed in the gravel layer. PAHs were not detected above standards in the deeper sample from the silty sand at this location (TB48 (15-16)).

During the July 2010 sampling event PAH compounds were detected in 13 of the 24 subsurface samples collected.

Total PAH concentrations ranged from 0.018 mg/Kg (TB100 (18-20)) to 54.93 mg/Kg (TB89 (52-54)). Of the 13 samples that had detectable PAH compounds, one of these had concentrations of one or more compound that exceeded the Commercial Use SCO:

- TB89 (52-54) – Total PAHs = 54.93 mg/Kg. This sample was collected along the eastern bank of the River and approximately 40' west of MW-1B. This sample was collected from an interval where non-viscous NAPL was observed in the deep overburden glacial till sand and gravel unit. No additional sample was collected from the boring; visual impacts, sheen, and odor were noted during logging to the top of bedrock at 54.3' bgs.

6.4.1.3 Total Cyanide

During the November 2008 sampling event, total cyanide was detected in three of the 43 subsurface samples collected (Table 8): TB13 (22-24) (9.8 mg/Kg), TP17 (11-12) (1.4 mg/Kg), and TP20 (1-1.5) (1.1 mg/Kg). All detectable concentrations were below the Unrestricted Use and Commercial Use SCOs of 27 mg/Kg.

During the August 2009 sampling event total cyanide was not detected in any of the samples collected in this area.

Due to the previous analytical results for the subsurface soil samples, total cyanide was not tested for during the July 2010 sampling event.

6.4.2 Subsurface soil results - Adjacent Parcels West of River

During the first phase of the subsurface investigation in November 2008, nineteen (19) subsurface samples were collected from the parcels located west of the Mettowie River. During the second phase in August 2009 two (2) subsurface samples were collected from this area and during the third phase in July 2010 five (5) samples were collected from this area.

6.4.2.1 VOCs

During the November 2008 sampling event, BTEX compounds were detected in six of the 19 subsurface samples collected (Table 6). Total BTEX concentrations ranged from 0.007 mg/Kg (MW-8D (8-10)) to 0.901 mg/Kg (TB39 (12.5-13.5)). BTEX compounds were not detected at concentrations greater than the respective Commercial Use SCOs in any soil samples collected from this area.

Only two subsurface soil samples were collected in this area during the August 2009 sampling event. No VOCs were detected in either sample.

Five subsurface soil samples were collected in this area during the July 2010 sampling event. No VOCs were detected in these samples.

6.4.2.2 SVOCs

During the November 2008 sampling event, PAH compounds were detected in 13 and the 19 subsurface samples collected (Table 7). Total PAH concentrations ranged from 0.011 mg/Kg (TB12 (18-20)) to 96.62 mg/Kg (TB36 (8-10)). Of the 13 samples that had detectable PAH compounds three of these had concentrations of one or more compound that exceeded the Commercial Use SCO. These samples included:

- TB12 (10-12) – Total PAHs = 83.98 mg/Kg. This sample was collected 25' inland of the west bank of the River approximately 100' northwest of MW-10S. This sample was collected from an interval where some brown non-viscous NAPL and hydrocarbon sheen was observed in the gravel layer. PAHs were not detected above standards in the deeper sample from the silty clay at this location (TB12 (18-20)) or (TB12 (31-33)).
- TB36 (8-10) – Total PAHs = 96.62 mg/Kg. This sample was collected 25' inland of the west bank of the River approximately 50' northwest (upstream) of TB12. This sample was collected from an interval where little brown non-viscous NAPL and hydrocarbon sheen was observed in the gravel layer. PAHs were not detected above standards in the deeper sample from the silty sand at this location (TB36 (10-12)).
- TB39 (12.5-13.5) – Total PAHs = 69.98 mg/Kg. This sample was collected 85' inland of the west bank of the River approximately 55' northeast of MW-16S. This sample was collected from an interval where little brown non-viscous NAPL and strong hydrocarbon odor was observed in the gravel layer. PAHs were not detected in the deeper sample from the silty clay at this location (TB39 (13.5-14.5)).

All of the samples that had concentrations exceeding the standard occurred in the outwash gravel unit at an average depth of 8-13 feet below ground surface.

Only two subsurface soil samples were collected in this area during the August 2009 sampling event. No SVOCs were detected in either sample.

Five subsurface soil samples were collected in this area during the July 2010 sampling event. No SVOCs were detected in these samples.

6.4.2.3 Total Cyanide

During the November 2008 sampling event, total cyanide was only detected in one sample (MW-10D (40-42)) at a concentration of 2 mg/Kg which is well below the Unrestricted Use and Commercial Use SCOs of 27 mg/Kg (Table 8).

Total cyanide was not detected in either of the subsurface soil samples collected during the August 2009 sampling event.

Due to the previous analytical results for the subsurface soil samples, total cyanide was not tested for during the July 2010 sampling event.

6.4.3 Subsurface soil results – Mettowie Riverbed Area

Fourteen (14) subsurface soil samples were collected from the borings advanced in the riverbed during the riverbed test boring program conducted in October 2009.

6.4.3.1 VOCs

BTEX compounds were detected in 5 of the 14 subsurface samples collected from riverbed borings (Table 6). Total BTEX concentrations ranged from 0.0216 mg/Kg (RTB08 (6-7)) to 0.36 mg/Kg (RTB11 (5-6)). BTEX compounds were not detected at concentrations greater than the respective Commercial Use SCOs in any of the soil samples collected from the riverbed borings.

6.4.3.2 SVOCs

As shown on Table 7, PAH compounds were detected in 9 of the 14 subsurface samples collected from the Site (Table 7). Total PAH concentrations ranged from 0.0097 mg/Kg in sample RTB14 (4-5) to 227.96 mg/Kg in sample RTB09 (1.5-3).

Two riverbed samples had one or more PAH compounds detected above the Unrestricted Use and Commercial Use SCOs. These samples include:

- RTB09 (1.5-3) – Total PAHs = 227.96 mg/Kg. This sample was collected from central portion of the River approximately 90' southwest of MW-4D. This sample was collected from the interval where trace NAPL blebs and hydrocarbon sheen was observed in the gravel layer. PAHs were not detected above standards in the deeper sample from the silty sand at this location (RTB09 (7-9)).
- RTB11(5-6) – Total PAHs = 189.57 mg/Kg. This sample was collected from central portion of the River approximately 100' south of MW-18. This sample was collected from the interval where possibly MGP-related impacts were observed, slight hydrocarbon sheen and odor.

Targeted samples were collected from the silty sand semi-confining unit below the gravel to confirm "non impacted conditions. These samples included RTB5 (2-4), RTB8 (6-7), RTB11 (6-7), RTB15 (6-7) and RTB17 (4-5). As shown on Table 7, with the exception of RTB11 which was collected from an interval with visual impacts, all PAH compounds for these samples were either not detected, or where detected were less than the Unrestricted Use and Commercial Use SCOs.

No other SVOCs were detected in the samples from the riverbed borings at concentrations exceeding than the Unrestricted Use or Commercial Use SCOs.

6.4.3.3 Total Cyanide

Total cyanide was not detected in any riverbed soil borings (Table 8).

6.5 Surface soil results

A list of the surface soil samples collected, and the analyses performed is included in Table 1. The results of the surface soil samples are summarized in Table 9 (VOC results), Table 10 (SVOC results), and Table 11 (Metal and cyanide results).

The surface soil results included in the tables are compared to the Unrestricted Use and Commercial Use SCOs. Where a result is greater than the respective Subpart 375-6 Unrestricted Use SCO, the result is shown with a bold font. If a result is greater than the respective Subpart 375-6 Commercial Use SCO, the result has been shaded on the tables.

The results of the surface soil sampling performed at the Site are summarized on Figure 11a and 11b. Included on the figure are the sample designations, the date sampled, the total BTEX concentrations, the total PAH concentrations, and the total cyanide concentrations. During June and October 2009, a total of eleven (11) surface soil samples were collected on and offsite.

6.5.1 Surface soil results – Onsite

During June 2009 four (4) onsite surface soil samples were collected at locations described in Section 3.3. Samples were collected in order to supplement surface soil sampling that was conducted during a previous investigation in 1992. The sample results from the 1992 investigation (BBL, 1993) are included in Appendix A, and a summary of those results are included with the RI sample results on Figure 11a.

6.5.1.1 VOCs

No BTEX compounds were detected in any of the onsite surface soil samples (Table 9). Methylene chloride was detected in sample SF-07 at a concentration of 0.02 mg/Kg, which is well below the Commercial Use SCOs of 500 mg/Kg.

6.5.1.2 SVOCs

PAH compounds were detected in all four of the onsite surface soil samples (Table 10). Total PAH concentrations ranged from 1.255 mg/Kg (TP-20) to 38.79 mg/Kg (SF-06).

Three onsite samples had one or more PAH compound detected above the Commercial Use SCOs. These samples include:

- SF06 – Total PAHs = 38.79 mg/Kg. This sample was collected along the recreational path adjacent to MW-11S. Benzo(a)pyrene was detected at 2.6 mg/Kg which exceeds the Commercial Use SCO of 1 mg/Kg and Benzo(b)fluoranthene was detected at 6.1 mg/Kg which exceeds the Commercial Use SCO of 5.6 mg/Kg.
- SF07 – Total PAHs = 19.65 mg/Kg. This sample was collected along the recreational path adjacent to TB29. An estimated concentration (J qualified) of Benzo(a)pyrene was detected at 1.8 mg/Kg which exceeds the Commercial Use SCO of 1 mg/Kg.
- SF08 – Total PAHs = 25.65 mg/Kg. This sample was collected along the recreational path 60' south of SF07. An estimated concentration (J qualified) of Benzo(a)pyrene was detected at 2.2 mg/Kg which exceeds the Commercial Use SCO of 1 mg/Kg

6.5.1.3 Total Cyanide and Metals

Total cyanide was detected in one of the four onsite samples collected in June 2009 (Table 11). Total cyanide was detected in SF08 at a concentration of 62.9 mg/Kg which exceeds the Commercial Use SCO of 27 mg/Kg. Arsenic was detected in sample SF06 at an estimated (J qualified) concentration of 18.5 mg/kg which exceeds the Commercial Use SCO of 16 mg/kg. All other metal results were below applicable Commercial Use SCOs.

6.5.2 Offsite/background surface soil results

During October 2009 three surface soil samples (SF-9, SF-10 and SF-11) were collected near the pavilions on the parcel west of the Mettowee River. The results of these samples are summarized on Figure 11a. Also at that time, five surface soil samples (SS-12 to SS-16) were collected from offsite locations along the recreational path. These sample results are presented as Figure 11b. These samples were collected to help assess whether elevated PAH levels reported in samples SF-06, SF-07 and SF-08 (all collected on or along the recreation path as shown on Figure 11a) reflect

background levels in the fill soil associated with the former railroad bed, as opposed to Site related MGP impacts.

6.5.2.1 VOCs

No BTEX compounds were detected in any of the offsite surface soil samples (Table 9). Methylene chloride was detected in all five samples at concentrations well below the Unrestricted Use SCO of 0.05 mg/kg and the Commercial Use SCO of 500 mg/Kg.

6.5.2.2 SVOCs

PAH compounds were detected in all eight of the offsite/background surface soil samples (Table 10). Total PAH concentrations ranged from 0.1618 mg/Kg (SF11) to 45.94 mg/Kg (SS15).

Three of the samples collected from along the recreation path east of the Site had one or more PAH compound detected above the Commercial Use SCOs. These samples include:

- SS12 – Total PAHs = 13.85 mg/Kg. This sample was collected along the recreational path about 1,000 feet north of the site. An estimated concentration (J qualified) of Benzo(a)pyrene was detected at 1.3 mg/Kg which exceeds the Commercial Use SCO of 1 mg/Kg.
- SS14 – Total PAHs = 17.08 mg/Kg. This sample was collected along the recreational path about 300 feet north of the site. An estimated concentration (J qualified) of Benzo(a)pyrene was detected at 1.5 mg/Kg which exceeds the Commercial Use SCO of 1 mg/Kg.
- SS15 – Total PAHs = 45.94 mg/Kg. This sample was collected along the recreational path about 250 feet south of the site. Benzo(a)pyrene was detected at 3.9 mg/Kg which exceeds the Commercial Use SCO of 1 mg/Kg.

6.5.2.3 Cyanide and Total Metals

Total cyanide was not detected in any offsite surface soil samples (Table 11). All metal results for the offsite surface soil samples were below applicable Commercial Use SCOs.

6.6 Surface sediment analytical results

The surface sediment samples collected in the Site Area and Downstream Area are summarized in Table 12 (VOC results), Table 13 (SVOC results), and Table 14 (Metal and cyanide results). Results for surface sediment samples collected upstream from the Site in the Background Area are summarized in Table 15 (VOC results), Table 16 (SVOC results), and Table 17 (Metal and cyanide results).

The surface sediment results included in the tables are compared to Sediment Screening Criteria (SSC) values listed in the NYSDEC Technical Guidance for Screening Contaminated Sediments, Division of Fish, Wildlife and Marine Resources [NYSDEC, Jan. 1999]. Results for analyses of organic parameters (VOCs – Tables 12 and 15, and SVOCs – Tables 13 and 16) are compared to the Effect Range – Low (ERL) and Effect Range – Moderate (ERM) SSC values. Results for analytical results for the inorganic (metals) analytes (Tables 14 and 17) are compared to the Lowest Effect Level (LEL) and Severe Effect Level (SEL) SSC values. Sample results that exceed the ERL criteria (organics) and LEL criteria (metals) are shown in bold type, and results that exceed the ERM criteria (organics) and SEL criteria (metals) are highlighted yellow on the tables.

The results of the surface sediment samples are summarized on Figure 12a and 12b. Surface sediment samples were collected from three areas of the River, one area was upstream of the site in the Village of Granville (Background Area); the second area is adjacent to the Site (Site Area), and two samples (SD-38 and SD-39) were collected from the Downstream Area. A total of thirty-nine (39) sediment samples were collected during October 2008 and August 2009 from the Site Area and Downstream Area. A total of eleven (11) sediment samples (including one field duplicate sample) were collected from the Background Area in October 2008.

6.6.1 Site Area and Downstream Area surface sediment results

A total of thirty-seven (37) sediment samples were collected during October 2008 and August 2009 from the Site Area (SD-01 to SD-36, plus one field duplicate sample). Two (2) samples (SD-37 and SD-38) were collected from the Downstream Area in August 2009.

6.6.1.1 VOCs

No BTEX compounds were detected in any of the surface sediment samples collected in these areas (Table 12). No other VOCs were detected above the ERL or ERM screening criteria.

6.6.1.2 SVOCs

PAH compounds were detected in 16 of the 37 Site Area surface sediment samples (Table 13). Total PAH concentrations in these samples ranged from 0.007 mg/Kg (SD-09) to 1.66 mg/Kg (SD-27). PAHs were not detected in either Downstream Area sample (SD-38 and SD-39).

One Site Area sample (SD-27) had two PAH compounds detected above the ERL screening criteria. An estimated concentration of Benzo(a)anthracene was detected at 0.35 mg/Kg, which exceeded the ERL screening criterion of 0.261 mg/Kg. An estimated concentration of chrysene was detected at 0.44 mg/Kg, which exceeded the ERL screening criteria of 0.384 mg/Kg. None of these results exceeded the respective ERM screening criterion. Sample SD-27 is located along the east bank of the river, about 75 feet northwest of the former gas holder foundation. It should be noted that sample SD-27 was collected from the base of the stone wall that extends along the edge of the Site, at an elevated point along the river bank above the water line. Because of its collection point, AECOM considers this sample to be representative of Site surface soil rather than river sediment.

6.6.1.3 Metals and Total Cyanide

Manganese was detected in 3 of 39 samples slightly above its LEL of 460 mg/kg; SD-01 (568 mg/kg), SD-03 (582 mg/kg) and SD-12 (722 mg/kg). These results were less than the manganese SEL of 1,100 mg/kg. Lead was detected in sample SD-11 at 198 mg/kg which slightly exceeded its SEL of 110 mg/kg, and was not detected in any other Site Area or Downstream Area sample above the respective LEL of 31 mg/kg. This represents an exceedance frequency of less than 3 percent (i.e. 1 in 39 samples tested), which does not present a potential for significant exposure risk. Copper was also detected in sample SD-11 at 19.5 mg/kg which slightly exceeded the LEL of 16 mg/kg but did not exceed the SEL. No other metal result exceeded relevant LEL's or SEL's in the Site Area and Downstream Area samples (Table 14).

Total cyanide was detected in one of the surface sediment samples in the Site Area (SD-25) at a concentration of 1 mg/Kg; there is no screening criterion for cyanide in sediment.

6.6.2 Background Area surface sediment results

6.6.2.1 VOCs

No BTEX compounds were detected in any of the Background Area surface sediment samples (Table 15). No other VOCs were detected above the ERL or ERM screening criteria.

6.6.2.2 SVOCs

PAH compounds were detected in 6 of the 11 Background Area surface sediment samples (Table 16). Total PAH concentrations ranged from 0.042 mg/Kg in sample BSD-05 to 0.59 mg/Kg in the duplicate of this sample (BSD-50). Fluoranthene was reported to exceed the ERL (0.019 mg/kg) in five samples (BSD-07, BSD-08, BSD-09, BSD-10, and BSD-50). No other SVOCs were detected at concentrations exceeding ERL or ERM screening criteria.

6.6.2.3 Metals and Total Cyanide

Manganese was detected in Background Area samples BSD-04 at 599 mg/kg which exceeded the LEL of 460 mg/kg, and lead was detected in sample BSD-10 (field duplicate of sample BSD-05) at 32.8 mg/kg which slightly exceeded the LEL of 31 mg/kg. Both detected concentrations were less than the respective SEL's. All other metal results for the Background Area surface sediment samples were non-detect or less than the relevant LEL criteria (Table 17).

Total cyanide was not detected in any Background Area surface sediment samples.

6.7 Groundwater analytical results

Two rounds of groundwater monitoring were conducted during the RI field activities, one in October 2009 and one in July 2010. Groundwater samples were not collected from monitoring wells that contained coal tar (including blebs or measurable thicknesses) because it was evident that such wells were impacted. The wells that were not sampled due to the presence of coal tar included four shallow overburden wells (MW-5S, MW-6S, MW-7S and MW-18S) and seven bedrock wells (MW-1B, MW-5B, MW-7B, MW-12B, MW-14B, MW-19B and MW-23B). Coal tar was not observed in any of the deep overburden monitoring wells, and therefore all deep overburden wells were sampled. Laboratory analytical results of the groundwater samples collected during the two sampling events are summarized in Table 18 (VOC results), Table 19 (SVOC results), and Table 20 (metals and cyanide results).

The evaluation of the groundwater results in the following sections is based on a comparison to the groundwater standards or guidance values provided in the NYSDEC - Division of Water – Technical Operation Guidance Series (TOGS) (1.1.1) [NYSDEC, 1998, with addendums]. On the tables, where a result is greater than the method reporting limits, the result is shown with a bold font. Where a result is greater than the respective groundwater standard or guidance value concentration, the result is shaded on the tables.

The following sections summarize the groundwater analytical results from the two sampling events, for each of the three water-bearing zones, including the shallow overburden, deep overburden, and bedrock zones. Figures 15a, 15b, and 15c provide a summary of the sample results from the two sampling events, for these three zones, respectively. These figures list the total BTEX and total PAH concentrations reported in each of the samples collected in October 2009 and July 2010. Where concentrations of any of the individual BTEX or PAH compounds exceeded its applicable groundwater standard, the total concentration is shown with yellow shading on the figures. In addition, Figures 15a

and 15b include the groundwater contours from the February 2010 water level measurement round so that impacts detected in the groundwater samples can be assessed with respect to groundwater flow directions.

6.7.1 Shallow overburden groundwater analytical results

During October 2009, groundwater samples were collected from eighteen (18) monitoring wells that screen the shallow overburden water-bearing zone. During the July 2010 sampling event, twenty-one (21) shallow overburden wells were sampled including the 18 original wells and 3 additional shallow wells installed in 2010. The results are summarized on Figure 15a. As stated above, groundwater samples were not collected from wells MW-5S, MW-6S, MW-7S and MW-18S due to the presence of coal tar in the wells.

6.7.1.1 VOCs

During the October 2009 sampling event, BTEX compounds were detected in three of the 18 shallow overburden monitoring wells: MW-3S, MW-10S, and MW-24S. The total BTEX concentration ranged from 1.1 µg/L to 33.3 µg/L. Ethyl benzene and total xylenes were each detected in the MW-3S sample at 16 µg/l which exceeded the relevant groundwater standard of 5 µg/L. Monitoring well MW-24S had an estimated (J qualified) concentration of total xylenes, 1.1 µg/L, which is below the standard of 5 µg/l.

During the July 2010 sampling event, BTEX compounds were detected in two of the 21 shallow overburden wells sampled including: MW-3S, and MW-9S. The total BTEX concentration in MW-3S was 19.84 µg/L, which was slightly lower than that detected in this well during the October 2009 event (33.3 µg/L). Benzene was detected in MW-9S at 0.71 µg/L, which was less than the groundwater standard of 1.0 µg/L.

6.7.1.2 SVOCs

During the October 2009 sampling event, one or more PAH compounds were detected above the method reporting limits in 7 of the 18 shallow overburden monitoring wells. Total PAH concentrations ranged from 0.3 µg/L (MW-26S) to 397.55 µg/L (MW-3S). In five (MW-1S, MW-3S, MW-26S, MW-27S and MW-28S) of these samples, one or more of the individual PAH compounds were detected at concentrations that exceeded the groundwater standards or guidance values. The only other SVOC detected at a concentration which exceeded the standard was bis(2-Ethylhexyl) phthalate (5 µg/L) in MW-10S (6.5 µg/L).

During the July 2010 sampling event, PAH compounds were detected above the method reporting limits in four of the 21 shallow overburden wells sampled. Total PAH concentrations ranged from 0.88 µg/L (MW-4S) to 234.69 µg/L (MW-3S). In two (MW-3S and MW-17S) of these samples, one or more of the individual PAH compounds were detected at concentrations that exceeded the groundwater standards or guidance values.

6.7.1.3 Total cyanide and metals

Total cyanide was not detected in any of the shallow overburden groundwater samples. Iron, manganese and sodium were reported at concentrations greater than relevant groundwater quality standards or guidance values in many of the samples. The occurrence of these analytes can be naturally occurring in groundwater, and the associated standards are generally applied for aesthetic purposes. The metals analyses reported detection of some of the Resource Conservation and Recovery Act (RCRA) Metals in some of the shallow overburden groundwater samples at levels that

exceeded relevant groundwater standards. These included chromium in MW-1S and MW-2S (reported concentrations ranged from 1.0 ug/l to 6,880 ug/l), lead in MW-27S (30.8 ug/l in October 2009), and nickel in MW-1S (229 ug/l in October 2009).

6.7.2 Deep overburden groundwater analytical results

During the October 2009 sampling event, groundwater samples were collected from seven (7) monitoring wells across the study area that screen the deep overburden water-bearing zone. During the July 2010 sampling event, nine (9) deep overburden wells were sampled including the 7 original wells and two additional wells that were installed in 2010. The results of the groundwater sampling are summarized on Figure 15b. As stated above, coal tar was not observed in any of the deep overburden wells.

6.7.2.1 VOCs

During the October 2009 sampling event, BTEX compounds were detected in two of the 7 deep overburden wells sampled: MW-2D and MW-9D. The total BTEX concentration detected at MW-9D was 2.7 µg/L. Benzene was detected in the sample from MW-2D at a concentration of 2.1 µg/L and in sample MW-9D at a concentration of 2.7 µg/L, which exceed the groundwater standard of 1 µg/l. The only other VOC detected at a concentration which exceeded the standard was acetone, a common laboratory contaminant, in MW-2D.

During the July 2010 sampling event, BTEX compounds were again detected in wells MW-2D and MW-9D. The total BTEX concentration reported in MW-2D was 85 µg/L, and in MW-9D was 13 µg/L. These concentrations were notably higher than the total BTEX concentrations detected in the October 2009 samples from these wells.

6.7.2.2 SVOCs

During the October 2009 sampling event, PAH compounds were detected in two of the 7 deep overburden wells sampled: MW-2D and MW-10D. The total PAH concentration detected at MW-10D was 0.21 µg/L, with no individual compound exceeding the guidance values. The total PAH concentration detected at MW-2D was 137.42 µg/L. In this sample, naphthalene (100 µg/L) exceeded the groundwater guidance value of 10 µg/L and Benzo(a)anthracene (0.20J µg/L) exceeded the guidance value of 0.002 µg/L. No other SVOC compound exceeded groundwater standards or guidance values in this sample.

During the July 2010 sampling event, PAH compounds were again detected in the sample from well MW-2D with a total PAH concentration of 130.72 µg/L. Naphthalene (98 µg/L) again exceeded the guidance value (10 µg/L) in this sample. The only other SVOC detected at a concentration which exceeded the groundwater guidance value was phenol in MW-2D (11 µg/L).

6.7.2.3 Total cyanide and metals

Total cyanide was not detected in any of the deep overburden groundwater samples. Iron, manganese and sodium were reported at concentrations greater than relevant water quality standards or guidance values in many of the groundwater samples. The following RCRA Metals were detected above relevant groundwater standards: arsenic in MW-8D (40.4 ug/l in October 2009 and 27.3 ug/l in July 2010), chromium in MW-2D (1450 ug/l in October 2009), nickel in MW-4D (152 ug/l in October 2009 and 398 ug/l in July 2010), and lead in MW-8D (29 ug/l in July 2010).

6.7.3 Bedrock groundwater analytical results

During the October 2009 sampling event, groundwater samples were collected from eight (8) monitoring wells across the study area installed in bedrock. During the July 2010 sampling event, 11 bedrock wells were sampled including the 8 original wells and 3 new wells installed in 2010. The results of the groundwater sampling are summarized on Figure 15c. As stated above, groundwater samples were not collected from bedrock wells MW-1B, MW-5B, MW-7B, MW-12B, MW-14B, MW-19B and MW-23B due to the presence of coal tar in the wells.

6.7.3.1 VOCs

During the October 2009 sampling event, BTEX compounds were detected in one of the 8 bedrock wells sampled: MW-11B. The total BTEX concentration detected in well MW-11B was 12.48 µg/L. Benzene was detected in the sample from MW-11B at a concentration of 3.0 µg/L, which exceeded the groundwater standard of 1.0 µg/L, and toluene was detected in the sample at a concentration of 5.3 µg/L which exceeded the groundwater standard of 5.0 µg/L. No other VOCs were detected in any of the wells above groundwater standards.

During the July 2010 sampling event, BTEX compounds were again detected in well MW-11B. The total BTEX concentration reported in MW-11B was 25.3 µg/L. In this sample, benzene (1.8 µg/L), toluene (9.7 µg/L) and total xylenes (12 µg/L) were detected above their relevant groundwater standards. The only other VOC detected at a concentration which exceeded the groundwater standard was styrene, in MW-7B.

6.7.3.2 SVOCs

During the October 2009 sampling event, PAH compounds were detected in five of the 8 bedrock wells sampled: MW-2B, MW-3B, MW-11B, MW-13B and MW-20B. The total PAH concentrations detected in these wells ranged from 0.32 µg/L (MW-2B) to 1.69 µg/L (MW-11B). None of the individual PAH compounds detected in the five samples exceeded applicable groundwater guidance values. The only other SVOC detected at a concentration which exceeded the standard was Phenol in MW-20B (19 µg/L).

During the July 2010 sampling event, PAH compounds were detected in four of the 8 bedrock wells sampled: MW-2B, MW-7B, MW-11B and MW-20B. The concentrations detected in samples MW-2B and MW-20B were similar to the October 2009 results. The total PAH concentration detected in sample MW-7B was 298.75 µg/L, whereas PAHs were not detected in this well during the October 2009 event. In this sample, naphthalene (140 µg/L), benzo(a)anthracene (1.0 µg/L), and chrysene (1.1 µg/L) exceeded applicable groundwater guidance values. The total PAH concentration detected in sample MW-11B (38.47 µg/L) also was an appreciable increase from the concentration detected in October 2009 (1.69 µg/L), although only benzo(a)anthracene (1.0 µg/L), benzo(b)fluoranthene (0.55 µg/L), and chrysene (0.84 µg/L) slightly exceeded their applicable groundwater guidance values. The two other SVOCs detected at concentrations exceeding applicable groundwater guidance values were phenol in MW-3B (1.3 µg/L) and 2,6-dinitrotoluene in MW-11B (9.6 µg/L).

6.7.3.3 Total cyanide and metals

Total cyanide was not detected in any of the groundwater results. The following RCRA Metals were detected above relevant groundwater standards: arsenic in MW-3B (26 ug/l in October 2009 and 27.1 ug/l in July 2010), chromium in MW-8B (76.9 ug/l in July 2010), nickel in MW-8B (117 ug/l in July 2010), cadmium in MW-8B (5.2 ug/l in October 2009 and 5.9 ug/l in July 2010), and lead in MW-8B (55.7 ug/l in July 2010).

6.8 Soil vapor intrusion results

Soil vapor and ambient air samples were collected at the Site during November 2008. Analytical results for the air samples are summarized in Table 21. The NYSDOH Guidance does not provide background values for VOCs in soil vapor for comparison to Site-specific results for soil vapor samples. However, indoor air background values can be used for conservative comparisons. The sample results were compared to a database of typical background indoor air concentrations from fuel oil heated homes in New York State that was compiled by the NYSDOH in 2003, and revised in 2005. Using this data, background values have been established, which are expressed as statistical values in the tables. The “75th percentile” value indicates that 75% of the background indoor air concentrations were below that value. Where a concentration is greater than the 75th percentile concentration listed on the tables, the concentration is highlighted with yellow shading. Where a concentration is greater than the 90th percentile concentration listed on the tables, the concentration is highlighted with green shading.

As shown on Table 21, styrene, was detected at a concentration of $0.66 \mu\text{g}/\text{m}^3$ in soil vapor sample SV3, which was greater than the 75th percentile value of $0.64 \mu\text{g}/\text{m}^3$. No other BTEX compounds were detected at concentrations greater than the 75th percentile values in any of the samples collected at the Site.

Carbon Tetrachloride was detected in the ambient air samples at concentrations of $1.1 \mu\text{g}/\text{m}^3$. This concentration is greater than the 90th percentile value of $0.81 \mu\text{g}/\text{m}^3$. Carbon Tetrachloride is a solvent that is used commercially as a refrigerant and as a dry cleaning solvent. This compound is not typically associated with MGP-related impacts.

The following compounds were also detected in the soil vapor samples at concentrations greater than the corresponding 75th percentile values.

- Chloroform – $1.2 \mu\text{g}/\text{m}^3$ in SV1, $3.6 \mu\text{g}/\text{m}^3$ in SV3, and $3.5 \mu\text{g}/\text{m}^3$ in SV4
- Trichlorofluoromethane (Freon 11) – $8.6 \mu\text{g}/\text{m}^3$ in SV2
- Tetrachloroethene (PCE) - $1.2 \mu\text{g}/\text{m}^3$ in SV3 and SV4

Although several VOCs were detected in both the soil vapor and ambient air samples at concentrations slightly greater than the respective 75th percentile values, these results are likely representative of background conditions and are not indicative of MGP-related impacts.

7.0 Qualitative Human Health Exposure Assessment

This section integrates the data and information obtained during the investigation in order to perform a qualitative assessment of the potential for human exposure to MGP-related residuals. This assessment was performed by identifying potential sources, migration routes for the coal tar discussed in Section 5, potential receptors, and potential exposure pathways at, and in the vicinity of the Site. The assessment follows guidelines specified in the “*NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation*” [NYSDEC, 2010].

7.1 Site setting

The former MGP site is located in a semi-urban area of Granville, Washington County, New York, just west of the Vermont border (See Figure 1). The Site is located on NYSEG property. During the RI, field investigation activities were conducted on the Site and NYSEG property that surrounds the Site. Investigation activity was also conducted on the recreational path parcel to the east of the Site, within the Mettowee River, and on the American Legion and Granville Little League properties that abut the west side of the Mettowee River. The physical setting of these four areas is described in Section 2.1, and is summarized below.

7.1.1 Former MGP Site and NYSEG property

This parcel is generally characterized as mainly a mixture of forest and brush/scrub land. A crushed-stone driveway enters and encircles the Site and the gas holder foundation of the former MGP site. There is some open land on the Site as a result of clearing for equipment access to conduct the RI. The NYSEG Operating Center and an adjoining open (mowed) lot are located at the northern end of this parcel. The land use for the NYSEG parcel is considered commercial/industrial. RI field investigations conducted in this area included the installation and sampling of test pits, soil borings and monitoring wells, and the collection of soil vapor samples.

7.1.2 Mettowee River

The Mettowee River abuts the Site to the west and flows in a northwesterly direction. RI field investigation activity in this area included the collection of surface sediment samples and the collection and analysis of subsurface soil samples from below the bed of the river.

7.1.3 Recreational field parcel – west of the river

The parcel west of the Mettowee River is characterized by recreational ball fields. There is a small pavilion equipped with two picnic tables and a sheltered fire pit located in this area, along the bank of the river. This area is categorized as a recreational land use. RI field investigation activity in this area included collection and analysis of surface and subsurface soil samples and groundwater samples.

7.1.4 Recreational path – east of the Site

To the east of the Site is the former Delaware and Hudson railroad right-of-way. The rail tracks have been removed from this area, and the right-of-way has been redeveloped as a recreational path for biking and walking. This area is categorized as recreational. RI field investigation activity in this area included collection and analysis of surface and subsurface soil samples and groundwater samples.

7.2 Exposure assessment

Exposure is the process by which humans come into contact with chemicals in their environment. Humans can be exposed to chemicals in a variety of environmental media including surface soil, subsurface soil, sediments, groundwater, and air. Exposure to these media can occur through several routes including ingestion, dermal contact, and inhalation. The exposure assessment identifies pathways by which humans are potentially exposed to constituents of concern (COC) for a site. For this Site, COC are referred to as coal tar. The assessment includes the following:

- Development of a conceptual site model;
- Discussion of potential sources;
- Evaluation of data using health-based screening criteria;
- Discussion of potential release mechanisms; and
- Identification of potential human receptors and receptor-specific exposure pathways.

7.2.1 Conceptual site model

Table 22 presents the conceptual site model for the investigation area. The figure details the known or potential sources of coal tar, the identified release mechanisms, and the affected source media. The potential migration pathways, the potential exposure media, and the potential exposure routes are also identified. The exposure routes are considered potential unless there is an ongoing or documented exposure.

7.2.2 Potential sources of residuals

The sources of environmental impact for the investigation area are residual materials associated with the former MGP-related structures. The extent of coal tar on the NYSEG property extends from the former MGP site north the berm and ends south of the existing NYSEG Operating Center.

Subsurface soil sampling identified an apparent contiguous zone of coal tar impacted soil beneath the river extending northwest of the Site. Test boring data indicates the coal tar impacts are located at an average depth of about 3 feet below the river bed. The coal tar impacts beneath the river are confined to the glacial outwash gravel unit and do not extend deeper than about 6 feet below the bed of the river. This zone of impact was found to extend downstream about 500 feet northwest of the Site

Coal tar impacts in the glacial outwash gravel unit were identified to extend a relatively short distance to the west of the river beneath the pavilions on the Little League property. The coal tar in this area is also confined at to a depth interval of about 10 to 12 feet bgs in this area.

No significant levels of MGP-related impacts were detected in surface sediment samples collected in the Mettowie River, and any detected concentrations were less than relevant NYSDEC sediment screening criteria. Historical surface water sampling conducted in the Mettowie River by NYSEG prior to the RI did not identify MGP-related impacts to surface water quality. In addition, surface water elevation gauging during the RI indicates that there is little if any discharge of groundwater to the Mettowie River in the vicinity of the Site. Based on this, potential for Site-related MGP residuals to impact environmental media of the river are not considered to be significant.

MGP-related volatile and semi-volatile organic compounds in impacted subsurface soil appear to have leached to groundwater in localized areas nearby impacted soil.

Coal tar impacts were not identified in surface or subsurface soil on the former railroad bed that has been restored as a recreational path. Although elevated PAH concentrations were detected in surface soil samples collected along the recreational path, the highest concentrations were detected at background locations. This area is the abandoned Delaware and Hudson railroad right-of-way. It is therefore expected that the elevated PAH levels in this area reflect artifacts of historical operation of the railroad and not those of the MGP site.

7.2.3 Potential release mechanisms

There are several potential release mechanisms by which the constituents identified in the soil and groundwater may be transported to other media. Each mechanism is considered for the identified media and potential receptor group. Potential release mechanisms for soil include the following;

- **Leaching.** Coal tar or MGP-related constituents in surface or subsurface soil could potentially leach to groundwater. Leaching is the primary mechanism by which these constituents could potentially be released at the former MGP site.
- **Volatilization.** Volatile constituents may potentially be transported from subsurface soil by volatilizing into soil-pore space and eventually diffusing into ambient or indoor air; and,
- **Fugitive dust.** Constituents in subsurface soil could be present in fugitive dust which is released via physical disturbance.

The main mechanism for the potential release of coal tar residuals from soil is leaching to groundwater. The three mechanisms by which constituents in groundwater can be transported to other media include:

- **Adsorption.** Constituents in groundwater may be sorbed onto subsurface soils;
- **Volatilization to Ambient Air.** Volatile constituents in groundwater may potentially desorb into soil gas and be transported into ambient or indoor air; and
- **Extraction.** Constituents in groundwater may migrate to other media by extraction and use of impacted groundwater. As discussed in Section 2.1.1 above, groundwater is not used at the Site and Granville's well field is located southeast and presumably upgradient of the Site.

Each of these potential release mechanisms is evaluated for each potential receptor group in Table 22.

7.2.4 Potential human receptors and exposure pathways

This section discusses the identified potential receptors and the potential that the receptor may be exposed to Site-related residuals.

7.2.4.1 NYSEG Property Receptors

Outdoor Maintenance Workers. Outdoor maintenance workers may potentially be exposed to coal tar or MGP-related constituents of concern (COC) in surface soil via direct contact pathways including incidental ingestion, dermal contact, and inhalation of volatiles or particulates while performing maintenance activities such as lawn mowing, brush cutting and other landscape maintenance activities. Heavy maintenance activities requiring deep subsurface excavation could also result in

exposure to Site COCs in subsurface soil via direct contact pathways including incidental ingestion, dermal contact, and inhalation of volatiles or particulates. Since typical outdoor maintenance activities do not involve subsurface excavations and MGP-related impacts were not observed in surface soils, the potential for exposure is considered to be low.

Outdoor Subsurface Utility Workers. Outdoor subsurface utility workers may potentially be exposed to COCs in surface and subsurface soil and groundwater via incidental ingestion, dermal contact, and inhalation of volatiles or particulates if deep subsurface excavation work is needed to install underground utility lines or equipment on the NYSEG property. Only properly trained and equipped field personnel should complete subsurface utility or repair work in these impacted areas using methods specified in a Site-specific health and safety plan (HASP) until the areas have been cleared of impacted materials.

Occasional Trespassers. Individuals utilizing the adjacent walking path could access the property and be exposed to COCs in surface soil via incidental ingestion or dermal contact. However, because the majority of Site residuals are in the subsurface, and most occasional trespassers would have minimum interaction with subsurface soil, the potential for exposure is considered to be low.

7.2.4.2 Mettowiee River

The potential for Site-related MGP residuals to impact environmental media of the river are not considered to be significant because there is no significant discharge of groundwater to the river in the area of the Site. Based on this, the potential for exposure to Site-related COCs by fisherman and recreationalists that use the river for swimming, wading and boating (canoeing) is considered to be low.

7.2.4.3 Recreational fields west of the Mettowiee River

Site-related impacts are confined to subsurface soil in the area of the pavilions between depths of about 10 and 12 feet bgs. The potential for exposure to the Site-related COCs at depth in this area by recreationalists and by maintenance workers is considered to be low.

7.2.4.4 Recreational path – east of Site

Elevated PAHs detected in surface soil in this area are considered to reflect background soil conditions associated with historical operations of the railroad and not MGP-related impacts. Therefore, the potential for exposure to Site-related COCs in this area is considered to be low.

8.0 Summary of Fish and Wildlife Impact Analysis

As specified in the RI Work Plan, the need to perform a Fish and Wildlife Impact Analysis (FWIA) was discussed with NYSDEC following completion of the RI field investigation. In October, 2010, NYSDEC Division of Fish and Wildlife staff requested NYSEG to conduct a FWIA for the Site. Therefore, a FWIA was prepared according to NYSDEC guidance document *Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites* [NYSDEC, 1994] (NYSDEC Guidance) for the Site. This section provides a summary of the findings of the FWIA. The complete FWIA report is presented in Appendix G.

The purpose of a FWIA is to evaluate ecological impacts in areas contaminated with hazardous waste. The FWIA focuses on the potential exposure of ecological resources to Site-related contaminants of concern (COCs) on the Site and within 0.5-miles of the Site. Steps I through IIB of the NYSDEC Guidance were addressed in the FWIA and included the following:

- **Step I – Site Description**
Includes site maps, a description of fish and wildlife resources, and a description of fish and wildlife resource value, and an identification of applicable fish and wildlife regulatory criteria;
- **Step IIA – Pathway Analysis**
Includes fish and wildlife resources, COCs, sources of COCs and potential pathways of COC migration and exposure; and
- **Step IIB – Criteria-Specific Analysis**
Includes summary of analytical tables, groups COCs by metals, SVOCS and VOCs, summarizes COCs that exceeded screening values in surface soils and provides a list of COCs to be retained for further evaluation.

To further illustrate the characteristics of the Site and the surrounding area, the following figures are included in the FWIA in Appendix G:

- Figure 1 (Appendix G)- Topographic map identifying area within two miles of the Site perimeter and depicts the following:
 - Location of site
 - Site perimeter
 - Document fish and wildlife resources
- Figure 2 (Appendix G)- Cover type map on available aerial imagery depicting the area within 0.5-miles of the Site
- Figure 3 (Appendix G)- Drainage map depicting off-site drainage on and in proximity of the Site
- Figure 4 (Appendix G)- Drainage map depicting on-site drainage patterns

As depicted on the figures, the Site is characterized by open (mowed) land, upland forest, floodplain associated with the Mettowie River, and the Mettowie River itself. There are no non-regulated wetlands, nor were any NYS-regulated wetlands and/or National Wetland Inventory (NWI) wetlands

present on the Site, although these resources were present within 0.5 miles of the Site. Land uses within 0.5 miles of the Site include residential, agricultural, forested, recreational and open land. Commercial and industrial land uses associated with the Granville Town Center are located south of the Site.

Dominant vegetation on the Site includes silver maple (*Acer saccharinum*), box elder (*Acer negundo*), sycamore (*Platanus occidentalis*), cottonwood (*Populus deltoids*), slippery elm (*Ulmus rubra*), and white pine (*Pinus strobus*), red raspberry (*Rubus idaeus*), the invasive tartarian honeysuckle (*Lonicera tatarica*), common burdock (*Arctium minus*), common mullein (*Verbascum thapsus*), field mustard (*Brassica rapa*) and goldenrod species (*Solidago sp.*). The forested area of the Site can be considered good habitat for wildlife, bird, reptile and amphibian species. Several species known or expected to use the Site include the following:

- American crow (*Corvus brachyrhynchos*)
- American robin (*Turdus migratorious*)
- Downy woodpecker (*Picoides pubescens*)
- Pileated woodpecker (*Dryocopus pileatus*)
- European starling (*Sturnus vulgaris*)
- Wild turkey (*Meleagris gallopavo*)
- Coyote (*Canis latrans*)
- Deer mouse (*Peromyscus maniculatus*)
- Eastern chipmunk (*Tamias striatus*)
- Eastern cottontail (*Sylvilagus floridanus*)
- Eastern gray squirrel (*Sciurus carolinensis*)
- Opossum (*Didelphis marsupialis*)
- Raccoon (*Procyon lotor*)
- Red squirrel (*Tamiasciurus hudsonicus*)
- Striped skunk (*Mephitis mephitis*)
- Whitetail deer (*Odocoileus virginianus*)
- Red-spotted newt (*Notophthalmus viridescens*)
- Spring peeper (*Pseudacris crucifer*)
- Eastern garter snake (*Thamnophis sirtalis*)
- Alewife (*Alosa pseudoharengus*)
- Brook trout (*Salvelinus fontinalis*)
- Mountain brook lamprey (*Ichthyomyzon greeley*)

Consultation with the NYS Natural Heritage Program indicated that no records of rare or state-listed animals or plants, significant natural communities or other significant habitats exist on or in the immediate vicinity of the Site. Additionally, review of the United State Fish and Wildlife (USFWS) website revealed that there are no federally listed plant or animal resources on or in immediate vicinity of the Site.

Step IIA of the NYSDEC Guidance is a Pathway Analysis that identifies potential migration pathways for site-related constituents and exposure pathways for potential fish and wildlife species and ecological communities in the area. The Pathway Analysis for the Site includes information regarding the following:

- Identification of Potential Habitats and Ecological Resources;
- Determination of Contaminants of Concern;

- Potential Contaminant Sources; and
- Relevant Transport and Exposure Pathways

As described above, the forested area of the Site is considered good habitat for wildlife, bird, reptile and amphibian species.

The list of COCs for the Site includes constituents associated with coal tar resulting from historical operation of the former MGP. These COCs include PAHs, BTEX, metals and cyanide. Accordingly, samples of the environmental media of potential concern were analyzed for these COCs. The environmental media tested during the RI included surface soil, groundwater and, surficial sediment in the Mettowie River.

As described in earlier sections of this report, the RI sampling identified Site-related coal tar impacts present in subsurface soil. These impacts are generally confined to the bottom of the glacial outwash gravel unit, at an average depth interval of about 10 to 12 feet bgs, at locations both on the Site and on the recreational property west of the river. Considering the impacts are buried at depth, they do not pose an exposure risk to ecological receptors.

Analytical results of sediment samples collected in the Mettowie River during the RI identified that surficial sediments are not significantly impacted with COCs. PAHs were detected in only 10 of 40 surface sediment samples analyzed, and five of these ten samples were background samples collected from locations upstream of the Site. Furthermore, the reported concentrations of all detected PAHs were less than relevant NYSDEC sediment screening criteria. Historical surface water sampling conducted in the Mettowie River by NYSEG prior to the RI did not identify MGP-related impacts to surface water quality. In addition, as discussed previously, surface water elevation gauging during the RI indicates that there is little if any discharge of groundwater to the Mettowie River in the vicinity of the Site. Based on this, potential for Site-related MGP residuals to impact environmental media of the river are not considered to be significant.

As described earlier, surface soil samples collected on Site and along the recreational path near the eastern Site boundary during the RI exhibited elevated levels of PAHs and metals, with a few compounds slightly exceeding Part 375 Commercial Use SCOs. As a result, the FWIA carried the surface soil results through a Step IIB (Criteria-Specific) Analysis. The analysis included screening the sample results against Part 375 SCO's for Protection of Ecological Resources. The screening threshold criteria were exceeded for 3 metals and 5 PAHs at one or more sampling locations. These exceedances indicate that surface soil exposure may present a potential risk of adverse effects to ecological receptors. However, such a screening exceedance does not mean that an adverse effect will occur, only that a screening criteria has been exceeded. It is also important to note that there is uncertainty as to the origin(s) of the elevated PAH and metals concentrations in the samples. While these analytes could reflect MGP related impact, they also could be attributed to historic fill and prior operation of the recreational path as a railway.

The full FWIA is included in Appendix G.

9.0 Summary and Conclusions

The RI of the Granville Former MGP Site was completed in three general phases of field work, which were completed between November 2008 and August 2010. The RI was conducted in general accordance with the RI Work Plan, dated August 2008 [ENSR/AECOM, 2008a]. The purpose of the RI was to complete the environmental characterization of the Site, collect the data necessary to determine the limits of MGP-related impacts in the environmental media, and to complete a human health exposure assessment and fish and wildlife impact analysis. RI field investigations included the collection and analysis samples of surface and subsurface soil, sediments in the Mettowee River, on-site soil vapor, and groundwater in three water-bearing zones. The primary findings of the RI are summarized below.

9.1 Site geology

The geology at the Site is comprised of unconsolidated deposits of glacial and post-glacial origin overlying Middle Ordovician-age slate bedrock of the Normanskill Group. The thickness of unconsolidated deposits at the Site was found during the RI to range from zero (0) to over 70 feet.

Six unconsolidated stratigraphic units were identified at the Site, and are summarized in order of increasing depth as follows:

Fill: A layer of historic fill material is observed on Site and east of the site on the recreational path. The fill material is comprised of re-worked brown fine to medium sand, little gravel, and trace glass and brick fragments, ash, metal, concrete, slag and cinders.

Gravelly Sand: The gravelly sand unit is derived from fluvial and alluvial processes associated with geologically recent deposition along the Mettowee River. This unit consists primarily of brown fine to coarse sand with trace to little gravel and was observed to range in thickness from 4 to 14 feet.

Gravel: The gravel unit is derived from glacial outwash deposition as opposed to the overlying recent fluvial and alluvial deposits. The unit consists primarily of brown coarse to fine grain gravel with some coarse to medium grain sand was observed to range in thickness from 2 to 9 feet.

Silty Sand: The silty sand unit is derived from glacial lacustrine deposition. Where present the unit consists primarily of brown to gray fine sand with some silt and little clay. The occurrence of this unit is fairly widespread across the Site, and was observed to range from 2 to 8 feet thick.

Silty Clay: In association with the overlying silty sand layer, the silty clay unit is also derived from glacial lacustrine deposition. The unit consists primarily of firm moist to wet gray silty clay. This unit is widespread laterally across RI study area, except in the immediate northeast side of the Site where it is pinched out by shallow underlying bedrock. Where present the unit was measured to range in thickness up to 30 feet.

Sand and Gravel: The sand and gravel unit consists primarily of gray fine sand with some coarse to medium sand and gravel and frequent red and dark gray slate fragments. The unit constitutes a sandy glacial till deposit. The unit is very firm and moist with a thickness ranging from 4 to 12 feet. The sand and gravel directly overlies the slate bedrock.

9.2 Site hydrogeology

Two groundwater flow systems exist in the unconsolidated deposits, above a fractured bedrock water-bearing zone. Unconfined (water table) groundwater conditions exist in the shallow overburden (outwash gravel) stratigraphic unit. A confined water-bearing zone exists in the deep overburden sand and gravel (glacial till unit). The glacial lacustrine silty sand and silty clay units are anticipated to collectively form a semi-confining aquitard between the shallow and deep overburden water-bearing zones. The deep overburden water-bearing zone is likely to exist under unconfined conditions where the semi-confining layer is absent. Groundwater is also present in open fractures in the bedrock. This water-bearing zone is also considered to be under confined conditions, except that it is potentially under unconfined conditions where bedrock is shallow and the semi-confining layer is absent.

The water table is present between about 6 and 12 feet bgs. The water table gradient is about 0.003 ft/ft. and the unconfined groundwater flows from the southeast towards the west or northwest in the shallow system. Groundwater in the deep overburden water-bearing zone flows from the southeast to the northwest under a horizontal gradient of about 0.0015 ft/ft. Surface water flow in the Mettowie River follows the same general flow direction from the southeast to the northwest.

Hydraulic connection was found to exist between the water table and the Mettowie River in the study area, although the gradient was found to be predominantly positive (or non-existent) from surface water to groundwater, indicating that groundwater discharge to surface water is insignificant, if it occurs at all.

9.3 Nature and extent of MGP impacts

Coal tar contains many organic compounds, a number of which have toxic properties and are regulated by the NYSDEC. These compounds include benzene, toluene, ethyl benzene, and xylenes (BTEX), and a more general class of organic compounds known as polycyclic aromatic hydrocarbons (PAHs). Laboratory analysis of samples of environmental media for these constituents, along with visual observations and screening of the media during RI sampling has resulted in the adequate characterization of the nature and extent of MGP-related impacts at the Site. A summary of the nature and extent of the MGP-related impacts in the various environmental media tested, including surface and subsurface soil, sediment, groundwater, and soil vapor, are presented below.

9.3.1 Subsurface soil and bedrock

During the RI, residuals from former MGP operations were observed in subsurface soils at the Site, and extending under the bed of the Mettowie River, as well as in localized areas in bedrock. The MGP coal tar residuals were found in soil and bedrock in various forms, including hydrocarbon odor and sheens, NAPL staining and blebs, and full NAPL saturation in areas. Coal tar impacts are most widespread and significant at the base of the outwash gravel unit, on top of the silty sand or clay glacial lacustrine unit. The RI data indicates that in general the silty sand and silty clay units serve as a confining layer, where present, to inhibit downward migration of the MGP residuals.

MGP impacts in the shallow overburden unit are most significant in the vicinity of the gas holder foundation and former MGP Site operations area just north of the gas holder. In this area, many borings encountered zones (pockets, seams, lenses) of coal tar NAPL, and frequent evidence of NAPL saturation across thicknesses of 3 feet or more, and generally was present within a depth range of 8 to 14 feet below grade. Coal tar impacts were found to terminate abruptly in the shallow overburden directly north of the former MGP Site, where the bedrock surface becomes shallow and the semi-confining layer beneath the outwash gravel was found to pinch out. This data indicates that

the absence of the semi-confining layer in this area may provide a local pathway for coal tar impacts to seep downward to the underlying glacial till sand and gravel and to reach bedrock.

From the former MGP Site, the zone of observed coal tar impacts in the shallow overburden also extends off-site in a northwestern direction. From the RI test boring data, a contiguous zone of coal tar impacts, that is confined to the base of the outwash gravel unit, is inferred to extend northwest (beneath the Mettowee River) a distance of about 500 feet from the Site. From there the zone extend about 300 feet further in a northward direction towards the NYSEG Operating Center (see Figure 13b). In general, the zone of impact continually thins from the Site source area to the downgradient terminus, where impact thickness was observed to be less than 1 foot. The depth of impact at the terminus was about 10 to 11 feet below grade. The depth to the top of the coal tar impact beneath the bed of the Mettowee River was at least 1 foot, and in most borings was 3 or more feet deep. In general, the width of this coal tar impact zone varies from about 100 to 200 feet. The zone was found to extend a relatively short distance onto the Granville Little League property on the west side of the Mettowee River.

Coal tar impacts were observed in the deep overburden (glacial till sand and gravel) unit at only seven (7) boreholes. This demonstrates that MGP impacts in the deep unit are localized and isolated, and further demonstrate that the glacial lacustrine silty sand/silty clay unit serves as a semi-confining layer to restrict the downward migration of the MGP residuals. The observation of isolated coal tar saturation in the deep overburden to the south of the gas holder without similar impacts in the unit immediately adjacent to the gas holder indicate:

1. There could be a localized breach in the semi-confining layer somewhere near the gas holder foundation; and/or,
2. The impacts observed in these borings resulted from discharge from impacted bedrock fractures immediately upgradient of the borings.

Coal tar impacts were observed in the bedrock at borings located along an axis extending northward from the gas holder foundation. This axis extends southward generally parallel with the bedrock strike direction, from the area where the silty sand/silty clay semi-confining layer in the overburden pinches out on shallow bedrock. The data indicates that the coal tar has seeped downward to the bedrock in the area where the semi-confining layer is absent, and then has spread laterally along strike within fractures to the north and south. Recoverable coal tar was identified in bedrock well MW-5B during the RI.

Two deep bedrock wells were drilled to the east of the Site, on the recreational path, in attempt to target the impacted bedrock fracture(s) on the Site, further down the eastward approximate 60 degree dip angle. Some hydrocarbon sheen and odor was observed in the core for well MW-11B at a depth of 139 to 141.5 feet below grade, indicating that some migration of MGP impact may occur down the bedding plane fractures.

9.3.2 Surface soil

No BTEX compounds were detected in any of the onsite or offsite surface soil samples. Relatively low and generally consistent levels of PAH compounds were detected in all surface soil samples collected during the RI, with some of the individual PAH compounds exceeding Part 375 Commercial Use SCOs. The total PAH concentrations in the samples ranged from 0.1618 mg/Kg to 45.94 mg/Kg. The PAH concentrations were in general highest at locations on the recreational path, both

immediately along the eastern side of the Site, as well as at background locations to the north and south of the Site. The metals results of surface soil samples collected during the RI were generally all compliant with Part 375 Commercial Use SCOs. Arsenic in sample SF06, collected along the recreational path, was detected at an estimated (J qualified) concentration of 18.6 mg/kg which slightly exceeded the SCO of 16 mg/kg. No other metal results exceeded applicable Commercial Use SCOs.

There is uncertainty as to the origin(s) of the elevated PAH and metals concentrations in the on-site surface soil samples as they were all collected on or near the adjoining recreational path. While these analytes could reflect MGP related impact, they also could be attributed to historic fill and prior operation of the recreational path as a railway.

9.3.3 Sediment

No BTEX compounds were detected in any of surface sediment samples collected at the Site. PAH compounds were detected in 16 of the 39 Site Area surface sediment samples. Total PAH concentrations ranged from 0.007 mg/Kg to 1.66 mg/Kg. One Site Area sample (SD27) had two PAH compound detected slightly above the ERL screening standard, including benzo(a)anthracene (0.35 mg/Kg), and chrysene (0.44 mg/Kg). The location of the SD27 sample point (at the base of the stone wall above the river water line) is potentially more representative of surface or subsurface soil than of river sediment, and therefore does not indicate significant concern of sediment impact. PAH compounds were also detected in over one-half of the Background Area surface sediment samples, collected upstream of the Site.

9.3.4 Groundwater

In general, MGP-related impacts to groundwater were observed in wells located within or immediately adjacent to areas of coal tar impacts. In these areas, BTEX and PAH compounds were detected at concentrations appreciably above their respective groundwater standards. Wells located distances of less than 100 feet from the limit of coal tar impact zones, even in a downgradient direction, typically did not exhibit exceedances of groundwater standards and guidance values. Overall, the groundwater data indicates that the coal tar impacted zones have not caused a significant impact to downgradient dissolved-phase groundwater quality.

9.3.5 Soil vapor

Although several VOCs were detected in both the soil vapor and ambient air samples at concentrations slightly greater than the respective 75th percentile values, these results are likely representative of background conditions and are not indicative of MGP-related impacts.

9.4 Human health exposure assessment

The qualitative human health exposure assessment was performed to identify potential sources, migration routes for Site-related impacts, potential human receptors and potential exposure pathways at and in the vicinity of the Site. The assessment was conducted following guidelines specified in the "NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation" [NYSDEC, 2010].

The sources of environmental impact for the investigation area are residuals associated with the former MGP-related structures. The nature and extent of coal tar impacts, as described above, were used as the basis to determine the potential for exposure to human receptors on the NYSEG property, Mettowie River, and the recreational property to the west of the river and the recreational path to the east of the Site.

Potential human receptors associated with the NYSEG property were found to include outdoor maintenance workers, subsurface utility workers and occasional trespassers. Subsurface utility workers may potentially be exposed to COCs in surface and subsurface soil and groundwater via incidental ingestion, dermal contact, and inhalation of volatiles or particulates if deep subsurface excavation work is needed to install underground utility lines or equipment on the NYSEG property. Only properly trained and equipped field personnel should complete subsurface utility or repair work in these impacted areas using methods specified in a Site-specific health and safety plan (HASP) until the areas have been cleared of impacted materials.

Exposure pathways to Site-related impacts during recreational use of the Mettowie River, the recreational property west of the river, and the recreational path to the east of the Site were found to be incomplete. Based on this, the potential for exposure to maintenance workers, occasional trespassers, recreationalists and pedestrians in these areas, as well as anglers and recreational swimmers/waders using the river, is considered to be low.

9.5 Fish and Wildlife Impact Analysis

In October, 2010, NYSDEC Division of Fish and Wildlife staff requested NYSEG to conduct a Fish and Wildlife Impact Analysis (FWIA) to evaluate the potential for ecological impacts from MGP-related impacts at the Site. Therefore, a FWIA was prepared for the Site according to NYSDEC guidance document *Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites* [NYSDEC, 1994]. Steps I through IIB of the NYSDEC Guidance were addressed in the FWIA (Appendix G). The FWIA did not identify Site-related impacts to surface water and sediment in the Mettowie River that would pose an exposure risk to ecological receptors. Surface soil may present a potential risk of adverse effects to ecological receptors because 3 metals and 5 PAHs had surface soil concentrations high enough to exceed ecological risk-based screening criteria in at least one site sample location. Such a screening exceedance does not mean that an adverse effect will occur; only that a screening threshold has been exceeded.

9.6 Coal tar extraction

Automated coal tar recovery systems were installed and operated on wells MW-5B and MW-18S. A total of 54 gallons of coal tar was extracted from MW-5B and 24 gallons was extracted from well MW-18S before the recovery systems were shut down in December 2009.

As discussed in Section 5.1, the absence of the semi-confining layer on the north side of the MGP Site (near TB-82 and TB-30) may present a localized migration pathway for coal tar to seep downward from the shallow overburden into bedrock. If this pathway exists as the data suggests, there is potential for coal tar extraction from bedrock wells at the Site to increase coal tar migration to bedrock. Based on this, it is AECOM's opinion that coal tar extraction from bedrock wells at the Site is not advisable until remedial action alternatives to address coal tar impacts in the shallow overburden are determined.

The recovery system installed in well MW-18S was used to extract coal tar from the base of the shallow overburden (glacial outwash gravel unit). Review of Figure 13b shows that MW-18S is located over 300 feet downgradient (northwest) of the gas holder foundation, and within an apparent relatively widespread contiguous zone of coal tar impact residing at the base of the gravel unit. Based on the anticipated volume of coal tar in this zone, AECOM believes coal tar extraction from this single well will accomplish no appreciable reduction in the mass of coal tar in this zone. Furthermore, the results of the RI did not identify significant impacts to surface sediment in the Mettowie River, and surface water and groundwater elevation monitoring indicate there is not significant potential for coal tar

impacts in the shallow overburden zone to be discharged to the river. Accordingly, it is AECOM's opinion that extraction of coal tar from MW-18S is not warranted until remedial action alternatives to address coal tar impacts in the shallow overburden are determined.

10.0 Recommendations

With the observations and data presented in this report, NYSEG has performed an evaluation of conditions on the site, and thereby adequately fulfilled the requirements for a Remedial Investigation as outlined in the Order on Consent, and the NYSDEC Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10). A Feasibility Study (FS) will be prepared to identify and evaluate potential remedial alternatives to address the MGP-impacted media identified at the site.

11.0 References

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TABLES

Table 1
RI Sample Summary and Rationale
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Granville, New York

Sample ID	Rationale or Location	Completion Depth	Laboratory Sample Depth (Feet bgs)	No. of Samples	Laboratory Analyses
Surface Soil Samples					
SF-6	To assess surface soil conditions between the coal bins and the recreational path.	0-2 inches bgs	0-2 inches bgs	1	VOC SVOC Metals Total CN
SF-7	To assess surface soil conditions between the coal bins and the recreational path.	0-2 inches bgs	0-2 inches bgs	1	VOC SVOC Metals Total CN
SF-8	To assess surface soil conditions between the coal bins and the recreational path.	0-2 inches bgs	0-2 inches bgs	1	VOC SVOC Metals Total CN
SF-9	To assess surface soil conditions between the west bank of the Mettowiee River and the Little League Recreational fields.	0-2 inches bgs	0-2 inches bgs	1	VOC SVOC Metals Total CN
SF-10	To assess surface soil conditions between the west bank of the Mettowiee River and the Little League Recreational fields.	0-2 inches bgs	0-2 inches bgs	1	VOC SVOC Metals Total CN
SF-11	To assess surface soil conditions between the west bank of the Mettowiee River and the Little League Recreational fields.	0-2 inches bgs	0-2 inches bgs	1	VOC SVOC Metals Total CN
SS-12	To assess background surface soil conditions at off-site locations along the recreational path.	0-2 inches bgs	0-2 inches bgs	1	VOC SVOC Metals Total CN
SS-13	To assess background surface soil conditions at off-site locations along the recreational path.	0-2 inches bgs	0-2 inches bgs	1	VOC SVOC Metals Total CN
SS-14	To assess background surface soil conditions at off-site locations along the recreational path.	0-2 inches bgs	0-2 inches bgs	1	VOC SVOC Metals Total CN
SS-15	To assess background surface soil conditions at off-site locations along the recreational path.	0-2 inches bgs	0-2 inches bgs	1	VOC SVOC Metals Total CN
SS-16	To assess background surface soil conditions at off-site locations along the recreational path.	0-2 inches bgs	0-2 inches bgs	1	VOC SVOC Metals Total CN
Test Pits					
TP13	To assess subsurface soil conditions in the footprint of the former Regulator Room.	9.5 feet bgs	9-9.5	1	VOC SVOC Metals Total CN
TP14	To assess subsurface soil conditions in the footprint of Feature B. Feature B is shown on the historic Sanborn maps; however the feature is not labeled and its purpose is unknown.	12 feet bgs	NA	0	NA
TP15	To assess subsurface soil conditions in the footprint of Feature C. Feature C is shown on the historic Sanborn maps; however the feature is not labeled and its purpose is unknown.	12.5 feet bgs	10-12	1	VOC SVOC Metals Total CN
TP16	To confirm the construction of the foundation for the Gas Holder. To assess the presence of MGP residuals in the soil inside of, and outside of the foundation wall.	12 feet bgs	10-12	1	VOC SVOC Metals Total CN
TP17	To confirm the construction of the foundation for the Gas Holder. To assess the presence of MGP residuals in the soil outside of the foundation wall.	12 feet bgs	11-12	1	VOC SVOC Metals Total CN
TP18	To confirm the construction of the foundation for the Gas Holder. To assess the presence of MGP residuals in the soil outside of the foundation wall.	12 feet bgs	11.5-12	1	VOC SVOC Metals Total CN
TP19	To confirm the construction of the foundation for the Gas Holder. To assess the presence of MGP residuals in the soil inside of the foundation wall.	11.8 feet bgs	11-11.8	1	VOC SVOC Metals Total CN
TP20	To assess soil conditions beneath a layer of wood chips observed during field activities.	2 feet bgs	1-1.5 (surface soil)	1	VOC SVOC Metals Total CN

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Sample ID	Rationale or Location	Completion Depth	Laboratory Sample Depth (Feet bgs)	No. of Samples	Laboratory Analyses
Subsurface Soil Borings					
TB11	To assess extent of NAPL impact in gravel unit on the Little League property, west of the pavilion.	22 feet bgs	11-12	1	VOC SVOC Metals Total CN
TB12	To assess deeper soil conditions in an area to the west of the Mettowie River and to the west of the former process area. To obtain data to map the surface of the top of bedrock.	36 feet bgs (Top of bedrock)	10-12 18-20 31-33	3	VOC SVOC Metals Total CN
TB13	To assess deeper soil conditions in an area to the south of the impacts observed at TP6 and conditions in the area of the Work Shop. To obtain data to map the surface of the top of bedrock.	52 feet bgs (Top of bedrock)	22-24	1	VOC SVOC Metals Total CN
TB14	To assess deeper soil conditions in an area to the east of the impacts observed at TP6 and conditions in the area of the former feature shown on the Sanborn maps (suspected dwelling). To obtain data to map the surface of the top of bedrock.	45.2 feet bgs (Top of bedrock)	14-16	1	VOC SVOC Metals Total CN
TB15	To assess deeper soil and bedrock conditions to the south of, and adjacent to the former MGP Building. To obtain data to map the surface of the top of bedrock. Bedrock core samples were obtained 15 into the bedrock unit to assess the presence of coal tar NAPL.	64 feet bgs (15 feet into bedrock)	20-22	1	VOC SVOC Metals Total CN
TB16	To assess shallow soil conditions to the east of the Mettowie River and north of the former Gas Holder. To obtain data to map the surface of the top of bedrock.	14 feet bgs (7 feet below water table)	NA	0	NA (visual assessment)
TB17	To assess deeper soil and bedrock conditions in the footprint of former Feature A. This feature was shown on the Sanborn maps; however the purpose of the feature is unknown. To obtain data to map the surface of the top of bedrock. Bedrock core samples were obtained 15 into the bedrock unit to assess the presence of coal tar NAPL at a location between the Gas Holder and the former MGP Building.	55 feet bgs (15 feet into bedrock)	11.5-12 26-28	2	VOC SVOC Metals Total CN
TB18	To assess deep soil conditions at a location to the east of the Gas Holder foundation. To obtain data to map the surface of the top of bedrock. Bedrock core samples were obtained 15 feet into the bedrock unit to assess the presence of coal tar NAPL.	54 feet bgs (15 feet into bedrock)	13-15 27-29	2	VOC SVOC Metals Total CN
TB19	To assess deep soil conditions at a location to the west of the former MGP Building.	60.5 feet bgs (15 feet into bedrock)	12-14 24-26	2	VOC SVOC Metals Total CN
TB20	To assess deeper soil and bedrock conditions to the north the former Gas Holder. To obtain data to map the surface of the top of bedrock.	27 feet bgs (Top of bedrock)	24-26	1	VOC SVOC Metals Total CN
TB21	To assess deeper soil and bedrock conditions to the north of the Gas Holder foundation. To obtain data to map the surface of the top of bedrock.	29.8 feet bgs (Top of bedrock)	10-12 26-28	2	VOC SVOC Metals Total CN
TB22	To assess deep soil conditions at a location to the northwest of the former Gas Holder. To obtain data to map the surface of the top of bedrock.	38.8 feet bgs (Top of bedrock)	14-16 20-22	2	VOC SVOC Metals Total CN
TB23	To assess deep soil conditions at a location to the east of the Mettowie River and to the northwest of the former Gas Holder. To obtain data to map the surface of the top of bedrock.	14 feet bgs	NA	0	NA (visual assessment)
TB24	To assess deep soil conditions at a location to the northwest of the former Gas Holder. To obtain data to map the surface of the top of bedrock. Bedrock core samples were obtained 17 into the bedrock unit to assess the presence of coal tar NAPL.	48.5 feet bgs (17 feet into bedrock)	9-12 24-26	2	VOC SVOC Metals Total CN
TB25	To assess deep soil conditions at a location to the north of the former Gas Holder. To obtain data to map the surface of the top of bedrock. To further assess the impacts observed at TP8, TB9, and TB10.	17 feet bgs (Top of bedrock)	8-10 14-16	2	VOC SVOC Metals Total CN
TB26	To assess deep soil conditions at a location to the north of the former Gas Holder. To obtain data to map the surface of the top of bedrock. To further assess the impacts observed at TP8, TB9, and TB10.	19 feet bgs (Top of bedrock)	12-14 16-18	2	VOC SVOC Metals Total CN
TB27	To assess deep soil conditions at a location to the north of the impacts observed at TB9 and TB10. To obtain data to map the surface of the top of bedrock.	34.7 feet bgs (Top of bedrock)	12-14 14-16	2	VOC SVOC Metals Total CN
TB28	To assess deep soil conditions at a location to the north of the impacts observed at TB9 and TB10 and adjacent to the former propane AST area. To obtain data to map the surface of the top of bedrock.	23.5 feet bgs (Top of bedrock)	8-10	1	VOC SVOC Metals Total CN

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TB29	To assess deeper soil conditions in an area to the east of the former MGP building. To obtain data to map the surface of the top of bedrock.	33.5 feet bgs (Top of bedrock)	12-13.5	1	VOC SVOC Metals Total CN
TB30	To assess deep soil conditions at a location to the north of the impacts observed at TB9 and TB10 and adjacent to the former propane AST area. To obtain data to map the surface of the top of bedrock.	15 feet bgs (Top of bedrock)	14-15	1	VOC SVOC Metals Total CN
TB31	To assess deep soil conditions at a location to the north of the impacts observed at TB9 and TB10 and adjacent to the former propane AST area. To obtain data to map the surface of the top of bedrock.	20.3 feet bgs (Top of bedrock)	12-13 18-20	2	VOC SVOC Metals Total CN
TB32	To assess deeper soil conditions in an area to the northeast of the former Gas Holder. To obtain data to map the surface of the top of bedrock.	25.4 feet bgs (Top of bedrock)	21-23	1	VOC SVOC Metals Total CN
TB34	To assess deeper soil conditions in an area to the east of the former Gas Holder. To obtain data to map the surface of the top of bedrock.	32.5 feet bgs (Top of bedrock)	17-19	1	VOC SVOC Metals Total CN
TB35	To assess soil conditions at a location to the north of the impacts observed at TB9 and TB10 and adjacent to the former propane AST area. To obtain data to map the surface of the top of bedrock.	15 feet bgs (Top of bedrock)	8-10	1	VOC SVOC Metals Total CN
TB36	To assess soil conditions at a location to the west of the Mettowee River and to the northwest of the former Gas Holder.	12 feet bgs	8-10 10-12	2	VOC SVOC Metals Total CN
TB38	To assess soil conditions at a location to the west of the Mettowee River and to the west of impacts observed at TB-36.	12 feet bgs	6-8 10-12	2	VOC SVOC Metals Total CN
TB39	To assess soil conditions at a location to the west of the Mettowee River and to the west of impacts observed at TB-36.	14 feet bgs	12.5-13.5 13.5-14	2	VOC SVOC Metals Total CN
TB40	To assess soil conditions at a location to the west of the Mettowee River and to the southwest of impacts observed at TB-36.	14 feet bgs	8-10 12-14	2	VOC SVOC Metals Total CN
TB42	To assess soil conditions at a location to the east of the Mettowee River and to the north of impacts observed at TB-23.	14 feet bgs	NA	0	NA (visual assessment)
TB43	To assess soil conditions at a location to the east of the Mettowee River and to the north of impacts observed at TB-23.	14 feet bgs	NA	0	NA (visual assessment)
TB44	To assess soil conditions at a location to the east of the Mettowee River and to the north of impacts observed at TB-30.	14.5 feet bgs	NA	0	NA (visual assessment)
TB45	To assess soil conditions at a location to the east of the Mettowee River and to the north of impacts observed at TB-23.	14 feet bgs	NA	0	NA (visual assessment)
TB46	To assess soil conditions at a location to the east of the Mettowee River and to the north of impacts observed at TB-23.	16 feet bgs	14-15 15-16	2	VOC SVOC Metals Total CN
TB48	To assess soil conditions at a location to the east of the Mettowee River and to the north of impacts observed at TB-23.	16 feet bgs	13.5-14.5 15-16	2	VOC SVOC Metals Total CN
TB49	To assess soil conditions at a location to the east of the Mettowee River and to the north of impacts observed at TB-23.	14 feet bgs	10-11 12-13	2	VOC SVOC Metals Total CN
TB50	To assess soil conditions at a location to the east of the Mettowee River and to the north of impacts observed at TB-23.	14 feet bgs	NA	0	NA (visual assessment)
TB51	To assess soil conditions at a location to the east of the Mettowee River and to the north of impacts observed at TB-23.	14 feet bgs	NA	0	NA (visual assessment)

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Sample ID	Rationale or Location	Completion Depth	Laboratory Sample Depth (Feet bgs)	No. of Samples	Laboratory Analyses
TB53	To assess soil conditions at a location to the east of the Mettowiee River and to the north of impacts observed at TB-50 and TB-51.	14 feet bgs	NA	0	NA (visual assessment)
TB55	To assess soil conditions at a location to the east of the Mettowiee River and to the west of impacts observed at TB-53.	14 feet bgs	11-12	1	VOC SVOC Metals Total CN
TB56	To assess soil conditions at a location to the east of the Mettowiee River and to the north of impacts observed at TB-53.	16 feet bgs	11-12	1	VOC SVOC Metals Total CN
TB57	To assess soil conditions at a location to the east of the Mettowiee River and to the north of impacts observed at TB-51.	14 feet bgs	12-14	1	VOC SVOC Metals Total CN
TB58	To assess soil conditions at a location to the east of the Mettowiee River and impacts observed to the north of TB-53 and to the south of TB-56.	14 feet bgs	NA	0	NA (visual assessment)
TB59	To assess soil conditions at a location to the east of impacts observed at TB-53 and TB-58.	16 feet bgs	NA	0	NA (visual assessment)
TB60	To assess soil conditions at a location to the north of impacts observed at TB-53 and TB-58.	14 feet bgs	NA	0	NA (visual assessment)
TB61	To assess soil conditions at a location to the east of impacts observed at TB-58 and TB-60.	16 feet bgs	14-15	0	VOC SVOC Metals Total CN
TB62	To assess soil conditions at a location to the north of impacts observed at TB-53 and to the west of TB-58.	14 feet bgs	NA	0	NA (visual assessment)
TB64	To assess soil conditions at a location to the north of impacts observed at TB-60. To obtain data to map the surface of the top of bedrock.	31.8 feet bgs (Top of bedrock)	12-13	1	VOC SVOC Metals Total CN
TB65	To assess soil conditions at a location to the north of impacts observed at TB-60.	16 feet bgs	NA	0	NA (visual assessment)
TB66	To assess soil conditions at a location to the north of impacts observed at TB-60 and TB-62.	14 feet bgs	NA	0	NA (visual assessment)
TB67	To assess soil conditions at a location to the north of impacts observed at TB-60 and TB-62.	14 feet bgs	NA	0	NA (visual assessment)
TB68	To assess soil conditions at a location to the northwest of impacts observed at TB-67.	14 feet bgs	13-14	1	VOC SVOC Metals Total CN
TB69	To assess soil conditions at a location to the north of impacts observed at TB-66 and TB-67.	16 feet bgs	10-11	1	VOC SVOC Metals Total CN
TB70	To assess soil conditions at a location to the north of impacts observed at TB-65 and TB-66 and east of TB-69	12 feet bgs	NA	0	NA (visual assessment)
TB71	To assess soil conditions at a location to the north of impacts observed at TB-65 and east of TB-69 and TB-70.	14 feet bgs	10-12	1	VOC SVOC Metals Total CN
TB73	To assess soil conditions at a location to the northeast of impacts observed at TB-69 and TB-70.	12 feet bgs	NA	0	NA (visual assessment)
TB75	To assess soil conditions at a location to the north of impacts observed at TB-69 and TB-70.	11 feet bgs	7-9	1	VOC SVOC Metals Total CN

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Sample ID	Rationale or Location	Completion Depth	Laboratory Sample Depth (Feet bgs)	No. of Samples	Laboratory Analyses
TB77	To assess soil conditions at a location to the southwest and downgradient of impacts observed at TB-62 and TB-67.	14 feet bgs	12-14	1	VOC SVOC Metals Total CN
TB78	To assess soil conditions at a location to the west and downgradient of impacts observed at TB-67 and TB-69.	14 feet bgs	NA	0	NA (visual assessment)
TB79	To assess soil conditions at a location to the west of impacts observed at TB-67 and TB-69.	14 feet bgs	12-14	1	VOC SVOC Metals Total CN
TB80	To assess soil conditions at a location to the southwest and downgradient of impacts observed at TB-67.	22 feet bgs	NA	0	NA (visual assessment)
TB82	To assess the potential for relatively shallow bedrock. To assess the thickness/presence of the silty-sand/silty-clay confining layer. And to assess potential for NAPL saturation in the gravel unit to directly contact underlying thin slatey-gravel (glacial till) soil, and bedrock.	19.5 feet bgs (Top of bedrock)	17-19.5	1	VOC SVOC
TB83	To assess the potential for relatively shallow bedrock. To assess the thickness/presence of the silty-sand/silty-clay confining layer. And to assess potential for NAPL saturation in the gravel unit to directly contact underlying thin slatey-gravel (glacial till) soil, and bedrock.	21 feet bgs (Top of bedrock)	18.5-21	1	VOC SVOC
TB84	To assess deep soil conditions and bedrock surface elevation at a location to the north of the former Gas Holder where soil impacts were observed at MW-14B (TB-25) and MW-19B.	21 feet bgs (Top of bedrock)	12-14 19.5-21	2	VOC SVOC
TB85	To assess the potential for relatively shallow bedrock. To assess the thickness/presence of the silty-sand/silty-clay confining layer. And to assess potential for NAPL saturation in the gravel unit to directly contact underlying thin slatey-gravel (glacial till) soil, and bedrock.	18.5 feet bgs (Top of bedrock)	16-18.5	1	VOC SVOC
TB86	To assess the potential for relatively shallow bedrock. To assess the thickness/presence of the silty-sand/silty-clay confining layer. And to assess potential for NAPL saturation in the gravel unit to directly contact underlying thin slatey-gravel (glacial till) soil, and bedrock.	25 feet bgs	24-25	1	VOC SVOC
TB87	To assess deep soil conditions at a location of lower elevation than the Gas Holder foundation ring. To obtain data to map the surface of the top of bedrock.	36.6 feet bgs (Top of bedrock)	24-26 34-36	2	VOC SVOC
TB88	To assess deep soil conditions at a location between TB-1, TB-2 and TB-3 where earlier test borings indicated NAPL in slatey-gravel (glacial till) soil over bedrock.	43.2 feet bgs (Top of bedrock)	22-24 41.5-43.2	2	VOC SVOC
TB89	To assess geotechnical conditions of silty-sand/silty-clay confining layer in an area where the unit is not anticipated to be significantly impacted.	54.3 feet bgs (Top of bedrock)	52-54	1	VOC SVOC
			28-30 38-40 48-50	3	SPT and split-spoon samples for particle grain size and Atterburg Limits tests, and undisturbed Shelby tube samples for triaxial shear-strength tests.
TB90	To assess soil conditions in gravel unit north of the MGP Site and north and east of previously identified NAPL impact.	13 feet bgs	12-13	1	VOC SVOC
TB91	To assess soil conditions in gravel unit north of the MGP Site and north and east of previously identified NAPL impact.	16 feet bgs	12-14	1	VOC SVOC
TB94	To assess soil conditions in gravel unit north of the MGP Site and north and east of previously identified NAPL impact.	14 feet bgs	12-13	1	VOC SVOC
TB95	To assess extent of NAPL impact in gravel unit on the Little League property, west of the pavilion.	16 feet bgs	12-14	1	VOC SVOC
TB96	To assess deep soil conditions to the north (downgradient) of previously identified shallow NAPL impact. To obtain data to map the surface of the top of bedrock.	57.5 feet bgs (Top of bedrock)	12-14	1	VOC SVOC

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Sample ID	Rationale or Location	Completion Depth	Laboratory Sample Depth (Feet bgs)	No. of Samples	Laboratory Analyses
TB98	To assess downgradient extent of NAPL impact in gravel unit along southwest bank of Mettewee River.	18 feet bgs	12-13	1	VOC SVOC
TB99	To assess extent of NAPL impact in gravel unit west of TB-39.	14 feet bgs	12-13	1	VOC SVOC
TB100	To assess soil conditions in gravel unit north of previously identified NAPL impact. To assess depth of confining layer contact beneath gravel unit.	24 feet bgs	18-20	1	VOC SVOC
TB101	To assess soil conditions in gravel unit north of the MGP Site and in an area of previously identified NAPL impact. To obtain data to map the surface of the top of bedrock.	31 feet bgs	28-31	1	VOC SVOC
Monitoring Well and Subsurface Soil Borings					
MW1B	A soil boring was advanced to the top of the bedrock unit to obtain data to map the top of the bedrock. 16.5 feet of rock core was obtained to assess the presence of coal tar NAPL. A bedrock well was installed in the bedrock unit to assess bedrock groundwater quality at this location.	68 feet bgs (16.5 feet into bedrock)	24-26	1	VOC SVOC Metals Total CN
MW2B	A soil boring was advanced to the top of the bedrock unit to obtain data to map the top of the bedrock. 17 feet of rock core was obtained to assess the presence of coal tar NAPL. A bedrock well was installed in the bedrock unit in an area suspected to be upgradient of the site to assess bedrock groundwater quality.	55 feet bgs (17 feet into bedrock)	11-13 18-20	2	VOC SVOC Metals Total CN
MW3B	A soil boring was advanced to the top of the bedrock unit to obtain data to map the top of the bedrock. 15.3 feet of rock core was obtained to assess the presence of coal tar NAPL. A bedrock well was installed in the bedrock unit in an area suspected to be downgradient of the Gas Holder foundation to assess bedrock groundwater quality.	58 feet bgs (15.3 feet into bedrock)	10-12 22-24	2	VOC SVOC Metals Total CN
MW5S	A soil boring was advanced to install a shallow water table well at a location suspected to be upgradient of the former Gas Holder.	18 feet bgs (10 feet below water table)	See MW5B	NA	NA
MW5B	A soil boring was advanced to the top of the bedrock unit to obtain data to map the top of the bedrock. 17 feet of rock core was obtained to assess the presence of coal tar NAPL. A bedrock well was installed in the bedrock unit in an area suspected to be downgradient of the Gas Holder foundation to assess bedrock groundwater quality.	43 feet bgs (17 feet into bedrock)	7-9 12-15	2	VOC SVOC Metals Total CN
MW6S	A soil boring was advanced to install a shallow water table well at a location suspected to be downgradient of the former MGP Building.	16 feet bgs (10 feet below water table)	See MW6B	NA	NA
MW6B	A soil boring was advanced to the top of the bedrock unit to obtain data to map the top of the bedrock. 18 feet of rock core was obtained to assess the presence of coal tar NAPL. A bedrock well was installed in the bedrock unit in an area suspected to be downgradient of the former MGP Building to assess bedrock groundwater quality.	62.5 feet bgs (18 feet into bedrock)	12-14 28-30	2	VOC SVOC Metals Total CN
MW7S	A soil boring was advanced to install a shallow water table well at a location suspected to be crossgradient and/or downgradient of the former Gas Holder. To provide data at a location between MW3S and MW4S.	18 feet bgs (12 feet below water table)	See TB24	NA	NA
MW7B/TB-24	A soil boring was advanced to the top of the bedrock unit to obtain data to map the top of the bedrock. 17 feet of rock core was obtained to assess the presence of coal tar NAPL. A bedrock well was installed in the bedrock unit in an area suspected to be crossgradient and/or downgradient of the former Gas Holder.	48.5 feet bgs (17 feet into bedrock)	See TB24	NA	NA
MW8S	A soil boring was advanced to install a shallow water table well at a location west of the Mettewee River and former MGP Building.	15 feet bgs (10 feet below water table)	See MW-8D	NA	NA SVOC Metals Total CN

Table 1
RI Sample Summary and Rationale
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Sample ID	Rationale or Location	Completion Depth	Laboratory Sample Depth (Feet bgs)	No. of Samples	Laboratory Analyses
MW8D	A soil boring was advanced to the top of bedrock and a monitoring well installed at a location west of the Mettowiee River and former MGP Building.	53.5 feet bgs (Top of bedrock)	8-10	1	VOC SVOC Metals Total CN
MW8B	A soil boring was advanced to the top of the bedrock unit to obtain data to map the top of the bedrock. 15 feet of rock core was obtained to assess the presence of coal tar NAPL. A bedrock well was installed in the bedrock unit in an area west of the Mettowiee River and former MGP Building.	66 feet bgs (15 feet into bedrock)	See MW8D	NA	NA
MW9S	A soil boring was advanced to install a shallow water table well at a location west of the Mettowiee River and the former Gas Holder to assess shallow groundwater quality.	16 feet bgs (10 feet below water table)	See MW9B	NA	NA
MW9D	A soil boring was advanced to the top of bedrock and a monitoring well installed at a location west of the Mettowiee River and former Gas Holder.	49.5 feet bgs (Top of bedrock)	See MW9B	NA	NA
MW9B	A soil boring was advanced to the top of the bedrock unit to obtain data to map the top of the bedrock. 20.5 feet of rock core was obtained to assess the presence of coal tar NAPL. A bedrock well was installed in the bedrock unit in an area west of the Mettowiee River and the former Gas Holder to assess bedrock groundwater quality.	62 feet bgs (20.5 feet into bedrock)	14-16	1	VOC SVOC Metals Total CN
MW10S	A soil boring was advanced to install a shallow monitoring well at a location west of the Mettowiee River and northwest of the former Gas Holder to assess shallow groundwater quality.	16 feet bgs (10 feet below water table)	See MW10D	NA	NA
MW10D	A soil boring was advanced to the top of bedrock and a monitoring well installed at a location west of the Mettowiee River and northwest of the former Gas Holder.	42.3 feet bgs (Top of bedrock)	10-12 40-42	2	VOC SVOC Metals Total CN
MW11S	A soil boring was advanced to install a shallow water table well at a location to the east of the former Gas Holder, along the former railroad bed (recreational path).	20 feet bgs (10 feet below water table)	See MW11B	NA	NA
MW11B	A soil boring was advanced to the top of the bedrock unit to obtain data to map the top of the bedrock. 125 feet of rock core was obtained to assess the presence of coal tar NAPL down the dip of bedrock from the former gas holder. A bedrock well was installed in the bedrock unit to assess bedrock groundwater quality.	155 feet bgs (125 feet into bedrock)	17.5-19	1	VOC SVOC Metals Total CN
MW12B/TB33	A soil boring was advanced to the top of the bedrock unit to obtain data to map the top of the bedrock. 29 feet of rock core was obtained to assess the presence of coal tar NAPL. A bedrock well was installed in the bedrock unit in an area north of the former Gas Holder to assess bedrock groundwater quality.	55 feet bgs (29 feet into bedrock)	NA	0	NA (visual assessment)
MW13B	A soil boring was advanced to the top of the bedrock unit to obtain data to map the top of the bedrock. 13.5 feet of rock core was obtained to assess the presence of coal tar NAPL. A bedrock was installed in the bedrock unit in an area northeast of the Gas Holder foundation to assess bedrock groundwater quality.	50 feet bgs (13.5 feet into bedrock)	14-16 34-36	2	VOC SVOC Metals Total CN
MW14B/TB25	A soil boring was advanced to the top of the bedrock unit to obtain data to map the top of the bedrock. 16.5 feet of rock core was obtained to assess the presence of coal tar NAPL. A bedrock well was installed in the bedrock unit in an area north of the former Gas Holder to assess bedrock groundwater quality.	33.5 feet bgs (16.5 feet into bedrock)	See TB25	NA	NA
MW15S/TB37	A shallow soil boring was advanced and a well was installed at a location to the west of the Mettowiee River and to assess shallow groundwater quality.	16 feet bgs (8 feet below water table)	10-12 12-14	2	VOC SVOC Metals Total CN

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Granville, New York

Sample ID	Rationale or Location	Completion Depth	Laboratory Sample Depth (Feet bgs)	No. of Samples	Laboratory Analyses
MW15D	A soil boring was advanced to the top of bedrock to assess geotechnical conditions of the silty-sand/silty-clay confining layer in an area where the unit is not anticipated to be significantly impacted. To assess soil hydrogeologic units beneath the confining layer unit and above bedrock, and to install a deep monitoring well that will be used to assess deep groundwater quality downgradient of previously identified NAPL impact.	62.8 feet bgs (Top of bedrock)	60-62.8	1	VOC SVOC
			16-18 38-40 48-50	3	SPT and split-spoon samples for particle grain size and Atterburg Limits tests, and undisturbed Shelby tube samples for triaxial shear-strength tests.
MW16S/TB41	A shallow soil boring was advanced and a well was installed at a location to the west of the Mettowie River and to assess shallow groundwater quality.	16 feet bgs (8 feet below water table)	8-10 12-14	2	VOC SVOC Metals Total CN
MW17S	A shallow soil boring was advanced and a well was installed at a location to the west of the Mettowie River and to assess shallow groundwater quality.	16 feet bgs (6 feet below water table)	10-12	1	VOC SVOC Metals Total CN
MW18S/TB47	A soil boring was advanced to install a shallow water table well was installed at a location suspected to be downgradient of impacts observed at TB43.	16 feet bgs (8 feet below water table)	NA	0	NA (visual assessment)
MW19B	A soil boring was advanced to the top of the bedrock unit to obtain data to map the top of the bedrock. 23 feet of rock core was obtained to assess the presence of coal tar NAPL. A bedrock was installed in the bedrock unit in an area north of the Gas Holder foundation to assess bedrock groundwater quality.	45.5 feet bgs (23 feet into bedrock)	11-12 13-14	2	VOC SVOC Metals Total CN
MW20B	A soil boring was advanced to the top of the bedrock unit to obtain data to map the top of the bedrock. 15 feet of rock core was obtained to assess the presence of coal tar NAPL. A bedrock was installed in the bedrock unit in an area suspected to be upgradient of the Former MGP building to assess bedrock groundwater quality.	69.5 feet bgs (15 feet into bedrock)	12-13	1	VOC SVOC Metals Total CN
MW21S/TB52	A shallow soil boring was advanced and a shallow well was installed at a location to the east of the Mettowie River and to suspected upgradient of impacts observed at TB-50.	14 feet bgs (7 feet below water table)	12-13	1	VOC SVOC Metals Total CN
MW22S/TB54	A shallow soil boring was advanced and a well was installed at a location to the east of the Mettowie River and suspected downgradient of impacts observed at TB-51.	14 feet bgs (6 feet below water table)	11-12	1	VOC SVOC Metals Total CN
MW22D	A soil boring was advanced to the top of bedrock to assess geotechnical conditions of the silty-sand/silty-clay confining layer in an area where the unit is not anticipated to be significantly impacted. To assess soil hydrogeologic units beneath the confining layer unit and above bedrock, and to install a deep monitoring well that will be used to assess deep groundwater quality downgradient of previously identified NAPL impact.	73.5 feet bgs (Top of bedrock)	16.5-17.5 71-73.5	2	VOC SVOC
			Geotech samples collected at four intervals between the top and base of confining layer (depth TBD)	4	SPT and split-spoon samples for particle grain size and Atterburg Limits tests, and undisturbed Shelby tube samples for triaxial shear-strength tests.
MW23B	A soil boring was advanced to the top of the bedrock unit to obtain data to map the top of the bedrock. 30.5 feet of rock core was obtained to assess the presence of coal tar NAPL. A bedrock was installed in the bedrock unit in an area north of the Gas Holder foundation to assess bedrock groundwater quality.	47 feet bgs (30.5 feet into bedrock)	10-12	1	VOC SVOC Metals Total CN
MW24S/TB81	A soil boring was advanced to install a shallow water table well at a location suspected to be downgradient of impacts observed at TB-67 and TB-69.	16 feet bgs (6 feet below water table)	NA	0	NA (visual assessment)
MW25S/TB63	A soil boring was advanced to install a shallow water table well at a location suspected to be upgradient of impacts observed at TB-46 and TB-48.	14 feet bgs (7 feet below water table)	12.5-13.5	1	VOC SVOC Metals Total CN
MW26S/TB72	A soil boring was advanced to install a shallow water table well at a location suspected to be upgradient of impacts observed at TB-65 and TB-70.	12 feet bgs (6 feet below water table)	NA	0	NA (visual assessment)
MW27S/TB76	A soil boring was advanced to install a shallow water table well at a location suspected to be crossgradient of impacts observed at TB-69 and TB-70.	13 feet bgs (6 feet below water table)	NA	0	NA (visual assessment)
MW28S/TB74	A soil boring was advanced to install a shallow water table well at a location suspected to be crossgradient of impacts observed at TB-69 and TB-70.	11 feet bgs (6 feet below water table)	NA	0	NA (visual assessment)
MW29B	A soil boring will be advanced to the top of the bedrock unit to obtain data to map the top of the bedrock. Bedrock core was obtained to assess the potential for steep eastward down-dip migration of coal tar NAPL from that present in bedrock wells MW-19B and MW-23B. A bedrock monitoring well was installed, screened from 110-120 feet bgs, to assess the deeper bedrock groundwater quality.	142.5 feet bgs (121.2 feet into bedrock)	NA	0	NA (visual assessment)

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MW30B	A soil boring was advanced to the top of the bedrock unit to obtain data to map the top of the bedrock. 34 feet of rock core was obtained to assess the northern extent of coal tar NAPL impact in MW-23B. A bedrock was installed to assess bedrock groundwater quality.	43 feet bgs (34 feet into bedrock)	NA	0	NA (visual assessment)
MW31S	A soil boring was advanced to install a shallow water table well to assess groundwater quality along the southwest bank of the Mettowee River and downgradient of previously identified NAPL impact.	16 feet bgs (10 feet below water table)	14-15	1	VOC SVOC
MW32B	A soil boring was advanced to the top of the bedrock unit to obtain data to map the top of the bedrock. 15 feet of rock core was obtained to assess the presence of coal tar NAPL to the south of NAPL impacts in bedrock well MW-5B and east of the Gas Holder. A bedrock well was installed to assess bedrock groundwater quality.	60 feet bgs (23 feet into bedrock)	35-37	1	VOC SVOC
MW33S/TB93	To assess soil conditions in gravel unit north of the MGP Site and north and east of previously identified NAPL impact. A shallow monitoring well was installed to further delineate groundwater quality to the east of observed impacts.	12 feet bgs	10-11	1	VOC SVOC
MW34S/TB92	To assess soil conditions in the gravel unit north of the MGP Site and north and east of previously identified NAPL impact. To assess deep soil conditions below the gravel unit. To assess geotechnical conditions of silty-sand/silty-clay confining layer in an area where the unit is not anticipated to be significantly impacted. To obtain data to map the surface of the top of bedrock. A shallow monitoring well was installed to further delineate groundwater quality to the east of observed impacts.	46 feet bgs (Top of bedrock)	14-16 42-44	2	VOC SVOC
			24-26	1	SPT and split-spoon samples for particle grain size and Atterburg Limits tests, and undisturbed Shelby tube samples for triaxial shear-strength tests.
River Test Borings					
RTB-1	To assess soil conditions beneath the Mettowee river bed.	5 feet bgs	NA	0	NA (visual assessment)
RTB-2	To assess soil conditions beneath the Mettowee river bed.	5 feet bgs	3.5-4.5	1	VOC SVOC Metals Total CN
RTB-3	To assess soil conditions beneath the Mettowee river bed.	8 feet bgs	6.5-7.5	1	VOC SVOC Metals Total CN
RTB-4	To assess soil conditions beneath the Mettowee river bed.	6 feet bgs	4.5-5.5	1	VOC SVOC Metals Total CN
RTB-5	To assess soil conditions beneath the Mettowee river bed.	4 feet bgs	2-4	1	VOC SVOC Metals Total CN
RTB-6	To assess soil conditions beneath the Mettowee river bed.	4 feet bgs	NA	0	NA (visual assessment)
RTB-8	To assess soil conditions beneath the Mettowee river bed.	7 feet bgs	6-7	1	VOC SVOC Metals Total CN
RTB-9	To assess soil conditions beneath the Mettowee river bed.	9 feet bgs	1.5-3 7-9	2	VOC SVOC Metals Total CN
RTB-10	To assess soil conditions beneath the Mettowee river bed.	7 feet bgs	NA	0	NA (visual assessment)
RTB-11	To assess soil conditions beneath the Mettowee river bed.	7 feet bgs	6-7	1	VOC SVOC Metals Total CN
RTB-12	To assess soil conditions beneath the Mettowee river bed.	7 feet bgs	NA	0	NA (visual assessment)
RTB-13	To assess soil conditions beneath the Mettowee river bed.	7 feet bgs	NA	0	NA (visual assessment)

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Sample ID	Rationale or Location	Completion Depth	Laboratory Sample Depth (Feet bgs)	No. of Samples	Laboratory Analyses
RTB-14	To assess soil conditions beneath the Mettowee river bed.	5 feet bgs	4-5	1	VOC SVOC Metals Total CN
RTB-15	To assess soil conditions beneath the Mettowee river bed.	8 feet bgs	6-7	1	VOC SVOC Metals Total CN
RTB-16	To assess soil conditions beneath the Mettowee river bed.	5 feet bgs	4-5	1	VOC SVOC Metals Total CN
RTB-17	To assess soil conditions beneath the Mettowee river bed.	5 feet bgs	4-5	1	VOC SVOC Metals Total CN
RTB-18	To assess soil conditions beneath the Mettowee river bed.	7 feet bgs	4-5	1	VOC SVOC Metals Total CN
RTB-19	To assess soil conditions beneath the Mettowee river bed.	7 feet bgs	6-7	1	VOC SVOC Metals Total CN
Surface Sediment Samples					
BSD1 to BSD10	To assess surface sediment quality at locations upstream of the site.	0 - 6 inches below sediment surface		10	VOC SVOC Metals Total CN
SD1 to SD38	To assess surface sediment quality at locations adjacent to, and downstream of the site. The final locations were determined based on the results of the sediment probing task and were targeted to assess both impacted and outlying non-impacted areas.	0 - 6 inches below sediment surface		26	VOC SVOC Metals Total CN

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Sample ID	Rationale or Location	Completion Depth	Laboratory Sample Depth (Feet bgs)	No. of Samples	Laboratory Analyses
Groundwater Samples					
MW1S	To assess shallow groundwater conditions at an upgradient location.	NA	Center of screened interval	1	VOC SVOC Metals Total CN
MW1D	To assess deep groundwater conditions at an upgradient location.	NA	Center of screened interval	1	VOC SVOC Metals Total CN
MW1B	To assess bedrock groundwater conditions at an upgradient location.	NA	Center of screened interval	1	VOC SVOC Metals Total CN
MW2S	To assess shallow groundwater conditions at an upgradient location.	NA	Center of screened interval	1	VOC SVOC Metals Total CN
MW2D	To assess deep groundwater conditions at a location adjacent to the former MGP process area.	NA	Center of screened interval	1	VOC SVOC Metals Total CN
MW3S	To assess shallow groundwater downgradient of the Gas Holder foundation.	NA	Center of screened interval	1	VOC SVOC Metals Total CN
MW3D	To assess deep groundwater conditions at a location downgradient of the Gas Holder foundation.	NA	Center of screened interval	1	VOC SVOC Metals Total CN
MW3B	To assess bedrock groundwater conditions at a location downgradient of the Gas Holder foundation.	NA	Center of screened interval	1	VOC SVOC Metals Total CN
MW4S	To assess shallow groundwater conditions downgradient of the site.	NA	Center of screened interval	1	VOC SVOC Metals
Groundwater Samples					
MW4D	To assess deep groundwater conditions downgradient of the site.	NA	Center of screened interval	1	VOC SVOC Metals Total CN
MW5S	To assess shallow groundwater conditions upgradient of the Gas Holder foundation.	NA	Center of screened interval	1	VOC SVOC Metals Total CN
MW5B	To assess bedrock groundwater conditions to the east of the Gas Holder foundation.	NA	Center of screened interval	1	VOC SVOC Metals Total CN
MW6S	To assess shallow groundwater conditions to the west of the former MGP Process Building.	NA	Center of screened interval	1	VOC SVOC Metals Total CN
MW6B	To assess bedrock groundwater conditions to the west of the former MGP Process Building.	NA	Center of screened interval	1	VOC SVOC Metals Total CN
MW7S	To assess shallow groundwater conditions downgradient of the former MGP Process area.	NA	Center of screened interval	1	VOC SVOC Metals Total CN
Soil Vapor Intrusion Evaluation Samples					
AMB1(08)	Upwind Ambient Air at the site.	NA	NA	1	VOC and additional indicator compounds
SV1	To assess soil vapor conditions along the eastern side of the former MGP operations area.	7 feet bgs	6.5 feet bgs	1	VOC and additional indicator compounds
SV2	To assess soil vapor conditions along the eastern side of the former MGP operations area.	7 feet bgs	6.5 feet bgs	1	VOC and additional indicator compounds
SV3	To assess soil vapor conditions along the eastern side of the former MGP operations area.	7 feet bgs	6.5 feet bgs	1	VOC and additional indicator compounds
SV4	To assess soil vapor conditions along the eastern side of the former MGP operations area.	7 feet bgs	6.5 feet bgs	1	VOC and additional indicator compounds
SV5	To assess soil vapor conditions along the eastern side of the former MGP operations area.	7 feet bgs	6.5 feet bgs	1	VOC and additional indicator compounds

NA - Not Applicable

Table 2
Summary of Monitoring Well Construction Details
NYSEG Granville Former MGP Site
Granville, New York

Well ID	Ground Elevation	Depth of Boring	Depth of Well	Depth Top of Screen		Depth Bottom of Screen		Top of Sump	Bottom of Sump	Base of Bentonite Seal	UNIT SCREENED
	ELEV	BGS	BGS	BGS	ELEV	BGS	ELEV	BGS	BGS	BGS	
MW-1B	385.81	68	68.00	56	329.81	66	319.81	66	68	54.00	Bedrock
MW-1D	385.80	54.2	55.00	45.0	340.80	55	330.80	--	--	42.00	Till
MW-1S	386.00	20.0	17.70	8.0	378.00	17.7	368.30	--	--	6.00	Sand & Gravel
MW-2B	386.01	55.0	53.00	43.0	343.01	53	333.01	53	55	41.00	Bedrock
MW-2D	386.60	47.5	47.50	42.5	344.10	47.5	339.10	--	--	40.00	Till
MW-2S	386.70	18.0	17.00	7.0	379.70	17	369.70	--	--	5.00	Sand & Gravel
MW-3B	385.30	58.0	56.00	46.0	339.30	56	329.30	56	58	44.00	Bedrock
MW-3D	386.00	41.5	41.80	31.8	354.20	41.8	344.20	--	--	29.50	Clay & Till
MW-3S	386.60	20.0	19.80	9.8	376.80	19.8	366.80	--	--	8.00	Gravel & Silt
MW-4D	383.50	33.0	32.70	23.7	359.80	32.7	350.80	--	--	21.00	Clay & Till
MW-4S	383.90	13.0	12.70	8.0	375.90	12.7	371.20	--	--	6.00	Sand & Silt
MW-5B	384.46	43.0	43.00	31.0	353.46	41	343.46	41	43	29.00	Bedrock
MW-5S	384.59	18.0	18.00	6.0	378.59	16	368.59	16	18	4.00	Sand, Gravel, Clay
MW-6B	386.21	63.5	62.50	50.5	335.71	60.5	325.71	60.5	62.5	48.50	Bedrock
MW-6S	386.18	18.0	18.00	6.0	380.18	16	370.18	16	18	4.00	Sand & Gravel
MW-7B/TB-24	384.28	48.5	48.5	36.5	347.78	46.5	337.78	46.5	48.5	34.5	Bedrock
MW-7S	384.38	18.0	18.00	6.0	378.38	16	368.38	16	18	4.00	Sand & Gravel
MW-8B	382.08	68.0	68.00	56.0	326.08	66	316.08	66	68	54.00	Bedrock
MW-8D	382.08	53.5	53.50	43.0	339.08	53	329.08	53	53.5	41.00	Clay & Till
MW-8S	382.01	15.0	15.00	3.0	379.01	13	369.01	13	15	2.00	Sand & Gravel
MW-9B	381.99	64.0	64.00	52.0	329.99	62	319.99	62	64	50.00	Bedrock
MW-9D	381.88	49.0	49.50	38.5	343.38	48.5	333.38	48.5	49.5	36.50	Clay & Till
MW-9S	382.14	16.0	16.00	4.0	378.14	14	368.14	14	16	2.00	Gravel
MW-10D	381.77	42.3	42.30	31.7	350.07	41.7	340.07	41.7	42.3	29.70	Clay & Till
MW-10S	382.09	16.0	16.00	4.0	378.09	14	368.09	14	16	2.00	Gravel
MW-11S	392.58	22.0	22.00	10.0	382.58	20	372.58	20	22		
MW-11B	392.63	155	147.00	135.0	257.63	145	247.63	145	147	133.00	Bedrock
MW-12B/TB-33	384.35	55.0	55	34.0	350.35	54	330.35	54	55	32	Bedrock
MW-13B	392.42	50	50.00	38.0	354.42	48	344.42	48	50	37.00	Bedrock
MW-14B/TB-25	384.4	33.5	33.5	21.5	362.90	31.5	352.90	31.5	33.5	19.5	Bedrock
MW-15D	381.48	62.8	63.00	58	323.48	63	318.48	--	--	57.00	Till
MW-15S/TB-37	381.61	16.0	16	4.0	377.61	14	367.61	14	16	3	Sand & Gravel
MW-16S/TB41	381.77	16.0	16	4.0	377.77	14	367.77	14	16	3	Sand & Gravel
MW-17S	380.95	12.0	12.00	3.0	377.95	13	367.95	13	12	2.00	Sand & Gravel
MW-18S/TB-47	381.57	16.0	16.00	4.0	377.57	14	367.57	14	16	3.00	Gravel
MW-19B	383.97	45.5	45.00	33.0	350.97	43	340.97	43	45	31.00	Bedrock
MW-20B	385.86	69.5	69.50	57.5	328.36	67.5	318.36	67.5	69.5	55.50	Bedrock
MW-21S/TB-52	381.98	14.0	14.50	2.5	379.48	12.5	369.48	12.5	14.5	2.50	Sand & Gravel
MW-22S/TB-54	382.77	14.0	14.00	2.0	380.77	12	370.77	12	14	2.00	Sand & Gravel
MW-23B	382.50	47	44.00	32.0	350.50	42	340.50	42	44	30.00	Bedrock
MW-24S/TB-81	380.93	16.0	17.00	5.0	375.93	15	365.93	15	17	4.00	Gravel

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	ELEV	BGS	BGS	BGS	ELEV	BGS	ELEV	BGS	BGS	BGS	
MW-25S/TB-63	382.70	14.0	15.00	8.0	374.70	13	369.70	13	15	6.00	Gravel
MW-26S/TB-72	380.48	12.0	12.50	5.5	374.98	10.5	369.98	10.5	12.5	4.00	Gravel
MW-27S/TB-76	379.68	13.0	13.00	6.0	373.68	11	368.68	11	13	4.00	Gravel
MW-28S/TB-74	378.85	11.0	11.00	4.0	374.85	9	369.85	9	11	3.00	Gravel
MW-22D	382.68	73.5	74.00	69.0	313.68	74	308.68	--	--	67.00	Clay & Till
MW-29B	392.14	142.5	122.00	110.0	282.14	120	272.14	120	122		Bedrock
MW-30B	383.31	43.0	43.00	31.0	352.31	41	342.31	41	43	29.00	Bedrock
MW-31S	381.04	16.0	17.00	5.0	376.04	15	366.04	15	17	4.00	Sand & Gravel
MW-32B	387.30	60.0	30.00	48.0	339.30	58	329.30	58	60	46.00	Bedrock
MW-33S/TB-93	381.19	12.0	11.00	6.0	375.19	11.0	370.19	--	--		Gravel
MW-34S/TB-92	382.76	46.0	14.50	9.5	373.26	14.5	368.26	--	--		Gravel

Table 3
Depths of Stratigraphic Contacts in Test Borings
NYSEG Granville Former MGP Site
Granville, NY

Boring ID	Ground	Total Depth		Bottom of	Bottom of	Bottom of Gravel		Gravel	Bottom of fine Sand and Silt		Bottom of Clay		Confining Layer Thickness	Top of Bedrock	
	ELEV	BGS	ELEV	BGS	BGS	BGS	ELEV	FT	BGS	ELEV	BGS	ELEV	FT	BGS	ELEV
TB-1	386.5	46.2	340.3	6.0	10.0	14.0	372.5	4.0	30.0	356.5	38.0	348.5	24.0	46.2	340.30
TB-2	386.2	47.0	339.2	NP	4.0	14.0	372.2	10.0	27.0	359.2	40.0	346.2	26.0	45.4	340.80
TB-3	385.3	34.3	351.0	4.0	12.0	16.5	368.8	4.5	22.0	363.3	32.0	353.3	15.5	34.0	351.30
TB-4	386.2	44.0	342.2	6.0	14.0	NP	--	--	20.0	366.2	34.0	352.2	20.0	44.0	342.20
TB-5	385.8	54.0	331.8	10.0	14.0	NP	--	--	26.0	359.8	42.0	343.8	28.0	54.0	331.80
TB-6	387.6	11.0	376.6	NP	>= 11	NDE	--	--	NDE	--	NDE	--	--	NDE	--
TB-6A	387.6	34.0	353.6	11.5	NP	15.0	372.6	3.5	24.0	363.6	28.0	359.6	13.0	34.0	353.60
TB-7	386.2	45.2	341.0	6.0	10.0	12.5	373.7	2.5	35.0	351.2	42.0	344.2	29.5	45.2	341.00
TB-8	384.9	26.0	358.9	NP	10.0	16.0	368.9	6.0	20.0	364.9	22.0	362.9	6.0	24.5	360.40
TB-9	384.5	23.1	361.4	NP	12.0	NP	--	--	NP	--	20.0	364.5	8.0	23.0	361.50
TB-10	384.4	14.0	370.4	NP	>= 14	NDE	--	--	NDE	--	NDE	--	--	NDE	--
TB-11	380.90	22.0	358.9	4.0	8.0	11.0	369.9	3.0	>= 22	<= 358.9	NDE	--	--	NDE	--
TB-12	382.25	36.0	346.3	NP	8.0	12.0	370.3	4.0	18.0	364.3	36.0	346.3	24.0	36.0	346.25
TB-13	386.67	52.0	334.7	4.0	10.0	14.0	372.7	4.0	21.0	365.7	48.0	338.7	34.0	52.0	334.67
TB-14	385.5	45.2	340.3	4.0	8.0	14.0	371.5	6.0	16.0	369.5	35.0	350.5	21.0	45.2	340.30
TB-15	385.74	64.0	321.7	8.0	12.0	16.0	369.7	4.0	19.0	366.7	42.0	343.7	26.0	49.0	336.74
TB-16	383.96	14.0	370.0	NP	4.0	13.5	370.5	9.5	NP	--	>= 14	<= 370.0	>=0.5	NDE	--
TB-17	386.87	55.0	331.9	NP	12.0	14.0	372.9	2.0	16.0	370.9	28.0	358.9	14.0	40.0	346.87
TB-18	388.26	54.0	334.3	3.5	9.0	15.0	373.3	6.0	17.5	370.8	35.0	353.3	20.0	39.0	349.26
TB-19	386.17	60.5	325.7	NP	10.0	14.5	371.7	4.5	16.0	370.2	36.0	350.2	21.5	45.5	340.67
TB-20	384.51	27.0	357.5	4.0	8.0	12.0	372.5	4.0	NP	--	20.0	364.5	8.0	27.0	357.51
TB-21	387.08	29.8	357.3	NP	10.0	12.0	375.1	2.0	NP	--	22.0	365.1	10.0	29.8	357.28
TB-22	384.43	38.8	345.6	NP	8.0	12.0	372.4	4.0	20.0	364.4	28.0	356.4	16.0	38.8	345.63
TB-23	382.65	14.0	368.7	NP	8.0	12.0	370.7	4.0	NP	--	>= 14	<= 368.7	>=2	NDE	--
TB-26	384.75	19.0	365.8	NP	10.0	14.0	370.8	4.0	NP	--	17.8	367.0	3.8	19.0	365.75
TB-27	383.3	34.7	348.6	NP	8.0	12.0	371.3	4.0	NP	--	24.0	359.3	12.0	34.7	348.60
TB-28	382.84	23.5	359.3	NP	8.0	12.0	370.8	4.0	NP	--	17.3	365.5	5.3	23.5	359.34
TB-29	393.05	33.5	359.6	11.5	14.5	21.0	372.1	6.5	NP	--	31.0	362.1	10.0	33.5	359.55
TB-30	382.26	15.0	367.3	NP	8.0	12.0	370.3	4.0	NP	--	NP	--	0.0	15.0	367.26
TB-31	382.96	20.3	362.7	NP	10.0	12.0	371.0	2.0	NP	--	14.0	369.0	2.0	20.3	362.66
TB-32	392.4	25.4	367.0	12.0	17.0	19.0	373.4	2.0	NP	--	NP	--	0.0	25.4	367.00
TB-34	392.89	32.5	360.4	9.0	15.0	19.5	373.4	4.5	NP	--	29.0	363.9	9.5	32.5	360.39
TB-35	382.83	15.0	367.8	NP	4.5	9.5	373.3	5.0	NP	--	14.0	368.8	4.5	15.0	367.83
TB-36	380.75	12.0	368.8	NP	6.0	10.0	370.8	4.0	11.5	369.3	>= 12	<= 368.8	>=2	NDE	--
TB-38	381.93	12.0	369.9	NP	5.0	11.5	370.4	6.5	NP	--	>= 12	<= 369.9	>=0.5	NDE	--
TB-39	381.89	14.0	367.9	NP	8.0	13.5	368.4	5.5	>= 14	<= 367.9	NDE	--	>=0.5	NDE	--
TB-40	382.7	14.0	368.7	NP	8.0	12.0	370.7	4.0	13.5	369.2	>= 14	<= 368.7	>=2	NDE	--
TB-42	382.08	14.0	368.1	NP	NS	12.5	369.6	--	>= 14	<= 368.1	NDE	--	--	NDE	--
TB-43	382.16	14.0	368.2	NP	6.0	11.5	370.7	5.5	12.0	370.2	>= 14	<= 368.2	>=2.5	NDE	--
TB-44	382.82	14.5	368.3	NP	6.0	12.0	370.8	6.0	NP	--	NP	--	0.0	14.5	368.32
TB-45	383.74	14.5	369.2	NP	4.0	11.5	372.2	7.5	>= 14	<= 369.7	NDE	--	--	NDE	--
TB-46	382.90	16.0	366.9	NP	4.0	14.5	368.4	10.5	>= 16	<= 366.9	NDE	--	--	NDE	--
TB-48	383.08	16.0	367.1	NP	8.0	14.5	368.6	6.5	>= 16	<= 367.1	NDE	--	--	NDE	--
TB-49	381.52	14.0	367.5	NP	6.5	10.6	370.9	4.1	>= 14	<= 367.5	NDE	--	--	NDE	--

Table 3
Depths of Stratigraphic Contacts in Test Borings
NYSEG Granville Former MGP Site
Granville, NY

Boring ID	Ground	Total Depth		Bottom of	Bottom of	Bottom of Gravel		Gravel	Bottom of fine Sand and Silt		Bottom of Clay		Confining Layer	Top of Bedrock	
	ELEV	BGS	ELEV	BGS	BGS	BGS	ELEV	FT	BGS	ELEV	BGS	ELEV	FT	BGS	ELEV
TB-50	382.18	14.0	368.2	NP	6.0	12.5	369.7	6.5	>= 14	</= 368.2	NDE	--	--	NDE	--
TB-51	382.45	14.0	368.5	NP	6.0	12.5	370.0	6.5	>= 14	</= 368.5	NDE	--	--	NDE	--
TB53	381.36	14.0	367.4	NP	4.0	12.5	368.9	8.5	>= 14	</= 367.4	NDE	--	--	NDE	--
TB-55	381.70	18.0	363.7	NP	6.0	11.0	370.7	5.0	>= 18	</= 363.7	NDE	--	--	NDE	--
TB-56	381.59	16.0	365.6	NP	7.0	11.0	370.6	4.0	>= 16	</= 365.6	NDE	--	--	NDE	--
TB-57	382.19	14.0	368.2	NP	4.0	12.5	369.7	8.5	>= 14	</= 368.2	NDE	--	--	NDE	--
TB-58	380.77	14.0	366.8	NP	2.0	12.3	368.5	10.3	>= 14	</= 366.8	NDE	--	--	NDE	--
TB-59	381.72	16.0	365.7	NP	NS	14.0	367.7	--	>= 16	</= 365.7	NDE	--	--	NDE	--
TB-60	381.44	14.0	367.4	NP	NS	12.5	368.9	--	>= 14	</= 367.4	NDE	--	--	NDE	--
TB-61	380.67	16.0	364.7	NP	NS	14.5	366.2	--	>= 16	</= 364.7	NDE	--	--	NDE	--
TB-62	381.17	14.0	367.2	NP	NS	12.2	369.0	--	>= 14	</= 367.2	NDE	--	--	NDE	--
TB-64	380.69	31.8	348.9	NP	6.0	11.0	369.7	5.0	NP	--	29.0	351.7	18.0	31.8	348.89
TB-65	380.98	16.0	365.0	NP	NS	14.0	367.0	--	NP	--	>= 16	</= 365.0	>/=2	NDE	--
TB-66	381.34	14.0	367.3	NP	NS	12.0	369.3	--	>= 14	</= 367.3	NDE	--	--	NDE	--
TB-67	381.19	14.0	367.2	NP	NS	12.5	368.7	--	>= 14	</= 367.2	NDE	--	--	NDE	--
TB-68	380.26	14.0	366.3	NP	NS	12.0	368.3	--	>= 14	</= 366.3	NDE	--	--	NDE	--
TB-69	379.86	16.0	363.9	NP	NS	10.5	369.4	--	14.0	365.9	>= 16	</= 363.9	>/=5.5	NDE	--
TB-70	379.26	12.0	367.3	NP	NS	11.0	368.3	--	NP	--	>= 12	</= 367.3	>/=1	NDE	--
TB-71	379.62	14.0	365.6	NP	NS	10.5	369.1	--	NP	--	>= 14	</= 368.6	>/=3.5	NDE	--
TB-73	379.31	12.0	367.3	NP	NS	10.0	369.3	--	NP	--	>= 12	</= 367.3	>/=2	NDE	--
TB-75	378.49	11.0	367.5	NP	NS	8.5	370.0	--	>= 11	</= 367.5	NDE	--	--	NDE	--
TB-77	381.51	14.0	367.5	NP	6.5	12.0	369.5	5.5	>=14	</= 367.5	NDE	--	--	NDE	--
TB-78	381.46	14.0	367.5	NP	NS	12.0	369.5	--	13.5	368.0	>= 14	</= 367.5	>/=2	NDE	--
TB-79	381.63	14.0	367.6	NP	4.0	12.0	369.6	8.0	>= 14	</= 367.6	NDE	--	--	NDE	--
TB-80	381.01	22.0	359.0	NP	NS	21.0	360.0	--	>= 22	</= 359.0	NDE	--	--	NDE	--
TB-82	383.51	19.5	364.0	NP	4.0	12.0	371.5	8.0	NP	--	16.0	367.5	4.0	19.5	364.0
TB-83	383.54	21.0	362.5	NP	4.0	12.5	371.0	8.5	NP	--	18.5	365.0	6.0	21.0	362.5
TB-84	383.92	21.0	362.9	5.0	10.0	12.3	371.6	2.3	NP	--	19.5	364.4	7.2	21.0	362.9
TB-85	383.20	18.5	364.7	NP	8.0	9.0	374.2	1.0	NP	--	15.0	368.2	6.0	18.5	364.7
TB-86	383.48	25.0	358.5	NP	8.0	10.4	373.1	2.4	NP	--	15.0	368.5	4.6	25.0	358.5
TB-87	388.05	36.6	351.5	NP	11.0	14.4	373.7	3.4	NP	--	31.0	357.1	16.6	36.6	351.5
TB-88	385.67	43.2	342.5	4.0	8.0	12.0	373.7	4.0	20.0	365.7	40.0	345.7	28.0	43.2	342.5
TB-89	386.50	54.3	332.2	11.0	NP	16.0	370.5	5.0	20.0	366.5	49.8	336.7	33.8	54.3	332.2
TB-90	383.08	13.0	370.1	NP	8.0	12.5	370.6	4.5	NP	NP	NP	NP	0.0	13.0	370.1
TB-91	381.64	16.0	365.6	NP	3.5	12.0	369.6	8.5	NP	NP	15.5	366.1	3.5	16.0	365.6
TB-94	382.00	14.0	368.0	NP	1.5	12.0	370.0	10.5	12.2	369.8	>=14	</= 368.0	>/= 2	NDE	--
TB-95	381.61	16.0	365.6	NP	6.0	13.0	368.6	7.0	>=16.0	</= 365.6	NDE	--	--	NDE	--
TB-96	381.94	57.5	324.4	NP	4.0	12.0	369.9	8.0	36.0	345.9	54.0	327.9	42.0	57.5	324.4
TB-98	380.55	18.0	362.6	5.5	10.5	12.0	368.6	1.5	>=18	</= 362.6	NDE	--	--	NDE	--
TB-99	381.52	14.0	367.5	NP	6.0	12.3	369.2	6.3	>=14	</= 367.5	NDE	--	--	NDE	--
TB-100	381.07	24.0	357.1	NP	2.0	19.5	361.6	17.5	>=24	</= 357.1	NDE	--	--	NDE	--
TB-101	383.63	31.0	352.6	NP	3.5	12.0	371.6	8.5	24.0	359.6	27.0	356.6	15.0	31.0	352.6
MW-1B	385.81	68.0	317.8	4.0	10.0	14.0	371.81	4.00	24.0	361.81	40.0	345.81	26.0	51.5	334.31
MW-1D	385.80	54.2	331.6	15.0	NP	NP	--	--	26.0	359.8	44.0	341.8	29.0	54.2	331.60

Table 3
Depths of Stratigraphic Contacts in Test Borings
NYSEG Granville Former MGP Site
Granville, NY

Boring ID	Ground Elevation	Total Depth		Bottom of Fill	Bottom of Sand	Bottom of Gravel		Gravel Thickness	Bottom of fine Sand and Silt		Bottom of Clay		Confining Layer Thickness	Top of Bedrock	
	ELEV	BGS	ELEV	BGS	BGS	BGS	ELEV	FT	BGS	ELEV	BGS	ELEV	FT	BGS	ELEV
MW-1S	386.00	20.0	366.0	NP	10.0	12.0	374.0	2.00	>= 20	<= 366.0	NDE	--	>=8	NDE	--
MW-2B	386.01	55.0	331.0	9.0	--	15.0	371.0	6.00	19.0	367.0	34.0	352.0	19.0	38.0	348.01
MW-2D	386.60	47.5	339.1	NP	8.0	16.0	370.6	8.00	26.0	360.6	42.0	344.6	26.0	47.0	339.60
MW-2S	386.70	18.0	368.7	6.0	9.5	12.0	374.7	2.50	>= 18	<= 368.7	NDE	--	--	NDE	--
MW-3B	385.30	58.0	327.3	6.0	10.0	14.3	371.0	4.30	20.5	364.8	30.0	355.3	15.7	42.7	342.60
MW-3D	386.00	41.5	344.5	NP	4.0	14.0	372.0	10.00	26.0	360.0	33.5	352.5	19.5	41.5	344.50
MW-3S	386.60	20.0	366.6	NP	8.0	14.0	372.6	6.00	>= 20	<= 366.6	NDE	--	--	NDE	--
MW-4D	383.50	33.0	350.5	NP	12.0	NP	--	--	NP	--	29.0	354.5	17.0	33.0	350.50
MW-4S	383.90	13.0	370.9	NP	12.0	NP	--	--	12.5	371.4	>= 13	<= 370.9	>=1	NDE	--
MW-5B	384.46	43.0	341.5	5.0	9.0	13.0	371.5	4.00	NP	--	19.0	365.5	6.0	26.0	358.46
MW-5S	384.59	18.0	366.6	5.0	9.0	13.0	371.6	4.00	NP	--	>= 18	<= 366.6	>=5	NDE	--
MW-6B	386.21	63.5	322.7	NP	8.0	15.0	371.2	7.00	16.0	370.2	40.0	346.2	25.0	45.5	340.71
MW-6S	386.18	18.0	368.2	NP	8.0	15.0	371.2	7.00	16.0	370.2	>= 18	<= 368.2	>= 2	NDE	--
MW-7B/TB-24	384.28	48.5	335.8	NP	9.0	12.0	372.3	3.00	16.0	368.3	28.0	356.3	16.0	31.6	352.68
MW-7S	384.38	18.0	366.4	NP	9.0	12.0	372.4	3.00	16.0	368.4	>= 18	<= 366.4	>=6	NDE	--
MW-8B	382.08	68.0	314.1	NP	5.0	10.5	371.6	5.50	18.0	364.1	49.0	333.1	38.5	53.0	329.08
MW-8D	382.08	53.5	328.6	NP	5.0	10.5	371.6	5.50	18.0	364.1	49.0	333.1	38.5	53.0	329.08
MW-8S	382.01	15.0	367.0	NP	5.0	10.5	371.5	5.50	>= 15	367.0	NDE	--	--	NDE	--
MW-9B	381.99	64.0	318.0	NP	4.0	12.5	369.5	8.50	18.0	364.0	44.0	338.0	31.5	47.5	334.49
MW-9D	381.88	49.0	332.9	NP	4.0	12.5	369.4	8.50	18.0	363.9	44.0	337.9	31.5	47.5	334.38
MW-9S	382.14	16.0	366.1	NP	4.0	12.5	369.6	8.50	>= 16	<= 366.1	NDE	--	--	NDE	--
MW-10D	381.77	42.3	339.5	NP	4.0	12.0	369.8	8.00	18.0	363.8	37.0	344.8	25.0	42.3	339.47
MW-10S	382.09	16.0	366.1	NP	4.0	12.0	370.1	8.00	>= 16	<= 366.1	NDE	--	--	NDE	--
MW-11S	392.58		392.6					0.00							
MW-11B	392.63	155.0	237.6	10.0	17.5	19.5	373.1	2.00	NP	--	27.0	365.6	7.5	30.1	362.53
MW-12B/TB-33	384.35	55.0	329.4	NP	8.0	12.0	372.4	4.00	NP	--	19.0	365.4	7.0	26.0	358.35
MW-13B	392.42	50.0	342.4	12.0	14.0	20.0	372.4	6.00	NP	--	26.0	366.4	6.0	36.5	355.92
MW-14B/TB-25	384.4	33.5	350.9	NP	8.0	12.0	372.4	4.00	NP	--	16.8	367.6	4.8	17.0	367.40
MW-15D	381.48	62.8	318.7	NP	6.0	13.6	367.9	7.60	34.0	368.5	58.0	323.5	44.4	62.8	318.68
MW-15S/TB-37	381.61	16.0	365.6	NP	8.0	12.0	369.6	4.00	>= 16	<= 365.6	NDE	--	--	NDE	--
MW-16S/TB41	381.77	16.0	365.8	NP	8.0	12.0	369.8	4.00	>= 16	<= 365.8	NDE	--	--	NDE	--
MW-17S	380.95	12.0	369.0	NP	7.0	10.0	371.0	3.00	>= 12	<= 369.0	NDE	--	--	NDE	--
MW-18S/TB-47	381.57	16.0	365.6	NP	4.0	14.0	367.6	10.00	>=16	<= 365.6	NDE	--	--	NDE	--
MW-19B	383.97	45.5	338.5	NP	6.0	12.0	372.0	6.00	NP	--	21.0	363.0	9.0	22.5	361.47
MW-20B	385.86	69.5	316.4	4.0	10.0	13.0	372.9	3.00	27.0	358.9	48.0	337.9	35.0	54.0	331.86
MW-21S/TB-52	381.98	14.0	368.0	NP	4.0	12.0	370.0	8.00	>= 14	<= 368.0	NDE	--	--	NDE	--
MW-22D	382.68	73.5	309.2	NP	4.0	17.0	365.7	13.00	33.5	366.7	62.0	320.7	45.0	73.5	309.18
MW-22S/TB-54	382.77	14.0	368.8	NP	4.5	11.0	371.8	6.50	>= 14	<= 368.8	NDE	--	--	NDE	--
MW-23B	382.50	47	335.5	NP	6.0	11.5	371.0	5.50	12.5	370.0	NP	--	1.0	16.5	366.00
MW-24S/TB-81	380.93	16.0	364.9	NP	NS	15.0	365.9	--	>= 16	<= 364.9	NDE	--	--	NDE	--
MW-25S/TB-63	382.70	14.0	368.7	NP	NS	13.0	369.7	--	>= 14	<= 368.7	NDE	--	--	NDE	--
MW-26S/TB-72	380.48	12.0	368.5	NP	NS	10.5	370.0	--	NP	--	>= 12	<= 368.5	>=1.5	NDE	--
MW-27S/TB-76	379.68	13.0	366.7	NP	NS	11.0	368.7	--	>= 13	<= 366.7	NDE	--	--	NDE	--
MW-28S/TB-74	378.85	11.0	367.9	NP	NS	8.5	370.4	--	10.0	368.9	>= 11	<= 367.9	>=2.5	NDE	--

Table 3
Depths of Stratigraphic Contacts in Test Borings
NYSEG Granville Former MGP Site
Granville, NY

Boring ID	Ground Elevation	Total Depth		Bottom of Fill	Bottom of Sand	Bottom of Gravel		Gravel Thickness	Bottom of fine Sand and Silt		Bottom of Clay		Confining Layer Thickness	Top of Bedrock	
	ELEV	BGS	ELEV	BGS	BGS	BGS	ELEV	FT	BGS	ELEV	BGS	ELEV	FT	BGS	ELEV
MW-29B	392.14	142.5	249.6	9.5	14.0	20.6	371.5	6.60	NP	--	NP	--	0.0	21.3	370.84
MW-30B	383.31	43.0	340.3	0.9	1.8	4.9	378.4	3.10	NP	--	6.3	377.0	1.4	9.0	374.31
MW-31S	381.04	16.0	365.0	1.0	8.0	14.0	367.0	6.00	>/=16	</= 365.0	NDE	--	>/= 2.0	NDE	NDE
MW-32B	387.30	60.0	327.3	2.5	8.0	15.0	372.3	7.00	NP	--	32.0	355.3	17.0	37.0	350.30
MW-33S/TB-93	381.19	12.0	369.2	NP	2.5	10.5	370.7	8.00	>/=12.0	369.2	NDE	--	--	NDE	--
MW-34S/TB-92	382.76	46.0	336.8	NP	4.0	14.2	368.6	10.20	20.0	362.8	42.0	340.8	27.8	>/=46	</= 336.8
RTB-1	374.65	5.0	369.7	NP	NP	>/= 5	</= 369.7	>/=5	NDE	--	NDE	--	--	NDE	--
RTB-2	374.33	5.0	369.3	NP	NP	4.0	370.3	4.0	>/= 5	</= 369.3	NDE	--	--	NDE	--
RTB-3	375.04	8.0	367.0	NP	NP	7.0	368.0	7.0	>/= 8	</= 367.0	NDE	--	--	NDE	--
RTB-4	374.57	6.0	368.6	NP	NP	5.0	369.6	5.0	>/= 6	</= 368.6	NDE	--	--	NDE	--
RTB-5	373.12	4.0	369.1	NP	NP	1.5	371.6	1.5	>/= 4	</= 369.1	NDE	--	--	NDE	--
RTB-6	372.69	4.0	368.7	NP	NP	1.5	371.2	1.5	>/= 4	</= 368.7	NDE	--	--	NDE	--
RTB-8	373.53	7.0	366.5	NP	NP	5.5	368.0	5.5	>/= 7	</= 366.5	NDE	--	--	NDE	--
RTB-9	373.96	9.0	365.0	NP	NP	3.0	371.0	3.0	8.5	365.5	>/= 9	</= 365.0	>/= 6	NDE	--
RTB-10	374.07	7.0	367.1	NP	NP	5.5	368.6	5.5	>/= 7	</= 367.1	NDE	--	--	NDE	--
RTB-11	374.44	7.0	367.4	NP	NP	6.0	368.4	6.0	>/= 7	</= 367.4	NDE	--	--	NDE	--
RTB-12	374.56	7.0	367.6	NP	NP	5.0	369.6	5.0	>/= 7	</= 367.6	NDE	--	--	NDE	--
RTB-13	374.06	7.0	367.1	NP	NP	5.5	368.6	5.5	>/= 7	</= 367.1	NDE	--	--	NDE	--
RTB-14	375.21	5.0	370.2	NP	NP	4.5	370.7	4.5	>/= 5	</= 370.2	NDE	--	--	NDE	--
RTB-15	373.08	8.0	365.1	NP	NP	6.0	367.1	6.0	>/= 8	</= 365.1	NDE	--	--	NDE	--
RTB-16	371.37	5.0	366.4	NP	NP	4.5	366.9	4.5	>/= 5	</= 366.4	NDE	--	--	NDE	--
RTB-17	371.67	5.0	366.7	NP	NP	4.0	367.7	4.0	>/= 5	</= 366.7	NDE	--	--	NDE	--
RTB-18	372.84	7.0	365.8	NP	NP	5.0	367.8	5.0	>/= 7	</= 365.8	NDE	--	--	NDE	--
RTB-19	373.65	7.0	366.7	NP	NP	6.5	367.2	6.5	>/= 7	</= 366.7	NDE	--	--	NDE	--

Notes:
NS- Not sampled.
NDE - Boring not deep enough to penetrate stratigraphic unit.
NP-Stratigraphic unit not present.
All elevations reported in feet above mean sea level.
All depths reported in feet below ground surface (BGS).

Table 4
Groundwater Elevation and NAPL Thickness Measurement Summary
NYSEG Granville Former MGP Site
Granville, New York

			Jan/Feb-09				October-09			February 5, 2010			July 16, 2010		
Well	Zone Monitored	Reference Point Elevation (feet NAVD88)	DTW (feet bgs)	Groundwater Elevation (feet NAVD88)	NAPL Thickness (feet) 01/08/09	NAPL Thickness (feet) 02/09/09	DTW (feet bgs)	Groundwater Elevation (feet NAVD88)	NAPL Thickness (feet)	DTW (feet bgs)	Groundwater Elevation (feet NAVD88)	NAPL Thickness (feet)	DTW (feet bgs)	Groundwater Elevation (feet NAVD88)	NAPL Thickness (feet)
MW-1S	Shallow overburden	387.69	8.76	378.93	0.0	0.0	11.24	376.45	-	10.80	376.89	NM	11.24	376.45	0.0
MW-1D	Deep overburden	387.91	9.80	378.11	0.1	0.1	12.10	375.81	-	11.51	376.40	NM	12.05	375.86	Blebs
MW-1B	Bedrock	387.61	10.30	377.31	0.5	0.5	13.50	374.11	Trace blebs	11.32	376.29	NM	11.86	375.75	0.9
MW-2S	Shallow overburden	388.44	9.71	378.73	0.0	Trace blebs	12.13	376.31	-	11.64	376.80	NM	12.09	376.35	Blebs
MW-2D	Deep overburden	388.25	9.67	378.58	0.0	0.0	12.76	375.49	-	12.14	376.11	NM	12.75	375.50	0.0
MW-2B	Bedrock	387.65	10.14	377.51	0.0	0.0	12.14	375.51	-	11.43	376.22	NM	12.05	375.60	0.0
MW-3S	Shallow overburden	388.17	9.19	378.98	0.0	0.0	12.06	376.11	-	11.70	376.47	NM	12.05	376.12	0.0
MW-3D	Deep overburden	387.59	9.57	378.02	0.0	0.0	12.11	375.48	-	11.51	376.08	NM	12.00	375.59	0.0
MW-3B	Bedrock	387.14	9.40	377.74	0.0	0.0	11.64	375.50	-	10.53	376.61	NM	11.80	375.34	0.0
MW-4S	Shallow overburden	385.76	8.11	377.65	0.0	0.0	10.39	375.37	-	9.78	375.98	NM	10.27	375.49	0.0
MW-4D	Deep overburden	385.48	8.78	376.70	0.0	0.0	10.07	375.41	-	9.48	376.00	NM	9.96	375.52	0.0
MW-5S	Shallow overburden	386.38	8.64	377.74	0.0	Trace blebs	10.52	375.86	Trace blebs	9.85	376.53	NM	10.29	376.09	0.0
MW-5B	Bedrock	385.99	8.40	377.59	5.0	13.2	11.32	374.67	10.0	9.97	376.02	NM	NM	NM	NM
MW-6S	Shallow overburden	388.15	9.88	378.27	0.0	0.0	11.82	376.33	Trace blebs	11.45	376.70	NM	11.82	376.33	Blebs
MW-6B	Bedrock	387.93	9.46	378.47	0.0	Trace blebs	12.57	375.36	Trace blebs	11.63	376.30	NM	12.54	375.39	Blebs
MW-7S	Shallow overburden	386.81	8.99	377.82	2.0	2.0	9.78	377.03	0.5	10.67	376.14	NM	11.08	375.73	1.5
MW-7B	Bedrock	386.36	8.75	377.61	0.0	0.0	11.80	374.56	-	10.31	376.05	NM	10.80	375.56	0.0
MW-8S	Shallow overburden	381.51	5.27	376.24	NM	0.0	8.00	373.51	-	5.11	376.40	NM	5.40	376.11	0.0
MW-8D	Deep overburden	381.6	5.79	375.81	NM	0.0	8.41	373.19	-	5.46	376.14	NM	6.05	375.55	0.0
MW-8B	Bedrock	381.36	10.70	370.66	NM	0.0	9.78	371.58	-	5.20	376.16	NM	5.81	375.55	0.0
MW-9S	Shallow overburden	381.81	5.82	375.99	NM	0.0	6.17	375.64	-	5.65	376.16	NM	5.95	375.86	0.0
MW-9D	Deep overburden	381.54	5.48	376.06	NM	0.0	6.88	374.66	-	5.45	376.09	NM	6.05	375.49	0.0
MW-9B	Bedrock	381.62	5.62	376.00	NM	0.0	7.01	374.61	-	5.64	375.98	NM	6.10	375.52	0.0
MW-10S	Shallow overburden	381.59	5.81	375.78	NM	0.0	6.24	375.35	-	5.61	375.98	NM	5.95	375.64	0.0
MW-10D	Deep overburden	381.34	5.09	376.25	NM	0.0	5.95	375.39	-	5.25	376.09	NM	5.88	375.46	0.0
MW-11S	Shallow overburden	392.31	NM	NM	NM	NM	14.78	377.53	-	15.62	376.69	NM	16.11	376.20	0.0
MW-11B	Bedrock	392.15	NM	NM	NM	NM	14.30	377.85	-	13.60	378.55	NM	15.71	376.44	0.0
MW-12B	Bedrock	386.54	9.00	377.54	8.0	12.9	11.80	374.74	2.0	10.52	376.02	NM	11.02	375.52	17.0
MW-13B	Bedrock	392.03	NM	NM	NM	NM	17.91	374.12	-	15.59	376.44	NM	16.29	375.74	0.0
MW-14B	Bedrock	384.18	8.44	375.74	0.0	Trace blebs	10.82	373.36	Trace blebs	8.12	376.06	NM	8.62	375.56	Blebs
MW-15S	Shallow overburden	381.18	5.77	375.41	NM	NM	6.10	375.08	-	5.54	375.64	NM	5.92	375.26	0.0
MW-15D	Deep overburden	381.48	--	--	--	--	--	--	-	--	--	--	6.07	375.41	0.0
MW-16S	Shallow overburden	381.25	5.68	375.57	NM	NM	6.05	375.20	-	5.45	375.80	NM	5.84	375.41	0.0
MW-17S	Shallow overburden	380.32	NM	NM	NM	NM	5.59	374.73	-	5.01	375.31	NM	5.44	374.88	0.0
MW-18S	Shallow overburden	384.10	NM	NM	NM	NM	9.62	374.48	3.1	8.44	375.66	NM	NM	NM	NM
MW-19B	Bedrock	383.57	NM	NM	NM	NM	8.08	375.49	Product	7.40	376.17	NM	7.94	375.63	Blebs
MW-20B	Bedrock	386.84	NM	NM	NM	NM	11.9	374.94	-	10.13	376.71	NM	10.81	376.03	0.0
MW-21S	Shallow overburden	383.77	NM	NM	NM	NM	8.99	374.78	-	8.34	375.43	NM	8.85	374.92	0.0
MW-22S	Shallow overburden	384.48	NM	NM	NM	NM	9.9	374.58	-	9.39	375.09	NM	9.92	374.56	0.0
MW-22D	Deep overburden	384.80	--	--	--	--	--	--	-	--	--	--	10.04	374.76	0.0
MW-23B	Bedrock	384.04	NM	NM	NM	NM	8.51	375.53	0.9	8.02	376.02	NM	8.52	375.52	Blebs
MW-24S	Shallow overburden	382.94	NM	NM	NM	NM	8.54	374.40	-	7.88	375.06	NM	8.46	374.48	0.0
MW-25S	Shallow overburden	385.07	NM	NM	NM	NM	9.95	375.12	-	9.31	375.76	NM	9.83	375.24	0.0
MW-26S	Shallow overburden	382.31	NM	NM	NM	NM	10.31	372.00	-	7.01	375.30	NM	7.69	374.62	0.0
MW-27S	Shallow overburden	381.75	NM	NM	NM	NM	7.42	374.33	-	6.64	375.11	NM	7.31	374.44	0.0
MW-28S	Shallow overburden	380.88	NM	NM	NM	NM	9.04	371.84	-	5.72	375.16	NM	6.44	374.44	0.0
MW-29B	Bedrock	391.88	--	--	--	--	--	--	-	--	--	--	15.49	376.39	0.0
MW-30B	Bedrock	382.98	--	--	--	--	--	--	-	--	--	--	7.55	375.43	0.0
MW-31S	Shallow overburden	381.04	--	--	--	--	--	--	-	--	--	--	5.90	375.14	0.0
MW-32B	Bedrock	387.30	--	--	--	--	--	--	-	--	--	--	12.90	374.40	0.0
MW-33S	Shallow overburden	383.10	--	--	--	--	--	--	-	--	--	--	8.40	374.70	0.0
MW-34S	Shallow overburden	385.22	--	--	--	--	--	--	-	--	--	--	9.75	375.47	0.0
SWRP-1	Staff Gauge	383.69	NM	NM	-	-	NM	NM	-	7.35	376.34	-	7.55	376.14	-
SWRP-2	Staff Gauge	386.02	NM	NM	-	-	NM	NM	-	9.52	376.50	-	9.71	376.31	-
SWRP-3	Staff Gauge	378.45	NM	NM	-	-	NM	NM	-	NM	--	-	3.00	375.45	-

NAVD88 = North American Vertical Datum of 1988

bgs = below ground surface

NM = Not Measured

Table 5
Summary of Coal Tar/NAPL Impacts Observed in Test Borings
NYSEG Granville Former MGP Site
Granville, New York

Boring ID	Ground Elevation (ft)	Total Depth (ft bgs)	Top of Sheen (ft bgs)	Bottom of Sheen (ft bgs)	Top of NAPL (ft bgs)	Bottom of NAPL (ft bgs)
TB-1	386.5	46.2	8.0	16.0	44.5	46.2
TB-2	386.2	47.0	8.0	10.0	42.0	47.0
TB-3	385.3	34.3	10.0	12.0	12.0	20.0
			20.0	28.0	32.0	34.0
TB-4	386.2	44.0	--	--	--	--
TB-5	385.8	54.0	--	--	--	--
TB-6	387.6	11.0	10.5	11.0	--	--
TB-6A	387.6	34.0	10.0	12.0	12.0	15.0
			15.0	28.0		
TB-7	386.2	45.2	--	--	--	--
TB-8	384.9	26.0	8.0	10.0	10.0	16.0
			16.0	18.0		
TB-9	384.5	23.1	8.0	10.0	10.0	12.0
TB-10	384.4	14.0	--	--	10.0	14.0
TB-11	380.90	--	--	--	--	--
TB-12	382.25	36.0	12.0	18.0	10.0	12.0
TB-13	386.67	52.0	--	--	--	--
TB-14	385.5	45.2	--	--	--	--
TB-15	385.74	64.0	49.0	57.0	--	--
TB-16	383.96	--	8.0	10.0	10.0	13.5
			13.5	14.0		
TB-17	386.87	55.0	10.0	11.5	11.5	16.0
TB-18	388.26	54.0	13.0	15.0	15.0	17.5
			17.5	20.0		
TB-19	386.17	60.5	--	--	10.0	14.5
TB-20	384.51	27.0	--	--	8.0	12.0
TB-21	387.08	29.8	--	--	10.0	12.0
TB-22	384.43	38.8	8.0	16.0	--	--
TB-23	382.65	14.0	--	--	10.0	12.0
TB-26	384.75	19.0	10.0	12.0	12.0	14.0
			14.0	17.8		
TB-27	383.3	34.7	--	--	8.0	10.0
TB-28	382.84	23.5	--	--	--	--
TB-29	393.05	33.5	--	--	--	--
TB-30	382.26	15.0	14.0	15.0	--	--
TB-31	382.96	20.3	--	--	10.0	13.0
TB-32	392.4	25.4	--	--	--	--
TB-34	392.89	32.5	--	--	--	--
TB-35	382.83	15.0	--	--	--	--
TB-36	380.75	12.0	10.0	11.5	8.0	10.0
TB-38	381.93	12.0	--	--	--	--
TB-39	381.89	14.0	--	--	12.5	13.5
TB-40	382.7	14.0	--	--	--	--
TB-42	382.08	14.0	12.5	14.0	10.0	12.5
TB-43	382.16	14.0	8.0	10.0	10.0	11.5
			11.5	14.0		
TB-44	382.82	14.5	--	--	--	--

Table 5
Summary of Coal Tar/NAPL Impacts Observed in Test Borings
NYSEG Granville Former MGP Site
Granville, New York

Boring ID	Ground Elevation (ft)	Total Depth (ft bgs)	Top of Sheen (ft bgs)	Bottom of Sheen (ft bgs)	Top of NAPL (ft bgs)	Bottom of NAPL (ft bgs)
TB-45	383.74	14.5	--	--	--	--
TB-46	382.90	16.0	12	14.5	--	--
TB-48	383.08	16.0	12	14.5	--	--
TB-49	381.52	14.0	10	10.6	--	--
TB-50	382.18	14.0	10	11	11	12.5
TB-51	382.45	14.0	10	12.5	--	--
TB53	381.36	14.0	--	--	11.5	12.5
TB-55	381.70	18.0	--	--	--	--
TB-56	381.59	16.0	--	--	--	--
TB-57	382.19	14.0	--	--	--	--
TB-58	380.77	14.0	10	11	11	12.3
TB-59	381.72	16.0	--	--	--	--
TB-60	381.44	14.0	11	12	12	12.5
TB-61	380.67	16.0	--	--	--	--
TB-62	381.17	14.0	11.5	12.2	--	--
TB-64	380.69	31.8	--	--	--	--
TB-65	380.98	16.0	--	--	12.0	14.0
TB-66	381.34	14.0	--	--	11.0	12.0
TB-67	381.19	14.0	--	--	12.0	12.5
TB-68	380.26	14.0	--	--	--	--
TB-69	379.86	16.0	8.0	10.5	--	--
TB-70	379.26	12.0	10.0	10.5	10.5	11.0
TB-71	379.62	14.0	--	--	--	--
TB-73	379.31	12.0	--	--	--	--
TB-75	378.49	11.0	--	--	--	--
TB-77	381.51	14.0	--	--	--	--
TB-78	381.46	14.0	--	--	--	--
TB-79	381.63	14.0	--	--	--	--
TB-80	381.01	22.0	--	--	--	--
TB-82	383.51	19.5	--	--	--	--
TB-83	383.54	21.0	9.0	10.0	11.6	12.5
TB-84	383.92	21.0	11.5	12.3	--	--
TB-85	383.20	18.5	--	--	8.0	9.0
TB-86	383.48	25.0	--	--	8.0	10.4
TB-87	388.05	36.6	14.0	15.0	12.0	14.0
TB-88	385.67	43.2	--	--	--	--
TB-89	386.50	54.3	--	--	52.0	53.8
TB-90	383.08	13.0	--	--	--	--
TB-91	381.64	16.0	--	--	--	--
TB-94	382.00	14.0	--	--	--	--
TB-95	381.61	16.0	--	--	--	--
TB-96	381.94	57.5	--	--	--	--
TB-98	380.55	18.0	--	--	--	--
TB-99	381.52	14.0	--	--	--	--
TB-100	381.07	24.0	--	--	--	--
TB-101	383.63	31.0	--	--	--	--
RTB-1	374.65	5.0	--	--	2.9	5.0

Table 5
Summary of Coal Tar/NAPL Impacts Observed in Test Borings
NYSEG Granville Former MGP Site
Granville, New York

Boring ID	Ground Elevation (ft)	Total Depth (ft bgs)	Top of Sheen (ft bgs)	Bottom of Sheen (ft bgs)	Top of NAPL (ft bgs)	Bottom of NAPL (ft bgs)
RTB-2	374.33	5.0	--	--	--	--
RTB-3	375.04	8.0	--	--	--	--
RTB-4	374.57	6.0	--	--	--	--
RTB-5	373.12	4.0	1.5	2.5	--	--
RTB-6	372.69	4.0	--	--	1.0	1.5
RTB-8	373.53	7.0	3.0	5.0	--	--
RTB-9	373.96	9.0	1.5	5.0	--	--
RTB-10	374.07	7.0	2.5	3.0	5.0	5.5
			4.5	5.0		
			5.5	6.0		
RTB-11	374.44	7.0	4.0	5.0	5.0	6.0
			6.0	6.2		
RTB-12	374.56	7.0	4.5	4.7	--	--
RTB-13	374.06	7.0	4.7	5.0	5.0	5.5
			5.5	5.8		
RTB-14	375.21	5.0	--	--	--	--
RTB-15	373.08	8.0	--	--	--	--
RTB-16	371.37	5.0	--	--	--	--
RTB-17	371.67	5.0	--	--	--	--
RTB-18	372.84	7.0	--	--	--	--
RTB-19	373.65	7.0	--	--	--	--
MW-1B	385.81	68	--	--	--	--
MW-1D	385.80	54.2	--	--	--	--
MW-1S	386.00	20.0	--	--	--	--
MW-2B	386.01	55.0	12	13	--	--
MW-2D	386.60	47.5	16.0	24.0	10.0	16.0
MW-2S	386.70	18.0	10.0	12.0	--	--
MW-3B	385.30	58.0	12.0	14.3	10.0	12.0
MW-3D	386.00	41.5	11.0	14.0	--	--
MW-3S	386.60	20.0	12.0	14.0	--	--
MW-4D	383.50	33.0	--	--	--	--
MW-4S	383.90	13.0	--	--	--	--
MW-5B	384.46	43.0	8.0	13.0	31.5	34.0
			34.0	35.0	35.0	36.5
					40.0	41.0
MW-5S	384.59	18.0	8.0	13.0	--	--
MW-6B	386.21	63.5	--	--	12.0	16.0
MW-6S	386.18	18.0	--	--	12.0	16.0
MW-7B/TB-24	384.28	48.5	--	--	9.0	12.0
MW-7S	384.38	18.0	--	--	9.0	12.0
MW-8B	382.08	68.0	--	--	--	--
MW-8D	382.08	53.5	--	--	--	--
MW-8S	382.01	15.0	--	--	--	--
MW-9B	381.99	64.0	--	--	--	--
MW-9D	381.88	49.0	--	--	--	--
MW-9S	382.14	16.0	--	--	--	--
MW-10D	381.77	42.3	--	--	--	--

Table 5
Summary of Coal Tar/NAPL Impacts Observed in Test Borings
NYSEG Granville Former MGP Site
Granville, New York

Boring ID	Ground Elevation (ft)	Total Depth (ft bgs)	Top of Sheen (ft bgs)	Bottom of Sheen (ft bgs)	Top of NAPL (ft bgs)	Bottom of NAPL (ft bgs)
MW-10S	382.09	16.0	--	--	--	--
MW-11S	392.58					
MW-11B	392.63	155	139	141.5	--	--
MW-12B/TB-33	384.35	55.0	8.0	10.0	10.0	12.0
			19.0	23.0	44.0	45.0
			30.0	44.0	52.5	53.5
			45.0	52.5		
MW-13B	392.42	50	--	--	--	--
MW-14B/TB-25	384.4	33.5	--	--	8.0	12.0
					26.5	28.5
MW-15D	381.48	62.8	--	--	--	--
MW-15S/TB-37	381.61	16.0	--	--	--	--
MW-16S/TB41	381.77	16.0	--	--	--	--
MW-17S	380.95	12.0	--	--	--	--
MW-18S/TB-47	381.57	16.0	14.0	16.0	10.0	14.0
MW-19B	383.97	45.5	40.0	43.0	11.0	12.0
MW-20B	385.86	69.5	--	--	--	--
MW-21S/TB-52	381.98	14.0	--	--	--	--
MW-22D	382.68	73.5	16.8	17.0	--	--
MW-22S/TB-54	382.77	14.0	--	--	--	--
MW-23B	382.50	47.0	11.0	12.0	--	--
			35.0	39.5		
MW-24S/TB-81	380.93	16.0	--	--	--	--
MW-25S/TB-63	382.70	14.0	--	--	--	--
MW-26S/TB-72	380.48	12.0	--	--	--	--
MW-27S/TB-76	379.68	13.0	--	--	--	--
MW-28S/TB-74	378.85	11.0	--	--	--	--
MW-29B	392.14	142.5	--	--	--	--
MW-30B	383.31	43.0	--	--	--	--
MW-31S	381.04	16.0	--	--	--	--
MW-32B	387.30	60.0	--	--	--	--
MW-33S/TB-93	381.19	12.0	--	--	--	--
MW-34S/TB-92	382.76	46.0	12.0	14.2	--	--

Italic - Depth approximated NDE - Boring not deep enough to penetrate unit

Table 6
Subsurface Soil VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TB-11 7/27/2009 TB11(11-12) 11-12	TB-12 12/15/2008 TB12(10-12)121508 10-12	TB-12 12/15/2008 TB12(18-20)121508 18-20	TB-12 12/15/2008 TB12(31-33)121508 31-33	TB-13 11/18/2008 TB13(22-24)111808 22-24	TB-14 11/17/2008 TB14(14-16)111708 14-16	TB-14 11/17/2008 TB140(14-16)111708 14-16	TB-15 11/20/2008 TB15(20-22)112008 20-22	TB-17 12/2/2008 TB17(11.5-12)120208 11.5-12	TB-17 12/2/2008 TB17(26-28)120208 26-28	TB-18 11/11/2008 TB18(13-15)111108 13-15	TB-18 11/11/2008 TB18(27-29)111108 27-29
BTEX (mg/Kg)															
Benzene	71-43-2	0.06	44	<0.005 U	<0.006 U	0.022	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
Ethylbenzene	100-41-4	1	390	<0.005 U	0.01	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	8.4	<0.007 U	0.11 J	0.001 J
Toluene	108-88-3	0.7	500	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	0.7 J	<0.007 U	<0.21 U	<0.005 U
Xylenes, Total	1330-20-7	0.26	500	<0.01 U	0.042	<0.022 U	<0.021 U	<0.019 U	<0.02 U	<0.018 U	0.01 J	<4.1 U	<0.02 U	0.36 J	0.007 J
Total BTEX		NL	NL	ND	0.052	0.022	ND	ND	ND	ND		9.1	ND	0.47	0.008
VOC (mg/Kg)															
1,1,1-Trichloroethane	71-55-6	0.68	500	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 UJ	<0.005 U
1,1,2-Trichloroethane	79-00-5	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
1,1-Dichloroethane	75-34-3	0.27	240	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
1,1-Dichloroethene	75-35-4	0.33	500	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
1,2,4-Trichlorobenzene	120-82-1	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
1,2-Dibromoethane	106-93-4	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
1,2-Dichlorobenzene	95-50-1	1.1	500	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
1,2-Dichloroethane	107-06-2	0.02	30	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
1,2-Dichloropropane	78-87-5	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
1,3,5-Trimethylbenzene	108-67-8	8.4	190	<0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	2.4	280	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
1,3-Dichloropropane	142-28-9	NL	NL	<0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	1.8	130	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
2-Butanone	78-93-3	0.12	500	<0.025 U	<0.029 U	<0.036 U	<0.034 U	<0.031 U	<0.033 U	<0.031 U	<0.039 U	<6.9 U	<0.034 U	<1.1 U	<0.027 U
2-Chloroethyl vinyl ether	110-75-8	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	591-78-6	NL	NL	<0.025 U	<0.029 U	<0.036 U	<0.034 U	<0.031 U	<0.033 U	<0.031 U	<0.039 U	<6.9 U	<0.034 U	<1.1 U	<0.027 U
2-Nitropropane	79-46-9	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	108-10-1	NL	NL	<0.025 U	<0.029 U	<0.036 U	<0.034 U	<0.031 U	<0.033 U	<0.031 U	<0.039 U	<6.9 U	<0.034 U	<1.1 U	<0.027 U
Acetone	67-64-1	0.05	500	<0.025 U	0.007 J	0.019 J	0.01 J	0.041	0.016 J	0.046 J	0.034 J	<6.9 U	0.015 J	<1.1 UJ	<0.027 U
Bromobenzene	108-86-1	NL	NL	<0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	75-27-4	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
Bromoform	75-25-2	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
Bromomethane	74-83-9	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
Carbon Disulfide	75-15-0	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 UJ	<0.006 UJ	<0.006 UJ	<0.008 U	<1.4 U	<0.007 U	<0.21 UJ	<0.005 UJ
Carbon Tetrachloride	56-23-5	0.76	22	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
Chlorobenzene	108-90-7	1.1	500	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
Chloroethane	75-00-3	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
Chloroform	67-66-3	0.37	350	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
Chloromethane	74-87-3	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 UJ	<0.005 U
cis-1,2-Dichloroethene	156-59-2	0.25	500	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
Cyclohexane	110-82-7	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
Dibromochloromethane	124-48-1	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
Dichlorodifluoromethane	75-71-8	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 UJ	<0.006 UJ	<0.006 UJ	<0.008 U	<1.4 U	<0.007 U	<0.21 UJ	<0.005 UJ
Isopropylbenzene	98-82-8	NL	NL	<0.005 U	0.025	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	0.002 J	1.4	<0.007 U	0.2 J	<0.005 U
Methyl acetate	79-20-9	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 UJ	<0.006 UJ	<0.006 UJ	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 UJ
Methyl Methacrylate	80-62-6	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	108-87-2	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
Methylene chloride	75-09-2	0.05	500	<0.005 U	<0.023 U	<0.026 U	<0.022 U	<0.009 U	<0.014 U	<0.02 U	<0.008 U	1.4	<0.013 U	<0.21 UJ	<0.009 U
Methyl-t-Butyl Ether (MTBE)	1634-04-4	0.93	500	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
Styrene	100-42-5	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	0.002 J	<1.4 U	<0.007 U	<0.21 U	<0.005 U
t-Butanol	75-65-0	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	127-18-4	1.3	150	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
trans-1,2-Dichloroethene	156-60-5	0.19	500	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
Trichloroethene	79-01-6	0.47	200	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 U	<0.005 U
Trichlorofluoromethane	75-69-4	NL	NL	<0.005 U	<0.006 U	<0.007 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U	<0.008 U	<1.4 U	<0.007 U	<0.21 UJ	<0.005 U
Vinyl chloride	75-01-4	0.02	13	<0.01 U	<0.012 U	<0.014 U	<0.014 U	<0.012 U	<0.013 U	<0.012 U	<0.016 U	<2.7 U	<0.014 U	<0.43 U	<0.011 U

Notes:
NA = Not Applicable
NL = No Limit
mg/Kg = milligram per kilogram
Bold Values Exceed NYSDEC Part 375-6 Unrestricted Use
Yellow Highlighted Values Exceed NYSDEC Part 375-6 Commercial Use
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 6
Subsurface Soil VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TB-19 11/19/2008 TB19(12-14)111908 12-14	TB-19 11/19/2008 TB19(24-26)111908 24-26	TB-20 12/10/2008 TB20(24-26)121008 24-26	TB-21 11/14/2008 TB21(10-12)111408 10-12	TB-21 11/14/2008 TB21(26-28)111408 26-28	TB-22 11/11/2008 TB22(14-16)111108 14-16	TB-22 11/11/2008 TB22(20-22)111108 20-22	TB-26 11/13/2008 TB26(12-14)111308 12-14	TB-26 11/13/2008 TB26(16-18)111308 16-18	TB-27 11/11/2008 TB27(12-14)111108 12-14	TB-27 11/11/2008 TB27(16-18)111108 16-18	TB-28 11/12/2008 TB28(8-10)111208 8-10
BTEX (mg/Kg)															
Benzene	71-43-2	0.06	44	<0.023 U	<0.007 U	0.001 J	<0.13 U	<0.12 U	<0.006 U	0.06	<0.14 UJ	0.23 J	0.058	<0.006 U	<0.005 U
Ethylbenzene	100-41-4	1	390	0.6	<0.007 U	<0.005 U	6.4	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	0.085 J	0.002 J	<0.006 U	<0.005 U
Toluene	108-88-3	0.7	500	0.022 J	<0.007 U	<0.005 U	0.8	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	0.26 J	0.005 J	<0.006 U	<0.005 U
Xylenes, Total	1330-20-7	0.26	500	1	<0.022 U	<0.016 U	5.8	<0.38 U	<0.019 U	<0.021 U	<0.43 UJ	<0.44 UJ	0.056	<0.02 U	<0.016 U
Total BTEX		NL	NL	1.622	ND	0.001	13	ND	ND	0.06	ND	0.575	0.121	ND	ND
VOC (mg/Kg)															
1,1,1-Trichloroethane	71-55-6	0.68	500	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
1,1,2-Trichloroethane	79-00-5	NL	NL	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
1,1-Dichloroethane	75-34-3	0.27	240	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
1,1-Dichloroethene	75-35-4	0.33	500	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
1,2,4-Trichlorobenzene	120-82-1	NL	NL	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
1,2-Dibromoethane	106-93-4	NL	NL	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
1,2-Dichlorobenzene	95-50-1	1.1	500	0.008 J	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
1,2-Dichloroethane	107-06-2	0.02	30	<0.007 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
1,2-Dichloropropane	78-87-5	NL	NL	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
1,3,5-Trimethylbenzene	108-67-8	8.4	190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	2.4	280	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
1,3-Dichloropropane	142-28-9	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	1.8	130	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
2-Butanone	78-93-3	0.12	500	<0.11 U	<0.036 U	<0.026 U	<0.65 U	<0.63 U	<0.031 U	<0.035 U	<0.72 UJ	<0.74 UJ	<0.033 U	<0.032 U	<0.026 U
2-Chloroethyl vinyl ether	110-75-8	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	591-78-6	NL	NL	<0.11 U	<0.036 U	<0.026 U	<0.65 U	<0.63 U	<0.031 U	<0.035 U	<0.72 UJ	<0.74 UJ	<0.033 U	<0.032 U	<0.026 U
2-Nitropropane	79-46-9	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	108-10-1	NL	NL	<0.11 U	<0.036 U	<0.026 U	<0.65 U	<0.63 U	<0.031 U	<0.035 U	<0.72 UJ	<0.74 UJ	<0.033 U	<0.032 U	<0.026 U
Acetone	67-64-1	0.05	500	0.1 J	0.036 J	0.032 J	<0.65 U	<0.63 U	<0.033 U	<0.035 U	<0.72 UJ	<0.74 UJ	<0.033 U	<0.032 U	<0.026 U
Bromobenzene	108-86-1	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	75-27-4	NL	NL	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
Bromoform	75-25-2	NL	NL	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
Bromomethane	74-83-9	NL	NL	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
Carbon Disulfide	75-15-0	NL	NL	0.009 J	<0.007 UJ	<0.005 U	<0.13 U	<0.12 U	<0.006 UJ	<0.007 UJ	<0.14 UJ	<0.15 UJ	<0.007 UJ	<0.006 UJ	<0.005 UJ
Carbon Tetrachloride	56-23-5	0.76	22	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
Chlorobenzene	108-90-7	1.1	500	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
Chloroethane	75-00-3	NL	NL	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 UJ	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
Chloroform	67-66-3	0.37	350	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
Chloromethane	74-87-3	NL	NL	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
cis-1,2-Dichloroethene	156-59-2	0.25	500	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
Cyclohexane	110-82-7	NL	NL	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
Dibromochloromethane	124-48-1	NL	NL	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
Dichlorodifluoromethane	75-71-8	NL	NL	<0.023 UJ	<0.007 UJ	<0.005 U	<0.13 U	<0.12 U	<0.006 UJ	<0.007 UJ	<0.14 UJ	<0.15 UJ	<0.007 UJ	<0.006 UJ	<0.005 UJ
Isopropylbenzene	98-82-8	NL	NL	2.8	<0.007 U	<0.005 U	1.4	<0.12 U	<0.006 U	<0.007 U	0.079 J	<0.15 UJ	0.007	<0.006 U	<0.005 U
Methyl acetate	79-20-9	NL	NL	<0.023 UJ	<0.007 UJ	<0.005 U	<0.13 U	<0.12 UJ	<0.006 UJ	<0.007 UJ	<0.14 UJ	<0.15 UJ	<0.007 UJ	<0.006 UJ	<0.005 UJ
Methyl Methacrylate	80-62-6	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	108-87-2	NL	NL	0.025	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
Methylene chloride	75-09-2	0.05	500	0.031 J	0.005 J	<0.033 U	<0.13 U	<0.12 U	<0.018 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.01 U	<0.009 U	<0.008 U
Methyl-t-Butyl Ether (MTBE)	1634-04-4	0.93	500	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
Styrene	100-42-5	NL	NL	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
t-Butanol	75-65-0	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	127-18-4	1.3	150	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
trans-1,2-Dichloroethene	156-60-5	0.19	500	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
Trichloroethene	79-01-6	0.47	200	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
Trichlorofluoromethane	75-69-4	NL	NL	<0.023 U	<0.007 U	<0.005 U	<0.13 U	<0.12 U	<0.006 U	<0.007 U	<0.14 UJ	<0.15 UJ	<0.007 U	<0.006 U	<0.005 U
Vinyl chloride	75-01-4	0.02	13	<0.045 U	<0.014 U	<0.011 U	<0.26 U	<0.25 U	<0.012 U	<0.014 U	<0.29 UJ	<0.3 UJ	<0.013 U	<0.013 U	<0.011 U

Notes:
NA = Not Applicable
NL = No Limit
mg/Kg = milligram per kilogram
Bold Values Exceed NYSDEC Part 375-6 Unrestricted Use
Yellow Highlighted Values Exceed NYSDEC Part 375-6 Commercial Use
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 6
Subsurface Soil VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TB-29 8/11/2009 TB29(12-13.5)081109 12-13.5	TB-30 1/6/2009 TB30(14-15)010609 14-15	TB-31 12/1/2008 TB31(12-13)120108 12-13	TB-31 12/1/2008 TB31(18-20)120108 18-20	TB-32 8/12/2009 TB32(21-23)081209 21-23	TB-34 8/11/2009 TB34(17-19)081109 17-19	TB-35 12/1/2008 TB35(8-10)120108 8-10	TB-36 12/18/2008 TB-36(8-10)121808 8-10	TB-36 12/18/2008 TB-36(10-12)121808 10-12	TB-38 12/18/2008 TB-38(6-8)121808 6-8	TB-38 12/18/2008 TB-38(10-12)121808 10-12	TB-39 12/18/2008 TB-39(12.5-13.5)121808 12.5-13.5
BTEX (mg/Kg)															
Benzene	71-43-2	0.06	44	<0.0060 U	<0.022 U	0.011 J	0.007	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
Ethylbenzene	100-41-4	1	390	<0.0060 U	<0.022 U	0.26	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	0.012	<0.006 U	<0.006 U	0.25
Toluene	108-88-3	0.7	500	<0.0060 U	<0.022 U	0.052	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	0.001 J	<0.006 U	<0.006 U	0.011 J
Xylenes, Total	1330-20-7	0.26	500	<0.012 U	<0.065 U	0.46	0.006 J	<0.011 U	<0.011 U	<0.018 U	<0.016 U	0.02	<0.017 U	<0.019 U	0.64
Total BTEX		NL	NL	ND	ND	0.783	0.013	ND	ND	ND	ND	0.033	ND	ND	0.901
VOC (mg/Kg)															
1,1,1-Trichloroethane	71-55-6	0.68	500	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
1,1,2-Trichloroethane	79-00-5	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
1,1-Dichloroethane	75-34-3	0.27	240	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
1,1-Dichloroethene	75-35-4	0.33	500	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
1,2,4-Trichlorobenzene	120-82-1	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
1,2-Dibromoethane	106-93-4	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
1,2-Dichlorobenzene	95-50-1	1.1	500	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
1,2-Dichloroethane	107-06-2	0.02	30	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
1,2-Dichloropropane	78-87-5	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
1,3,5-Trimethylbenzene	108-67-8	8.4	190	NA	<0.022 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	2.4	280	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
1,3-Dichloropropane	142-28-9	NL	NL	NA	<0.022 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	1.8	130	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
2-Butanone	78-93-3	0.12	500	<0.03 U	<0.11 U	<0.17 U	<0.027 U	<0.028 U	<0.028 U	<0.03 U	<0.028 U	<0.03 U	<0.028 U	<0.032 U	<0.12 U
2-Chloroethyl vinyl ether	110-75-8	NL	NL	NA	<0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	591-78-6	NL	NL	<0.03 U	<0.11 U	<0.17 U	<0.027 U	<0.028 U	<0.028 U	<0.03 U	<0.028 U	<0.03 U	<0.028 U	<0.032 U	<0.12 U
2-Nitropropane	79-46-9	NL	NL	NA	<0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	108-10-1	NL	NL	<0.03 U	<0.11 U	<0.17 U	<0.027 U	<0.028 U	<0.028 U	<0.03 U	<0.028 U	<0.03 U	<0.028 U	<0.032 U	<0.12 U
Acetone	67-64-1	0.05	500	<0.03 U	0.023 J	0.12 J	0.014 J	<0.028 U	<0.028 U	<0.03 U	<0.028 U	<0.03 U	<0.028 U	<0.032 U	<0.12 U
Bromobenzene	108-86-1	NL	NL	NA	<0.022 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	75-27-4	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
Bromoform	75-25-2	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
Bromomethane	74-83-9	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
Carbon Disulfide	75-15-0	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
Carbon Tetrachloride	56-23-5	0.76	22	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
Chlorobenzene	108-90-7	1.1	500	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 UJ	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
Chloroethane	75-00-3	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
Chloroform	67-66-3	0.37	350	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
Chloromethane	74-87-3	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
cis-1,2-Dichloroethene	156-59-2	0.25	500	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
Cyclohexane	110-82-7	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
Dibromochloromethane	124-48-1	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
Dichlorodifluoromethane	75-71-8	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 UJ	<0.006 UJ	<0.006 UJ	<0.006 UJ	<0.024 UJ
Isopropylbenzene	98-82-8	NL	NL	<0.0060 U	<0.022 U	0.07	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	0.004 J	<0.006 U	<0.006 U	0.17
Methyl acetate	79-20-9	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
Methyl Methacrylate	80-62-6	NL	NL	NA	<0.022 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	108-87-2	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
Methylene chloride	75-09-2	0.05	500	0.0042 J	0.065 J	0.11 J	<0.017 U	0.0028 J	0.0032 J	<0.014 U	<0.006 UJ	<0.006 UJ	0.011	<0.006 UJ	<0.024 UJ
Methyl-t-Butyl Ether (MTBE)	1634-04-4	0.93	500	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
Styrene	100-42-5	NL	NL	<0.0060 U	<0.022 U	<0.018 J	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
t-Butanol	75-65-0	NL	NL	NA	<0.43 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	127-18-4	1.3	150	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
trans-1,2-Dichloroethene	156-60-5	0.19	500	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
Trichloroethene	79-01-6	0.47	200	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
Trichlorofluoromethane	75-69-4	NL	NL	<0.0060 U	<0.022 U	<0.034 U	<0.005 U	<0.0055 U	<0.0056 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.024 U
Vinyl chloride	75-01-4	0.02	13	<0.012 U	<0.043 U	<0.067 U	<0.011 U	<0.011 U	<0.011 U	<0.012 U	<0.011 U	<0.012 U	<0.011 U	<0.013 U	<0.048 U

Notes:
NA = Not Applicable
NL = No Limit
mg/Kg = milligram per kilogram
Bold Values Exceed NYSDEC Part 375-6 Unrestricted Use
Yellow Highlighted Values Exceed NYSDEC Part 375-6 Commercial Use
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 6
Subsurface Soil VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TB-39 12/18/2008 TB-39(13.5-14)121808 13.5-14	TB-40 12/18/2008 TB-40(8-10)121808 8-10	TB-40 12/18/2008 TB-40(12-14)121808 12-14	TB-46 8/6/2009 TB46(14-15)080609 14-15	TB-46 8/6/2009 TB46(15-16)080609 15-16	TB-48 8/6/2009 TB48(13.5-14.5)080609 13.5-14.5	TB-48 8/6/2009 TB48(15-16)080609 15-16	TB-49 8/12/2009 TB49(10-11)081209 10-11	TB-49 8/12/2009 TB49(12-13)081209 12-13	TB-55 8/14/2009 TB55(11-12)081409 11-12	TB-56 8/14/2009 TB56(11-12)081409 11-12	TB-57 8/17/2009 TB57(12-14)081709 12-14
BTEX (mg/Kg)															
Benzene	71-43-2	0.06	44	<0.006 U	<0.006 U	<0.006 U	0.0061	0.012	0.0046 J	0.049	<0.0056 U	0.017	<0.0061 U	<0.0072 U	0.0025 J
Ethylbenzene	100-41-4	1	390	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	0.0020 J	<0.0056 U	0.0026 J	0.0018 J	<0.0061 U	<0.0072 U	<0.0064 U
Toluene	108-88-3	0.7	500	<0.006 U	<0.006 U	<0.006 U	0.0015 J	<0.0058 U	0.0033 J	0.039	<0.0056 U	0.023	<0.0061 U	<0.0072 U	<0.0064 U
Xylenes, Total	1330-20-7	0.26	500	<0.02 U	<0.017 U	<0.02 U	0.0086 J	0.0043 J	0.0098 J	0.011	0.0087 J	0.054	<0.012 U	<0.014 U	0.0013 J
Total BTEX		NL	NL	ND	ND	ND	0.0162	0.0163	0.0197	0.099	0.0113	0.0958	ND	ND	0.0038
VOC (mg/Kg)															
1,1,1-Trichloroethane	71-55-6	0.68	500	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
1,1,2-Trichloroethane	79-00-5	NL	NL	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
1,1-Dichloroethane	75-34-3	0.27	240	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
1,1-Dichloroethene	75-35-4	0.33	500	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
1,2,4-Trichlorobenzene	120-82-1	NL	NL	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
1,2-Dibromoethane	106-93-4	NL	NL	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
1,2-Dichlorobenzene	95-50-1	1.1	500	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
1,2-Dichloroethane	107-06-2	0.02	30	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
1,2-Dichloropropane	78-87-5	NL	NL	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
1,3,5-Trimethylbenzene	108-67-8	8.4	190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	2.4	280	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
1,3-Dichloropropane	142-28-9	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	1.8	130	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
2-Butanone	78-93-3	0.12	500	<0.033 U	<0.028 U	<0.033 U	<0.027 U	<0.029 U	<0.029 U	<0.028 U	<0.028 U	<0.03 U	<0.031 U	<0.036 U	<0.032 U
2-Chloroethyl vinyl ether	110-75-8	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	591-78-6	NL	NL	<0.033 U	<0.028 U	<0.033 U	<0.027 U	<0.029 U	<0.029 U	<0.028 U	<0.028 U	<0.03 U	<0.031 U	<0.036 U	<0.032 U
2-Nitropropane	79-46-9	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	108-10-1	NL	NL	<0.033 U	<0.028 U	<0.033 U	<0.027 U	<0.029 U	<0.029 U	<0.028 U	<0.028 U	<0.03 U	<0.031 U	<0.036 U	<0.032 U
Acetone	67-64-1	0.05	500	<0.033 U	<0.028 U	<0.033 U	0.0069 J	0.0073 J	<0.029 U	0.0084 J	<0.028 U	<0.03 U	0.0064 J	<0.036 U	<0.032 U
Bromobenzene	108-86-1	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	75-27-4	NL	NL	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
Bromoform	75-25-2	NL	NL	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
Bromomethane	74-83-9	NL	NL	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
Carbon Disulfide	75-15-0	NL	NL	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
Carbon Tetrachloride	56-23-5	0.76	22	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
Chlorobenzene	108-90-7	1.1	500	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
Chloroethane	75-00-3	NL	NL	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
Chloroform	67-66-3	0.37	350	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
Chloromethane	74-87-3	NL	NL	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
cis-1,2-Dichloroethene	156-59-2	0.25	500	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
Cyclohexane	110-82-7	NL	NL	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
Dibromochloromethane	124-48-1	NL	NL	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
Dichlorodifluoromethane	75-71-8	NL	NL	<0.006 UJ	<0.006 UJ	<0.006 UJ	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
Isopropylbenzene	98-82-8	NL	NL	<0.006 U	<0.006 U	<0.006 U	0.0014 J	<0.0058 U	0.0059	<0.0056 U	0.0042 J	0.0054 J	<0.0061 U	<0.0072 U	<0.0064 U
Methyl acetate	79-20-9	NL	NL	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
Methyl Methacrylate	80-62-6	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	108-87-2	NL	NL	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
Methylene chloride	75-09-2	0.05	500	<0.006 UJ	<0.006 UJ	<0.006 UJ	0.012	0.015	0.014	0.011	0.0027 J	0.0035 J	<0.0061 U	<0.0072 U	0.023
Methyl-t-Butyl Ether (MTBE)	1634-04-4	0.93	500	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
Styrene	100-42-5	NL	NL	<0.006 U	<0.006 U	<0.006 U	0.0016 J	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
t-Butanol	75-65-0	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	127-18-4	1.3	150	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
trans-1,2-Dichloroethene	156-60-5	0.19	500	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
Trichloroethene	79-01-6	0.47	200	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
Trichlorofluoromethane	75-69-4	NL	NL	<0.006 U	<0.006 U	<0.006 U	<0.0054 U	<0.0058 U	<0.0058 U	<0.0056 U	<0.0056 U	<0.0061 U	<0.0061 U	<0.0072 U	<0.0064 U
Vinyl chloride	75-01-4	0.02	13	<0.013 U	<0.011 U	<0.013 U	<0.011 U	<0.012 U	<0.012 U	<0.011 U	<0.011 U	<0.012 U	<0.012 U	<0.014 U	<0.013 U

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J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 6
Subsurface Soil VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TB-61 8/18/2009 TB61(14-15)081809 14-15	TB-64 8/19/2009 TB64(12-13)081909 12-13	TB-68 8/20/2009 TB68(13-14)082009 13-14	TB-69 8/20/2009 TB69(10-11)082009 10-11	TB-71 8/20/2009 TB71(10-12)082009 10-12	TB-75 8/20/2009 TB75(7-9)082009 7-9	TB-77 8/21/2009 TB77(12-14)082109 12-14	TB-79 8/21/2009 TB79(12-14)082109 12-14	TB-82 6/24/2010 TB82(17-19.5)062410 17-19.5	TB-83 6/16/2010 TB83(18.5-21)061610 18.5-21	TB-84 6/16/2010 TB84(12-14)061610 12-14	TB-84 6/16/2010 TB84(19.5-21)061610 19.5-21
BTEX (mg/Kg)															
Benzene	71-43-2	0.06	44	<0.0066 U	0.041	0.0028 J	<0.0070 U	0.0051 J	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
Ethylbenzene	100-41-4	1	390	<0.0066 U	<0.0065 U	0.015	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
Toluene	108-88-3	0.7	500	<0.0066 U	0.0014 J	0.026	<0.0070 U	<0.0071 U	<0.0060 U	0.0048 J	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
Xylenes, Total	1330-20-7	0.26	500	<0.013 U	<0.013 U	0.091	<0.014 U	<0.014 U	<0.012 U	<0.012 U	<0.012 U	<0.011 U	<0.011 U	<0.013 U	<0.011 U
Total BTEX		NL	NL	ND	0.0424	0.1348	ND	0.0051	ND	0.0048	ND	ND	ND	ND	ND
VOC (mg/Kg)															
1,1,1-Trichloroethane	71-55-6	0.68	500	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
1,1,2-Trichloroethane	79-00-5	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
1,1-Dichloroethane	75-34-3	0.27	240	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
1,1-Dichloroethene	75-35-4	0.33	500	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
1,2,4-Trichlorobenzene	120-82-1	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
1,2-Dibromoethane	106-93-4	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
1,2-Dichlorobenzene	95-50-1	1.1	500	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
1,2-Dichloroethane	107-06-2	0.02	30	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
1,2-Dichloropropane	78-87-5	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
1,3,5-Trimethylbenzene	108-67-8	8.4	190	NA	<0.0065 U	0.019	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	NA	NA	<0.0064 U	NA
1,3-Dichlorobenzene	541-73-1	2.4	280	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
1,3-Dichloropropane	142-28-9	NL	NL	NA	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	NA	NA	<0.0064 U	NA
1,4-Dichlorobenzene	106-46-7	1.8	130	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
2-Butanone	78-93-3	0.12	500	<0.033 U	<0.033 U	<0.031 U	<0.035 U	<0.036 U	<0.03 U	<0.031 U	<0.031 U	<0.027 U	<0.027 U	<0.032 U	<0.028 U
2-Chloroethyl vinyl ether	110-75-8	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0064 U	NA
2-Hexanone	591-78-6	NL	NL	<0.033 U	<0.033 U	<0.031 U	<0.035 U	<0.036 U	<0.03 U	<0.031 U	<0.031 U	<0.027 U	<0.027 U	<0.032 U	<0.028 U
2-Nitropropane	79-46-9	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0064 U	NA
4-Methyl-2-pentanone	108-10-1	NL	NL	<0.033 U	<0.033 U	<0.031 U	<0.035 U	<0.036 U	<0.03 U	<0.031 U	<0.031 U	<0.027 U	<0.027 U	<0.032 U	<0.028 U
Acetone	67-64-1	0.05	500	<0.033 U	0.0093 J	<0.031 U	<0.035 U	<0.036 U	<0.03 U	<0.031 U	<0.031 U	<0.027 U	<0.027 U	0.0054 J	<0.028 U
Bromobenzene	108-86-1	NL	NL	NA	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	NA	NA	<0.0064 U	NA
Bromodichloromethane	75-27-4	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
Bromoform	75-25-2	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 UJ	<0.0054 UJ	<0.0064 UJ	<0.0057 UJ
Bromomethane	74-83-9	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
Carbon Disulfide	75-15-0	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 UJ	<0.0064 UJ	<0.0057 UJ
Carbon Tetrachloride	56-23-5	0.76	22	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
Chlorobenzene	108-90-7	1.1	500	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
Chloroethane	75-00-3	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
Chloroform	67-66-3	0.37	350	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
Chloromethane	74-87-3	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
cis-1,2-Dichloroethene	156-59-2	0.25	500	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
Cyclohexane	110-82-7	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
Dibromochloromethane	124-48-1	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
Dichlorodifluoromethane	75-71-8	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
Isopropylbenzene	98-82-8	NL	NL	<0.0066 U	<0.0065 U	0.012	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
Methyl acetate	79-20-9	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
Methyl Methacrylate	80-62-6	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0064 U	NA
Methylcyclohexane	108-87-2	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
Methylene chloride	75-09-2	0.05	500	0.025	0.019	0.04	0.043	0.048	0.048	0.049	0.056	0.0029 J	0.0025 J	<0.0064 U	0.0030 J
Methyl-t-Butyl Ether (MTBE)	1634-04-4	0.93	500	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
Styrene	100-42-5	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
t-Butanol	75-65-0	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0064 U	NA
Tetrachloroethene	127-18-4	1.3	150	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
trans-1,2-Dichloroethene	156-60-5	0.19	500	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
Trichloroethene	79-01-6	0.47	200	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
Trichlorofluoromethane	75-69-4	NL	NL	<0.0066 U	<0.0065 U	<0.0062 U	<0.0070 U	<0.0071 U	<0.0060 U	<0.0062 U	<0.0062 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U
Vinyl chloride	75-01-4	0.02	13	<0.013 U	<0.013 U	<0.012 U	<0.014 U	<0.014 U	<0.012 U	<0.012 U	<0.012 U	<0.0055 U	<0.0054 U	<0.0064 U	<0.0057 U

Notes:
NA = Not Applicable
NL = No Limit
mg/Kg = milligram per kilogram
Bold Values Exceed NYSDEC Part 375-6 Unrestricted Use
Yellow Highlighted Values Exceed NYSDEC Part 375-6 Commercial Use
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze

Table 6
Subsurface Soil VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TB-85 6/24/2010 TB85(16-18.5)062410 16-18.5	TB-86 6/24/2010 TB86(24-25)062410 24-25	TB-87 6/15/2010 TB87(24-26)061510 24-26	TB-87 6/15/2010 TB87(34-36)061510 34-36	TB-88 6/15/2010 TB88(22-24)061510 22-24	TB-88 6/15/2010 TB88(41.5-43.2)061510 41.5-43.2	TB-89 7/6/2010 TB89(52-54)070610 52-54	TB-90 7/8/2010 TB90(12-13)070810 12-13	TB-91 7/8/2010 TB91(12-14)070810 12-14	TB-94 6/24/2010 TB94(12-13)062410 12-13	TB-95 6/28/2010 TB95(12-14)062810 12-14	TB-96 7/7/2010 TB96(12-14)070710 12-14
BTEX (mg/Kg)															
Benzene	71-43-2	0.06	44	0.0040 J	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Ethylbenzene	100-41-4	1	390	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	0.18	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Toluene	108-88-3	0.7	500	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	0.057 J	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Xylenes, Total	1330-20-7	0.26	500	<0.011 U	<0.011 U	<0.013 U	<0.01 U	<0.014 U	<0.011 U	0.31	<0.011 U	<0.013 U	<0.014 U	<0.014 U	<0.013 U
Total BTEX		NL	NL	0.004	ND	ND	ND	ND	ND	0.547	ND	ND	ND	ND	ND
VOC (mg/Kg)															
1,1,1-Trichloroethane	71-55-6	0.68	500	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
1,1,2-Trichloroethane	79-00-5	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
1,1-Dichloroethane	75-34-3	0.27	240	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
1,1-Dichloroethene	75-35-4	0.33	500	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
1,2,4-Trichlorobenzene	120-82-1	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
1,2-Dibromoethane	106-93-4	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
1,2-Dichlorobenzene	95-50-1	1.1	500	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
1,2-Dichloroethane	107-06-2	0.02	30	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
1,2-Dichloropropane	78-87-5	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
1,3,5-Trimethylbenzene	108-67-8	8.4	190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	2.4	280	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
1,3-Dichloropropane	142-28-9	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	1.8	130	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
2-Butanone	78-93-3	0.12	500	<0.028 U	<0.029 U	<0.033 U	<0.026 U	<0.036 U	<0.028 U	<0.56 U	<0.028 U	<0.034 U	<0.034 U	<0.035 U	<0.032 U
2-Chloroethyl vinyl ether	110-75-8	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	591-78-6	NL	NL	<0.028 U	<0.029 U	<0.033 U	<0.026 U	<0.036 U	<0.028 U	<0.56 U	<0.028 U	<0.034 U	<0.034 U	<0.035 U	<0.032 U
2-Nitropropane	79-46-9	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	108-10-1	NL	NL	<0.028 U	<0.029 U	<0.033 U	<0.026 U	<0.036 U	<0.028 U	<0.56 U	<0.028 U	<0.034 U	<0.034 U	<0.035 U	<0.032 U
Acetone	67-64-1	0.05	500	<0.028 U	<0.029 U	0.0094 J	<0.026 U	0.0074 J	<0.028 U	<0.56 U	<0.028 U	0.01 J	<0.034 U	0.0090 J	0.0066 J
Bromobenzene	108-86-1	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	75-27-4	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Bromoform	75-25-2	NL	NL	<0.0056 UJ	<0.0057 UJ	<0.0067 UJ	<0.0051 UJ	<0.0072 UJ	<0.0057 UJ	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 UJ	<0.0070 U	<0.0064 U
Bromomethane	74-83-9	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Carbon Disulfide	75-15-0	NL	NL	<0.0056 U	<0.0057 U	<0.0067 UJ	<0.0051 UJ	<0.0072 UJ	<0.0057 UJ	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Carbon Tetrachloride	56-23-5	0.76	22	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Chlorobenzene	108-90-7	1.1	500	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Chloroethane	75-00-3	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Chloroform	67-66-3	0.37	350	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Chloromethane	74-87-3	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
cis-1,2-Dichloroethene	156-59-2	0.25	500	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Cyclohexane	110-82-7	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Dibromochloromethane	124-48-1	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Dichlorodifluoromethane	75-71-8	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Isopropylbenzene	98-82-8	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	0.088 J	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Methyl acetate	79-20-9	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Methyl Methacrylate	80-62-6	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	108-87-2	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Methylene chloride	75-09-2	0.05	500	<0.0056 U	0.0026 J	<0.0067 U	0.0028 J	0.0038 J	0.0032 J	<0.11 U	<0.0055 U	<0.0067 U	0.0056 J	0.013	<0.0064 U
Methyl-t-Butyl Ether (MTBE)	1634-04-4	0.93	500	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Styrene	100-42-5	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
t-Butanol	75-65-0	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	127-18-4	1.3	150	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
trans-1,2-Dichloroethene	156-60-5	0.19	500	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Trichloroethene	79-01-6	0.47	200	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Trichlorofluoromethane	75-69-4	NL	NL	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U
Vinyl chloride	75-01-4	0.02	13	<0.0056 U	<0.0057 U	<0.0067 U	<0.0051 U	<0.0072 U	<0.0057 U	<0.11 U	<0.0055 U	<0.0067 U	<0.0068 U	<0.0070 U	<0.0064 U

Notes:
NA = Not Applicable
NL = No Limit
mg/Kg = milligram per kilogram
Bold Values Exceed NYSDEC Part 375-6 Unrestricted Use
Yellow Highlighted Values Exceed NYSDEC Part 375-6 Commercial Use
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 6
Subsurface Soil VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TB-96 7/7/2010 TB960(12-14)070710 12-14	TB-98 6/25/2010 TB98(12-13)062510 12-13	TB-99 6/25/2010 TB99(12-13)062510 12-13	TB-100 7/2/2010 TB100(18-20)070210 18-20	TB-101 7/8/2010 TB101(28-31)070810 28-31	RTB-02 10/13/2009 RTB2(3.5-4.5)101309 3.5-4.5	RTB-03 10/13/2009 RTB3(6.5-7.5)101309 6.5-7.5	RTB-04 10/13/2009 RTB4(4.5-5.5)101309 4.5-5.5	RTB-05 10/14/2009 RTB5(2-4)101409 2-4	RTB-08 10/15/2009 RTB8(6-7)101509 6-7	RTB-09 10/14/2009 RTB9(1.5-3)101409 1.5-3	RTB-09 10/14/2009 RTB9(7-9)101409 7-9
BTEX (mg/Kg)															
Benzene	71-43-2	0.06	44	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	0.04	0.0042 J	0.019 J	0.061
Ethylbenzene	100-41-4	1	390	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	0.013	0.0028 J	0.081	<0.0063 U
Toluene	108-88-3	0.7	500	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	0.009	0.0072	0.0075 J	0.0026 J
Xylenes, Total	1330-20-7	0.26	500	<0.013 U	<0.012 U	<0.014 U	<0.011 U	<0.011 U	<0.011 U	<0.011 U	<0.012 U	0.029	0.0074 J	0.21	0.011 J
Total BTEX		NL	NL	ND	ND	ND	ND	ND	ND	ND	ND	0.091	0.0216	0.3175	0.0746
VOC (mg/Kg)															
1,1,1-Trichloroethane	71-55-6	0.68	500	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
1,1,2-Trichloroethane	79-00-5	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
1,1-Dichloroethane	75-34-3	0.27	240	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
1,1-Dichloroethene	75-35-4	0.33	500	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
1,2,4-Trichlorobenzene	120-82-1	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
1,2-Dibromoethane	106-93-4	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
1,2-Dichlorobenzene	95-50-1	1.1	500	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
1,2-Dichloroethane	107-06-2	0.02	30	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
1,2-Dichloropropane	78-87-5	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
1,3,5-Trimethylbenzene	108-67-8	8.4	190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	2.4	280	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
1,3-Dichloropropane	142-28-9	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	1.8	130	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
2-Butanone	78-93-3	0.12	500	<0.031 U	<0.03 U	<0.034 U	<0.028 U	<0.026 U	<0.028 U	<0.029 U	<0.03 U	<0.031 U	<0.032 U	<0.13 U	<0.031 U
2-Chloroethyl vinyl ether	110-75-8	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	591-78-6	NL	NL	<0.031 U	<0.03 U	<0.034 U	<0.028 U	<0.026 U	<0.028 U	<0.029 U	<0.03 U	<0.031 U	<0.032 U	<0.13 U	<0.031 U
2-Nitropropane	79-46-9	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	108-10-1	NL	NL	<0.031 U	<0.03 U	<0.034 U	<0.028 U	<0.026 U	<0.028 U	<0.029 U	<0.03 U	<0.031 U	<0.032 U	<0.13 U	<0.031 U
Acetone	67-64-1	0.05	500	0.01 J	<0.03 U	<0.034 U	0.011 J	0.0077 J	<0.028 U	<0.029 U	<0.03 U	<0.031 U	0.0097 J	<0.13 U	<0.031 U
Bromobenzene	108-86-1	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	75-27-4	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
Bromoform	75-25-2	NL	NL	<0.0063 U	<0.0060 UJ	<0.0068 UJ	<0.0056 UJ	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
Bromomethane	74-83-9	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
Carbon Disulfide	75-15-0	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
Carbon Tetrachloride	56-23-5	0.76	22	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
Chlorobenzene	108-90-7	1.1	500	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
Chloroethane	75-00-3	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
Chloroform	67-66-3	0.37	350	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
Chloromethane	74-87-3	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
cis-1,2-Dichloroethene	156-59-2	0.25	500	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
Cyclohexane	110-82-7	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
Dibromochloromethane	124-48-1	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 UJ	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
Dichlorodifluoromethane	75-71-8	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
Isopropylbenzene	98-82-8	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	0.0015 J	<0.0064 U	0.061	<0.0063 U
Methyl acetate	79-20-9	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
Methyl Methacrylate	80-62-6	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	108-87-2	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
Methylene chloride	75-09-2	0.05	500	<0.0063 U	0.0037 J	0.0053 J	0.0072	<0.0051 U	<0.0057 U	<0.0057 U	0.0094	<0.0062 U	0.0031 J	<0.025 U	<0.0063 U
Methyl-t-Butyl Ether (MTBE)	1634-04-4	0.93	500	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
Styrene	100-42-5	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
t-Butanol	75-65-0	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	127-18-4	1.3	150	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
trans-1,2-Dichloroethene	156-60-5	0.19	500	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
Trichloroethene	79-01-6	0.47	200	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
Trichlorofluoromethane	75-69-4	NL	NL	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.0057 U	<0.0057 U	<0.0059 U	<0.0062 U	<0.0064 U	<0.025 U	<0.0063 U
Vinyl chloride	75-01-4	0.02	13	<0.0063 U	<0.0060 U	<0.0068 U	<0.0056 U	<0.0051 U	<0.011 U	<0.011 U	<0.012 U	<0.012 U	<0.013 U	<0.05 U	<0.013 U

Notes:
NA = Not Applicable
NL = No Limit
mg/Kg = milligram per kilogram
Bold Values Exceed NYSDEC Part 375-6 Unrestricted Use
Yellow Highlighted Values Exceed NYSDEC Part 375-6 Commercial Use
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 6
Subsurface Soil VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	RTB-11 10/14/2009 RTB11(5-6)101409 5-6	RTB-14 10/16/2009 RTB14(4-5)101609 4-5	RTB-15 10/16/2009 RTB15(6-7)101609 6-7	RTB-16 10/19/2009 RTB16(4-5)101909 4-5	RTB-17 10/19/2009 RTB17(4-5)101909 4-5	RTB-18 10/19/2009 RTB18(4-5)101909 4-5	RTB-19 10/19/2009 RTB19(6-7)101909 6-7	MW-01B 11/19/2008 MW-1B(24-26)111908 24-26	MW-02B 11/12/2008 MW2B(11-13)111208 11-13	MW-02B 11/12/2008 MW2B(18-20)111208 18-20	MW-03B 11/20/2008 MW-3B(10-12)112008 10-12	MW-03B 11/20/2008 MW-3B(22-24)112008 22-24
BTEX (mg/Kg)															
Benzene	71-43-2	0.06	44	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
Ethylbenzene	100-41-4	1	390	0.16	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	0.004 J	<0.008 U
Toluene	108-88-3	0.7	500	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	0.002 J	<0.008 U
Xylenes, Total	1330-20-7	0.26	500	0.2 J	<0.011 U	<0.012 U	<0.011 U	<0.012 U	<0.011 U	<0.011 U	<0.021 U	<0.016 U	<0.022 U	0.006 J	<0.024 U
Total BTEX		NL	NL	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.012	ND
VOC (mg/Kg)															
1,1,1-Trichloroethane	71-55-6	0.68	500	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
1,1,2-Trichloroethane	79-00-5	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
1,1-Dichloroethane	75-34-3	0.27	240	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
1,1-Dichloroethene	75-35-4	0.33	500	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
1,2,4-Trichlorobenzene	120-82-1	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
1,2-Dibromoethane	106-93-4	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
1,2-Dichlorobenzene	95-50-1	1.1	500	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
1,2-Dichloroethane	107-06-2	0.02	30	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
1,2-Dichloropropane	78-87-5	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
1,3,5-Trimethylbenzene	108-67-8	8.4	190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	2.4	280	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
1,3-Dichloropropane	142-28-9	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	1.8	130	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
2-Butanone	78-93-3	0.12	500	<0.62 U	<0.028 U	<0.03 U	<0.029 U	<0.029 U	<0.027 U	<0.028 U	<0.035 U	<0.026 U	<0.036 U	<0.027 U	<0.04 U
2-Chloroethyl vinyl ether	110-75-8	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	591-78-6	NL	NL	<0.62 U	<0.028 U	<0.03 U	<0.029 U	<0.029 U	<0.027 U	<0.028 U	<0.035 U	<0.026 U	<0.036 U	<0.027 U	<0.04 U
2-Nitropropane	79-46-9	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	108-10-1	NL	NL	<0.62 U	<0.028 U	<0.03 U	<0.029 U	<0.029 U	<0.027 U	<0.028 U	<0.035 U	<0.026 U	<0.036 U	<0.027 U	<0.04 U
Acetone	67-64-1	0.05	500	<0.62 U	<0.028 U	<0.03 U	0.019 J	0.017 J	0.0074 J	<0.028 U	0.026 J	<0.026 U	<0.036 U	0.039	0.023 J
Bromobenzene	108-86-1	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	75-27-4	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
Bromoform	75-25-2	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
Bromomethane	74-83-9	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
Carbon Disulfide	75-15-0	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 UJ	0.001 J	<0.007 UJ	0.003 J	<0.008 U
Carbon Tetrachloride	56-23-5	0.76	22	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
Chlorobenzene	108-90-7	1.1	500	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
Chloroethane	75-00-3	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
Chloroform	67-66-3	0.37	350	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
Chloromethane	74-87-3	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
cis-1,2-Dichloroethene	156-59-2	0.25	500	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
Cyclohexane	110-82-7	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
Dibromochloromethane	124-48-1	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
Dichlorodifluoromethane	75-71-8	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 UJ	<0.005 UJ	<0.007 UJ	<0.005 U	<0.008 U
Isopropylbenzene	98-82-8	NL	NL	0.11 J	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	0.008	<0.008 U
Methyl acetate	79-20-9	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 UJ	<0.005 UJ	<0.007 UJ	<0.005 U	<0.008 U
Methyl Methacrylate	80-62-6	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	108-87-2	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	0.002 J	<0.008 U
Methylene chloride	75-09-2	0.05	500	0.15	0.0026 J	0.0028 J	<0.0098 U	<0.01 U	<0.0075 U	<0.0067 U	0.003 J	<0.013 U	<0.007 U	0.007	<0.008 U
Methyl-t-Butyl Ether (MTBE)	1634-04-4	0.93	500	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
Styrene	100-42-5	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
t-Butanol	75-65-0	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	127-18-4	1.3	150	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
trans-1,2-Dichloroethene	156-60-5	0.19	500	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
Trichloroethene	79-01-6	0.47	200	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
Trichlorofluoromethane	75-69-4	NL	NL	<0.12 U	<0.0056 U	<0.0061 U	<0.0057 U	<0.0059 U	<0.0053 U	<0.0056 U	<0.007 U	<0.005 U	<0.007 U	<0.005 U	<0.008 U
Vinyl chloride	75-01-4	0.02	13	<0.25 U	<0.011 U	<0.012 U	<0.011 U	<0.012 U	<0.011 U	<0.011 U	<0.014 U	<0.01 U	<0.014 U	<0.011 U	<0.016 U

Notes:
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NL = No Limit
mg/Kg = milligram per kilogram
Bold Values Exceed NYSDEC Part 375-6 Unrestricted Use
Yellow Highlighted Values Exceed NYSDEC Part 375-6 Commercial Use
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 6
Subsurface Soil VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	MW-05B 11/12/2008 MW5B(7-9)111208 7-9	MW-05B 11/12/2008 MW5B(12-15)111208 12-15	MW-06B 11/17/2008 MW-6B(12-14)111708 12-14	MW-06B 11/17/2008 MW-6B(28-30)111708 28-30	MW-07B/TB-24 11/12/2008 TB24(9-12)111208 9-12	MW-07B/TB-24 11/12/2008 TB24(24-26)111208 24-26	MW-08D 11/21/2008 MW8D(8-10)112108 8-10	MW-09B 11/23/2008 MW9B(14-16)112308 14-16	MW-10D 12/11/2008 MW10D(10-12)121108 10-12	MW-10D 12/11/2008 MW10D(40-42)121108 40-42	MW-11B 8/3/2009 MW11B(17.5-19)080309 17.5-19	MW-13B 8/6/2009 MW13B(14-16)080609 14-16
BTEX (mg/Kg)															
Benzene	71-43-2	0.06	44	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	0.007	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Ethylbenzene	100-41-4	1	390	3.4	<0.006 U	<0.13 U	<0.007 U	0.007 J	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Toluene	108-88-3	0.7	500	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Xylenes, Total	1330-20-7	0.26	500	5.4	<0.019 U	<0.39 U	<0.092 U	<0.019 U	<0.018 U	<0.018 U	<0.022 U	<0.022 U	<0.016 U	<0.012 U	<0.011 U
Total BTEX		NL	NL	8.8	ND	ND	ND	0.007	ND	0.007	ND	ND	ND	ND	ND
VOC (mg/Kg)															
1,1,1-Trichloroethane	71-55-6	0.68	500	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	<1.2 UJ	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
1,1,2-Trichloroethane	79-00-5	NL	NL	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
1,1-Dichloroethane	75-34-3	0.27	240	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
1,1-Dichloroethene	75-35-4	0.33	500	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
1,2,4-Trichlorobenzene	120-82-1	NL	NL	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
1,2-Dibromoethane	106-93-4	NL	NL	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
1,2-Dichlorobenzene	95-50-1	1.1	500	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
1,2-Dichloroethane	107-06-2	0.02	30	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
1,2-Dichloropropane	78-87-5	NL	NL	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
1,3,5-Trimethylbenzene	108-67-8	8.4	190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	2.4	280	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
1,3-Dichloropropane	142-28-9	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	1.8	130	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
2-Butanone	78-93-3	0.12	500	<5.8 U	<0.032 U	<0.65 U	<0.033 U	<0.15 U	<0.032 U	<0.03 U	<0.031 U	<0.036 U	<0.027 U	<0.029 U	<0.027 U
2-Chloroethyl vinyl ether	110-75-8	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	591-78-6	NL	NL	<5.8 U	<0.032 U	<0.65 U	<0.033 U	<0.15 U	<0.032 U	<0.03 U	<0.031 U	<0.036 U	<0.027 U	<0.029 U	<0.027 U
2-Nitropropane	79-46-9	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	108-10-1	NL	NL	<5.8 U	<0.032 U	<0.65 U	<0.033 U	<0.15 U	<0.032 U	<0.03 U	<0.031 U	<0.036 U	<0.027 U	<0.029 U	<0.027 U
Acetone	67-64-1	0.05	500	<5.8 UJ	<0.032 U	<0.65 U	0.026 J	0.062 J	<0.032 U	0.016 J	0.011 J	0.021 J	0.011 J	0.0081 J	<0.027 U
Bromobenzene	108-86-1	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	75-27-4	NL	NL	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Bromoform	75-25-2	NL	NL	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Bromomethane	74-83-9	NL	NL	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Carbon Disulfide	75-15-0	NL	NL	<1.2 UJ	<0.006 UJ	<0.13 U	<0.007 UJ	<0.031 UJ	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Carbon Tetrachloride	56-23-5	0.76	22	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Chlorobenzene	108-90-7	1.1	500	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Chloroethane	75-00-3	NL	NL	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Chloroform	67-66-3	0.37	350	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Chloromethane	74-87-3	NL	NL	<1.2 UJ	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
cis-1,2-Dichloroethene	156-59-2	0.25	500	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Cyclohexane	110-82-7	NL	NL	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Dibromochloromethane	124-48-1	NL	NL	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Dichlorodifluoromethane	75-71-8	NL	NL	<1.2 UJ	<0.006 UJ	<0.13 U	<0.007 UJ	<0.031 UJ	<0.006 UJ	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Isopropylbenzene	98-82-8	NL	NL	1.4	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Methyl acetate	79-20-9	NL	NL	<1.2 U	<0.006 UJ	<0.13 UJ	<0.007 UJ	<0.031 UJ	<0.006 UJ	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Methyl Methacrylate	80-62-6	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	108-87-2	NL	NL	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Methylene chloride	75-09-2	0.05	500	<1.2 UJ	<0.012 U	<0.13 UJ	<0.009 U	0.056	<0.006 U	0.006	0.01	<0.035 U	<0.027 U	0.017	0.012
Methyl-t-Butyl Ether (MTBE)	1634-04-4	0.93	500	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Styrene	100-42-5	NL	NL	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
t-Butanol	75-65-0	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	127-18-4	1.3	150	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
trans-1,2-Dichloroethene	156-60-5	0.19	500	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Trichloroethene	79-01-6	0.47	200	<1.2 U	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Trichlorofluoromethane	75-69-4	NL	NL	<1.2 UJ	<0.006 U	<0.13 U	<0.007 U	<0.031 U	<0.006 U	<0.006 U	<0.006 U	<0.007 U	<0.005 U	<0.0059 U	<0.0054 U
Vinyl chloride	75-01-4	0.02	13	<2.3 U	<0.013 U	<0.26 U	<0.013 U	<0.062 U	<0.013 U	<0.012 U	<0.012 U	<0.014 U	<0.011 U	<0.012 U	<0.011 U

Notes:
NA = Not Applicable
NL = No Limit
mg/Kg = milligram per kilogram
Bold Values Exceed NYSDEC Part 375-6 Unrestricted Use
Yellow Highlighted Values Exceed NYSDEC Part 375-6 Commercial Use
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 6
Subsurface Soil VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	MW-13B 8/6/2009 MW13B(34-36)080609 34-36	MW-14B/TB-25 11/13/2008 TB25(8-10)111308 8-10	MW-14B/TB-25 11/13/2008 TB25(14-16)111308 14-16	MW-15D 6/29/2010 MW15D(60-62.8)062910 60-62.8	MW-15S/TB-37 12/18/2008 TB-37(10-12)121808 10-12	MW-15S/TB-37 12/18/2008 TB-37(12-14)121808 12-14	MW-16S/TB-41 12/18/2008 TB-41(8-10)121808 8-10	MW-16S/TB-41 12/18/2008 TB-41(12-14)121808 12-14	MW-17S 7/28/2009 MW17S(10-12)072709 10-12	MW-19B 7/28/2009 MW19B(11-12)072809 11-12	MW-19B 7/28/2009 MW19B(13-14)072809 13-14	MW-20B 8/3/2009 MW20B(12-13)080309 12-13
BTEX (mg/Kg)															
Benzene	71-43-2	0.06	44	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	0.002 J	<0.006 U	<0.006 U	<0.005 U	<0.005 U	0.056 J	<0.0059 U
Ethylbenzene	100-41-4	1	390	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	0.007	<0.006 U	<0.006 U	<0.005 U	<0.005 U	0.02	<0.0059 U
Toluene	108-88-3	0.7	500	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	0.066 J	<0.0059 U
Xylenes, Total	1330-20-7	0.26	500	<0.011 U	<0.42 UJ	<0.48 U	<0.01 U	<0.017 U	0.007 J	<0.019 U	<0.018 U	<0.01 U	<0.01 U	0.069	<0.012 U
Total BTEX		NL	NL	ND	ND	ND	ND	ND	0.016	ND	ND	ND	ND	0.211	ND
VOC (mg/Kg)															
1,1,1-Trichloroethane	71-55-6	0.68	500	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 UJ	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
1,1,2-Trichloroethane	79-00-5	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
1,1-Dichloroethane	75-34-3	0.27	240	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
1,1-Dichloroethene	75-35-4	0.33	500	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
1,2,4-Trichlorobenzene	120-82-1	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 UJ	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 UJ	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
1,2-Dibromoethane	106-93-4	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
1,2-Dichlorobenzene	95-50-1	1.1	500	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 UJ	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
1,2-Dichloroethane	107-06-2	0.02	30	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
1,2-Dichloropropane	78-87-5	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
1,3,5-Trimethylbenzene	108-67-8	8.4	190	NA	NA	NA	NA	NA	NA	NA	NA	<0.005 U	<0.005 U	0.0056	NA
1,3-Dichlorobenzene	541-73-1	2.4	280	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 UJ	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
1,3-Dichloropropane	142-28-9	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	<0.005 U	<0.005 U	<0.005 U	NA
1,4-Dichlorobenzene	106-46-7	1.8	130	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 UJ	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
2-Butanone	78-93-3	0.12	500	<0.029 U	<0.7 UJ	<0.79 U	<0.025 U	<0.029 U	<0.032 U	<0.032 U	<0.031 U	<0.025 U	<0.025 U	<0.025 U	<0.029 U
2-Chloroethyl vinyl ether	110-75-8	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	591-78-6	NL	NL	<0.029 U	<0.7 UJ	<0.79 U	<0.025 U	<0.029 U	<0.032 U	<0.032 U	<0.031 U	<0.025 U	<0.025 U	<0.025 U	<0.029 U
2-Nitropropane	79-46-9	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	108-10-1	NL	NL	<0.029 U	<0.7 UJ	<0.79 U	<0.025 U	<0.029 U	<0.032 U	<0.032 U	<0.031 U	<0.025 U	<0.025 U	<0.025 U	<0.029 U
Acetone	67-64-1	0.05	500	0.0076 J	<0.7 UJ	<0.79 U	0.0091 J	<0.029 U	<0.032 U	<0.032 U	<0.031 U	<0.025 U	<0.025 U	0.0057 J	0.012 J
Bromobenzene	108-86-1	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	<0.005 U	<0.005 U	<0.005 U	NA
Bromodichloromethane	75-27-4	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
Bromoform	75-25-2	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
Bromomethane	74-83-9	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
Carbon Disulfide	75-15-0	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
Carbon Tetrachloride	56-23-5	0.76	22	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
Chlorobenzene	108-90-7	1.1	500	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
Chloroethane	75-00-3	NL	NL	<0.0057 U	<0.14 UJ	<0.16 UJ	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
Chloroform	67-66-3	0.37	350	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
Chloromethane	74-87-3	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
cis-1,2-Dichloroethene	156-59-2	0.25	500	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
Cyclohexane	110-82-7	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
Dibromochloromethane	124-48-1	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
Dichlorodifluoromethane	75-71-8	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 UJ	<0.006 UJ	<0.006 UJ	<0.006 UJ	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
Isopropylbenzene	98-82-8	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 UJ	<0.005 U	<0.005 U	0.0032 J	<0.0059 U
Methyl acetate	79-20-9	NL	NL	<0.0057 U	<0.14 UJ	<0.16 UJ	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
Methyl Methacrylate	80-62-6	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	108-87-2	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
Methylene chloride	75-09-2	0.05	500	0.011	<0.14 UJ	<0.16 U	0.0074	<0.006 UJ	<0.006 UJ	<0.006 UJ	<0.006 UJ	<0.005 U	<0.005 U	<0.005 U	0.011
Methyl-t-Butyl Ether (MTBE)	1634-04-4	0.93	500	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
Styrene	100-42-5	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
t-Butanol	75-65-0	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	127-18-4	1.3	150	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
trans-1,2-Dichloroethene	156-60-5	0.19	500	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
Trichloroethene	79-01-6	0.47	200	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
Trichlorofluoromethane	75-69-4	NL	NL	<0.0057 U	<0.14 UJ	<0.16 U	<0.0050 U	<0.006 U	<0.006 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.0059 U
Vinyl chloride	75-01-4	0.02	13	<0.011 U	<0.28 UJ	<0.32 U	<0.0050 U	<0.012 U	<0.013 U	<0.013 U	<0.012 U	<0.01 U	<0.01 U	<0.01 U	<0.012 U

Notes:
NA = Not Applicable
NL = No Limit
mg/Kg = milligram per kilogram
Bold Values Exceed NYSDEC Part 375-6 Unrestricted Use
Yellow Highlighted Values Exceed NYSDEC Part 375-6 Commercial Use
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 6
Subsurface Soil VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	MW-21S/TB-52 8/13/2009 TB52(12-13)081309 12-13	MW-22D 6/30/2010 MW22D(16.5-17.5)063011 16.5-17.5	MW-22D 7/1/2010 MW22D(71-73.5)070110 71-73.5	MW-22S/TB-54 8/14/2009 TB54(11-12)081409 11-12	MW-23B 8/18/2009 MW23B(10-12)081809 10-12	MW-25S/TB-63 8/18/2009 TB63(12.5-13.5)081809 12.5-13.5	MW-31S 6/28/2010 MW31S(14-15)062810 14-15	MW-32B 6/16/2010 MW32B(35-37)061610 35-37	MW-33S/TB-93 7/1/2010 TB93(10-11)070110 10-11	MW-34S/TB-92 7/7/2010 TB92(14-16)070710 14-16	MW-34S/TB-92 7/7/2010 TB92(42-44)070710 42-44	TP-13 11/3/2008 TP13(9.0-9.5)110308 9.0-9.5
BTEX (mg/Kg)															
Benzene	71-43-2	0.06	44	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 UJ	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
Ethylbenzene	100-41-4	1	390	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 UJ	<0.0069 U	<0.0051 UJ	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
Toluene	108-88-3	0.7	500	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 UJ	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
Xylenes, Total	1330-20-7	0.26	500	<0.012 U	<0.012 U	<0.01 U	<0.012 U	<0.047 U	<0.012 U	<0.014 U	<0.01 UJ	<0.017 U	<0.013 U	<0.01 U	<0.015
Total BTEX		NL	NL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOC (mg/Kg)															
1,1,1-Trichloroethane	71-55-6	0.68	500	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
1,1,2-Trichloroethane	79-00-5	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
1,1-Dichloroethane	75-34-3	0.27	240	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
1,1-Dichloroethene	75-35-4	0.33	500	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
1,2,4-Trichlorobenzene	120-82-1	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
1,2-Dibromoethane	106-93-4	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
1,2-Dichlorobenzene	95-50-1	1.1	500	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 UJ	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
1,2-Dichloroethane	107-06-2	0.02	30	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 UJ	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
1,2-Dichloropropane	78-87-5	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
1,3,5-Trimethylbenzene	108-67-8	8.4	190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	2.4	280	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
1,3-Dichloropropane	142-28-9	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	1.8	130	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
2-Butanone	78-93-3	0.12	500	<0.03 U	<0.031 U	<0.025 U	<0.03 U	<0.12 U	<0.03 U	<0.034 U	<0.026 U	<0.043 U	<0.032 U	<0.026 U	<0.025
2-Chloroethyl vinyl ether	110-75-8	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	591-78-6	NL	NL	<0.03 U	<0.031 U	<0.025 U	<0.03 U	<0.12 U	<0.03 U	<0.034 U	<0.026 U	<0.043 U	<0.032 U	<0.026 U	<0.025
2-Nitropropane	79-46-9	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	108-10-1	NL	NL	<0.03 U	<0.031 U	<0.025 U	<0.03 U	<0.12 U	<0.03 U	<0.034 U	<0.026 U	<0.043 U	<0.032 U	<0.026 U	<0.025
Acetone	67-64-1	0.05	500	0.01 J	0.0097 J	0.0079 J	0.012 J	<0.12 U	<0.03 U	0.011 J	<0.026 U	0.012 J	0.01 J	0.0050 J	<0.025 U
Bromobenzene	108-86-1	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	75-27-4	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
Bromoform	75-25-2	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 UJ	<0.0087 UJ	<0.0064 U	<0.0052 U	<0.005
Bromomethane	74-83-9	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
Carbon Disulfide	75-15-0	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 UJ	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
Carbon Tetrachloride	56-23-5	0.76	22	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
Chlorobenzene	108-90-7	1.1	500	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 UJ	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
Chloroethane	75-00-3	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
Chloroform	67-66-3	0.37	350	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
Chloromethane	74-87-3	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
cis-1,2-Dichloroethene	156-59-2	0.25	500	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 UJ	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
cis-1,3-Dichloropropene	10061-01-5	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
Cyclohexane	110-82-7	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
Dibromochloromethane	124-48-1	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 UJ	<0.0064 U	<0.0052 U	<0.005
Dichlorodifluoromethane	75-71-8	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
Isopropylbenzene	98-82-8	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
Methyl acetate	79-20-9	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
Methyl Methacrylate	80-62-6	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	108-87-2	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
Methylene chloride	75-09-2	0.05	500	<0.0059 U	0.0099	0.0082	<0.0059 U	0.0059	0.021	0.0061 J	0.0028 J	0.012	<0.0064 U	<0.0052 U	<0.005
Methyl-t-Butyl Ether (MTBE)	1634-04-4	0.93	500	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
Styrene	100-42-5	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
t-Butanol	75-65-0	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	127-18-4	1.3	150	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 UJ	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
trans-1,2-Dichloroethene	156-60-5	0.19	500	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 UJ	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
trans-1,3-Dichloropropene	10061-02-6	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
Trichloroethene	79-01-6	0.47	200	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
Trichlorofluoromethane	75-69-4	NL	NL	<0.0059 U	<0.0062 U	<0.0050 U	<0.0059 U	<0.023 U	<0.0061 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.005
Vinyl chloride	75-01-4	0.02	13	<0.012 U	<0.0062 U	<0.0050 U	<0.012 U	<0.047 U	<0.012 U	<0.0069 U	<0.0051 U	<0.0087 U	<0.0064 U	<0.0052 U	<0.01

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U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 6
Subsurface Soil VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TP-15 11/4/2008 TP15(10-12)110408 10-12	TP-16 11/4/2008 TP16(10-12)110408 10-12	TP-17 11/3/2008 TP17(11-12)110308 11-12	TP-18 11/3/2008 TP18(11.5-12.0)110308 11.5-12.0	TP-19 11/3/2008 TP19(11-11.8)110308 11-11.8
BTEX (mg/Kg)								
Benzene	71-43-2	0.06	44	<0.005	660	<0.006	<0.005	0.002
Ethylbenzene	100-41-4	1	390	<0.005	250	<0.006	<0.005	0.081
Toluene	108-88-3	0.7	500	<0.005	860	<0.006	<0.005	0.003
Xylenes, Total	1330-20-7	0.26	500	<0.016	680	<0.017	<0.016	0.23
Total BTEX		NL	NL	ND	2450	ND	ND	0.316
VOC (mg/Kg)								
1,1,1-Trichloroethane	71-55-6	0.68	500	<0.005	<11	<0.006	<0.005	<0.006
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	<0.005	<11	<0.006	<0.005	<0.006
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	<0.005	<11	<0.006	<0.005	<0.006
1,1,2-Trichloroethane	79-00-5	NL	NL	<0.005	<11	<0.006	<0.005	<0.006
1,1-Dichloroethane	75-34-3	0.27	240	<0.005	<11	<0.006	<0.005	<0.006
1,1-Dichloroethene	75-35-4	0.33	500	<0.005	<11	<0.006	<0.005	<0.006
1,2,4-Trichlorobenzene	120-82-1	NL	NL	<0.005	<11	<0.006	<0.005	<0.006
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	<0.005	<11	<0.006	<0.005	<0.006
1,2-Dibromoethane	106-93-4	NL	NL	<0.005	<11	<0.006	<0.005	<0.006
1,2-Dichlorobenzene	95-50-1	1.1	500	<0.005	<11	<0.006	<0.005	<0.006
1,2-Dichloroethane	107-06-2	0.02	30	<0.005	<11	<0.006	<0.005	<0.006
1,2-Dichloropropane	78-87-5	NL	NL	<0.005	<11	<0.006	<0.005	<0.006
1,3,5-Trimethylbenzene	108-67-8	8.4	190	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	2.4	280	<0.005	<11	<0.006	<0.005	<0.006
1,3-Dichloropropane	142-28-9	NL	NL	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	1.8	130	<0.005	<11	<0.006	<0.005	<0.006
2-Butanone	78-93-3	0.12	500	<0.026	<53	<0.028	<0.027	0.015
2-Chloroethyl vinyl ether	110-75-8	NL	NL	NA	NA	NA	NA	NA
2-Hexanone	591-78-6	NL	NL	<0.026	<53	<0.028	<0.027	<0.03
2-Nitropropane	79-46-9	NL	NL	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	108-10-1	NL	NL	<0.026	<53	<0.028	<0.027	<0.03
Acetone	67-64-1	0.05	500	0.013	<53	<0.028 U	<0.027 U	0.095 J
Bromobenzene	108-86-1	NL	NL	NA	NA	NA	NA	NA
Bromodichloromethane	75-27-4	NL	NL	<0.005	<11	<0.006	<0.005	<0.006
Bromoform	75-25-2	NL	NL	<0.005	<11	<0.006	<0.005	<0.006
Bromomethane	74-83-9	NL	NL	<0.005	<11	<0.006	<0.005	<0.006
Carbon Disulfide	75-15-0	NL	NL	<0.005	<11	<0.006	<0.005	0.002
Carbon Tetrachloride	56-23-5	0.76	22	<0.005	<11	<0.006	<0.005	<0.006
Chlorobenzene	108-90-7	1.1	500	<0.005	<11	<0.006	<0.005	<0.006
Chloroethane	75-00-3	NL	NL	<0.005	<11	<0.006	<0.005	<0.006
Chloroform	67-66-3	0.37	350	<0.005	<11	<0.006	<0.005	<0.006
Chloromethane	74-87-3	NL	NL	<0.005 UJ	<11	<0.006	<0.005	<0.006
cis-1,2-Dichloroethene	156-59-2	0.25	500	<0.005	<11	<0.006	<0.005	<0.006
cis-1,3-Dichloropropene	10061-01-5	NL	NL	<0.005	<11	<0.006	<0.005	<0.006
Cyclohexane	110-82-7	NL	NL	<0.005	<11	<0.006	<0.005	<0.006
Dibromochloromethane	124-48-1	NL	NL	<0.005	<11	<0.006	<0.005	<0.006
Dichlorodifluoromethane	75-71-8	NL	NL	<0.005	<11	<0.006	<0.005	<0.006
Isopropylbenzene	98-82-8	NL	NL	<0.005	8.2	<0.006	<0.005	0.038
Methyl acetate	79-20-9	NL	NL	<0.005	<11	<0.006	<0.005	<0.006
Methyl Methacrylate	80-62-6	NL	NL	NA	NA	NA	NA	NA
Methylcyclohexane	108-87-2	NL	NL	<0.005	<11	<0.006	<0.005	<0.006
Methylene chloride	75-09-2	0.05	500	0.006	<11	<0.006	0.003	0.004
Methyl-t-Butyl Ether (MTBE)	1634-04-4	0.93	500	<0.005	<11	<0.006	<0.005	<0.006
Styrene	100-42-5	NL	NL	<0.005	680	<0.006	<0.005	<0.006
t-Butanol	75-65-0	NL	NL	NA	NA	NA	NA	NA
Tetrachloroethene	127-18-4	1.3	150	<0.005	<11	<0.006	<0.005	<0.006
trans-1,2-Dichloroethene	156-60-5	0.19	500	<0.005	<11	<0.006	<0.005	<0.006
trans-1,3-Dichloropropene	10061-02-6	NL	NL	<0.005	<11	<0.006	<0.005	<0.006
Trichloroethene	79-01-6	0.47	200	<0.005	<11	<0.006	<0.005	<0.006
Trichlorofluoromethane	75-69-4	NL	NL	<0.005	<11	<0.006	<0.005	<0.006
Vinyl chloride	75-01-4	0.02	13	<0.01	<21	<0.011	<0.011	<0.012

Notes:
NA = Not Applicable
NL = No Limit
mg/Kg = milligram per kilogram
Bold Values Exceed NYSDEC Part 375-6 Unrestricted Use
Yellow Highlighted Values Exceed NYSDEC Part 375-6 Commercial Use
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 7
Subsurface Soil SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TB-11 7/27/2009 TB11(11-12) 11-12	TB-12 12/15/2008 TB12(10-12)121508 10-12	TB-12 12/15/2008 TB12(18-20)121508 18-20	TB-12 12/15/2008 TB12(31-33)121508 31-33	TB-13 11/18/2008 TB13(22-24)111808 22-24	TB-14 11/17/2008 TB14(14-16)111708 14-16	TB-14 11/17/2008 TB140(14-16)111708 14-16	TB-15 11/20/2008 TB15(20-22)112008 20-22	TB-17 12/2/2008 TB17(11.5-12)120208 11.5-12	TB-17 12/2/2008 TB17(26-28)120208 26-28	TB-18 11/11/2008 TB18(13-15)111108 13-15	TB-18 11/11/2008 TB18(27-29)111108 27-29
PAH (mg/Kg)															
2-Methylnaphthalene	91-57-6			<0.17 U	6.5	<0.23 U	<0.23 U	<0.089 U	<0.091 U	<0.086 U	<0.094 U	70	<0.091 U	6.5	0.11 J
Acenaphthene	83-32-9	20	500	<0.17 U	7.5	<0.23 U	<0.23 U	<0.089 U	<0.091 U	<0.086 U	<0.094 U	61	<0.091 U	10	0.11 J
Acenaphthylene	208-96-8	100	500	<0.17 U	1.3 J	<0.23 U	<0.23 U	<0.089 U	<0.091 U	<0.086 U	<0.094 U	12	<0.091 U	1.6 J	0.077 J
Anthracene	120-12-7	100	500	<0.17 U	6.7	<0.23 U	<0.23 U	<0.089 U	<0.091 U	<0.086 U	<0.094 U	29	<0.091 U	18	0.11 J
Benzo(a)anthracene	56-55-3	1	5.6	<0.17 U	3.3	<0.23 U	<0.23 U	<0.089 U	<0.091 U	<0.086 U	<0.094 U	19	<0.091 U	4.3	0.05 J
Benzo(a)pyrene	50-32-8	1	1	<0.17 U	3 J	<0.23 U	<0.23 U	<0.089 U	<0.091 U	<0.086 U	<0.094 U	21	<0.091 U	3.7	0.035 J
Benzo(b)fluoranthene	205-99-2	1	5.6	<0.17 U	1.9	<0.23 U	<0.23 U	<0.089 U	<0.091 U	<0.086 U	<0.094 U	18	<0.091 U	2.6	0.025 J
Benzo(ghi)perylene	191-24-2	100	500	<0.17 U	1.6 J	<0.23 U	<0.23 U	<0.089 U	<0.091 U	<0.086 U	<0.094 U	18	<0.091 U	1.7 J	0.015 J
Benzo(k)fluoranthene	207-08-9	0.8	56	<0.17 U	1 J	<0.23 U	<0.23 U	<0.089 UJ	<0.091 UJ	<0.086 UJ	<0.094 U	<0.8 U	<0.091 U	0.76 J	0.011 J
Chrysene	218-01-9	1	56	<0.17 U	2.8	<0.23 U	<0.23 U	<0.089 U	<0.091 U	<0.086 U	<0.094 U	18	<0.091 U	4.1	0.044 J
Dibenzo(a,h)anthracene	53-70-3	0.33	0.56	<0.17 U	0.28 J	<0.23 U	<0.23 U	<0.089 U	<0.091 U	<0.086 U	<0.094 U	2.7	<0.091 U	0.37 J	<0.19 U
Fluoranthene	206-44-0	100	500	<0.17 U	7.6	<0.23 U	<0.23 U	<0.089 U	<0.091 U	<0.086 U	<0.094 U	43	<0.091 U	10	0.11 J
Fluorene	86-73-7	30	500	<0.17 U	5.1	<0.23 U	<0.23 U	<0.089 U	<0.091 U	<0.086 U	<0.094 U	29	<0.091 U	7	0.068 J
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	<0.17 U	1.1 J	<0.23 U	<0.23 U	<0.089 U	<0.091 U	<0.086 U	<0.094 U	12	<0.091 U	1.3 J	0.01 J
Naphthalene	91-20-3	12	500	<0.17 U	2.3	<0.23 U	<0.23 U	<0.089 U	<0.091 U	<0.086 U	<0.094 U	130	<0.091 U	8.6	0.68
Phenanthrene	85-01-8	100	500	<0.17 U	21	0.011 J	0.011 J	<0.089 U	<0.091 U	<0.086 U	<0.094 U	91	<0.091 U	29	0.31
Pyrene	129-00-0	100	500	<0.17 U	11	<0.23 U	<0.23 U	<0.089 U	<0.091 U	<0.086 U	<0.094 U	48	<0.091 U	14	0.15 J
Total PAH		NL	NL	ND	83.98	0.011	0.011	ND	ND	ND	ND	621.7	ND	123.53	1.915
SVOC (mg/Kg)															
1,1'-Biphenyl	92-52-4	NL	NL	<0.17 U	1.6 J	<0.23 U	<0.23 U	<0.44 U	<0.45 U	<0.43 U	<0.46 U	14	<0.45 U	2.1	0.03 J
2,2'-Oxybis(1-Chloropropane)	108-60-1	NL	NL	<0.17 U	<1.8 U	<0.23 U	<0.23 U	<0.089 UJ	<0.091 UJ	<0.086 UJ	<0.094 U	<0.8 U	<0.091 U	<2 U	<0.19 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	<0.17 U	<1.8 U	<0.23 U	<0.23 U	<0.44 U	<0.45 U	<0.43 U	<0.46 U	<3.9 U	<0.45 U	<2 U	<0.19 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	<0.17 U	<1.8 U	<0.23 U	<0.23 U	<0.44 U	<0.45 U	<0.43 U	<0.46 U	<3.9 U	<0.45 U	<2 U	<0.19 U
2,4-Dichlorophenol	120-83-2	NL	NL	<0.17 U	<1.8 U	<0.23 U	<0.23 U	<0.089 U	<0.091 U	<0.086 U	<0.094 U	<0.8 U	<0.091 U	<2 U	<0.19 U
2,4-Dimethylphenol	105-67-9	NL	NL	<0.17 U	<1.8 U	<0.23 U	<0.23 U	<0.44 UJ	<0.45 UJ	<0.43 UJ	<0.46 U	<3.9 U	<0.45 U	<2 U	<0.19 U
2,4-Dinitrophenol	51-28-5	NL	NL	<0.33 U	<3.5 U	<0.45 U	<0.46 U	<2.3 UJ	<2.3 UJ	<2.2 UJ	<2.4 U	<20 U	<2.3 U	<4 U	<0.37 U
2,4-Dinitrotoluene	121-14-2	NL	NL	<0.17 U	<1.8 U	<0.23 U	<0.23 U	<0.44 U	<0.45 U	<0.43 U	<0.46 U	<3.9 U	<0.45 U	<2 U	<0.19 U
2,6-Dinitrotoluene	606-20-2	NL	NL	<0.17 U	<1.8 U	<0.23 U	<0.23 U	<0.44 U	<0.45 U	<0.43 U	<0.46 U	<3.9 U	<0.45 U	<2 U	<0.19 U
2-Chloronaphthalene	91-58-7	NL	NL	<0.17 U	<1.8 U	<0.23 U	<0.23 U	<0.089 U	<0.091 U	<0.086 U	<0.094 U	<0.8 U	<0.091 U	<2 U	<0.19 U
2-Chlorophenol	95-57-8	NL	NL	<0.17 U	<1.8 U	<0.23 U	<0.23 U	<0.44 U	<0.45 U	<0.43 U	<0.46 U	<3.9 U	<0.45 U	<2 U	<0.19 U
2-Methylphenol	95-48-7	0.33	500	<0.17 U	<1.8 U	<0.23 U	<0.23 U	<0.44 U	<0.45 U	<0.43 U	<0.46 U	<3.9 U	<0.45 U	<2 U	<0.19 U
2-Nitroaniline	88-74-4	NL	NL	<0.33 U	<3.5 U	<0.45 U	<0.46 U	<2.3 U	<2.3 U	<2.2 U	<2.4 U	<20 U	<2.3 U	<4 U	<0.37 U
2-Nitrophenol	88-75-5	NL	NL	<0.17 U	<1.8 U	<0.23 U	<0.23 U	<0.44 U	<0.45 U	<0.43 U	<0.46 U	<3.9 U	<0.45 U	<2 U	<0.19 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	<0.17 U	<1.8 U	<0.23 U	<0.23 U	<0.44 UJ	<0.45 UJ	<0.43 UJ	<0.46 U	<3.9 U	<0.45 U	<2 U	<0.19 U
3-Nitroaniline	99-09-2	NL	NL	<0.33 U	<3.5 U	<0.45 U	<0.46 U	<2.3 U	<2.3 U	<2.2 U	<2.4 U	<20 U	<2.3 U	<4 U	<0.37 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	<0.33 U	<3.5 U	<0.45 U	<0.46 U	<2.3 UJ	<2.3 UJ	<2.2 UJ	<2.4 U	<20 U	<2.3 U	<4 U	<0.37 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	<0.17 U	<1.8 U	<0.23 U	<0.23 U	<0.44 U	<0.45 U	<0.43 U	<0.46 U	<3.9 U	<0.45 U	<2 U	<0.19 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	<0.17 U	<1.8 U	<0.23 U	<0.23 U	<0.44 U	<0.45 U	<0.43 U	<0.46 U	<3.9 U	<0.45 U	<2 U	<0.19 U
4-Chloroaniline	106-47-8	NL	NL	<0.17 U	<1.8 U	<0.23 U	<0.23 U	<0.44 U	<0.45 U	<0.43 U	<0.46 U	<3.9 U	<0.45 U	2.5	<0.19 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	<0.17 U	<1.8 U	<0.23 U	<0.23 U	<0.44 U	<0.45 U	<0.43 U	<0.46 U	<3.9 U	<0.45 U	<2 U	<0.19 U
4-Methylphenol	106-44-5	0.33	500	<0.33 U	<1.8 U	<0.23 U	<0.23 U	<0.44 U	<0.45 U	<0.43 U	<0.46 U	<3.9 U	<0.45 U	<2 U	<0.19 U
4-Nitroaniline	100-01-6	NL	NL	<0.33 U	<3.5 U	<0.45 U	<0.46 U	<2.3 U	<2.3 U	<2.2 U	<2.4 U	<20 U	<2.3 U	<4 U	<0.37 U
4-Nitrophenol	100-02-7	NL	NL	<0.33 U	<3.5 U	<0.45 U	<0.46 U	<2.3 U	<2.3 U	<2.2 U	<2.4 U	<20 U	<2.3 U	<4 U	<0.37 U
Acetophenone	98-86-2	NL	NL	<0.17 U	<1.8 U	<0.23 U	<0.23 U	<0.44 U	<0.45 U	<0.43 U	<0.46 U	<3.9 U	<0.45 U	<2 U	<0.19 U
Atrazine	1912-24-9	NL	NL	<0.17 U	<1.8 U	<0.23 U	<0.23 U	<0.44 UJ	<0.45 UJ	<0.43 UJ	<0.46 U	<3.9 U	<0.45 U	<2 U	<0.19 U
Benzaldehyde	100-52-7	NL	NL	<0.17 U	<1.8 U	<0.23 U	<0.23 U	<0.44 UJ	<0.45 UJ	<0.43 UJ	<0.46 U	<3.9 U	<0.45 U	<2 U	<0.19 U
Bis(2-chloroethoxy) methane	111-91-1	NL	NL	<0.17 U	<1.8 U	<0.23 U	<0.23 U	<0.44 U	<0.45 U	<0.43 U	<0.46 U	<3.9 U	<0.45 U		

Table 7
Subsurface Soil SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TB-19 11/19/2008 TB19(12-14)111908 12-14	TB-19 11/19/2008 TB19(24-26)111908 24-26	TB-20 12/10/2008 TB20(24-26)121008 24-26	TB-21 11/19/2008 TB21(10-12)111408 10-12	TB-21 11/14/2008 TB21(26-28)111408 26-28	TB-22 11/11/2008 TB22(14-16)111108 14-16	TB-22 11/11/2008 TB22(20-22)111108 20-22	TB-26 11/13/2008 TB26(12-14)111308 12-14	TB-26 11/13/2008 TB26(16-18)111308 16-18	TB-27 11/11/2008 TB27(12-14)111108 12-14	TB-27 11/12/2008 TB27(16-18)111108 16-18	TB-28 11/12/2008 TB28(8-10)111208 8-10
PAH (mg/Kg)															
2-Methylnaphthalene	91-57-6			200	<0.093 U	0.008 J	73	0.17 J	<0.21 U	0.012 J	9.9	0.4	0.078 J	0.039 J	<0.19 U
Acenaphthene	83-32-9	20	500	220	<0.093 U	0.01 J	62	0.18	0.022 J	0.022 J	21	0.92	0.18 J	0.087 J	<0.19 U
Acenaphthylene	208-96-8	100	500	26	<0.093 U	0.024 J	6	0.035 J	<0.21 U	<0.23 U	3.5	0.12 J	0.035 J	<0.24 U	<0.19 U
Anthracene	120-12-7	100	500	85	<0.093 U	<0.17 U	28	0.1 J	0.013 J	<0.23 U	16	0.84	0.21 J	0.086 J	<0.19 U
Benzo(a)anthracene	56-55-3	1	5.6	42	<0.093 U	<0.17 U	15	0.088 J	<0.21 U	0.011 J	8.7	0.37	0.12 J	0.043 J	<0.19 U
Benzo(a)pyrene	50-32-8	1	1	36	<0.093 U	<0.17 U	13 J	0.078 J	<0.21 U	<0.23 U	8.2 J	0.32 J	0.1 J	0.026 J	<0.19 U
Benzo(b)fluoranthene	205-99-2	1	5.6	33	<0.093 U	<0.17 U	8.9	0.058 J	<0.21 U	<0.23 U	5.4	0.22	0.066 J	0.02 J	<0.19 U
Benzo(ghi)perylene	191-24-2	100	500	19	<0.093 U	<0.17 U	7	0.044 J	<0.21 U	<0.23 U	4.1	0.15 J	0.045 J	<0.24 U	<0.19 U
Benzo(k)fluoranthene	207-08-9	0.8	56	<3.9 UJ	<0.093 UJ	<0.17 U	2.9 J	0.021 J	<0.21 U	<0.23 U	2.5	0.088 J	0.025 J	<0.24 U	<0.19 U
Chrysene	218-01-9	1	56	39	<0.093 U	<0.17 U	12	0.079 J	<0.21 U	<0.23 U	8.1	0.34	0.1 J	0.039 J	<0.19 U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.56	3.5 J	<0.093 U	<0.17 U	0.94 J	<0.18 U	<0.21 U	<0.23 U	0.63 J	0.021 J	<0.22 U	<0.24 U	<0.19 U
Fluoranthene	206-44-0	100	500	90	<0.093 U	0.008 J	34	0.18	0.016 J	0.02 J	20	0.91	0.29	0.1 J	<0.19 U
Fluorene	86-73-7	30	500	100	<0.093 U	0.007 J	27	0.089 J	0.021 J	0.011 J	13	0.57	0.13 J	0.056 J	<0.19 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	15	<0.093 U	<0.17 U	4.7	0.026 J	<0.21 U	<0.23 U	3	0.11 J	0.037 J	<0.24 U	<0.19 U
Naphthalene	91-20-3	12	500	150	<0.093 U	0.067 J	79	0.2	0.046 J	0.03 J	1.5 J	0.66	0.22	0.056 J	<0.19 U
Phenanthrene	85-01-8	100	500	300	0.058 J	0.026 J	100	0.41	0.12 J	0.056 J	52	2.5	0.77	0.29	0.014 J
Pyrene	129-00-0	100	500	140	<0.093 U	0.013 J	47	0.26	0.013 J	0.021 J	27	1.2	0.38	0.14 J	0.008 J
Total PAH		NL	NL	1498.5	0.058	0.163	520.44	2.018	0.277	0.183	204.53	9.739	2.786	0.982	0.022
SVOC (mg/Kg)															
1,1'-Biphenyl	92-52-4	NL	NL	40	<0.46 U	<0.17 U	16	0.049 J	0.013 J	<0.23 U	4.8	0.2 J	0.04 J	0.025 J	<0.19 U
2,2'-Oxybis(1-Chloropropane)	108-60-1	NL	NL	<3.9 UJ	<0.093 UJ	<0.17 U	<3.7 U	<0.18 U	<0.21 U	<0.23 U	<1.9 U	<0.22 U	<0.22 U	<0.24 U	<0.19 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	<19 U	<0.46 U	<0.17 U	<3.7 U	<0.18 U	<0.21 U	<0.23 U	<1.9 U	<0.22 U	<0.22 U	<0.24 U	<0.19 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	<19 U	<0.46 U	<0.17 U	<3.7 U	<0.18 U	<0.21 U	<0.23 U	<1.9 U	<0.22 U	<0.22 U	<0.24 U	<0.19 U
2,4-Dichlorophenol	120-83-2	NL	NL	<3.9 U	<0.093 U	<0.17 U	<3.7 U	<0.18 U	<0.21 U	<0.23 U	<1.9 U	<0.22 U	<0.22 U	<0.24 U	<0.19 U
2,4-Dimethylphenol	105-67-9	NL	NL	<19 UJ	<0.46 UJ	<0.17 U	<3.7 U	<0.18 U	<0.21 U	<0.23 U	<1.9 U	<0.22 U	<0.22 U	<0.24 U	<0.19 U
2,4-Dinitrophenol	51-28-5	NL	NL	<100 UJ	<2.3 UJ	<0.34 U	<7.1 UJ	<0.36 UJ	<0.41 U	<0.45 U	<3.6 UJ	<0.42 UJ	<0.42 UJ	<0.46 U	<0.36 U
2,4-Dinitrotoluene	121-14-2	NL	NL	<19 U	<0.46 U	<0.17 U	<3.7 U	<0.18 U	<0.21 U	<0.23 U	<1.9 U	<0.22 U	<0.22 U	<0.24 U	<0.19 U
2,6-Dinitrotoluene	606-20-2	NL	NL	<19 U	<0.46 U	<0.17 U	<3.7 U	<0.18 U	<0.21 U	<0.23 U	<1.9 U	<0.22 U	<0.22 U	<0.24 U	<0.19 U
2-Chloronaphthalene	91-58-7	NL	NL	<3.9 U	<0.093 U	<0.17 U	<3.7 U	<0.18 U	<0.21 U	<0.23 U	0.16 J	<0.22 U	<0.22 U	<0.24 U	<0.19 U
2-Chlorophenol	95-57-8	NL	NL	<19 U	<0.46 U	<0.17 U	<3.7 U	<0.18 U	<0.21 U	<0.23 U	<1.9 U	<0.22 U	<0.22 U	<0.24 U	<0.19 U
2-Methylphenol	95-48-7	0.33	500	<19 U	<0.46 U	<0.17 U	<3.7 U	<0.18 U	<0.21 U	<0.23 U	<1.9 U	<0.22 U	<0.22 U	<0.24 U	<0.19 U
2-Nitroaniline	88-74-4	NL	NL	<100 U	<2.3 U	<0.34 U	<7.1 U	<0.36 U	<0.41 U	<0.45 U	<3.6 U	<0.42 U	<0.42 U	<0.46 U	<0.36 U
2-Nitrophenol	88-75-5	NL	NL	<19 U	<0.46 U	<0.17 U	<3.7 U	<0.18 U	<0.21 U	<0.23 U	<1.9 U	<0.22 U	<0.22 U	<0.24 U	<0.19 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	<19 UJ	<0.46 UJ	<0.17 U	<3.7 U	<0.18 UJ	<0.21 U	<0.23 U	<1.9 UJ	<0.22 UJ	<0.22 U	<0.24 U	<0.19 U
3-Nitroaniline	99-09-2	NL	NL	<100 U	<2.3 U	<0.34 U	<7.1 U	<0.36 U	<0.41 U	<0.45 U	<3.6 U	<0.42 U	<0.42 U	<0.46 U	<0.36 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	<100 UJ	<2.3 UJ	<0.34 U	<7.1 U	<0.36 U	<0.41 U	<0.45 U	<3.6 U	<0.42 U	<0.42 U	<0.46 U	<0.36 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	<19 U	<0.46 U	<0.17 U	<3.7 U	<0.18 U	<0.21 U	<0.23 U	<1.9 U	<0.22 U	<0.22 U	<0.24 U	<0.19 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	<19 U	<0.46 U	<0.17 U	<3.7 U	<0.18 U	<0.21 U	<0.23 U	<1.9 U	<0.22 U	<0.22 U	<0.24 U	<0.19 U
4-Chloroaniline	106-47-8	NL	NL	<19 U	<0.46 U	<0.17 U	<3.7 U	<0.18 U	<0.21 U	<0.23 U	<1.9 U	<0.22 U	0.067 J	<0.24 U	<0.19 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	<19 U	<0.46 U	<0.17 U	<3.7 U	<0.18 U	<0.21 U	<0.23 U	<1.9 U	<0.22 U	<0.22 U	<0.24 U	<0.19 U
4-Methylphenol	106-44-5	0.33	500	<19 U	<0.46 U	<0.17 U	<3.7 U	<0.18 U	<0.21 U	<0.23 U	<1.9 U	<0.22 U	<0.22 U	<0.24 U	<0.19 U
4-Nitroaniline	100-01-6	NL	NL	<100 U	<2.3 U	<0.34 U	<7.1 U	<0.36 U	<0.41 U	<0.45 U	<3.6 U	<0.42 U	<0.42 U	<0.46 U	<0.36 U
4-Nitrophenol	100-02-7	NL	NL	<100 U	<2.3 U	<0.34 U	<7.1 U	<0.36 U	<0.41 U	<0.45 U	<3.6 U	<0.42 U	<0.42 U	<0.46 U	<0.36 U
Acetophenone	98-86-2	NL	NL	<19 U	<0.46 U	<0.17 U	<3.7 U	<0.18 U	<0.21 U	<0.23 U	<1.9 U	<0.22 U	<0.22 U	<0.24 U	<0.19 U
Atrazine	1912-24-9	NL	NL	<19 UJ	<0.46 UJ	<0.17 U	<3.7 U	<0.18 U	<0.21 U	<0.23 U	<1.9 U	<0.22 U	<0.22 U	<0.24 U	<0.19 U
Benzaldehyde	100-52-7	NL	NL	<19 UJ	<0.46 UJ	<0.17 U	<3.7 U	<0.18 U	<0.21 U	<0.23 U	<1.9 U	<0.22 U	<0.22 U	<0.24 U	<0.19 U
Bis(2-chloroethoxy) methane	111-91-1	NL	NL	<19 U	<0.46 U	<0.17 U	<3.7 U	<0.18 U	<0.21 U	<0.23 U	<1.9 U	<0.22 U	<0.22 U	<0.24 U	<0.19 U
Bis(2-chloroethyl) ether	111-44-4	NL	NL	<3.9 U	<0.093 U	<0.17 U	<3.7 U	<0.18 U	<0.21 U						

Table 7
Subsurface Soil SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TB-29 8/11/2009 TB29(12-13.5)081109 12-13.5	TB-30 1/6/2009 TB30(14-15)010609 14-15	TB-31 12/1/2008 TB31(12-13)120108 12-13	TB-31 12/1/2008 TB31(18-20)120108 18-20	TB-32 8/12/2009 TB32(21-23)081209 21-23	TB-34 8/11/2009 TB34(17-19)081109 17-19	TB-35 12/1/2008 TB35(8-10)120108 8-10	TB-36 12/18/2008 TB-36(8-10)121808 8-10	TB-36 12/18/2008 TB-36(10-12)121808 10-12	TB-38 12/18/2008 TB-38(6-8)121808 6-8	TB-38 12/18/2008 TB-38(10-12)121808 10-12	TB-39 12/18/2008 TB-39(12.5-13.5)121808 12.5-13.5
PAH (mg/Kg)															
2-Methylnaphthalene	91-57-6			<0.2 U	0.12 J	180	0.8	<0.19 U	<0.19 U	0.049 J	0.11 J	0.052 J	<0.18 U	<0.22 U	7.3
Acenaphthene	83-32-9	20	500	<0.2 U	0.069 J	130	0.37	<0.19 U	<0.19 U	<0.084 U	1.9	0.16 J	<0.18 U	<0.22 U	5.7
Acenaphthylene	208-96-8	100	500	<0.2 U	0.13 J	23	1.7	<0.19 U	<0.19 U	<0.084 U	2.1	0.11 J	<0.18 U	<0.22 U	1.6 J
Anthracene	120-12-7	100	500	<0.2 U	0.044 J	130	0.08	<0.19 U	0.013 J	<0.084 U	6.6	0.35	<0.18 U	<0.22 U	4.1
Benzo(a)anthracene	56-55-3	1	5.6	<0.2 U	0.029 J	50	0.039 J	<0.19 U	0.058 J	<0.084 U	8.5	0.54	<0.18 U	<0.22 U	2.6
Benzo(a)pyrene	50-32-8	1	1	<0.2 U	0.013 J	44	0.023 J	<0.19 U	0.13 J	<0.084 U	8 J	0.54 J	<0.18 U	0.048 J	2.3 J
Benzo(b)fluoranthene	205-99-2	1	5.6	<0.2 U	0.016 J	37	0.028 J	<0.19 U	0.11 J	<0.084 U	5.5	0.39	<0.18 U	<0.22 U	1.7 J
Benzo(ghi)perylene	191-24-2	100	500	<0.2 U	<0.19 U	24	0.013 J	<0.19 U	0.2	<0.084 U	4.4	0.31	<0.18 U	<0.22 U	1.1 J
Benzo(k)fluoranthene	207-08-9	0.8	56	<0.2 U	<0.19 U	<0.8 U	<0.07 U	<0.19 U	<0.19 U	<0.084 U	2.4	0.15 J	<0.18 U	<0.22 U	0.5 J
Chrysene	218-01-9	1	56	<0.2 U	0.031 J	49	0.034 J	<0.19 U	0.061 J	<0.084 U	7.2	0.47	<0.18 U	<0.22 U	2.3
Dibenzo(a,h)anthracene	53-70-3	0.33	0.56	<0.2 U	<0.19 U	5.2	<0.07 U	<0.19 U	<0.19 U	<0.084 U	0.89 J	0.074 J	<0.18 U	<0.22 U	0.25 J
Fluoranthene	206-44-0	100	500	<0.2 U	0.077 J	120	0.094	<0.19 U	0.074 J	0.01 J	14	0.68	<0.18 U	<0.22 U	5.9
Fluorene	86-73-7	30	500	<0.2 U	0.03 J	93	<0.07 U	<0.19 U	<0.19 U	<0.084 U	1.7 J	0.1 J	<0.18 U	<0.22 U	4.2
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	<0.2 U	<0.19 U	17	0.0093 J	<0.19 U	0.08 J	<0.084 U	3.1 J	0.23 J	<0.18 U	<0.22 U	0.83 J
Naphthalene	91-20-3	12	500	<0.2 U	0.68	250	18	<0.19 U	<0.19 U	0.096	0.22 J	0.23	<0.18 U	<0.22 U	5.5
Phenanthrene	85-01-8	100	500	<0.2 U	0.16 J	270	0.17	<0.19 U	0.061 J	0.027 J	11	0.6	<0.18 U	<0.22 U	16
Pyrene	129-00-0	100	500	<0.2 U	0.098 J	120	0.098	<0.19 U	0.089 J	<0.084 U	19	1	<0.18 U	<0.22 U	8.1
Total PAH		NL	NL	ND	1.497	1542.2	21.4583	ND	0.876	0.182	96.62	5.986	ND	0.048	69.98
SVOC (mg/Kg)															
1,1'-Biphenyl	92-52-4	NL	NL	<0.2 U	0.026 J	29	0.24 J	<0.19 U	<0.19 U	<0.41 U	0.3 J	0.039 J	<0.18 U	<0.22 U	1.2 J
2,2'-Oxybis(1-Chloropropane)	108-60-1	NL	NL	<0.2 U	<0.19 U	<0.8 U	<0.07 U	<0.19 U	<0.19 U	<0.084 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
2,4-Dichlorophenol	120-83-2	NL	NL	<0.2 U	<0.19 U	<0.8 U	<0.07 U	<0.19 U	<0.19 U	<0.084 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
2,4-Dimethylphenol	105-67-9	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
2,4-Dinitrophenol	51-28-5	NL	NL	<0.39 U	<0.37 U	<20 U	<1.8 U	<0.38 U	<0.36 U	<2.1 U	<3.6 U	<0.4 U	<0.35 U	<0.43 U	<3.8 U
2,4-Dinitrotoluene	121-14-2	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
2,6-Dinitrotoluene	606-20-2	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
2-Chloronaphthalene	91-58-7	NL	NL	<0.2 U	<0.19 U	<0.8 U	<0.07 U	<0.19 U	<0.19 U	<0.084 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
2-Chlorophenol	95-57-8	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
2-Methylphenol	95-48-7	0.33	500	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
2-Nitroaniline	88-74-4	NL	NL	<0.39 U	<0.37 U	<20 U	<1.8 U	<0.38 U	<0.36 U	<2.1 U	<3.6 U	<0.4 U	<0.35 U	<0.43 U	<3.8 U
2-Nitrophenol	88-75-5	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
3-Nitroaniline	99-09-2	NL	NL	<0.39 U	<0.37 U	<20 U	<1.8 U	<0.38 U	<0.36 U	<2.1 U	<3.6 U	<0.4 U	<0.35 U	<0.43 U	<3.8 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	<0.39 U	<0.37 U	<20 U	<1.8 U	<0.38 U	<0.36 U	<2.1 U	<3.6 U	<0.4 U	<0.35 U	<0.43 U	<3.8 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
4-Chloroaniline	106-47-8	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
4-Methylphenol	106-44-5	0.33	500	<0.39 U	<0.19 U	<3.9 U	<0.35 U	<0.38 U	<0.36 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
4-Nitroaniline	100-01-6	NL	NL	<0.39 U	<0.37 U	3.6 J	<1.8 U	<0.38 U	<0.36 U	<2.1 U	<3.6 U	<0.4 U	<0.35 U	<0.43 U	<3.8 U
4-Nitrophenol	100-02-7	NL	NL	<0.39 U	<0.37 U	<20 U	<1.8 U	<0.38 U	<0.36 U	<2.1 U	<3.6 U	<0.4 U	<0.35 U	<0.43 U	<3.8 U
Acetophenone	98-86-2	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
Atrazine	1912-24-9	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
Benzaldehyde	100-52-7	NL	NL	<0.2 U	<0.19 UJ	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
Bis(2-chloroethoxy) methane	111-91-1	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 UJ	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
Bis(2-chloroethyl) ether	111-44-4	NL	NL	<0.2 U	<0.19 U	<0.8 U	<0.07 U	<0.19 U	<0.19 U	<0.084 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
Bis(2-ethylhexyl) phthalate	117-81-7	NL	NL	<0.2 U	<0.17 U	<3.9 U	0.061 J	<0.19 U	<0.19 U	0.12 J	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
Butyl benzyl phthalate	85-68-7	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
Caprolactam	105-60-2	NL	NL	<0.2 U	<0.19 U	<20 U	<1.8 U	<0.19 U	<0.19 U	<2.1 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
Carbazole	86-74-8	NL	NL	<0.2 U	<0.19 U	0.88	<0.07 U	<0.19 U	<0.19 U	<0.084 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
Dibenzofuran	132-64-9	7	350	<0.2 U	<0.19 U	6.4	<0.35 U	<0.19 U	<0.19 U	<0.41 U	0.13 J	0.008 J	<0.18 U	<0.22 U	0.35 J
Diethyl phthalate	84-66-2	NL	NL	<0.2 U	<0.19 U	2.3 J	0.18 J	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
Dimethyl phthalate	131-11-3	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
Di-n-butyl phthalate	84-74-2	NL	NL	<0.2 U	<0.19 UJ	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
Di-n-octyl phthalate	117-84-0	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
Hexachlorobenzene	118-74-1	0.33	6	<0.2 U	<0.19 U	<0.8 U	<0.07 U	<0.19 U	<0.19 U	<0.084 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
Hexachlorobutadiene	87-68-3	NL	NL	<0.2 U	<0.19 U	<0.8 U	<0.07 U	<0.19 U	<0.19 U	<0.084 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
Hexachlorocyclopentadiene	77-47-4	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
Hexachloroethane	67-72-1	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
Isophorone	78-59-1	NL	NL	<0.2 U	<0.19 U	<3.9 U	<0.35 U	<0.19 U	<0.19 U	<0.41 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
Nitrobenzene	98-95-3	NL	NL	<0.2 U	<0.19 U	<0.8 U	<0.07 U	<0.19 U	<0.19 U	<0.084 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
N-Nitroso-Di-n-propylamine	621-64-7	NL	NL	<0.2 U	<0.19 U	<0.8 U	<0.07 U	<0.19 U	<0.19 U	<0.084 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	<2 U
N-nitrosodiphenylamine	86-30-6	NL	NL	<0.2 U	<0.19 U	<0.8 U	<0.07 U	<0.19 U	<0.19 U	<0.084 U	<1.9 U	<0.21 U	<0.18 U	<0.22 U	0.14 J
Pentachlorophenol	87-86-5	0.8	6.7	<0.39 U	<0.37 U	<3.9 U	<0.35 U	<0.38 U	<0.36 U	<0.41 U	<3.6 U	<0.4 U	<0.35 U	<0.43 U	<3.8 U

Table 7
Subsurface Soil SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TB-39 12/18/2008 TB-39(13.5-14)121808 13.5-14	TB-40 12/18/2008 TB-40(8-10)121808 8-10	TB-40 12/18/2008 TB-40(12-14)121808 12-14	TB-46 8/6/2009 TB46(14-15)080609 14-15	TB-46 8/6/2009 TB46(15-16)080609 15-16	TB-48 8/6/2009 TB48(13.5-14.5)080609 13.5-14.5	TB-48 8/6/2009 TB48(15-16)080609 15-16	TB-49 8/12/2009 TB49(10-11)081209 10-11	TB-49 8/12/2009 TB49(12-13)081209 12-13	TB-55 8/14/2009 TB55(11-12)081409 11-12	TB-56 8/14/2009 TB56(11-12)081409 11-12	TB-57 8/17/2009 TB57(12-14)081709 12-14
PAH (mg/Kg)															
2-Methylnaphthalene	91-57-6			<0.21 U	<0.2 U	<0.21 U	0.058 J	<0.2 U	0.46 J	0.027 J	0.15 J	0.021 J	<0.21 U	<0.24 U	<0.22 U
Acenaphthene	83-32-9	20	500	<0.21 U	<0.2 U	<0.21 U	<0.2 U	<0.2 U	1.9 J	0.048 J	0.96	0.023 J	<0.21 U	0.026 J	<0.22 U
Acenaphthylene	208-96-8	100	500	<0.21 U	0.031 J	<0.21 U	<0.19 U	<0.2 U	0.71 J	<0.19 U	0.21	<0.2 U	<0.21 U	<0.24 U	<0.22 U
Anthracene	120-12-7	100	500	<0.21 U	<0.2 U	<0.21 U	0.058 J	<0.2 U	3.7	0.036 J	1.1	0.019 J	<0.21 U	<0.24 U	<0.22 U
Benzo(a)anthracene	56-55-3	1	5.6	<0.21 U	0.047 J	<0.21 U	0.04 J	<0.2 U	3.3	0.045 J	0.66	0.016 J	<0.21 U	<0.24 U	<0.22 U
Benzo(a)pyrene	50-32-8	1	1	<0.21 U	0.069 J	<0.21 U	0.036 J	<0.2 U	3.4 J	0.033 J	0.65	0.012 J	<0.21 U	<0.24 U	<0.22 U
Benzo(b)fluoranthene	205-99-2	1	5.6	<0.21 U	0.056 J	<0.21 U	0.03 J	<0.2 U	3.2	0.03 J	0.66	<0.2 U	<0.21 U	<0.24 U	<0.22 UJ
Benzo(ghi)perylene	191-24-2	100	500	<0.21 U	0.071 J	<0.21 U	<0.19 U	<0.2 U	1.7 J	<0.19 U	0.35	<0.2 U	<0.21 U	<0.24 U	<0.22 U
Benzo(k)fluoranthene	207-08-9	0.8	56	<0.21 U	0.025 J	<0.21 U	<0.19 U	<0.2 U	<1.9 U	0.015 J	<0.2 U	<0.2 U	<0.21 U	<0.24 U	<0.22 UJ
Chrysene	218-01-9	1	56	<0.21 U	0.041 J	<0.21 U	0.031 J	<0.2 U	3	0.04 J	0.61	0.014 J	<0.21 U	<0.24 U	<0.22 U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.56	<0.21 U	<0.2 U	<0.21 U	<0.19 U	<0.2 U	0.32 J	<0.19 U	0.072 J	<0.2 U	<0.21 U	<0.24 U	<0.22 U
Fluoranthene	206-44-0	100	500	<0.21 U	0.034 J	<0.21 U	0.076 J	<0.2 U	7.4	0.089 J	1.6	0.032 J	<0.21 U	<0.24 U	<0.22 U
Fluorene	86-73-7	30	500	<0.21 U	<0.2 U	<0.21 U	0.022 J	<0.2 U	1.4 J	0.033 J	0.86	0.012 J	<0.21 U	<0.24 U	<0.22 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	<0.21 U	0.047 J	<0.21 U	<0.19 U	<0.2 U	1.2 J	<0.19 U	0.22	<0.2 U	<0.21 U	<0.24 U	<0.22 U
Naphthalene	91-20-3	12	500	<0.21 U	<0.2 U	<0.21 U	0.39	0.1 J	<1.9 U	0.044 J	0.16 J	0.13 J	<0.21 U	<0.24 U	0.037 J
Phenanthrene	85-01-8	100	500	<0.21 U	0.013 J	<0.21 U	0.17 J	<0.2 U	11	0.22	3.4	0.077 J	<0.21 U	<0.24 U	<0.22 U
Pyrene	129-00-0	100	500	<0.21 U	0.094 J	<0.21 U	0.095 J	<0.2 U	9.9	0.11 J	1.9	0.036 J	<0.21 U	<0.24 U	<0.22 U
Total PAH		NL	NL	ND	0.528	ND	1.006	0.1	52.59	0.77	13.562	0.392	ND	0.026	0.037
SVOC (mg/Kg)															
1,1'-Biphenyl	92-52-4	NL	NL	<0.21 U	<0.2 U	<0.21 U	<0.19 U	<0.2 U	0.34 J	0.013 J	0.17 J	<0.2 U	<0.21 U	<0.24 U	<0.22 U
2,2'-Oxybis(1-Chloropropane)	108-60-1	NL	NL	<0.21 U	<0.2 U	<0.21 U	<0.19 U	<0.2 U	<1.9 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.24 U	<0.22 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	<0.21 U	<0.2 U	<0.21 U	<0.19 U	<0.2 U	<1.9 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.24 U	<0.22 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	<0.21 U	<0.2 U	<0.21 U	<0.19 U	<0.2 U	<1.9 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.24 U	<0.22 U
2,4-Dichlorophenol	120-83-2	NL	NL	<0.21 U	<0.2 U	<0.21 U	<0.19 U	<0.2 U	<1.9 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.24 U	<0.22 U
2,4-Dimethylphenol	105-67-9	NL	NL	<0.21 U	<0.2 U	<0.21 U	<0.19 U	<0.2 U	<1.9 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.24 U	<0.22 U
2,4-Dinitrophenol	51-28-5	NL	NL	<0.41 U	<0.39 U	<0.41 U	<0.37 U	<0.39 U	<3.8 U	<0.37 U	<0.38 U	<0.39 U	<0.41 U	<0.47 U	<0.42 U
2,4-Dinitrotoluene	121-14-2	NL	NL	<0.21 U	<0.2 U	<0.21 U	<0.19 U	<0.2 U	<1.9 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.24 U	<0.22 U
2,6-Dinitrotoluene	606-20-2	NL	NL	<0.21 U	<0.2 U	<0.21 U	<0.19 U	<0.2 U	<1.9 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.24 U	<0.22 U
2-Chloronaphthalene	91-58-7	NL	NL	<0.21 U	<0.2 U	<0.21 U	<0.19 U	<0.2 U	<1.9 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.24 U	<0.22 U
2-Chlorophenol	95-57-8	NL	NL	<0.21 U	<0.2 U	<0.21 U	<0.19 U	<0.2 U	<1.9 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.24 U	<0.22 U
2-Methylphenol	95-48-7	0.33	500	<0.21 U	<0.2 U	<0.21 U	<0.19 U	<0.2 U	<1.9 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.24 U	<0.22 U
2-Nitroaniline	88-74-4	NL	NL	<0.41 U	<0.39 U	<0.41 U	<0.37 U	<0.39 U	<3.8 U	<0.37 U	<0.38 U	<0.39 U	<0.41 U	<0.47 U	<0.42 U
2-Nitrophenol	88-75-5	NL	NL	<0.21 U	<0.2 U	<0.21 U	<0.19 U	<0.2 U	<1.9 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.24 U	<0.22 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	<0.21 U	<0.2 U	<0.21 U	<0.19 U	<0.2 U	<1.9 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.24 U	<0.22 U
3-Nitroaniline	99-09-2	NL	NL	<0.41 U	<0.39 U	<0.41 U	<0.37 U	<0.39 U	<3.8 U	<0.37 U	<0.38 U	<0.39 U	<0.41 U	<0.47 U	<0.42 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	<0.41 U	<0.39 U	<0.41 U	<0.37 U	<0.39 U	<3.8 U	<0.37 U	<0.38 U	<0.39 U	<0.41 U	<0.47 U	<0.42 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	<0.21 U	<0.2 U	<0.21 U	<0.19 U	<0.2 U	<1.9 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.24 U	<0.22 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	<0.21 U	<0.2 U	<0.21 U	<0.19 U	<0.2 U	<1.9 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.24 U	<0.22 U
4-Chloroaniline	106-47-8	NL	NL	<0.21 U	<0.2 U	<0.21 U	<0.19 U	<0.2 U	<1.9 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.24 U	<0.22 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	<0.21 U	<0.2 U	<0.21 U	<0.19 U	<0.2 U	<1.9 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.24 U	<0.22 U
4-Methylphenol	106-44-5	0.33	500	<0.21 U	<0.2 U	<0.21 U	<0.37 U	<0.39 U	<3.8 U	<0.37 U	<0.38 U	<0.39 U	<0.41 U	<0.47 U	<0.42 U
4-Nitroaniline	100-01-6	NL	NL	<0.41 U	<0.39 U	<0.41 U	<0.37 U	<0.39 U	<3.8 U	<0.37 U	<0.38 U	<0.39 U	<0.41 U	<0.47 U	<0.42 U
4-Nitrophenol	100-02-7	NL	NL	<0.41 U	<0.39 U	<0.41 U	<0.37 U	<0.39 U	<3.8 U	<0.37 U	<0.38 U	<0.39 U	<0.41 U	<0.47 U	<0.42 U
Acetophenone	98-86-2	NL	NL	<0.21 U	<0.2 U	<0.21 U	<0.19 U	<0.2 U	<1.9 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.24 U	<0.22 U
Atrazine	1912-24-9	NL	NL	<0.21 U	<0.2 U	<0.21 U	<0.19 UJ	<0.2 UJ	<1.9 UJ	<0.19 UJ	<0.2 U	<0.2 U	<0.21 U	<0.24 U	<0.22 U
Benzaldehyde	100-52-7	NL	NL	<0.21 U	<0.2 U	<0.21 U	<0.19 R	<0.2 R	<1.9 R	<0.19 R	<0.2 U	<0.2 U	<0.21 U	<0.24 U	<0.22 U
Bis(2-chloroethoxy) methane	111-91-1	NL	NL	<0.21 U	<0.2 U	<0.21 U	<0.19 U	<0.2 U	<1.9 U	<0.19 U	<0.2 U	<0.2 U	<		

Table 7
Subsurface Soil SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TB-61 8/18/2009 TB61(14-15)081809 14-15	TB-64 8/19/2009 TB64(12-13)081909 12-13	TB-68 8/20/2009 TB68(13-14)082009 13-14	TB-69 8/20/2009 TB69(10-11)082009 10-11	TB-71 8/20/2009 TB71(10-12)082009 10-12	TB-75 8/20/2009 TB75(7-9)082009 7-9	TB-77 8/21/2009 TB77(12-14)082109 12-14	TB-79 8/21/2009 TB79(12-14)082109 12-14	TB-82 6/24/2010 TB82(17-19.5)062410 17-19.5	TB-83 6/16/2010 TB83(18.5-21)061610 18.5-21	TB-84 6/16/2010 TB84(12-14)061610 12-14	TB-84 6/16/2010 TB84(19.5-21)061610 19.5-21
PAH (mg/Kg)															
2-Methylnaphthalene	91-57-6			<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
Acenaphthene	83-32-9	20	500	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
Acenaphthylene	208-96-8	100	500	<0.23 U	<0.23 U	<0.21 U	0.056 J	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
Anthracene	120-12-7	100	500	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
Benzo(a)anthracene	56-55-3	1	5.6	0.024 J	<0.23 U	<0.21 U	0.01 J	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
Benzo(a)pyrene	50-32-8	1	1	0.015 J	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
Benzo(b)fluoranthene	205-99-2	1	5.6	<0.23 UJ	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
Benzo(ghi)perylene	191-24-2	100	500	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
Benzo(k)fluoranthene	207-08-9	0.8	56	<0.23 UJ	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
Chrysene	218-01-9	1	56	0.016 J	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.56	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
Fluoranthene	206-44-0	100	500	0.042 J	<0.23 U	<0.21 U	0.015 J	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
Fluorene	86-73-7	30	500	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 UJ	<0.19 U	<0.2 U	<0.19 U
Naphthalene	91-20-3	12	500	<0.23 U	<0.23 U	0.04 J	0.088 J	0.05 J	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
Phenanthrene	85-01-8	100	500	0.063 J	<0.23 U	0.05 J	0.019 J	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	0.03 J	<0.2 U	<0.19 U
Pyrene	129-00-0	100	500	<0.23 U	<0.23 U	<0.21 U	0.021 J	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
Total PAH		NL	NL	0.16	ND	0.09	0.209	0.05	ND	ND	ND	ND	0.03	ND	ND
SVOC (mg/Kg)															
1,1'-Biphenyl	92-52-4	NL	NL	<0.23 U	<0.23 U	<0.21 U	0.069 J	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
2,2'-Oxybis(1-Chloropropane)	108-60-1	NL	NL	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
2,4-Dichlorophenol	120-83-2	NL	NL	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
2,4-Dimethylphenol	105-67-9	NL	NL	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
2,4-Dinitrophenol	51-28-5	NL	NL	<0.44 U	<0.44 U	<0.4 U	<0.46 U	<0.46 U	<0.4 U	<0.41 U	<4.2 U	<0.35 U	<0.36 U	<0.4 U	<0.37 U
2,4-Dinitrotoluene	121-14-2	NL	NL	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 UJ	<0.19 U	<0.2 U	<0.19 U
2,6-Dinitrotoluene	606-20-2	NL	NL	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
2-Chloronaphthalene	91-58-7	NL	NL	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
2-Chlorophenol	95-57-8	NL	NL	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
2-Methylphenol	95-48-7	0.33	500	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
2-Nitroaniline	88-74-4	NL	NL	<0.44 U	<0.44 U	<0.4 U	<0.46 U	<0.46 U	<0.4 U	<0.41 U	<4.2 U	<0.35 U	<0.36 U	<0.4 U	<0.37 U
2-Nitrophenol	88-75-5	NL	NL	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
3-Nitroaniline	99-09-2	NL	NL	<0.44 U	<0.44 U	<0.4 U	<0.46 U	<0.46 U	<0.4 U	<0.41 U	<4.2 U	<0.35 U	<0.36 U	<0.4 U	<0.37 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	<0.44 U	<0.44 U	<0.4 U	<0.46 U	<0.46 U	<0.4 U	<0.41 U	<4.2 U	<0.35 U	<0.36 U	<0.4 U	<0.37 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
4-Chloroaniline	106-47-8	NL	NL	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
4-Methylphenol	106-44-5	0.33	500	<0.44 U	<0.44 U	<0.4 U	<0.46 U	<0.46 U	<0.4 U	<0.41 U	<4.2 U	<0.35 U	<0.36 U	<0.4 U	<0.37 U
4-Nitroaniline	100-01-6	NL	NL	<0.44 U	<0.44 U	<0.4 U	<0.46 U	<0.46 U	<0.4 U	<0.41 U	<4.2 U	<0.35 U	<0.36 U	<0.4 U	<0.37 U
4-Nitrophenol	100-02-7	NL	NL	<0.44 U	<0.44 U	<0.4 U	<0.46 U	<0.46 U	<0.4 U	<0.41 U	<4.2 U	<0.35 U	<0.36 U	<0.4 U	<0.37 U
Acetophenone	98-86-2	NL	NL	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
Atrazine	1912-24-9	NL	NL	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<0.19 U
Benzaldehyde	100-52-7	NL	NL	<0.23 U	<0.23 U	<0.21 U	<0.24 U	<0.24 U	<0.21 U	<0.21 U	<2.2 U	<0.18 U	<0.19 U	<0.2 U	<

Table 7
Subsurface Soil SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TB-85 6/24/2010 TB85(16-18.5)062410 16-18.5	TB-86 6/24/2010 TB86(24-25)062410 24-25	TB-87 6/15/2010 TB87(24-26)061510 24-26	TB-87 6/15/2010 TB87(34-36)061510 34-36	TB-88 6/15/2010 TB88(22-24)061510 22-24	TB-88 6/15/2010 TB88(41.5-43.2)061510 41.5-43.2	TB-89 7/6/2010 TB89(52-54)070610 52-54	TB-90 7/8/2010 TB90(12-13)070810 12-13	TB-91 7/8/2010 TB91(12-14)070810 12-14	TB-94 6/24/2010 TB94(12-13)062410 12-13	TB-95 6/28/2010 TB95(12-14)062810 12-14	TB-96 7/7/2010 TB96(12-14)070710 12-14
PAH (mg/Kg)															
2-Methylnaphthalene	91-57-6			0.062 J	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	5.2	0.025 J	<0.23 U	<0.23 U	<0.24 U	<0.21 U
Acenaphthene	83-32-9	20	500	0.13 J	0.019 J	<0.23 U	<0.18 U	<0.25 U	<0.19 U	2.3	0.071 J	<0.23 U	<0.23 U	<0.24 U	<0.21 U
Acenaphthylene	208-96-8	100	500	0.55	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	5.1	0.15 J	<0.23 U	<0.23 U	<0.24 U	<0.21 U
Anthracene	120-12-7	100	500	0.018 J	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	3.6	0.077 J	<0.23 U	<0.23 U	<0.24 U	<0.21 U
Benzo(a)anthracene	56-55-3	1	5.6	0.015 J	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	2.1	0.014 J	<0.23 U	<0.23 U	<0.24 U	<0.21 U
Benzo(a)pyrene	50-32-8	1	1	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	2.4	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
Benzo(b)fluoranthene	205-99-2	1	5.6	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	1.7	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
Benzo(ghi)perylene	191-24-2	100	500	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	0.99	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
Benzo(k)fluoranthene	207-08-9	0.8	56	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	0.51	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
Chrysene	218-01-9	1	56	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	1.9	0.01 J	<0.23 U	<0.23 U	<0.24 U	<0.21 U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.56	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	0.22	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
Fluoranthene	206-44-0	100	500	0.023 J	0.019 J	<0.23 U	<0.18 U	<0.25 U	<0.19 U	4.3	0.09 J	<0.23 U	<0.23 U	<0.24 U	<0.21 U
Fluorene	86-73-7	30	500	0.056 J	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	3.8	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	0.81	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
Naphthalene	91-20-3	12	500	1.3	<0.19 U	<0.23 U	<0.18 U	<0.25 U	0.038 J	3.6	0.15 J	<0.23 U	0.053 J	<0.24 U	<0.21 U
Phenanthrene	85-01-8	100	500	0.08 J	0.052 J	<0.23 U	<0.18 U	<0.25 U	<0.19 U	11	0.037 J	<0.23 U	<0.23 U	<0.24 U	<0.21 U
Pyrene	129-00-0	100	500	0.036 J	0.029 J	<0.23 U	<0.18 U	<0.25 U	<0.19 U	5.4	0.12 J	<0.23 U	<0.23 U	<0.24 U	<0.21 U
Total PAH		NL	NL	2.27	0.119	ND	ND	ND	0.038	54.93	0.744	ND	0.053	ND	ND
SVOC (mg/Kg)															
1,1'-Biphenyl	92-52-4	NL	NL	0.061 J	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	1.1 J	0.036 J	<0.23 UJ	<0.23 U	<0.24 U	<0.21 UJ
2,2'-Oxybis(1-Chloropropane)	108-60-1	NL	NL	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	<0.19 U	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	<0.19 U	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	<0.19 U	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
2,4-Dichlorophenol	120-83-2	NL	NL	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	<0.19 U	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
2,4-Dimethylphenol	105-67-9	NL	NL	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	<0.19 U	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
2,4-Dinitrophenol	51-28-5	NL	NL	<0.37 U	<0.37 U	<0.45 U	<0.35 U	<0.48 U	<0.36 U	<0.37 U	<0.36 U	<0.44 U	<0.45 U	<0.47 U	<0.41 U
2,4-Dinitrotoluene	121-14-2	NL	NL	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	<0.19 U	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
2,6-Dinitrotoluene	606-20-2	NL	NL	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	<0.19 U	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
2-Chloronaphthalene	91-58-7	NL	NL	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	<0.19 U	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
2-Chlorophenol	95-57-8	NL	NL	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	<0.19 U	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
2-Methylphenol	95-48-7	0.33	500	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	<0.19 U	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
2-Nitroaniline	88-74-4	NL	NL	<0.37 U	<0.37 U	<0.45 U	<0.35 U	<0.48 U	<0.36 U	<0.37 U	<0.36 U	<0.44 U	<0.45 U	<0.47 U	<0.41 U
2-Nitrophenol	88-75-5	NL	NL	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	<0.19 U	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	<0.19 U	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
3-Nitroaniline	99-09-2	NL	NL	<0.37 U	<0.37 U	<0.45 U	<0.35 U	<0.48 U	<0.36 U	<0.37 U	<0.36 U	<0.44 U	<0.45 U	<0.47 U	<0.41 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	<0.37 U	<0.37 U	<0.45 U	<0.35 U	<0.48 U	<0.36 U	<0.37 U	<0.36 U	<0.44 U	<0.45 U	<0.47 U	<0.41 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	<0.19 U	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	<0.19 U	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
4-Chloroaniline	106-47-8	NL	NL	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	<0.19 U	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	<0.19 U	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
4-Methylphenol	106-44-5	0.33	500	<0.37 U	<0.37 U	<0.45 U	<0.35 U	<0.48 U	<0.36 U	<0.37 U	<0.36 U	<0.44 U	<0.45 U	<0.47 U	<0.41 U
4-Nitroaniline	100-01-6	NL	NL	<0.37 U	<0.37 U	<0.45 U	<0.35 U	<0.48 U	<0.36 U	<0.37 U	<0.36 U	<0.44 U	<0.45 U	<0.47 U	<0.41 U
4-Nitrophenol	100-02-7	NL	NL	<0.37 U	<0.37 U	<0.45 U	<0.35 U	<0.48 U	<0.36 U	<0.37 U	<0.36 U	<0.44 U	<0.45 U	<0.47 U	<0.41 U
Acetophenone	98-86-2	NL	NL	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	<0.19 U	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
Atrazine	1912-24-9	NL	NL	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	<0.19 U	<0.18 U	<0.23 U	<0.23 U	<0.24 U	<0.21 U
Benzaldehyde	100-52-7	NL	NL	<0.19 U	<0.19 U	<0.23 U	<0.18 U	<0.25 U	<0.19 U	<0.19 U	<0.18 U	<0.23 U	<0.2		

Table 7
Subsurface Soil SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TB-96 7/7/2010 TB960(12-14)070710 12-14	TB-98 6/25/2010 TB98(12-13)062510 12-13	TB-99 6/25/2010 TB99(12-13)062510 12-13	TB-100 7/2/2010 TB100(18-20)070210 18-20	TB-101 7/8/2010 TB101(28-31)070810 28-31	RTB-02 10/13/2009 RTB2(3.5-4.5)101309 3.5-4.5	RTB-03 10/13/2009 RTB3(6.5-7.5)101309 6.5-7.5	RTB-04 10/14/2009 RTB4(4.5-5.5)101309 4.5-5.5	RTB-05 10/14/2009 RTB5(2-4)101409 2-4	RTB-08 10/14/2009 RTB8(6-7)101509 6-7	RTB-09 10/14/2009 RTB9(1.5-3)101409 1.5-3	RTB-09 10/14/2009 RTB9(7-9)101409 7-9
PAH (mg/Kg)															
2-Methylnaphthalene	91-57-6			<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	20	0.098 J
Acenaphthene	83-32-9	20	500	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.048 J		<0.22 U	24	0.016 J
Acenaphthylene	208-96-8	100	500	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	3	<0.21 U
Anthracene	120-12-7	100	500	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	0.013 J	<0.22 U	18	<0.21 U
Benzo(a)anthracene	56-55-3	1	5.6	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	0.012 J	<0.2 U	0.014 J	<0.22 U	8.4	<0.21 U
Benzo(a)pyrene	50-32-8	1	1	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	0.016 J	<0.2 U	0.011 J	<0.22 U	7.7	<0.21 U
Benzo(b)fluoranthene	205-99-2	1	5.6	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	0.014 J	<0.2 U	<0.21 U	<0.22 U	5.6	<0.21 U
Benzo(ghi)perylene	191-24-2	100	500	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	0.022 J	<0.2 U	<0.21 U	<0.22 U	4	<0.21 U
Benzo(k)fluoranthene	207-08-9	0.8	56	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	1.8 J	<0.21 U
Chrysene	218-01-9	1	56	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	0.0081 J	<0.2 U	0.012 J	<0.22 U	7.7	<0.21 U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.56	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	0.66 J	<0.21 U
Fluoranthene	206-44-0	100	500	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	0.029 J	<0.22 U	20	<0.21 U
Fluorene	86-73-7	30	500	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	14	<0.21 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	0.011 J	<0.2 U	<0.21 U	<0.22 U	2.8	<0.21 U
Naphthalene	91-20-3	12	500	<0.21 U	<0.2 U	<0.23 U	<0.2 U	0.0091 J	<0.2 U	<0.2 U	<0.2 U	0.052 J	0.15 J	9.3	0.29
Phenanthrene	85-01-8	100	500	<0.21 U	<0.2 U	<0.23 U	0.01 J	0.0095 J	<0.2 U	<0.2 U	0.017 J	0.11 J	<0.22 U	54	<0.21 U
Pyrene	129-00-0	100	500	<0.21 U	<0.2 U	<0.23 U	0.0081 J	<0.18 U	<0.2 U	<0.2 U	<0.2 U	0.043 J	<0.22 U	27	<0.21 U
Total PAH		NL	NL	ND	ND	ND	0.0181	0.0186	ND	0.0831	0.017	0.332	0.15	227.96	0.404
SVOC (mg/Kg)															
1,1'-Biphenyl	92-52-4	NL	NL	<0.21 UJ	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	0.013 J	<0.22 U	4.5	0.019 J
2,2'-Oxybis(1-Chloropropane)	108-60-1	NL	NL	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	<1.9 U	<0.21 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	<1.9 U	<0.21 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	<1.9 U	<0.21 U
2,4-Dichlorophenol	120-83-2	NL	NL	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	<1.9 U	<0.21 U
2,4-Dimethylphenol	105-67-9	NL	NL	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	<1.9 U	<0.21 U
2,4-Dinitrophenol	51-28-5	NL	NL	<0.42 U	<0.4 U	<0.45 U	<0.38 U	<0.35 U	<0.38 U	<0.38 U	<0.4 U	<0.4 U	<0.43 U	<3.7 U	<0.41 U
2,4-Dinitrotoluene	121-14-2	NL	NL	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	<1.9 U	<0.21 U
2,6-Dinitrotoluene	606-20-2	NL	NL	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	<1.9 U	<0.21 U
2-Chloronaphthalene	91-58-7	NL	NL	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	<1.9 U	<0.21 U
2-Chlorophenol	95-57-8	NL	NL	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	<1.9 U	<0.21 U
2-Methylphenol	95-48-7	0.33	500	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	<1.9 U	<0.21 U
2-Nitroaniline	88-74-4	NL	NL	<0.42 U	<0.4 U	<0.45 U	<0.38 U	<0.35 U	<0.38 U	<0.38 U	<0.4 U	<0.4 U	<0.43 U	<3.7 U	<0.41 U
2-Nitrophenol	88-75-5	NL	NL	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	<1.9 U	<0.21 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	<1.9 U	<0.21 U
3-Nitroaniline	99-09-2	NL	NL	<0.42 U	<0.4 U	<0.45 U	<0.38 U	<0.35 U	<0.38 U	<0.38 U	<0.4 U	<0.4 U	<0.43 U	<3.7 U	<0.41 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	<0.42 U	<0.4 U	<0.45 U	<0.38 U	<0.35 U	<0.38 U	<0.38 U	<0.4 U	<0.4 U	<0.43 U	<3.7 U	<0.41 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	<1.9 U	<0.21 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	<1.9 U	<0.21 U
4-Chloroaniline	106-47-8	NL	NL	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	<1.9 U	<0.21 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	<1.9 U	<0.21 U
4-Methylphenol	106-44-5	0.33	500	<0.42 U	<0.4 U	<0.45 U	<0.38 U	<0.35 U	<0.38 U	<0.38 U	<0.4 U	<0.4 U	<0.43 U	<3.7 U	<0.41 U
4-Nitroaniline	100-01-6	NL	NL	<0.42 U	<0.4 U	<0.45 U	<0.38 U	<0.35 U	<0.38 U	<0.38 U	<0.4 U	<0.4 U	<0.43 U	<3.7 U	<0.41 U
4-Nitrophenol	100-02-7	NL	NL	<0.42 U	<0.4 U	<0.45 U	<0.38 U	<0.35 U	<0.38 U	<0.38 U	<0.4 U	<0.4 U	<0.43 U	<3.7 U	<0.41 U
Acetophenone	98-86-2	NL	NL	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	<1.9 U	<0.21 U
Atrazine	1912-24-9	NL	NL	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	<1.9 U	<0.21 U
Benzaldehyde	100-52-7	NL	NL	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	<1.9 U	<0.21 U
Bis(2-chloroethoxy) methane	111-91-1	NL	NL	<0.21 U	<0.2 U	<0.23 U	<0.2 U	<0.18 U	<0.2 U	<0.2 U	<0.2 U	<0.21 U	<0.22 U	<1.9 U	<0.21 U

Table 7
Subsurface Soil SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	RTB-11 10/14/2009 RTB11(5-6)101409 5-6	RTB-14 10/16/2009 RTB14(4-5)101609 4-5	RTB-15 10/16/2009 RTB15(6-7)101609 6-7	RTB-16 10/19/2009 RTB16(4-5)101909 4-5	RTB-17 10/19/2009 RTB17(4-5)101909 4-5	RTB-18 10/19/2009 RTB18(4-5)101909 4-5	RTB-19 10/19/2009 RTB19(6-7)101909 6-7	MW-01B 11/19/2008 MW-1B(24-26)111908 24-26	MW-02B 11/12/2008 MW2B(11-13)111208 11-13	MW-02B 11/12/2008 MW2B(18-20)111208 18-20	MW-03B 11/20/2008 MW-3B(10-12)112008 10-12	MW-03B 11/20/2008 MW-3B(22-24)112008 22-24
PAH (mg/Kg)															
2-Methylnaphthalene	91-57-6			3.4	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.096 U	<1.9 U	<0.22 U	0.26 J	<0.1 U
Acenaphthene	83-32-9	20	500	14	<0.19 U	<0.21 U	<0.2 U	0.026 J	<0.18 U	<0.19 U	<0.096 U	<1.9 U	<0.22 U	8.4	<0.1 U
Acenaphthylene	208-96-8	100	500	2.6	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.096 U	<1.9 U	<0.22 U	6.6	<0.1 U
Anthracene	120-12-7	100	500	21	<0.19 U	<0.21 U	<0.2 U	0.052 J	<0.18 U	<0.19 U	<0.096 U	<1.9 U	<0.22 U	6.1	<0.1 U
Benzo(a)anthracene	56-55-3	1	5.6	8.1	<0.19 U	<0.21 U	<0.2 U	0.076 J	<0.18 U	<0.19 U	<0.096 U	<1.9 U	<0.22 U	6.7	<0.1 U
Benzo(a)pyrene	50-32-8	1	1	7.3	<0.19 U	<0.21 U	<0.2 U	0.053 J	<0.18 U	<0.19 U	<0.096 U	0.32 J	<0.22 U	8.7	<0.1 U
Benzo(b)fluoranthene	205-99-2	1	5.6	4.5	<0.19 U	<0.21 U	<0.2 U	0.058 J	<0.18 U	<0.19 U	<0.096 U	0.22 J	<0.22 U	7.2	<0.1 U
Benzo(ghi)perylene	191-24-2	100	500	3.8	<0.19 U	<0.21 U	<0.2 U	0.028 J	<0.18 U	<0.19 U	<0.096 U	0.2 J	<0.22 U	12	<0.1 U
Benzo(k)fluoranthene	207-08-9	0.8	56	2.4	<0.19 U	<0.21 U	<0.2 U	0.026 J	<0.18 U	<0.19 U	<0.096 UJ	0.076 J	<0.22 U	<0.37 U	<0.1 U
Chrysene	218-01-9	1	56	7.6	<0.19 U	<0.21 U	<0.2 U	0.057 J	<0.18 U	<0.19 U	<0.096 U	<1.9 U	<0.22 U	6.4	<0.1 U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.56	0.67 J	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.096 U	<1.9 U	<0.22 U	1.4	<0.1 U
Fluoranthene	206-44-0	100	500	20	<0.19 U	<0.21 U	<0.2 U	0.15 J	<0.18 U	0.0090 J	<0.096 U	<1.9 U	<0.22 U	13	<0.1 U
Fluorene	86-73-7	30	500	11	<0.19 U	<0.21 U	<0.2 U	0.032 J	<0.18 U	<0.19 U	<0.096 U	<1.9 U	<0.22 U	5	<0.1 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	2.6	<0.19 U	<0.21 U	<0.2 U	0.021 J	<0.18 U	<0.19 U	<0.096 U	0.13 J	<0.22 U	7.1	<0.1 U
Naphthalene	91-20-3	12	500	1.6 J	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.096 U	<1.9 U	0.013 J	0.27 J	<0.1 U
Phenanthrene	85-01-8	100	500	51	0.0097 J	<0.21 U	<0.2 U	0.19 J	<0.18 U	0.011 J	<0.096 U	<1.9 U	<0.22 U	14	0.02 J
Pyrene	129-00-0	100	500	28	<0.19 U	<0.21 U	<0.2 U	0.12 J	<0.18 U	0.0090 J	<0.096 U	0.3 J	<0.22 U	15	<0.1 U
Total PAH		NL	NL	189.57	0.0097	ND	ND	0.889	ND	0.029	ND	1.246	0.013	118.13	0.02
SVOC (mg/Kg)															
1,1'-Biphenyl	92-52-4	NL	NL	2.6	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	0.68 J	<0.5 U
2,2'-Oxybis(1-Chloropropane)	108-60-1	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.096 UJ	<1.9 U	<0.22 U	<0.37 U	<0.1 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
2,4-Dichlorophenol	120-83-2	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.096 U	<1.9 U	<0.22 U	<0.37 U	<0.1 U
2,4-Dimethylphenol	105-67-9	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 UJ	<1.9 U	<0.22 U	<1.8 U	<0.5 U
2,4-Dinitrophenol	51-28-5	NL	NL	<4.2 U	<0.37 U	<0.4 U	<0.38 U	<0.4 U	<0.36 U	<0.37 U	<2.4 UJ	<3.8 U	<0.42 U	<9.4 U	<2.6 U
2,4-Dinitrotoluene	121-14-2	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
2,6-Dinitrotoluene	606-20-2	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
2-Chloronaphthalene	91-58-7	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.096 U	<1.9 U	<0.22 U	<0.37 U	<0.1 U
2-Chlorophenol	95-57-8	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
2-Methylphenol	95-48-7	0.33	500	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
2-Nitroaniline	88-74-4	NL	NL	<4.2 U	<0.37 U	<0.4 U	<0.38 U	<0.4 U	<0.36 U	<0.37 U	<2.4 U	<3.8 U	<0.42 U	<9.4 U	<2.6 U
2-Nitrophenol	88-75-5	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 UJ	<1.9 U	<0.22 U	<1.8 U	<0.5 U
3-Nitroaniline	99-09-2	NL	NL	<4.2 U	<0.37 U	<0.4 U	<0.38 U	<0.4 U	<0.36 U	<0.37 U	<2.4 U	<3.8 U	<0.42 U	<9.4 U	<2.6 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	<4.2 U	<0.37 U	<0.4 U	<0.38 U	<0.4 U	<0.36 U	<0.37 U	<2.4 UJ	<3.8 U	<0.42 U	<9.4 U	<2.6 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
4-Chloroaniline	106-47-8	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
4-Methylphenol	106-44-5	0.33	500	<4.2 U	<0.37 U	<0.4 U	<0.38 U	<0.4 U	<0.36 U	<0.37 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
4-Nitroaniline	100-01-6	NL	NL	<4.2 U	<0.37 U	<0.4 U	<0.38 U	<0.4 U	<0.36 U	<0.37 U	<2.4 U	<3.8 U	<0.42 U	<9.4 U	<2.6 U
4-Nitrophenol	100-02-7	NL	NL	<4.2 U	<0.37 U	<0.4 U	<0.38 U	<0.4 U	<0.36 U	<0.37 U	<2.4 U	<3.8 U	<0.42 U	<9.4 U	<2.6 U
Acetophenone	98-86-2	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
Atrazine	1912-24-9	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 UJ	<1.9 U	<0.22 U	<1.8 U	<0.5 U
Benzaldehyde	100-52-7	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 UJ	<1.9 U	<0.22 U	<1.8 U	<0.5 U
Bis(2-chloroethoxy) methane	111-91-1	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
Bis(2-chloroethyl) ether	111-44-4	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.096 U	<1.9 U	<0.22 U	<0.37 U	<0.1 U
Bis(2-ethylhexyl) phthalate	117-81-7	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	0.76 J	0.07 J
Butyl benzyl phthalate	85-68-7	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
Caprolactam	105-60-2	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<2.4 U	<1.9 U	<0.22 U	<9.4 U	<2.6 U
Carbazole	86-74-8	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	0.02 J	<0.18 U	<0.19 U	<0.096 U	<1.9 U	<0.22 U	<0.37 U	<0.1 U
Dibenzofuran	132-64-9	7	350	<2.2 U	<0.19 U	<0.21 U	<0.2 U	0.023 J	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
Diethyl phthalate	84-66-2	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
Dimethyl phthalate	131-11-3	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
Di-n-butyl phthalate	84-74-2	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
Di-n-octyl phthalate	117-84-0	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
Hexachlorobenzene	118-74-1	0.33	6	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.096 U	<1.9 U	<0.22 U	<0.37 U	<0.1 U
Hexachlorobutadiene	87-68-3	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.096 UJ	<1.9 U	<0.22 U	<0.37 U	<0.1 U
Hexachlorocyclopentadiene	77-47-4	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 UJ	<1.9 U	<0.22 U	<1.8 U	<0.5 U
Hexachloroethane	67-72-1	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
Isophorone	78-59-1	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.47 U	<1.9 U	<0.22 U	<1.8 U	<0.5 U
Nitrobenzene	98-95-3	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.096 U	<1.9 U	<0.22 U	<0.37 U	<0.1 U
N-Nitroso-Di-n-propylamine	621-64-7	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.096 U	<1.9 U	<0.22 U	<0.37 U	<0.1 U
N-nitrosodiphenylamine	86-30-6	NL	NL	<2.2 U	<0.19 U	<0.21 U	<0.2 U	<0.21 U	<0.18 U	<0.19 U	<0.096 U	<1.9 U	<0.22 U	<0.37 U	<0.1 U

Table 7
Subsurface Soil SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	MW-05B 11/12/2008 MW5B(7-9)111208 7-9	MW-05B 11/12/2008 MW5B(12-15)111208 12-15	MW-06B 11/12/2008 MW-6B(12-14)111708 12-14	MW-06B 11/12/2008 MW-6B(28-30)111708 28-30	MW-07B/TB-24 11/12/2008 TB24(9-12)111208 9-12	MW-07B/TB-24 11/12/2008 TB24(24-26)111208 24-26	MW-08D 11/21/2008 MW8D(8-10)112108 8-10	MW-09B 11/23/2008 MW9B(14-16)112308 14-16	MW-10D 12/11/2008 MW10D(10-12)121108 10-12	MW-10D 12/11/2008 MW10D(40-42)121108 40-42	MW-11B 8/3/2009 MW11B(17.5-19)080309 17.5-19	MW-13B 8/6/2009 MW13B(14-16)080609 14-16
PAH (mg/Kg)															
2-Methylnaphthalene	91-57-6			54	0.045 J	0.29 J	<0.093 U	0.38	<0.22 U	<0.078 U	<0.09 U	0.011 J	<0.19 U	<1 U	<0.19 U
Acenaphthene	83-32-9	20	500	45	0.1 J	36	0.35	0.7	<0.22 U	<0.078 U	<0.09 U	0.21 J	<0.19 U	<1 U	<0.19 U
Acenaphthylene	208-96-8	100	500	5.3	0.05 J	9.1	0.045 J	0.1 J	<0.22 U	<0.078 U	<0.09 U	0.018 J	<0.19 U	0.18 J	<0.19 U
Anthracene	120-12-7	100	500	21	0.068 J	38	0.24	0.62	<0.22 U	<0.078 U	<0.09 U	0.14 J	<0.19 U	0.079 J	<0.19 U
Benzo(a)anthracene	56-55-3	1	5.6	10	0.06 J	24	0.17	0.33	<0.22 U	<0.078 U	<0.09 U	<0.22 U	<0.19 U	0.5 J	<0.19 U
Benzo(a)pyrene	50-32-8	1	1	10	0.11 J	19	0.11	0.33	<0.22 U	<0.078 U	<0.09 U	<0.22 U	<0.19 U	0.57 J	<0.19 U
Benzo(b)fluoranthene	205-99-2	1	5.6	7.8	0.1 J	16	0.11	0.22 J	<0.22 U	<0.078 U	<0.09 U	<0.22 U	<0.19 U	0.87 J	<0.19 U
Benzo(ghi)perylene	191-24-2	100	500	5	0.083 J	10	<0.093 U	0.24	<0.22 U	<0.078 U	<0.09 U	<0.22 U	<0.19 U	0.31 J	<0.19 U
Benzo(k)fluoranthene	207-08-9	0.8	56	2 J	0.027 J	<0.36 UJ	<0.093 UJ	0.077 J	<0.22 U	<0.078 U	<0.09 U	<0.22 U	<0.19 U	0.28 J	<0.19 U
Chrysene	218-01-9	1	56	9.8	0.075 J	21	0.14	0.31	<0.22 U	<0.078 U	<0.09 U	<0.22 U	<0.19 U	0.54 J	<0.19 U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.56	1.2 J	0.014 J	1.8	<0.093 U	0.035 J	<0.22 U	<0.078 U	<0.09 U	<0.22 U	<0.19 U	<1 U	<0.19 U
Fluoranthene	206-44-0	100	500	26	0.12 J	44	0.32	0.76	<0.22 U	0.014 J	<0.09 U	0.11 J	<0.19 U	0.82 J	<0.19 U
Fluorene	86-73-7	30	500	26	0.06 J	24	0.22	0.39	<0.22 U	<0.078 U	<0.09 U	0.039 J	<0.19 U	<1 U	<0.19 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	3.8	0.058 J	7	<0.093 U	0.15 J	<0.22 U	<0.078 U	<0.09 U	<0.22 U	<0.19 U	0.32 J	<0.19 U
Naphthalene	91-20-3	12	500	42	0.047 J	1.4	<0.093 U	0.79	<0.22 U	<0.078 U	<0.09 U	0.15 J	<0.19 U	<1 U	<0.19 U
Phenanthrene	85-01-8	100	500	83	0.27	120	0.98	1.8	0.01 J	0.015 J	<0.09 U	0.49	0.021 J	0.34 J	<0.19 U
Pyrene	129-00-0	100	500	33	0.2 J	62	0.53	1	<0.22 U	<0.078 U	<0.09 U	0.15 J	0.012 J	0.73 J	<0.19 U
Total PAH		NL	NL	384.9	1.487	433.59	3.215	8.232	0.01	0.029	ND	1.318	0.033	5.539	ND
SVOC (mg/Kg)															
1,1'-Biphenyl	92-52-4	NL	NL	8.7	0.02 J	3.8	<0.46 U	0.14 J	<0.22 U	<0.38 U	<0.44 U	0.064 J	<0.19 U	<1 UJ	<0.19 U
2,2'-Oxybis(1-Chloropropane)	108-60-1	NL	NL	<2.2 U	<0.23 U	<0.36 UJ	<0.093 UJ	<0.24 U	<0.22 U	<0.078 U	<0.09 U	<0.22 U	<0.19 U	<1 U	<0.19 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	<2.2 U	<0.23 U	<1.8 U	<0.46 U	<0.24 U	<0.22 U	<0.38 U	<0.44 U	<0.22 U	<0.19 U	<1 U	<0.19 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	<2.2 U	<0.23 U	<1.8 U	<0.46 U	<0.24 U	<0.22 U	<0.38 U	<0.44 U	<0.22 U	<0.19 U	<1 U	<0.19 U
2,4-Dichlorophenol	120-83-2	NL	NL	<2.2 U	<0.23 U	<0.36 U	<0.093 U	<0.24 U	<0.22 U	<0.078 U	<0.09 U	<0.22 U	<0.19 U	<1 U	<0.19 U
2,4-Dimethylphenol	105-67-9	NL	NL	<2.2 U	<0.23 U	<1.8 UJ	<0.46 UJ	<0.24 U	<0.22 U	<0.38 U	<0.44 U	<0.22 U	<0.19 U	<1 U	<0.19 U
2,4-Dinitrophenol	51-28-5	NL	NL	<4.4 U	<0.45 U	<9.1 UJ	<2.4 UJ	<0.48 U	<0.43 U	<2 U	<2.3 U	<0.42 U	<0.37 U	<2 U	<0.37 U
2,4-Dinitrotoluene	121-14-2	NL	NL	<2.2 U	<0.23 U	<1.8 U	<0.46 U	<0.24 U	<0.22 U	<0.38 U	<0.44 U	<0.22 U	<0.19 U	<1 U	<0.19 U
2,6-Dinitrotoluene	606-20-2	NL	NL	<2.2 U	<0.23 U	<1.8 U	<0.46 U	<0.24 U	<0.22 U	<0.38 U	<0.44 U	<0.22 U	<0.19 U	<1 U	<0.19 U
2-Chloronaphthalene	91-58-7	NL	NL	<2.2 U	<0.23 U	<0.36 U	<0.093 U	<0.24 U	<0.22 U	<0.078 U	<0.09 U	<0.22 U	<0.19 U	<1 U	<0.19 U
2-Chlorophenol	95-57-8	NL	NL	<2.2 U	<0.23 U	<1.8 U	<0.46 U	<0.24 U	<0.22 U	<0.38 U	<0.44 U	<0.22 U	<0.19 U	<1 U	<0.19 U
2-Methylphenol	95-48-7	0.33	500	<2.2 U	<0.23 U	<1.8 U	<0.46 U	<0.24 U	<0.22 U	<0.38 U	<0.44 U	<0.22 U	<0.19 U	<1 U	<0.19 U
2-Nitroaniline	88-74-4	NL	NL	<4.4 U	<0.45 U	<9.1 U	<2.4 U	<0.48 U	<0.43 U	<2 U	<2.3 U	<0.42 U	<0.37 U	<2 U	<0.37 U
2-Nitrophenol	88-75-5	NL	NL	<2.2 U	<0.23 U	<1.8 U	<0.46 U	<0.24 U	<0.22 U	<0.38 U	<0.44 U	<0.22 U	<0.19 U	<1 U	<0.19 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	<2.2 U	<0.23 U	<1.8 UJ	<0.46 UJ	<0.24 U	<0.22 U	<0.38 U	<0.44 U	<0.22 U	<0.19 U	<1 U	<0.19 U
3-Nitroaniline	99-09-2	NL	NL	<4.4 U	<0.45 U	<9.1 U	<2.4 U	<0.48 U	<0.43 U	<2 U	<2.3 U	<0.42 U	<0.37 U	<2 U	<0.37 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	<4.4 U	<0.45 U	<9.1 UJ	<2.4 UJ	<0.48 U	<0.43 U	<2 U	<2.3 U	<0.42 U	<0.37 U	<2 U	<0.37 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	<2.2 U	<0.23 U	<1.8 U	<0.46 U	<0.24 U	<0.22 U	<0.38 U	<0.44 U	<0.22 U	<0.19 U	<1 U	<0.19 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	<2.2 U	<0.23 U	<1.8 U	<0.46 U	<0.24 U	<0.22 U	<0.38 U	<0.44 U	<0.22 U	<0.19 U	<1 U	<0.19 U
4-Chloroaniline	106-47-8	NL	NL	12	<0.23 U	<1.8 U	<0.46 U	<0.24 U	<0.22 U	<0.38 U	<0.44 U	<0.22 U	<0.19 U	<1 U	<0.19 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	<2.2 U	<0.23 U	<1.8 U	<0.46 U	<0.24 U	<0.22 U	<0.38 U	<0.44 U	<0.22 U	<0.19 U	<1 U	<0.19 U
4-Methylphenol	106-44-5	0.33	500	<2.2 U	<0.23 U	<1.8 U	<0.46 U	<0.24 U	<0.22 U	<0.38 U	<0.44 U	<0.22 U	<0.19 U	<2 U	<0.37 U
4-Nitroaniline	100-01-6	NL	NL	<4.4 U	<0.45 U	<9.1 U	<2.4 U	<0.48 U	<0.43 U	<2 U	<2.3 U	<0.42 U	<0.37 U	<2 U	<0.37 U
4-Nitrophenol	100-02-7	NL	NL	<4.4 U	<0.45 U	<9.1 U	<2.4 UJ	<0.48 U	<0.43 U	<2 U	<2.3 U	<0.42 U	<0.37 U	<2 U	<0.37 U
Acetophenone	98-86-2	NL	NL	<2.2 U	<0.23 U	<1.8 U	<0.46 U	<0.24 U	<0.22 U	<0.38 U	<0.44 U	<0.22 U	<0.19 U	<1 UJ	<0.19 U
Atrazine	1912-24-9	NL	NL	<2.2 U	<0.23 U	<1.8 UJ	<0.46 UJ	<0.24 U	<0.22 U	<0.38 U	<0.44 U	<0.22 U	<0.19 U	<1 U	<0.19 UJ
Benzaldehyde	100-52-7	NL	NL	<2.2 U	<0.23 U	<1.8 UJ	<0.46 UJ	<0.24 U	<0.22 U	<0.38 U	<0.44 U	<0.22 U	<0.19 U	<1 U	<0.19 R
Bis(2-chloroethoxy) methane	111-91-1	NL	NL	<2.2 U	<0.23 U	<1.8 U	<0.46 U	<0.24 U	<0.22 U	<0.38 U	<0.44 U	<0.22 U	<0.19 U	<1 UJ	<0.19 U
Bis(2-chloroethyl) ether	111-44-4	NL	NL	<2.2 U	<0.23 U	<0.36 U	<0.093 U	<0							

Table 7
Subsurface Soil SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	MW-13B 8/6/2009 MW13B(34-36)080609 34-36	MW-14B/TB-25 11/13/2008 TB25(8-10)111308 8-10	MW-14B/TB-25 12/18/2008 TB25(14-16)111308 14-16	MW-15D 6/29/2010 MW15D(60-62.8)062910 60-62.8	MW-15S/TB-37 12/18/2008 TB-37(10-12)121808 10-12	MW-15S/TB-37 12/18/2008 TB-37(12-14)121808 12-14	MW-16S/TB-41 12/18/2008 TB-41(8-10)121808 8-10	MW-16S/TB-41 12/18/2008 TB-41(12-14)121808 12-14	MW-17S 7/28/2009 MW17S(10-12)072709 10-12	MW-19B 7/28/2009 MW19B(11-12)072809 11-12	MW-19B 7/28/2009 MW19B(13-14)072809 13-14	MW-20B 8/3/2009 MW20B(12-13)080309 12-13
PAH (mg/Kg)															
2-Methylnaphthalene	91-57-6			<0.19 U	1.2 J	0.024 J	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	<0.17 U	<0.17 U	<0.2 U
Acenaphthene	83-32-9	20	500	<0.19 U	3.9	0.066 J	<0.17 U	0.013 J	0.012 J	<0.2 U	<0.21 U	<0.17 U	43	<0.17 U	<0.2 U
Acenaphthylene	208-96-8	100	500	<0.19 U	1.4 J	0.013 J	<0.17 U	0.026 J	<0.2 U	<0.2 U	<0.21 U	<0.17 U	10	<0.17 U	<0.2 U
Anthracene	120-12-7	100	500	<0.19 U	4.7	0.073 J	<0.17 U	0.025 J	<0.2 U	<0.2 U	<0.21 U	<0.17 U	53	<0.17 U	<0.2 U
Benzo(a)anthracene	56-55-3	1	5.6	<0.19 U	2.8	0.039 J	<0.17 U	0.056 J	<0.2 U	<0.2 U	<0.21 U	<0.17 U	30	<0.17 U	0.012 J
Benzo(a)pyrene	50-32-8	1	1	<0.19 U	2.4 J	0.016 J	<0.17 U	0.1 J	<0.2 U	<0.2 U	<0.21 U	<0.17 U	30	<0.17 U	<0.2 U
Benzo(b)fluoranthene	205-99-2	1	5.6	<0.19 U	2.4	0.023 J	<0.17 U	0.088 J	<0.2 U	<0.2 U	<0.21 U	<0.17 U	21	<0.17 U	<0.2 U
Benzo(ghi)perylene	191-24-2	100	500	<0.19 U	1.3 J	0.013 J	<0.17 U	0.076 J	<0.2 U	<0.2 U	<0.21 U	<0.17 U	16	<0.17 U	<0.2 U
Benzo(k)fluoranthene	207-08-9	0.8	56	<0.19 U	<1.9 U	0.01 J	<0.17 U	0.022 J	<0.2 U	<0.2 U	<0.21 U	<0.17 U	6.6 J	<0.17 U	<0.2 U
Chrysene	218-01-9	1	56	<0.19 U	2.7	0.032 J	<0.17 U	0.05 J	<0.2 U	<0.2 U	<0.21 U	<0.17 U	26	<0.17 U	<0.2 U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.56	<0.19 U	0.22 J	<0.22 U	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	3.2 J	<0.17 U	<0.2 U
Fluoranthene	206-44-0	100	500	<0.19 U	6.4	0.084 J	<0.17 U	0.088 J	<0.2 U	<0.2 U	<0.21 U	<0.17 U	67	<0.17 U	<0.2 U
Fluorene	86-73-7	30	500	<0.19 U	3.7	0.048 J	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	31	<0.17 U	<0.2 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	<0.19 U	0.94 J	<0.22 U	<0.17 U	0.054 J	0.009 J	<0.2 U	<0.21 U	<0.17 U	11	<0.17 U	<0.2 U
Naphthalene	91-20-3	12	500	<0.19 U	0.086 J	0.03 J	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	11	<0.17 U	<0.2 U
Phenanthrene	85-01-8	100	500	<0.19 U	15	0.24	<0.17 U	0.096 J	0.048 J	<0.2 U	<0.21 U	<0.17 U	150	<0.17 U	<0.2 U
Pyrene	129-00-0	100	500	<0.19 U	8.4	0.11 J	<0.17 U	0.085 J	<0.2 U	<0.2 U	<0.21 U	<0.17 U	92	<0.17 U	<0.2 U
Total PAH		NL	NL	ND	57.546	0.821	ND	0.779	0.069	ND	ND	ND	600.8	ND	0.012
SVOC (mg/Kg)															
1,1'-Biphenyl	92-52-4	NL	NL	<0.19 U	0.66 J	0.016 J	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	8.2 J	<0.17 U	<0.2 UJ
2,2'-Oxybis(1-Chloropropane)	108-60-1	NL	NL	<0.19 U	<1.9 U	<0.22 U	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	<0.17 U	<0.17 U	<0.2 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	<0.19 U	<1.9 U	<0.22 U	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	<0.17 U	<0.17 U	<0.2 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	<0.19 U	<1.9 U	<0.22 U	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	<0.17 U	<0.17 U	<0.2 U
2,4-Dichlorophenol	120-83-2	NL	NL	<0.19 U	<1.9 U	<0.22 U	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	<0.17 U	<0.17 U	<0.2 U
2,4-Dimethylphenol	105-67-9	NL	NL	<0.19 U	<1.9 U	<0.22 U	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	<0.17 U	<0.17 U	<0.2 U
2,4-Dinitrophenol	51-28-5	NL	NL	<0.37 U	<3.6 UJ	<0.44 UJ	<0.33 U	<0.36 U	<0.4 U	<0.39 U	<0.42 U	<0.33 U	<0.33 U	<0.33 U	<0.38 U
2,4-Dinitrotoluene	121-14-2	NL	NL	<0.19 U	<1.9 U	<0.22 U	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	<0.17 U	<0.17 U	<0.2 U
2,6-Dinitrotoluene	606-20-2	NL	NL	<0.19 U	<1.9 U	<0.22 U	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	<0.17 U	<0.17 U	<0.2 U
2-Chloronaphthalene	91-58-7	NL	NL	<0.19 U	<1.9 U	<0.22 U	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	<0.17 U	<0.17 U	<0.2 U
2-Chlorophenol	95-57-8	NL	NL	<0.19 U	<1.9 U	<0.22 U	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	<0.17 U	<0.17 U	<0.2 U
2-Methylphenol	95-48-7	0.33	500	<0.19 U	<1.9 U	<0.22 U	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	<0.17 U	<0.17 U	<0.2 U
2-Nitroaniline	88-74-4	NL	NL	<0.37 U	<3.6 U	<0.44 U	<0.33 U	<0.36 U	<0.4 U	<0.39 U	<0.42 U	<0.33 U	<0.33 U	<0.33 U	<0.38 U
2-Nitrophenol	88-75-5	NL	NL	<0.19 U	<1.9 U	<0.22 U	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	<0.17 U	<0.17 U	<0.2 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	<0.19 U	<1.9 UJ	<0.22 UJ	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	<0.17 U	<0.17 U	<0.2 U
3-Nitroaniline	99-09-2	NL	NL	<0.37 U	<3.6 U	<0.44 U	<0.33 U	<0.36 U	<0.4 U	<0.39 U	<0.42 U	<0.33 U	<0.33 U	<0.33 U	<0.38 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	<0.37 U	<3.6 U	<0.44 U	<0.33 U	<0.36 U	<0.4 U	<0.39 U	<0.42 U	<0.33 U	<0.33 U	<0.33 U	<0.38 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	<0.19 U	<1.9 U	<0.22 U	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	<0.17 U	<0.17 U	<0.2 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	<0.19 U	<1.9 U	<0.22 U	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	<0.17 U	<0.17 U	<0.2 U
4-Chloroaniline	106-47-8	NL	NL	<0.19 U	<1.9 U	<0.22 U	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	<0.17 U	<0.17 U	<0.2 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	<0.19 U	<1.9 U	<0.22 U	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	<0.17 U	<0.17 U	<0.2 U
4-Methylphenol	106-44-5	0.33	500	<0.37 U	<1.9 U	<0.22 U	<0.33 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.33 U	<0.33 U	<0.33 U	<0.38 U
4-Nitroaniline	100-01-6	NL	NL	<0.37 U	<3.6 U	<0.44 U	<0.33 U	<0.36 U	<0.4 U	<0.39 U	<0.42 U	<0.33 U	<0.33 U	<0.33 U	<0.38 U
4-Nitrophenol	100-02-7	NL	NL	<0.37 U	<3.6 U	<0.44 U	<0.33 U	<0.36 U	<0.4 U	<0.39 U	<0.42 U	<0.33 U	<0.33 U	<0.33 U	<0.38 U
Acetophenone	98-86-2	NL	NL	<0.19 U	<1.9 U	<0.22 U	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	<0.17 U	<0.17 U	<0.2 UJ
Atrazine	1912-24-9	NL	NL	<0.19 UJ	<1.9 U	<0.22 U	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	<0.17 U	<0.17 U	<0.2 U
Benzaldehyde	100-52-7	NL	NL	<0.19 R	<1.9 U	<0.22 U	<0.17 U	<0.19 U	<0.2 U	<0.2 U	<0.21 U	<0.17 U	<0.17 U	<0.17 U	<0.2 U
Bis(2-chloroethoxy) methane	111-91-1	NL	NL	<0.19 U	<1.9 U	<0.22 U	<0.17 U	<0.19 U	<0.2 U	<0.2 U					

Table 7
Subsurface Soil SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	MW-21S/TB-52 8/13/2009 TB52(12-13)081309 12-13	MW-22D 6/30/2010 MW22D(16.5-17.5)063010 16.5-17.5	MW-22D 7/1/2010 MW22D(71-73.5)070110 71-73.5	MW-22S/TB-54 8/14/2009 TB54(11-12)081409 11-12	MW-23B 8/18/2009 MW23B(10-12)081809 10-12	MW-25S/TB-63 8/16/2009 TB63(12.5-13.5)081809 12.5-13.5	MW-31S 6/28/2010 MW31S(14-15)062810 14-15	MW-32B 6/16/2010 MW32B(35-37)061610 35-37	MW-33S/TB-93 7/1/2010 TB93(10-11)070110 10-11	MW-34S/TB-92 7/7/2010 TB92(14-16)070710 14-16	MW-34S/TB-92 7/7/2010 TB92(42-44)070710 42-44	TP-13 11/3/2008 TP13(9.0-9.5)110308 9.0-9.5
PAH (mg/Kg)															
2-Methylnaphthalene	91-57-6			<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	0.042 J	<0.18 U	<0.21
Acenaphthene	83-32-9	20	500	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	0.14 J	<0.18 U	<0.21
Acenaphthylene	208-96-8	100	500	<0.2 U	0.057 J	<0.17 U	<0.21 U	2.9 J	<0.2 U	<0.24 U	<0.18 U	<0.3 U	0.087 J	<0.18 U	<0.21
Anthracene	120-12-7	100	500	<0.2 U	0.091 J	<0.17 U	<0.21 U	3.2 J	<0.2 U	<0.24 U	<0.18 U	<0.3 U	0.65	<0.18 U	<0.21
Benzo(a)anthracene	56-55-3	1	5.6	<0.2 U	0.19 J	0.0069 J	<0.21 U	16	<0.2 U	<0.24 U	<0.18 U	<0.3 U	0.29	<0.18 U	0.017
Benzo(a)pyrene	50-32-8	1	1	<0.2 U	0.19 J	<0.17 U	<0.21 U	14	<0.2 U	<0.24 U	<0.18 U	<0.3 U	0.33	<0.18 U	<0.21
Benzo(b)fluoranthene	205-99-2	1	5.6	<0.2 U	0.18 J	<0.17 U	<0.21 U	15 J	<0.2 UJ	<0.24 U	<0.18 U	<0.3 U	0.24	<0.18 U	0.009
Benzo(ghi)perylene	191-24-2	100	500	<0.2 U	0.1 J	<0.17 U	<0.21 U	7.7 J	<0.2 U	<0.24 U	<0.18 U	<0.3 U	0.14 J	<0.18 U	<0.21
Benzo(k)fluoranthene	207-08-9	0.8	56	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 UJ	<0.2 UJ	<0.24 U	<0.18 U	<0.3 U	0.079 J	<0.18 U	<0.21
Chrysene	218-01-9	1	56	<0.2 U	0.19 J	<0.17 U	<0.21 U	16	<0.2 U	<0.24 U	<0.18 U	<0.3 U	0.31	<0.18 U	<0.21
Dibenzo(a,h)anthracene	53-70-3	0.33	0.56	<0.2 U	0.018 J	<0.17 U	<0.21 U	1.8 J	<0.2 U	<0.24 U	<0.18 U	<0.3 U	0.033 J	<0.18 U	<0.21
Fluoranthene	206-44-0	100	500	<0.2 U	0.25	0.0079 J	<0.21 U	21	<0.2 U	<0.24 U	<0.18 U	<0.3 U	0.64	<0.18 U	0.017
Fluorene	86-73-7	30	500	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	0.18 J	<0.18 U	<0.21
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	<0.2 U	0.074 J	<0.17 U	<0.21 U	5.6 J	<0.2 U	<0.24 U	<0.18 U	<0.3 U	0.12 J	<0.18 U	<0.21
Naphthalene	91-20-3	12	500	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	0.054 J	0.015 J	0.013
Phenanthrene	85-01-8	100	500	<0.2 U	0.063 J	0.0085 J	<0.21 U	5.7 J	<0.2 U	<0.24 U	<0.18 U	<0.3 U	1.2	<0.18 U	0.011
Pyrene	129-00-0	100	500	<0.2 U	0.34	0.0088 J	<0.21 U	35	<0.2 U	<0.24 U	<0.18 U	<0.3 U	0.88	<0.18 U	0.016
Total PAH		NL	NL	ND	1.743	0.0321	ND	143.9	ND	ND	ND	ND	5.415	0.015	0.083
SVOC (mg/Kg)															
1,1'-Biphenyl	92-52-4	NL	NL	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	0.029 J	<0.18 UJ	<0.21
2,2'-Oxybis(1-Chloropropane)	108-60-1	NL	NL	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	<0.22 U	<0.18 U	<0.21
2,4,5-Trichlorophenol	95-95-4	NL	NL	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	<0.22 U	<0.18 U	<0.21
2,4,6-Trichlorophenol	88-06-2	NL	NL	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	<0.22 U	<0.18 U	<0.21
2,4-Dichlorophenol	120-83-2	NL	NL	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	<0.22 U	<0.18 U	<0.21
2,4-Dimethylphenol	105-67-9	NL	NL	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	<0.22 U	<0.18 U	<0.21
2,4-Dinitrophenol	51-28-5	NL	NL	<0.39 U	<0.42 U	<0.32 U	<0.4 U	<18 U	<0.4 U	<0.46 U	<0.35 U	<0.58 U	<0.42 U	<0.34 U	<0.4
2,4-Dinitrotoluene	121-14-2	NL	NL	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	<0.22 U	<0.18 U	<0.21
2,6-Dinitrotoluene	606-20-2	NL	NL	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	<0.22 U	<0.18 U	<0.21
2-Chloronaphthalene	91-58-7	NL	NL	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	<0.22 U	<0.18 U	<0.21
2-Chlorophenol	95-57-8	NL	NL	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	<0.22 U	<0.18 U	<0.21
2-Methylphenol	95-48-7	0.33	500	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	<0.22 U	<0.18 U	<0.21
2-Nitroaniline	88-74-4	NL	NL	<0.39 U	<0.42 U	<0.32 U	<0.4 U	<18 U	<0.4 U	<0.46 U	<0.35 U	<0.58 U	<0.42 U	<0.34 U	<0.4
2-Nitrophenol	88-75-5	NL	NL	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	<0.22 U	<0.18 U	<0.21
3,3'-Dichlorobenzidine	91-94-1	NL	NL	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	<0.22 U	<0.18 U	<0.21
3-Nitroaniline	99-09-2	NL	NL	<0.39 U	<0.42 U	<0.32 U	<0.4 U	<18 U	<0.4 U	<0.46 U	<0.35 U	<0.58 U	<0.42 U	<0.34 U	<0.4
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	<0.39 U	<0.42 U	<0.32 U	<0.4 U	<18 U	<0.4 U	<0.46 U	<0.35 U	<0.58 U	<0.42 U	<0.34 U	<0.4
4-Bromophenyl phenyl ether	101-55-3	NL	NL	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	<0.22 U	<0.18 U	<0.21
4-Chloro-3-methylphenol	59-50-7	NL	NL	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	<0.22 U	<0.18 U	<0.21
4-Chloroaniline	106-47-8	NL	NL	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	<0.22 U	<0.18 U	<0.21
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	<0.22 U	<0.18 U	<0.21
4-Methylphenol	106-44-5	0.33	500	<0.39 U	<0.42 U	<0.32 U	<0.4 U	<18 U	<0.4 U	<0.46 U	<0.35 U	<0.58 U	<0.42 U	<0.34 U	<0.21
4-Nitroaniline	100-01-6	NL	NL	<0.39 U	<0.42 U	<0.32 U	<0.4 U	<18 U	<0.4 U	<0.46 U	<0.35 U	<0.58 U	<0.42 U	<0.34 U	<0.4
4-Nitrophenol	100-02-7	NL	NL	<0.39 U	<0.42 U	<0.32 U	<0.4 U	<18 U	<0.4 U	<0.46 U	<0.35 U	<0.58 U	<0.42 U	<0.34 U	<0.4
Acetophenone	98-86-2	NL	NL	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	<0.22 U	<0.18 U	<0.21
Atrazine	1912-24-9	NL	NL	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	<0.22 U	<0.18 U	<0.21
Benzaldehyde	100-52-7	NL	NL	<0.2 U	<0.22 U	<0.17 U	<0.21 U	<9.4 U	<0.2 U	<0.24 U	<0.18 U	<0.3 U	<0.22 U	<0.18 U	<0.21
Bis(2-chloroethoxy) methane	111-91-1	NL	NL	<0.2 UJ	<0.22 U	<0.17 U	<0.21 UJ	<9.4 UJ	<0.2 UJ	<0.24 U					

Table 7
Subsurface Soil SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TP-15 11/4/2008 TP15(10-12)110408 10-12	TP-16 11/4/2008 TP16(10-12)110408 10-12	TP-17 11/3/2008 TP17(11-12)110308 11-12	TP-18 11/3/2008 TP18(11.5-12.0)110308 11.5-12.0	TP-19 11/3/2008 TP19(11-11.8)110308 11-11.8
PAH (mg/Kg)								
2-Methylnaphthalene	91-57-6			<0.18	4000	1.7	2	59
Acenaphthene	83-32-9	20	500	<0.18	240	<7.4	0.34	44
Acenaphthylene	208-96-8	100	500	<0.18	2500	5.8	7.6	5.3
Anthracene	120-12-7	100	500	<0.18	1100	0.93	1.5	19
Benzo(a)anthracene	56-55-3	1	5.6	<0.18	530	<7.4	<7.5	11
Benzo(a)pyrene	50-32-8	1	1	<0.18	520	13 J	15 J	9.1 J
Benzo(b)fluoranthene	205-99-2	1	5.6	<0.18	350	10	9.4	6.6
Benzo(ghi)perylene	191-24-2	100	500	<0.18	280	8.3	<7.5	3.9
Benzo(k)fluoranthene	207-08-9	0.8	56	<0.18	94	<7.4	2.5	2.3
Chrysene	218-01-9	1	56	<0.18	470	4	4.8	8.9
Dibenzo(a,h)anthracene	53-70-3	0.33	0.56	<0.18	<1000	1.2	1.4	0.66
Fluoranthene	206-44-0	100	500	<0.18	1400	3.3	4.2	25
Fluorene	86-73-7	30	500	<0.18	1100	<7.4	0.78	19
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	<0.18	200	6.2	7.9	3
Naphthalene	91-20-3	12	500	<0.18 U	9900	<7.4	<7.5	62
Phenanthrene	85-01-8	100	500	<0.18 U	4300	0.64	1.4	66
Pyrene	129-00-0	100	500	<0.18	1800	3.1	3.8	30
Total PAH		NL	NL	ND	28784	58.17	62.62	374.76
SVOC (mg/Kg)								
1,1'-Biphenyl	92-52-4	NL	NL	<0.18	690	<7.4	<7.5	9.9
2,2'-Oxybis(1-Chloropropane)	108-60-1	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
2,4,5-Trichlorophenol	95-95-4	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
2,4,6-Trichlorophenol	88-06-2	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
2,4-Dichlorophenol	120-83-2	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
2,4-Dimethylphenol	105-67-9	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
2,4-Dinitrophenol	51-28-5	NL	NL	<0.35	<2000	<14	<14	<8
2,4-Dinitrotoluene	121-14-2	NL	NL	<0.18 UJ	<1000 UJ	<7.4	<7.5	<4.1
2,6-Dinitrotoluene	606-20-2	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
2-Chloronaphthalene	91-58-7	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
2-Chlorophenol	95-57-8	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
2-Methylphenol	95-48-7	0.33	500	<0.18	<1000	<7.4	<7.5	<4.1
2-Nitroaniline	88-74-4	NL	NL	<0.35	<2000	<14	<14	<8
2-Nitrophenol	88-75-5	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
3,3'-Dichlorobenzidine	91-94-1	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
3-Nitroaniline	99-09-2	NL	NL	<0.35	<2000	<14	<14	<8
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	<0.35	<2000	<14	<14	<8
4-Bromophenyl phenyl ether	101-55-3	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
4-Chloro-3-methylphenol	59-50-7	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
4-Chloroaniline	106-47-8	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
4-Methylphenol	106-44-5	0.33	500	<0.18	<1000	<7.4	<7.5	<4.1
4-Nitroaniline	100-01-6	NL	NL	<0.35	<2000	<14	<14	<8
4-Nitrophenol	100-02-7	NL	NL	<0.35	<2000	<14	<14	<8
Acetophenone	98-86-2	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
Atrazine	1912-24-9	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
Benzaldehyde	100-52-7	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
Bis(2-chloroethoxy) methane	111-91-1	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
Bis(2-chloroethyl) ether	111-44-4	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
Bis(2-ethylhexyl) phthalate	117-81-7	NL	NL	0.091	<1000	<7.4	<7.5	<4.1
Butyl benzyl phthalate	85-68-7	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
Caprolactam	105-60-2	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
Carbazole	86-74-8	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
Dibenzofuran	132-64-9	7	350	<0.18	110	<7.4	<7.5	1.7
Diethyl phthalate	84-66-2	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
Dimethyl phthalate	131-11-3	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
Di-n-butyl phthalate	84-74-2	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
Di-n-octyl phthalate	117-84-0	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
Hexachlorobenzene	118-74-1	0.33	6	<0.18	<1000	<7.4	<7.5	<4.1
Hexachlorobutadiene	87-68-3	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
Hexachlorocyclopentadiene	77-47-4	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
Hexachloroethane	67-72-1	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
Isophorone	78-59-1	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
Nitrobenzene	98-95-3	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
N-Nitroso-Di-n-propylamine	621-64-7	NL	NL	<0.18	<1000	<7.4	<7.5	<4.1
N-nitrosodiphenylamine	86-30-6	NL	NL	<0.18	<1000	<7.4	<7.5	1
Pentachlorophenol	87-86-5	0.8	6.7	<0.35	<2000	<14	<14	<8
Phenol	108-95-2	0.33	500	<0.18	<1000	<7.4	<7.5	<4.1
p-Toluidine	106-49-0	NL	NL	NA	NA	NA	NA	NA

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Bold Values Exceed NYSDEC Part 375-6 Unrestricted Use
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N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
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D = Diluted run

Table 8
Subsurface Soil Metals and Cyanide Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TB-11 7/27/2009 TB11(11-12) 11-12	TB-12 12/15/2008 TB12(10-12)121508 10-12	TB-12 12/15/2008 TB12(18-20)121508 18-20	TB-12 12/15/2008 TB12(31-33)121508 31-33	TB-13 11/18/2008 TB13(22-24)111808 22-24	TB-14 11/17/2008 TB14(14-16)111708 14-16	TB-14 11/17/2008 TB140(14-16)111708 14-16	TB-15 11/20/2008 TB15(20-22)112008 20-22	TB-17 12/2/2008 TB17(11.5-12)120208 11.5-12	TB-17 12/2/2008 TB17(26-28)120208 26-28	TB-18 11/11/2008 TB18(13-15)111108 13-15
Metals (mg/Kg)														
Aluminum	7429-90-5	NL	NL	7440	9560	20700	17200	18300 J	10600 J	14900 J	21300 J	10100	20700	15400 J
Antimony	7440-36-0	NL	NL	<15 UJ	<0.61 U	<0.83 U	<0.76 U	<0.73 UJ	<0.78 UJ	<0.76 UJ	<0.83 UJ	<0.56 U	<0.78 U	0.85 J
Arsenic	7440-38-2	13	16	4.7	5.1	9.1	6.3	9	5.9	6.3	7.5	3.7	7.3	7.7
Barium	7440-39-3	350	400	31.8 J	57.9	120	96.1	101 J	50.8 J	72.8 J	150 J	52.8	139	108
Beryllium	7440-41-7	7.2	590	<0.2 U	<0.31 U	0.59	0.48	0.48	0.28 J	0.38	0.91	0.25	0.72	0.31
Cadmium	7440-43-9	2.5	9.3	<0.2 U	<0.04 U	<0.06 U	<0.06 U	0.49	0.39	0.39	0.42	0.04 J	<0.06 U	<0.05 U
Calcium	7440-70-2	NL	NL	21800	9680	23000	30300	18900 J	27100 J	20300 J	57900 J	896	22100	8830 J
Chromium	7440-47-3	30	1500	7.39	9.9	22.3	17.6	19.3	11.8	15.7	28.6	9.8	22	16.8
Cobalt	7440-48-4	NL	NL	7.62	6.6	17.5	14.3	15.8	9.9	12.9	17.3	8	17	13.4
Copper	7440-50-8	50	270	19.9	16	34.9	23.8	33.2 J	22.4 J	22.7 J	29.9 J	14.8	28.3	26.9
Iron	7439-89-6	NL	NL	15800	16300	37700	31700	33300 J	21200 J	27500 J	35200 J	19000	36000	28400
Lead	7439-92-1	63	1000	8.5	12.9	15.8	12.2	15.2	11.3	11.1	14.5	10.1	13.7	15.4
Magnesium	7439-95-4	NL	NL	6600 J	4680	12400	12100	11200 J	9640 J	10400 J	14500 J	4010	12400	6610 J
Manganese	7439-96-5	1600	10000	465	584	811	713	766 J	592 J	654 J	1240 J	279	976	691
Mercury	7439-97-6	0.18	2.8	<0.02 U	0.013 J	0.020 J	0.025 J	0.034	0.011 J	0.014 J	0.034 J	0.014 J	0.021 J	0.018 J
Nickel	7440-02-0	30	310	15.5	15.2	38.3	30.5	33.1	21.2	26.6	40.8	16.8	33.8	27.7
Potassium	7440-09-7	NL	NL	828	1580	2620	2080	2300	1390	1660	3640	721	3180	1830
Selenium	7782-49-2	3.9	1500	<4 U	<0.66 UJ	<0.90 UJ	<0.83 UJ	<0.80 U	<0.85 U	<0.83 U	<0.91 U	<0.61 U	<0.85 U	<0.79 U
Silver	7440-22-4	2	1500	NA	0.11 J	0.17 J	<0.10 U	<0.10 U	<0.10 U	<0.10 U	<0.11 UJ	<0.07 U	<0.10 U	<0.09 U
Sodium	7440-23-5	NL	NL	45.0 J	169	140 J	196	186 J	60.6 J	160 J	278	86.3 J	400	128 J
Thallium	7440-28-0	NL	NL	<6 U	<0.34 U	<0.46 U	<0.42 U	<0.41 U	<0.43 U	<0.42 U	3.0 J	1.0 J	2.1 J	<0.40 U
Vanadium	7440-62-2	NL	NL	6.44	10.1	19.5	14.7	16.5	10.7	12.6	26.5	8.5	19.6	13
Zinc	7440-66-6	109	10000	41.5	47.8	97.7	81.1	86.2 J	53.9 J	71.7 J	87.6 J	50.8	88.8	74.2 J
Cyanide (mg/Kg)														
Total Cyanide	57-12-5	27	27	<1 U	<0.71 U	<1.2 U	<0.70 U	9.8	<1.1 U	<0.97 U	<0.89 U	<1.0 U	<1.1 U	<0.75 U
TOC (mg/Kg)														
TOC	TOC	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent Solids														
Percent Solids	SOLID	NL	NL	80	NA	NA	NA	75.1	73.7	77.6	71.6	84	73.3	NA

Notes:

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NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TB-18 11/11/2008 TB18(27-29)111108 27-29	TB-19 11/19/2008 TB19(12-14)111908 12-14	TB-19 11/19/2008 TB19(24-26)111908 24-26	TB-20 12/10/2008 TB20(24-26)121008 24-26	TB-21 11/14/2008 TB21(10-12)111408 10-12	TB-21 11/14/2008 TB21(26-28)111408 26-28	TB-22 11/11/2008 TB22(14-16)111108 14-16	TB-22 11/11/2008 TB22(20-22)111108 20-22	TB-26 11/13/2008 TB26(12-14)111308 12-14	TB-26 11/13/2008 TB26(16-18)111308 16-18	TB-27 11/11/2008 TB27(12-14)111108 12-14
Metals (mg/Kg)														
Aluminum	7429-90-5	NL	NL	8460 J	6050 J	19200 J	5610	8380 J	6570 J	6220 J	19300 J	4500 J	12700 J	13000 J
Antimony	7440-36-0	NL	NL	0.70 J	<0.61 UJ	<0.83 UJ	1.2 J	<0.54 U	<0.62 U	<0.68 U	<0.77 U	<0.59 U	<0.65 U	<0.76 U
Arsenic	7440-38-2	13	16	8.9	8.8	11.1	19.6	2.3	14.7	5.3	8	3.1	4.4	9.4
Barium	7440-39-3	350	400	63.8	99.2 N	87.9 J	49	30.9	43.6	21	142	17.2	88.8	56
Beryllium	7440-41-7	7.2	590	0.19 J	0.09 J	0.39	<0.20 U	<0.20 U	<0.29 U	0.05 J	0.71	<0.22 U	<0.33 U	0.23 J
Cadmium	7440-43-9	2.5	9.3	0.07 J	0.47	0.57	<0.04 U	<0.04 U	<0.05 U	<0.05 U	<0.06 U	<0.04 U	<0.05 U	<0.06 U
Calcium	7440-70-2	NL	NL	27300 J	583 J	21300 J	14300	1510 J	86900 J	2320 J	34500 J	5970 J	20000 J	18800 J
Chromium	7440-47-3	30	1500	10	6.1	19.5	8.3	7.1	10.9	6.4	22.8	9.1	13.4	13.4
Cobalt	7440-48-4	NL	NL	10.9	11.5	16.4	16.3	7.8	11.3	7.6	16.5	3.8	11.1	12.1
Copper	7440-50-8	50	270	17.8	17.8 J	33.2 J	49.4	17.9	29.7	23.3	30.1	8	21.5	24.7
Iron	7439-89-6	NL	NL	17200	16700 J	36200 J	21300	17800	19200	15800	31900	12300	24500	26700
Lead	7439-92-1	63	1000	7.8	7.7	15.6	15.2	6.9	7.6	8.7	16.9	9.4	11.3	11.7
Magnesium	7439-95-4	NL	NL	9940 J	2770 J	12900 J	6050	3540 J	6210 J	3030 J	12100 J	3440 J	9220 J	8880 J
Manganese	7439-96-5	1600	10000	651	1360 J	810 J	908	207	927	324	940	217	524	746
Mercury	7439-97-6	0.18	2.8	0.063	0.010 J	0.020 J	0.085	0.012 J	0.082	0.017 J	0.020 J	<0.009 U	0.016 J	0.026
Nickel	7440-02-0	30	310	18	14.1	33.9	54.1	16.4	29.2	15.3	36.8	8.9	23.2	25.1
Potassium	7440-09-7	NL	NL	1150	459	2190	862	358	738	616	3110	295	1710	1310
Selenium	7782-49-2	3.9	1500	0.71 J	<0.67 U	<0.91 U	1.6 J	<0.59 U	<0.68 U	<0.75 U	<0.84 U	<0.64 U	<0.71 U	<0.83 U
Silver	7440-22-4	2	1500	<0.08 U	<0.08 U	<0.11 U	0.37 J	<0.07 U	<0.08 U	<0.09 U	0.11 J	<0.08 U	<0.08 U	<0.10 U
Sodium	7440-23-5	NL	NL	104 J	37.5 J	175 J	65.9 J	50.6 J	<35.5 U	41.3 J	216	<33.6 U	122 J	70.9 J
Thallium	7440-28-0	NL	NL	<0.36 U	0.64 J	<0.46 U	0.75 J	<0.30 U	<0.34 U	<0.38 U	<0.43 U	<0.33 U	<0.36 U	<0.42 U
Vanadium	7440-62-2	NL	NL	8.4	5.7	16.1	14.3	6.3	13.1	5.9	21.6	3.9	11.5	11.4
Zinc	7440-66-6	109	10000	49.4 J	56.9 J	92.7 J	91.9	45.7 J	38.8 J	40.8 J	82.4 J	23.6 J	63.7 J	67.7 J
Cyanide (mg/Kg)														
Total Cyanide	57-12-5	27	27	<0.89 U	<1.0 U	<1.2 U	<0.72 U	<0.84 U	<0.72 U	<1.1 U	<0.87 U	<0.67 U	<1.1 U	<1.1 U
TOC (mg/Kg)														
TOC	TOC	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent Solids														
Percent Solids	SOLID	NL	NL	NA	85.1	72.4	NA	NA	NA	NA	NA	NA	NA	NA

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Metals (mg/Kg)														
Aluminum	7429-90-5	NL	NL	17500 J	8280 J	12000	5800	22300	9710	6180	10000	19500	5520	8890
Antimony	7440-36-0	NL	NL	<0.82 U	0.58 J	<19.1 U	1.8 J	<0.70 U	<0.63 U	<17.3 U	<16.8 U	<0.65 U	<0.61 U	<0.62 U
Arsenic	7440-38-2	13	16	9.2	2.5	6.5	16	5.6	11.5	6.4	6.2	7	2.6	5.8
Barium	7440-39-3	350	400	88.8	40.1	54.4 J	48	133	44.3	60.6 J	52.0 J	113	26.1	37
Beryllium	7440-41-7	7.2	590	0.37	0.08 J	0.319 J	0.16 J	0.69	0.33	<0.2 U	<0.224 U	0.6	0.10 J	0.18 J
Cadmium	7440-43-9	2.5	9.3	<0.06 U	<0.04 U	<0.255 U	14	<0.05 U	0.10 J	<0.231 U	<0.224 U	<0.05 U	<0.05 U	<0.05 U
Calcium	7440-70-2	NL	NL	20600 J	729 J	1200 J	890	17700	8130	26300 J	1710 J	9400	934	22500
Chromium	7440-47-3	30	1500	18.3	8.8	12.1	7	22	13.9	7.36	8.35	20	5.6	8.3
Cobalt	7440-48-4	NL	NL	14.6	5	9.06	6.9	15.4	12.8	8.3	9.38	14.7	4.5	8.7
Copper	7440-50-8	50	270	28.4	7.5	19.5	110	25.6	39.2	22.1	27.1	28	14.2	21.6
Iron	7439-89-6	NL	NL	31000	17500	23000 J	16000	34300	24100	13400 J	22600 J	33600	12200	18700
Lead	7439-92-1	63	1000	13	5.1	13.7	14	13	10.2	8.3	18.8	13.5	50.7	9.8
Magnesium	7439-95-4	NL	NL	11000 J	4450 J	4490 J	3000	10800	6610	9230 J	4520 J	8990	2690	7430
Manganese	7439-96-5	1600	10000	760	449	400 J	190	684	1100	2770 J	577 J	706	419	587
Mercury	7439-97-6	0.18	2.8	0.03	<0.008 U	0.0095 J	0.08	0.014 J	0.047	0.0132 J	<0.0219 U	0.014 J	0.145	<0.010 U
Nickel	7440-02-0	30	310	29.9	12.5	18.8	36	31.7	36.6	14.8	18.7	30.3	9.9	16.7
Potassium	7440-09-7	NL	NL	2200	473	890	780	3770	1140	892	581	2740	362	984
Selenium	7782-49-2	3.9	1500	<0.89 U	<0.60 U	<5.1 U	7.3	<0.76 U	1.1 J	<4.6 U	<4.5 U	<0.70 U	<0.67 U	<0.68 U
Silver	7440-22-4	2	1500	<0.11 U	<0.07 U	<0.637 U	0.85	<0.65 U	<0.59 U	0.178 J	<0.561 U	<0.08 U	<0.08 U	<0.08 U
Sodium	7440-23-5	NL	NL	226	62.8 J	79.2 J	85 J	621	114 J	125 J	93.1 J	397	<35.1 U	80.5 J
Thallium	7440-28-0	NL	NL	<0.45 U	<0.31 U	<7.6 U	<6.6 U	2.1 J	1.5 J	<6.9 U	<6.7 U	2.4 J	<0.34 U	<0.35 U
Vanadium	7440-62-2	NL	NL	15.6	7.1	10.3	27	20.6	16	7.69	9.1	18.1	4.8	8
Zinc	7440-66-6	109	10000	79.9 J	38.7 J	58.4	690	87	65.8	38.2	55.4	83.7	39.5	47.1
Cyanide (mg/Kg)														
Total Cyanide	57-12-5	27	27	<0.87 U	<0.68 U	<1.2 U	<1.1 U	<1.0 U	<0.88 U	<1.1 U	<1.1 U	<1.2 U	<0.98 U	<1.2 U
TOC (mg/Kg)														
TOC	TOC	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent Solids														
Percent Solids	SOLID	NL	NL	NA	NA	82	88	84.3	94.6	87	90	79.9	NA	NA

Notes:

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NL = No Limit

mg/Kg = milligram per kilogram

Bold Values Exceed NYSDEC Part 375-6 Unrestricted Use

Yellow Highlighted Values Exceed NYSDEC Part 375-6 Commercial Use

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D = Diluted run

Table 8
Subsurface Soil Metals and Cyanide Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TB-38 12/18/2008 TB-38(6-8)121808 6-8	TB-38 12/18/2008 TB-38(10-12)121808 10-12	TB-39 12/18/2008 TB-39(12.5-13.5)121808 12.5-13.5	TB-39 12/18/2008 TB-39(13.5-14)121808 13.5-14	TB-40 12/18/2008 TB-40(8-10)121808 8-10	TB-40 12/18/2008 TB-40(12-14)121808 12-14	TB-46 8/6/2009 TB46(14-15)080609 14-15	TB-46 8/6/2009 TB46(15-16)080609 15-16	TB-48 8/6/2009 TB48(13.5-14.5)080609 13.5-14.5	TB-48 8/6/2009 TB48(15-16)080609 15-16	TB-49 8/12/2009 TB49(10-11)081209 10-11	TB-49 8/12/2009 TB49(12-13)081209 12-13
Metals (mg/Kg)															
Aluminum	7429-90-5	NL	NL	5450	11200	7950	8320	6790	7120	11100	6670	7120	11100	6750	8060
Antimony	7440-36-0	NL	NL	<0.58 U	<0.77 U	<0.65 U	<0.68 U	<0.69 U	<0.70 U	<18.4 U	<17.7 U	<18.0 U	<17.2 U	<17.8 U	<16.6 U
Arsenic	7440-38-2	13	16	3.7	3.4	5	4	3.3	6.7	4.9	3.7	3.5	4.1	5.5	4.6
Barium	7440-39-3	350	400	60.8	53.3	40	30.7	25.6	28.9	59.2 J	27.2 J	26.8 J	71.1 J	36.1 J	34.2 J
Beryllium	7440-41-7	7.2	590	0.10 J	0.24 J	0.14 J	0.17 J	0.10 J	0.12 J	0.298	<0.236 U	<0.240 U	0.371	<0.237 U	<0.221 U
Cadmium	7440-43-9	2.5	9.3	<0.04 U	<0.06 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.245 U	0.065 J	0.053 J	<0.230 U	<0.237 U	<0.221 U
Calcium	7440-70-2	NL	NL	732	1960	2360	22400	666	1900	18000 J	28600 J	15000 J	21500 J	4110 J	22200 J
Chromium	7440-47-3	30	1500	6.2	11	7.5	8.1	6	7	11.8	6.96	7.09	12.4	6.64	8.07
Cobalt	7440-48-4	NL	NL	4	8.4	6.1	8.4	5.5	8.2	10.5	6.76	6.45	10	5.13	7.82
Copper	7440-50-8	50	270	7	17.5	9.9	19.9	7.7	24	22.3	16.9	16.6	21.1	11.2	18.5
Iron	7439-89-6	NL	NL	13800	20000	17800	17600	15300	17000	21700 J	14600 J	15200 J	20100 J	15600 J	16600 J
Lead	7439-92-1	63	1000	94.7	11.7	6.3	8.6	10.9	8.5	12.6	8	7.6	9.3	6.1	8.4
Magnesium	7439-95-4	NL	NL	2490	4690	3870	7810	3180	3270	7920 J	8440 J	5880 J	8380 J	3250 J	7180 J
Manganese	7439-96-5	1600	10000	1110	293	697	570	464	502	582 J	471 J	376 J	530 J	413 J	429 J
Mercury	7439-97-6	0.18	2.8	<0.010 U	0.017 J	<0.011 U	<0.010 U	<0.010 U	0.011 J	<0.0214 U	<0.0251 U	<0.0232 U	<0.0232 U	<0.0238 U	<0.0219 U
Nickel	7440-02-0	30	310	10.3	19.1	13.7	16.4	11.7	16.2	21.3	14	13.7	21.4	12.7	15.5
Potassium	7440-09-7	NL	NL	423	630	642	960	344	635	1380	808	670	1540	621	1040
Selenium	7782-49-2	3.9	1500	<0.63 U	<0.85 U	<0.71 U	<0.74 U	<0.75 U	<0.76 U	<4.9 U	<4.7 U	1.0 J	<4.6 U	<4.7 U	0.7 J
Silver	7440-22-4	2	1500	<0.07 U	<0.10 U	<0.08 U	<0.09 U	<0.09 U	<0.09 U	<0.612 U	<0.591 U	<0.599 U	<0.574 U	0.085 J	0.172 J
Sodium	7440-23-5	NL	NL	<33.2 U	<44.4 U	37.7 J	64.1 J	<39.6 U	<39.9 U	<171 U	<165 U	<168 U	<161 U	<166 U	108 J
Thallium	7440-28-0	NL	NL	<0.32 U	<0.43 U	<0.36 U	<0.38 U	<0.38 U	<0.39 U	<7.3 U	<7.1 U	<7.2 U	<6.9 U	<7.1 U	<6.6 U
Vanadium	7440-62-2	NL	NL	5	9.4	6.9	7.6	5.5	6.8	10.3	6.48	6.03	10.9	6.18	7.59
Zinc	7440-66-6	109	10000	28.8	61.1	40.5	44.1	37	42.8	59.6	36.9	38.7	53.1	34	41.8
Cyanide (mg/Kg)															
Total Cyanide	57-12-5	27	27	<1.1 U	<1.0 U	<1.1 U	<1.2 U	<1.1 U	<1.1 U	<1.1 U	<1.0 U	<1.1 U	<1.1 U	<1.1 U	<1.1 U
TOC (mg/Kg)															
TOC	TOC	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent Solids															
Percent Solids	SOLID	NL	NL	NA	NA	NA	NA	NA	NA	88	84	85	87	86	83

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Subsurface Soil Metals and Cyanide Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TB-55 8/14/2009 TB55(11-12)081409 11-12	TB-56 8/14/2009 TB56(11-12)081409 11-12	TB-57 8/17/2009 TB57(12-14)081709 12-14	TB-61 8/18/2009 TB61(14-15)081809 14-15	TB-64 8/19/2009 TB64(12-13)081909 12-13	TB-68 8/20/2009 TB68(13-14)082009 13-14	TB-69 8/20/2009 TB69(10-11)082009 10-11	TB-71 8/20/2009 TB71(10-12)082009 10-12	TB-75 8/20/2009 TB75(7-9)082009 7-9	TB-77 8/21/2009 TB77(12-14)082109 12-14	TB-79 8/21/2009 TB79(12-14)082109 12-14
Metals (mg/Kg)														
Aluminum	7429-90-5	NL	NL	7170 J	13700 J	6840 J	16300 J	12200	7700	18400	21000	11800	5800	8910
Antimony	7440-36-0	NL	NL	<18.5 UJ	<22.4 UJ	<19.1 UJ	<20.8 UJ	1.3 J	1.1 J	1.0 J	<22.4 U	0.6 J	1.0 J	<21.2 U
Arsenic	7440-38-2	13	16	8.3	6.7	34.5	12.9	6.6	6.1	8.1	8.7	8.7	4.1	6.5
Barium	7440-39-3	350	400	31.3 J	78.0 J	38.8 J	105 J	68.7	31.5	137	139	67.6	21.9	36
Beryllium	7440-41-7	7.2	590	<0.247 U	0.4	0.146 J	0.545	0.068 J	<0.243 U	0.424	0.253 J	<0.232 U	<0.263 U	<0.283 U
Cadmium	7440-43-9	2.5	9.3	<0.247 U	<0.299 U	0.164 J	0.193 J	<0.257 U	<0.243 U	<1.40 U	<1.49 U	<1.16 U	<0.263 U	<0.283 U
Calcium	7440-70-2	NL	NL	16600 J	25000 J	22000 J	10100 J	24200	21200	11200	16500	1510	24200	17900
Chromium	7440-47-3	30	1500	7.01	14.9	6.41	17.7	13.3	7.24	23	21.6	12.2	5.68	8.26
Cobalt	7440-48-4	NL	NL	8.71	12	8.17	14	11.5	7.79	12.8	17.3	9.49	7.72	9.33
Copper	7440-50-8	50	270	23.4	27.8	19.2	29.4	24.7	20.6	25.6	34.4	37	22.2	23.1
Iron	7439-89-6	NL	NL	16700 J	25400 J	16600 J	28800 J	23400	17200	26600	34700	25100	14200	19600
Lead	7439-92-1	63	1000	9.3	13.3	7.7	14.5	11.9	9	11.5	15.3	22.3	8.5	10.1
Magnesium	7439-95-4	NL	NL	5520	9160	6900	7670	9420	6900	7400	10500	5070	6540	6670
Manganese	7439-96-5	1600	10000	603 J	695 J	865 J	762 J	656	567	835	844	938	412	588
Mercury	7439-97-6	0.18	2.8	0.0126 J	0.0168 J	0.0170 J	<0.0282 U	0.0112 J	<0.0258 U	0.0162 J	<0.0304 U	0.0112 J	<0.0248 U	<0.0263 U
Nickel	7440-02-0	30	310	16.3	24.9	14.1	30.4	23.6	15.2	31.5	35.6	22.5	14.4	18
Potassium	7440-09-7	NL	NL	798	2110	823	2440	1670	849	3190	3140	1280	644	1010
Selenium	7782-49-2	3.9	1500	<4.9 U	<6.0 U	<5.1 U	<5.6 U	<5.1 U	<4.9 U	<5.6 U	<6.0 U	<4.6 U	<5.3 U	<5.7 U
Silver	7440-22-4	2	1500	<0.618 U	<0.747 U	<0.636 U	<0.694 U	<0.643 U	0.085 J	<0.702 U	<0.745 U	<0.580 U	0.134 J	0.260 J
Sodium	7440-23-5	NL	NL	67.0 J	138 J	64.1 J	283	116 J	90.2 J	242	329	111 J	40.8 J	73.7 J
Thallium	7440-28-0	NL	NL	<7.4 U	0.6 J	<7.6 U	<8.3 U	<7.7 U	<7.3 U	<8.4 U	<8.9 U	<7.0 U	<7.9 U	<8.5 U
Vanadium	7440-62-2	NL	NL	7.17	15.8	6.26	17.8	12.9	7.59	22.1	20.5	10.6	5.5	8.09
Zinc	7440-66-6	109	10000	43.4	62.2	38.3	73	59.4	42.4	66.3	92.2	60.2	37.1	49.1
Cyanide (mg/Kg)														
Total Cyanide	57-12-5	27	27	<1.0 U	<1.4 U	<1.1 U	<1.3 U	<0.9 U	<1.2 U	<1.0 U	<1.2 U	<0.9 U	<1.2 U	<1.1 U
TOC (mg/Kg)														
TOC	TOC	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent Solids														
Percent Solids	SOLID	NL	NL	81	68	78	74	74	81	71	70	82	79	77

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Subsurface Soil Metals and Cyanide Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TB-82 6/24/2010 TB82(17-19.5)062410 17-19.5	TB-83 6/16/2010 TB83(18.5-21)061610 18.5-21	TB-84 6/16/2010 TB84(12-14)061610 12-14	TB-84 6/16/2010 TB84(19.5-21)061610 19.5-21	TB-85 6/24/2010 TB85(16-18.5)062410 16-18.5	TB-86 6/24/2010 TB86(24-25)062410 24-25	TB-87 6/15/2010 TB87(24-26)061510 24-26	TB-87 6/15/2010 TB87(34-36)061510 34-36	TB-88 6/15/2010 TB88(22-24)061510 22-24	TB-88 6/15/2010 TB88(41.5-43.2)061510 41.5-43.2	TB-89 7/6/2010 TB89(52-54)070610 52-54
Metals (mg/Kg)														
Aluminum	7429-90-5	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	7440-36-0	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	7440-38-2	13	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	7440-39-3	350	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	7440-41-7	7.2	590	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	7440-43-9	2.5	9.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	7440-70-2	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	7440-47-3	30	1500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	7440-48-4	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	7440-50-8	50	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	7439-89-6	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	63	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	7439-95-4	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	7439-96-5	1600	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	7439-97-6	0.18	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	7440-02-0	30	310	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	7440-09-7	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	7782-49-2	3.9	1500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	7440-22-4	2	1500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	7440-23-5	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	7440-28-0	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	7440-62-2	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	7440-66-6	109	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (mg/Kg)														
Total Cyanide	57-12-5	27	27											
TOC (mg/Kg)														
TOC	TOC	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent Solids														
Percent Solids	SOLID	NL	NL	91	88	82	87	88	88	72	93	68	88	89

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Table 8
Subsurface Soil Metals and Cyanide Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TB-90 7/8/2010 TB90(12-13)070810 12-13	TB-91 7/8/2010 TB91(12-14)070810 12-14	TB-94 6/24/2010 TB94(12-13)062410 12-13	TB-95 6/28/2010 TB95(12-14)062810 12-14	TB-96 7/7/2010 TB96(12-14)070710 12-14	TB-96 7/7/2010 TB960(12-14)070710 12-14	TB-98 6/25/2010 TB98(12-13)062510 12-13	TB-99 6/25/2010 TB99(12-13)062510 12-13	TB-100 7/2/2010 TB100(18-20)070210 18-20	TB-101 7/8/2010 TB101(28-31)070810 28-31	RTB-02 10/13/2009 RTB2(3.5-4.5)101309 3.5-4.5
Metals (mg/Kg)														
Aluminum	7429-90-5	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8020 J
Antimony	7440-36-0	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<19.0 U
Arsenic	7440-38-2	13	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.8
Barium	7440-39-3	350	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.5
Beryllium	7440-41-7	7.2	590	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.172 J
Cadmium	7440-43-9	2.5	9.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.160 J
Calcium	7440-70-2	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1290
Chromium	7440-47-3	30	1500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.32
Cobalt	7440-48-4	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.62
Copper	7440-50-8	50	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25.4
Iron	7439-89-6	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17100
Lead	7439-92-1	63	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.2
Magnesium	7439-95-4	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4040 J
Manganese	7439-96-5	1600	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	582
Mercury	7439-97-6	0.18	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0195 J
Nickel	7440-02-0	30	310	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16.7
Potassium	7440-09-7	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	689
Selenium	7782-49-2	3.9	1500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.1 U
Silver	7440-22-4	2	1500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.634 U
Sodium	7440-23-5	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<177 U
Thallium	7440-28-0	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<7.6 U
Vanadium	7440-62-2	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.15
Zinc	7440-66-6	109	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	57.2
Cyanide (mg/Kg)														
Total Cyanide	57-12-5	27	27											<1.1 U
TOC (mg/Kg)														
TOC	TOC	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1630
Percent Solids														
Percent Solids	SOLID	NL	NL	91	74	73	69	79	79	82	73	86	93	86

Notes:
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Table 8
Subsurface Soil Metals and Cyanide Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	RTB-03 10/13/2009 RTB3(6.5-7.5)101309 6.5-7.5	RTB-04 10/13/2009 RTB4(4.5-5.5)101309 4.5-5.5	RTB-05 10/14/2009 RTB5(2-4)101409 2-4	RTB-08 10/15/2009 RTB8(6-7)101509 6-7	RTB-09 10/14/2009 RTB9(1.5-3)101409 1.5-3	RTB-09 10/14/2009 RTB9(7-9)101409 7-9	RTB-11 10/14/2009 RTB11(5-6)101409 5-6	RTB-14 10/16/2009 TB14(4-5)101609 4-5	RTB-15 10/16/2009 RTB15(6-7)101609 6-7	RTB-16 10/19/2009 RTB16(4-5)101909 4-5	RTB-17 10/19/2009 RTB17(4-5)101909 4-5	RTB-18 10/19/2009 RTB18(4-5)101909 4-5
Metals (mg/Kg)															
Aluminum	7429-90-5	NL	NL	6350 J	7110 J	10400 J	7230 J	8580 J	6540 J	9260 J	9110 J	8670 J	8250	6230	7930
Antimony	7440-36-0	NL	NL	<18.4 U	<16.6 U	<17.3 UJ	<20.9 UJ	<17.0 UJ	<19.9 UJ	<18.6 UJ	<17.7 UJ	<17.9 UJ	<17.7 U	<16.8 U	<16.7 U
Arsenic	7440-38-2	13	16	5.5	6.9	5.4	4.3	5	4.6	7.5	6.6	10.8	19.2	3.5	4.9
Barium	7440-39-3	350	400	24	24.6	45	27.4	42.9	22.5	75.5	38.6	32.9	41.8	18.7	63.9
Beryllium	7440-41-7	7.2	590	0.136 J	0.156 J	0.251	0.160 J	0.183 J	0.131 J	0.193 J	0.153 J	0.161 J	0.145 J	0.093 J	0.168 J
Cadmium	7440-43-9	2.5	9.3	0.156 J	0.192 J	0.181 J	0.188 J	0.176 J	0.171 J	0.196 J	0.186 J	0.180 J	0.144 J	0.121 J	0.182 J
Calcium	7440-70-2	NL	NL	21300	19600	23200	28900	3900	23700	4760	5110	7230	16500	29800	2860
Chromium	7440-47-3	30	1500	6.48	7.12	11	7.99	8.46	6.66	10.5	9.4	8.44	7.98	6.47	8.01
Cobalt	7440-48-4	NL	NL	6.65	8.11	9.52	8.38	7.74	7.22	8.31	9.02	9.12	9.73	6.6	6.82
Copper	7440-50-8	50	270	18.5	22	21	23	15.1	18.6	24.5	34	22.4	24.2	16.9	14.9
Iron	7439-89-6	NL	NL	14200	18600	20300	16800	18900	15100	21400	21400	20000	19800	14500	18700
Lead	7439-92-1	63	1000	7.7	9.7	9.5	8.1	12.5	7.9	24.3	14.1	11.4	11.3	7.9	13.5
Magnesium	7439-95-4	NL	NL	6590 J	6090 J	8220 J	8920 J	4550 J	7120 J	4770 J	5080 J	4720 J	6270	6440	4100
Manganese	7439-96-5	1600	10000	425	636	568	538	505	405	1160	798	525	1150	384	1510
Mercury	7439-97-6	0.18	2.8	<0.0219 U	<0.0247 U	<0.0253 U	<0.0261 U	<0.0211 U	<0.0261 U	<0.0238 U	0.0099 J	<0.0230 U	<0.0225 U	<0.0246 U	<0.0212 U
Nickel	7440-02-0	30	310	12.9	15.8	18.7	16	16.7	13.9	17.7	18.8	16.9	18.2	13.2	15.5
Potassium	7440-09-7	NL	NL	702	578	1530	856	941	751	1080	741	889	873	507	606
Selenium	7782-49-2	3.9	1500	<4.9 U	<4.4 U	<4.6 U	<5.6 U	<4.5 U	<5.3 U	<5.0 U	<4.7 U	<4.8 U	<4.7 U	<4.5 U	<4.4 U
Silver	7440-22-4	2	1500	<0.613 U	<0.553 U	<0.578 U	<0.696 U	<0.567 U	<0.662 U	<0.619 U	<0.591 U	<0.597 U	<0.590 U	<0.561 U	<0.555 U
Sodium	7440-23-5	NL	NL	73.2 J	43.8 J	109 J	60.3 J	69.1 J	44.5 J	80.4 J	45.5 J	58.9 J	60.6 J	71.9 J	79.3 J
Thallium	7440-28-0	NL	NL	<7.4 U	<6.6 U	<6.9 U	<8.3 U	<6.8 U	<7.9 U	<7.4 U	<7.1 U	<7.2 U	<7.1 U	<6.7 U	<6.7 U
Vanadium	7440-62-2	NL	NL	6.09	6.57	10.7	7.24	7.62	6.23	9	9.55	8.09	7.12	5.77	7.68
Zinc	7440-66-6	109	10000	36.2	44.3	50.1	44	46.2	38	50.4	48.1	48.2	47.5	37.8	43.8
Cyanide (mg/Kg)															
Total Cyanide	57-12-5	27	27	<1.0 U	<0.9 U	<1.1 U	<1.2 U	<1.0 U	<1.3 U	<1.3 U	<1.1 U	<1.2 U	<0.9 U	<0.7 U	<1.0 U
TOC (mg/Kg)															
TOC	TOC	NL	NL	9930	5980	10000	12100	6550	10300	6980	1460	10100	8250	8720	1790
Percent Solids															
Percent Solids	SOLID	NL	NL	84	83	80	76	87	79	77	88	81	85	81	92

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NYSEG Granville Former MGP Site
Granville, New York

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Metals (mg/Kg)														
Aluminum	7429-90-5	NL	NL	6730	19800 J	7590 J	9730 J	9240 J	18100 J	11200 J	20300 J	5970 J	8610 J	18100 J
Antimony	7440-36-0	NL	NL	<17.2 U	<0.75 UJ	<0.62 U	<0.75 U	<0.56 UJ	<0.82 UJ	<0.72 U	<0.74 U	<0.64 UJ	<0.74 UJ	<0.78 U
Arsenic	7440-38-2	13	16	4.5	7.5	5	5.6	3.6	9.1	3.3	6.8	5	5.7	9.1
Barium	7440-39-3	350	400	21.2	137 J	45.9	44.6	28.2 J	76.3 J	74.3	117	24.6 J	32.2 J	95.6
Beryllium	7440-41-7	7.2	590	0.123 J	0.77	0.13 J	0.19 J	0.16 J	0.43	0.21 J	0.54	0.10 J	0.16 J	0.4
Cadmium	7440-43-9	2.5	9.3	0.112 J	0.58	<0.05 U	<0.06 U	0.27	0.43	<0.05 U	<0.05 U	0.27	0.32	<0.06 U
Calcium	7440-70-2	NL	NL	24700	37100 J	1200 J	27000 J	1010 J	24900 J	1220 J	24700 J	1050 J	25700 J	20700 J
Chromium	7440-47-3	30	1500	7.48	23.8	8	10.8	13.6	18.5	12	20.7	5.7	8.9	18.7
Cobalt	7440-48-4	NL	NL	7.6	16.2	6.4	9.5	8.3	15.9	6.4	16.1	5.8	8.5	15
Copper	7440-50-8	50	270	22.7	30.5 J	12.4	22.5	18.6 J	32.6 J	16.4	27.3	14.6 J	23.3 J	30.1
Iron	7439-89-6	NL	NL	16400	32100 J	17300	20100	20100 J	36000 J	18100	34900	14400 J	18600 J	32800
Lead	7439-92-1	63	1000	7.7	15.5	16.8	10.8	12.4	13.2	12	14.5	11.9	9	15.5
Magnesium	7439-95-4	NL	NL	7670	12100 J	3550 J	9400 J	4440 J	13200 J	4510 J	12300 J	2570 J	8880 J	11300 J
Manganese	7439-96-5	1600	10000	480	971 J	598	615	340 J	796 J	203	763	225 J	514 J	747
Mercury	7439-97-6	0.18	2.8	<0.0231 U	0.018 J	0.014 J	0.018 J	<0.009 UJ	<0.014 U	0.023 J	0.026 J	0.009 J	0.017 J	0.022 J
Nickel	7440-02-0	30	310	17.6	36.5	16.4	19.9	17.9	32.9	18.2	33.9	12.1	17.4	31.7
Potassium	7440-09-7	NL	NL	761	3280	561	1210	538	1980	883	2660	410	967	2390
Selenium	7782-49-2	3.9	1500	<4.6 U	<0.82 U	0.73 J	<0.82 U	<0.61 U	<0.89 U	<0.78 U	<0.81 U	<0.70 U	<0.81 U	<0.85 U
Silver	7440-22-4	2	1500	<0.574 U	<0.10 U	<0.08 U	<0.10 U	0.19 J	<0.11 UJ	<0.09 U	0.10 J	<0.08 U	<0.10 U	<0.10 U
Sodium	7440-23-5	NL	NL	49.5 J	212	51.9 J	81.2 J	58.9 J	140 J	67.4 J	282	<37.0 U	46.4 J	242
Thallium	7440-28-0	NL	NL	<6.9 U	<0.42 U	<0.34 U	<0.41 U	1.9 J	3.0 J	<0.40 U	<0.41 U	<0.36 U	<0.41 U	<0.43 U
Vanadium	7440-62-2	NL	NL	6.19	22.4	6.3	9.7	7.2	15	10.1	17.7	5.1	7.9	16.5
Zinc	7440-66-6	109	10000	41.4	90.5 J	56.7 J	49.7 J	52.0 J	91.8 J	62.7 J	89.4 J	32.1 J	49.3 J	83.0 J
Cyanide (mg/Kg)														
Total Cyanide	57-12-5	27	27	<1.1 U	<1.3 U	<0.80 U	<1.1 U	<0.78 U	<1.2 U	<0.90 U	<1.3 U	<0.68 U	<0.95 U	<0.88 U
TOC (mg/Kg)														
TOC	TOC	NL	NL	8260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent Solids														
Percent Solids	SOLID	NL	NL	86	69.6	NA	NA	90.6	66	NA	NA	93	72	NA

Notes:

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Metals (mg/Kg)														
Aluminum	7429-90-5	NL	NL	16300 J	10900 J	6070 J	7990	6000	7840	9840	6310	7270 J	14100 J	NA
Antimony	7440-36-0	NL	NL	0.73 J	<0.69 UJ	<0.75 UJ	<0.64 U	<0.58 U	<18.1 U	<17.0 U	<19.6 U	<0.66 U	0.93 J	NA
Arsenic	7440-38-2	13	16	5.6	8.9	6	11	6.7	5.5	2.8	5	4.9	5.3	NA
Barium	7440-39-3	350	400	74.1	53.4 J	19.7 J	36.8	40.3	44.1 J	47.5 J	54.3 J	39.6	66.3	NA
Beryllium	7440-41-7	7.2	590	0.34	0.21 J	0.15 J	<0.24 U	<0.21 U	0.330 J	<0.2 U	<0.262 U	<0.24 U	<0.31 U	NA
Cadmium	7440-43-9	2.5	9.3	<0.05 U	0.55	0.22 J	<0.05 U	0.3	<0.241 U	<0.227 U	0.152 J	<0.05 U	<0.05 U	NA
Calcium	7440-70-2	NL	NL	32700 J	1690 J	31800 J	1760	28000	15300 J	1240 J	47700 J	832 J	30500 J	NA
Chromium	7440-47-3	30	1500	16.8	11.4	6.8	7.7	8.2	8.3	10.8	7.84	7.9	14.9	NA
Cobalt	7440-48-4	NL	NL	13.5	7.9	7.9	9.6	7.5	6.5	5.59	6.93	6.6	12.7	NA
Copper	7440-50-8	50	270	21.4	28.9 J	23.5 J	37.3	29.9	25.1	17	28.3	11.2	20.3	NA
Iron	7439-89-6	NL	NL	31000	31000 J	15900 J	19600	16000	18000	16600 J	15300 J	20200	28400	NA
Lead	7439-92-1	63	1000	10.5	27.4	8.4	14.1	17.8	23.6	11.3	8.9	7.6	11.1	NA
Magnesium	7439-95-4	NL	NL	12300 J	5330 J	8820 J	3500	9210	9630 J	3980 J	12400 J	3310 J	11400 J	NA
Manganese	7439-96-5	1600	10000	702	1140 J	522 J	467	772	446 J	235 J	715 J	516	675	NA
Mercury	7439-97-6	0.18	2.8	0.027	0.045 J	0.011 J	0.016 J	0.03	0.0131 J	0.0141 J	<0.0228 U	<0.009 U	0.022 J	NA
Nickel	7440-02-0	30	310	29.1	19.2	14.9	18.6	19.9	14.8	14.9	14.8	14.1	26.9	NA
Potassium	7440-09-7	NL	NL	1820	688	652	806	804	680	724	871 J	421	1440	NA
Selenium	7782-49-2	3.9	1500	<0.78 U	<0.75 U	<0.82 U	<0.70 UJ	1.3 J	<4.8 U	<4.5 U	<5.2 U	<0.72 U	<0.77 U	NA
Silver	7440-22-4	2	1500	<0.09 U	<0.09 UJ	<0.10 UJ	<0.08 U	0.17 J	<0.604 U	<0.567 U	<0.655 U	<0.09 U	<0.09 U	NA
Sodium	7440-23-5	NL	NL	172 J	44.4 J	<42.8 U	<37.0 U	78.9 J	58.8 J	<159 U	<183 U	41.2 J	78.7 J	NA
Thallium	7440-28-0	NL	NL	<0.40 U	2.9 J	1.7 J	<0.36 U	0.49 J	<7.2 U	<6.8 U	<7.9 U	<0.37 U	<0.39 U	NA
Vanadium	7440-62-2	NL	NL	14	9.2	5.9	7.3	8.7	8.12	8.15	7.4	5.9	11.9	NA
Zinc	7440-66-6	109	10000	77.6 J	104 J	39.3 J	49.5	54	46.5	50.3	42.4	37.0 J	72.2 J	NA
Cyanide (mg/Kg)														
Total Cyanide	57-12-5	27	27	<1.3 U	<0.90 U	<1.1 U	2	<0.56 U	<1.2 U	<1.1 U	<1.2 U	<0.57 U	<0.96 U	
TOC (mg/Kg)														
TOC	TOC	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent Solids														
Percent Solids	SOLID	NL	NL	NA	86.2	74.8	NA	NA	83	89	87	NA	NA	98

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NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	MW-15S/TB-37 12/18/2008 TB-37(12-14)121808 12-14	MW-15D 6/29/2010 MW15D(60-62.8)062910 60-62.8	MW-16S/TB-41 12/18/2008 TB-41(8-10)121808 8-10	MW-16S/TB-41 12/18/2008 TB-41(12-14)121808 12-14	MW-17S 7/28/2009 MW17S(10-12)072709 10-12	MW-19B 7/28/2009 MW19B(11-12)072809 11-12	MW-19B 7/28/2009 MW19B(13-14)072809 13-14	MW-20B 8/3/2009 MW20B(12-13)080309 12-13	MW-21S/TB-52 8/13/2009 TB52(12-13)081309 12-13	MW-22D 6/30/2010 W22D(16.5-17.5)06301 16.5-17.5
Metals (mg/Kg)													
Aluminum	7429-90-5	NL	NL	9520	7800	5300	6930	8220	6060	10500	10500	11900 J	NA
Antimony	7440-36-0	NL	NL	<0.62 U	<0.67 U	<0.72 U	<0.68 U	<15 UJ	<18.0 U	<15 UJ	<17.5 U	<17.5 UJ	NA
Arsenic	7440-38-2	13	16	2.9	6.2	1.8 J	3.1	5.5	5.2	3.8	6.1	11	NA
Barium	7440-39-3	350	400	18.4	33.1	21.7	21.1	33.7 J	27.0 J	52.3	79.7 J	76.9 J	NA
Beryllium	7440-41-7	7.2	590	0.12 J	0.17 J	<0.010 U	0.14 J	<0.2 U	<0.2 U	0.019 J	0.291 J	0.298	NA
Cadmium	7440-43-9	2.5	9.3	<0.23 U	<0.05 U	<0.05 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.234 U	<0.234 U	NA
Calcium	7440-70-2	NL	NL	612	23400	10600	25900	21100	1080	20400	1920 J	16300 J	NA
Chromium	7440-47-3	30	1500	6.4	8.1	4.9	6.9	8.05	6.3	11	9.44	12	NA
Cobalt	7440-48-4	NL	NL	6.3	7.6	3.4	8.2	8.08	4.84	9.35	9.23	9.79	NA
Copper	7440-50-8	50	270	10.6	20.9	5.2	22.3	18.7	10	16	20.6	24	NA
Iron	7439-89-6	NL	NL	23100	15900	10700	15700	17600	14300	20000	21200 J	22200 J	NA
Lead	7439-92-1	63	1000	21.4	8.2	4.3	9.8	8.5	7.7	9.8	15.1	11.1	NA
Magnesium	7439-95-4	NL	NL	4820	7100	2790	8020	7190 J	3160 J	8130 J	4220 J	6620	NA
Manganese	7439-96-5	1600	10000	376	424	187	504	505	281	498	830 J	816 J	NA
Mercury	7439-97-6	0.18		<0.009 U	<0.010 U	0.011 J	<0.011 U	<0.02 U	<0.02 U	<0.02 U	<0.0226 U	<0.0220 U	NA
Nickel	7440-02-0	30	310	15.1	15.6	8.2	16.1	16.2	10.8	19.7	19.8	21.3	NA
Potassium	7440-09-7	NL	NL	371	919	301	761	883	488	1280	1210	1770	NA
Selenium	7782-49-2	3.9	1500	<0.68 U	<0.73 U	<0.78 U	<0.75 U	<4 U	<4 U	<4 U	<4.7 U	<4.7 U	NA
Silver	7440-22-4	2	1500	<0.08 U	<0.09 U	<0.09 U	<0.09 U	NA	NA	NA	<0.584 U	<0.584 U	NA
Sodium	7440-23-5	NL	NL	40.9 J	40.8 J	62.3 J	<39.3 U	<140 U	57.1 J	76.9 J	96.6 J	149 J	NA
Thallium	7440-28-0	NL	NL	<0.35 U	<0.37 U	<0.40 U	<0.38 U	<6 U	0.6 J	<6 U	<7.0 U	<7.0 U	NA
Vanadium	7440-62-2	NL	NL	7.4	7.7	4.6	6.5	6.85	4.81	8.58	10.2	12.3	NA
Zinc	7440-66-6	109	10000	127	41.1	24.5	42.5	47.2	32.1	55.8	56.2	53.5	NA
Cyanide (mg/Kg)													
Total Cyanide	57-12-5	27	27	<1.0 U	<1.2 U	<1.0 U	<0.96 U	<1 U	<1 U	<1 U	<1.2 U	<1.1 U	
TOC (mg/Kg)													
TOC	TOC	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent Solids													
Percent Solids	SOLID	NL	NL	NA	NA	NA	NA	75	90	92	86	84	77

Notes:

NA = Not Applicable
NL = No Limit
mg/Kg = milligram per kilogram

Bold Values Exceed NYSDEC Part 375-6 Unrestricted Use
Yellow Highlighted Values Exceed NYSDEC Part 375-6 Commercial Use

U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 8
Subsurface Soil Metals and Cyanide Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	MW-22D 7/1/2010 MW22D(71-73.5)070110 71-73.5	MW-22S/TB-54 8/14/2009 TB54(11-12)081409 11-12	MW-23B 8/18/2009 MW23B(10-12)081809 10-12	MW-25S/TB-63 8/18/2009 TB63(12.5-13.5)081809 12.5-13.5	MW-31S 6/28/2010 MW31S(14-15)062810 14-15	MW-32B 6/16/2010 MW32B(35-37)061610 35-37	MW-33S/TB-93 7/1/2010 TB93(10-11)070110 10-11	MW-34S/TB-92 7/7/2010 TB92(14-16)070710 14-16	MW-34S/TB-92 7/7/2010 TB92(42-44)070710 42-44	TP-13 11/3/2008 TP13(9.0-9.5)110308 9.0-9.5	TP-15 11/4/2008 TP15(10-12)110408 10-12
Metals (mg/Kg)														
Aluminum	7429-90-5	NL	NL	NA	10100 J	10800 J	10600 J	NA	NA	NA	NA	NA	7270	5820
Antimony	7440-36-0	NL	NL	NA	<17.0 UJ	<15.6 UJ	<19.6 UJ	NA	NA	NA	NA	NA	<0.64	<0.61
Arsenic	7440-38-2	13	16	NA	11.2	6.2	6.3	NA	NA	NA	NA	NA	7.4	2.6
Barium	7440-39-3	350	400	NA	57.0 J	72.8 J	56.2 J	NA	NA	NA	NA	NA	36.3	29.1
Beryllium	7440-41-7	7.2	590	NA	<0.227 U	0.247	0.274	NA	NA	NA	NA	NA	0.22 J	0.10 J
Cadmium	7440-43-9	2.5	9.3	NA	<0.227 U	0.134 J	0.112 J	NA	NA	NA	NA	NA	<0.24 U	<0.23 U
Calcium	7440-70-2	NL	NL	NA	1820 J	947 J	12000 J	NA	NA	NA	NA	NA	2640	752
Chromium	7440-47-3	30	1500	NA	9.47	10.1	10.6	NA	NA	NA	NA	NA	7.2	5.4
Cobalt	7440-48-4	NL	NL	NA	12.7	9.25	8.07	NA	NA	NA	NA	NA	6.1	5.4
Copper	7440-50-8	50	270	NA	40.2	20.6	21.1	NA	NA	NA	NA	NA	16.1	6.7
Iron	7439-89-6	NL	NL	NA	23700 J	22300 J	19000 J	NA	NA	NA	NA	NA	16300	12200
Lead	7439-92-1	63	1000	NA	16.9	12.3	11.3	NA	NA	NA	NA	NA	9.5	6.6
Magnesium	7439-95-4	NL	NL	NA	4260	4140	5500	NA	NA	NA	NA	NA	3890	3300
Manganese	7439-96-5	1600	10000	NA	1200 J	453 J	464 J	NA	NA	NA	NA	NA	467	563
Mercury	7439-97-6	0.18	2.8	NA	0.0182 J	0.0163 J	0.0115 J	NA	NA	NA	NA	NA	0.03	<0.008
Nickel	7440-02-0	30	310	NA	21.7	18.9	18.8	NA	NA	NA	NA	NA	13.4	11.6
Potassium	7440-09-7	NL	NL	NA	1000	1260	1530	NA	NA	NA	NA	NA	500	356
Selenium	7782-49-2	3.9	1500	NA	<4.5 U	0.6 J	<5.2 U	NA	NA	NA	NA	NA	<0.70	<0.67
Silver	7440-22-4	2	1500	NA	<0.567 U	<0.521 U	<0.653 U	NA	NA	NA	NA	NA	<0.08	<0.08
Sodium	7440-23-5	NL	NL	NA	84.6 J	212	173 J	NA	NA	NA	NA	NA	61.3 J	171
Thallium	7440-28-0	NL	NL	NA	<6.8 U	<6.3 U	<7.8 U	NA	NA	NA	NA	NA	<0.36	<0.34
Vanadium	7440-62-2	NL	NL	NA	10.3	9.71	10.6	NA	NA	NA	NA	NA	7.1	4.6
Zinc	7440-66-6	109	10000	NA	59.2	51.8	58	NA	NA	NA	NA	NA	44.1	28.7
Cyanide (mg/Kg)														
Total Cyanide	57-12-5	27	27		<1.0 U	<0.7 U	<0.8 U						<0.96	<0.78
TOC (mg/Kg)														
TOC	TOC	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent Solids														
Percent Solids	SOLID	NL	NL	99	82	90	82	71	92	56	78	95	NA	NA

Notes:

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Table 8
Subsurface Soil Metals and Cyanide Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID Depth Interval (ft. bgs)	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	TP-16 11/4/2008 TP16(10-12)110408 10-12	TP-17 11/3/2008 TP17(11-12)110308 11-12	TP-18 11/3/2008 TP18(11.5-12.0)110308 11.5-12.0	TP-19 11/3/2008 TP19(11-11.8)110308 11-11.8
Metals (mg/Kg)							
Aluminum	7429-90-5	NL	NL	4710	10900	8430	12300
Antimony	7440-36-0	NL	NL	1.2 J	<0.69	<0.65	<0.66
Arsenic	7440-38-2	13	16	23.5	4.4	3.3	2.5
Barium	7440-39-3	350	400	54.4	43.1	32.3	61.7
Beryllium	7440-41-7	7.2	590	0.20 J	0.26	0.17 J	0.26
Cadmium	7440-43-9	2.5	9.3	0.41	0.08 J	0.06 J	0.09 J
Calcium	7440-70-2	NL	NL	5510	3650	1730	886
Chromium	7440-47-3	30	1500	6.2	10.5	8.2	12.6
Cobalt	7440-48-4	NL	NL	3.6	7.3	5.5	9.1
Copper	7440-50-8	50	270	25.3	15.6	13.6	14.6
Iron	7439-89-6	NL	NL	10900	22100	17200	22500
Lead	7439-92-1	63	1000	318	12.6	12.3	13.7
Magnesium	7439-95-4	NL	NL	1990	4860	3670	4820
Manganese	7439-96-5	1600	10000	156	355	240	259
Mercury	7439-97-6	0.18	2.8	0.095	0.012 J	0.013 J	0.018 J
Nickel	7440-02-0	30	310	9.1	17.3	14.1	19.3
Potassium	7440-09-7	NL	NL	426	652	483	736
Selenium	7782-49-2	3.9	1500	<0.95	<0.75	<0.71	<0.72
Silver	7440-22-4	2	1500	0.16 J	<0.09	<0.08	<0.09
Sodium	7440-23-5	NL	NL	75.5 J	40.6 J	<37.1	60.5 J
Thallium	7440-28-0	NL	NL	0.68 J	<0.38	<0.36	<0.37
Vanadium	7440-62-2	NL	NL	5.6	8.8	7	10.1
Zinc	7440-66-6	109	10000	175	60.2	45.8	59.9
Cyanide (mg/Kg)							
Total Cyanide	57-12-5	27	27	<1.2	1.4	<1.0	<0.84
TOC (mg/Kg)							
TOC	TOC	NL	NL	NA	NA	NA	NA
Percent Solids							
Percent Solids	SOLID	NL	NL	NA	NA	NA	NA

Notes:

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Table 9
Surface Soil VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	SF-06 6/16/2009 SF-6-061609	SF-07 6/16/2009 SF-7-061609	SF-08 6/16/2009 SF-8-061609	SF-09 6/16/2009 SF-9-061609	SF-10 6/16/2009 SF-10-061609	SF-11 6/16/2009 SF-11-061609	SS-12 10/22/2009 SS-12-102209	SS-13 10/22/2009 SS-13-102209	SS-14 10/22/2009 SS-14-102209	SS-15 10/22/2009 SS-15-102209	SS-16 10/22/2009 SS-16-102209	SS-16 DUP 10/22/2009 DUP-1-102209	TP-20 11/3/2008 TP20(1.0-1.5)110308
BTEX (mg/Kg)																
Benzene	71-43-2	0.06	44	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
Ethylbenzene	100-41-4	1	390	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
Toluene	108-88-3	0.7	500	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
Xylenes, Total	1330-20-7	0.26	500	<0.012 U	<0.012 U	<0.013 U	<0.011 U	<0.011 U	<0.011 U	<0.012 U	<0.011 U	<0.012 U	<0.011 U	<0.01 U	<0.011 U	<0.016
Total BTEX		NL	NL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOC (mg/Kg)																
1,1,1-Trichloroethane	71-55-6	0.68	500	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	<0.0060 UJ	<0.0059 UJ	<0.0066 UJ	<0.0056 UJ	<0.0057 U	<0.0053 UJ	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
1,1,2-Trichloroethane	79-00-5	NL	NL	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
1,1-Dichloroethane	75-34-3	0.27	240	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
1,1-Dichloroethene	75-35-4	0.33	500	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
1,2,4-Trichlorobenzene	120-82-1	NL	NL	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
1,2-Dibromoethane	106-93-4	NL	NL	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
1,2-Dichlorobenzene	95-50-1	1.1	500	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
1,2-Dichloroethane	107-06-2	0.02	30	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
1,2-Dichloropropane	78-87-5	NL	NL	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
1,3,5-Trimethylbenzene	108-67-8	8.4	190	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	2.4	280	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
1,3-Dichloropropane	142-28-9	NL	NL	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	1.8	130	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
2-Butanone	78-93-3	0.12	500	<0.03 U	<0.029 U	<0.033 U	<0.028 U	<0.029 U	<0.027 U	<0.03 U	<0.027 U	<0.029 U	<0.029 U	<0.025 U	<0.028 U	<0.027
2-Chloroethyl vinyl ether	110-75-8	NL	NL	<0.03 U	<0.029 U	<0.033 U	<0.028 U	<0.029 U	<0.027 U	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	591-78-6	NL	NL	<0.03 U	<0.029 U	<0.033 U	<0.028 U	<0.029 U	<0.027 U	<0.03 U	<0.027 U	<0.029 U	<0.029 U	<0.025 U	<0.028 U	<0.027
2-Nitropropane	79-46-9	NL	NL	<0.03 U	<0.029 U	<0.033 U	<0.028 U	<0.029 U	<0.027 U	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	108-10-1	NL	NL	<0.03 U	<0.029 U	<0.033 U	<0.028 U	<0.029 U	<0.027 U	<0.03 U	<0.027 U	<0.029 U	<0.029 U	<0.025 U	<0.028 U	<0.027
Acetone	67-64-1	0.05	500	<0.03 U	<0.029 U	<0.033 U	<0.028 U	<0.029 U	<0.027 U	<0.03 U	<0.027 U	<0.029 U	<0.029 U	<0.025 U	<0.028 U	<0.027 U
Bromobenzene	108-86-1	NL	NL	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	75-27-4	NL	NL	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
Bromoform	75-25-2	NL	NL	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
Bromomethane	74-83-9	NL	NL	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
Carbon Disulfide	75-15-0	NL	NL	<0.0060 UJ	<0.0059 UJ	<0.0066 UJ	<0.0056 UJ	<0.0057 UJ	<0.0053 UJ	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
Carbon Tetrachloride	56-23-5	0.76	22	<0.0060 UJ	<0.0059 UJ	<0.0066 UJ	<0.0056 UJ	<0.0057 UJ	<0.0053 UJ	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
Chlorobenzene	108-90-7	1.1	500	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 UJ	<0.0057 U	<0.005
Chloroethane	75-00-3	NL	NL	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
Chloroform	67-66-3	0.37	350	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
Chloromethane	74-87-3	NL	NL	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
cis-1,2-Dichloroethene	156-59-2	0.25	500	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
cis-1,3-Dichloropropene	10061-01-5	NL	NL	<0.0060 UJ	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
Cyclohexane	110-82-7	NL	NL	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
Dibromochloromethane	124-48-1	NL	NL	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
Dichlorodifluoromethane	75-71-8	NL	NL	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
Isopropylbenzene	98-82-8	NL	NL	<0.0060 U	<0.0059 U	<0.0066 U	<0.0056 U	<0.0057 U	<0.0053 U	<0.0060 U	<0.0053 U	<0.0058 U	<0.0057 U	<0.0050 U	<0.0057 U	<0.005
Methyl acetate	79-20-9	NL	NL	<0.												

Table 10
Surface Soil SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	SF-06 6/16/2009 SF-6-061609	SF-07 6/16/2009 SF-7-061609	SF-08 6/16/2009 SF-8-061609	SF-09 6/16/2009 SF-9-061609	SF-10 6/16/2009 SF-10-061609	SF-11 6/16/2009 SF-11-061609	SS-12 10/22/2009 SS-12-102209	SS-13 10/22/2009 SS-13-102209	SS-14 10/22/2009 SS-14-102209	SS-15 10/22/2009 SS-15-102209	SS-16 10/22/2009 SS-16-102209	SS-16 DUP 10/22/2009 DUP-1-102209	TP-20 11/3/2008 P20(1.0-1.5)110306
PAH (mg/Kg)																
2-Methylnaphthalene	91-57-6	NL	NL	0.17 J	0.11 J	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
Acenaphthene	83-32-9	20	500	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	0.073 J	<2 U	0.29 J	<1.8 U	<2 U	<1.8
Acenaphthylene	208-96-8	100	500	1.2 J	0.6 J	0.034 J	<0.2 U	<0.19 U	0.51 J	<0.91 U	0.75 J	<2 U	0.32 J	0.18 J	0.37 J	<1.8
Anthracene	120-12-7	100	500	0.7 J	0.34 J	0.45 J	0.0096 J	0.013 J	<0.19 U	0.32 J	<0.91 U	0.36 J	0.91 J	0.12 J	0.17 J	<1.8
Benzo(a)anthracene	56-55-3	1	5.6	3.2	1.6 J	2 J	0.048 J	0.05 J	0.017 J	1.1 J	0.18 J	1.3 J	3.7	0.57 J	0.93 J	0.19
Benzo(a)pyrene	50-32-8	1	1	2.6	1.8 J	2.2 J	0.074 J	0.043 J	0.016 J	1.3 J	0.14 J	1.5 J	3.9	0.55 J	1 J	0.13
Benzo(b)fluoranthene	205-99-2	1	5.6	6.1 J	2.9 J	4.9 J	0.064 J	0.05 J	0.017 J	2.3 J	0.24 J	2.4	4.6	0.95 J	1.6 J	0.15
Benzo(ghi)perylene	191-24-2	100	500	2 J	1.3 J	1.7 J	0.069 J	0.035 J	0.016 J	0.85 J	<0.91 U	1.2 J	3	0.39 J	0.76 J	0.11
Benzo(k)fluoranthene	207-08-9	0.8	56	<2 UJ	0.94 J	<2.3 UJ	0.034 J	0.027 J	0.0098 J	0.46 J	0.15 J	0.86 J	1.6 J	0.3 J	0.54 J	<1.8
Chrysene	218-01-9	1	56	3.8	2.2	3.1	0.049 J	0.052 J	0.013 J	1.4 J	0.18 J	1.7 J	4	0.57 J	0.97 J	0.095
Dibenzo(a,h)anthracene	53-70-3	0.33	0.56	0.56 J	0.4 J	0.5 J	0.019 J	0.013 J	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
Fluoranthene	206-44-0	100	500	7.2	2.6	3.6	0.061 J	0.11 J	0.027 J	1.6 J	0.24 J	1.9 J	8.1	0.63 J	1.1 J	0.2
Fluorene	86-73-7	30	500	0.22 J	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	0.23 J	<1.8 U	<2 U	<1.8
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	1.8 J	1.2 J	1.5 J	0.052 J	0.031 J	0.013 J	0.88 J	0.091 J	1 J	2.4	0.37 J	0.74 J	<1.8
Naphthalene	91-20-3	12	500	0.14 J	0.11 J	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	3.6	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
Phenanthrene	85-01-8	100	500	3.1	0.82 J	1.1 J	0.021 J	0.079 J	0.012 J	0.36 J	<0.91 U	0.64 J	4.8	0.18 J	0.3 J	<1.8
Pyrene	129-00-0	100	500	6	2.7	4	0.074 J	0.086 J	0.021 J	1.5 J	0.23 J	2	7.8	0.67 J	1.2 J	0.38
Total PAHs		NL	NL	38.79	19.65	25.65	0.6086	0.589	0.1618	12.58	5.124	15.61	45.65	5.48	9.68	1.255
SVOC (mg/Kg)																
1,1'-Biphenyl	92-52-4	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
2,2'-Oxybis(1-Chloropropane)	108-60-1	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
2,4,5-Trichlorophenol	95-95-4	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
2,4,6-Trichlorophenol	88-06-2	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
2,4-Dichlorophenol	120-83-2	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
2,4-Dimethylphenol	105-67-9	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
2,4-Dinitrophenol	51-28-5	NL	NL	<4 U	<3.9 U	<4.5 U	<0.37 U	<0.39 U	<0.36 U	<8 U	<1.8 U	<3.9 U	<3.7 U	<3.4 U	<3.8 U	<3.6
2,4-Dinitrotoluene	121-14-2	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
2,6-Dinitrotoluene	606-20-2	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
2-Chloronaphthalene	91-58-7	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
2-Chlorophenol	95-57-8	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
2-Methylphenol	95-48-7	0.33	500	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
2-Nitroaniline	88-74-4	NL	NL	<4 U	<3.9 U	<4.5 U	<0.37 U	<0.39 U	<0.36 U	<8 U	<1.8 U	<3.9 U	<3.7 U	<3.4 U	<3.8 U	<3.6
2-Nitrophenol	88-75-5	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
3,3'-Dichlorobenzidine	91-94-1	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
3-Nitroaniline	99-09-2	NL	NL	<4 U	<3.9 U	<4.5 U	<0.37 U	<0.39 U	<0.36 U	<8 U	<1.8 U	<3.9 U	<3.7 U	<3.4 U	<3.8 U	<3.6
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	<4 U	<3.9 U	<4.5 U	<0.37 U	<0.39 U	<0.36 U	<8 U	<1.8 U	<3.9 U	<3.7 U	<3.4 U	<3.8 U	<3.6
4-Bromophenyl phenyl ether	101-55-3	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
4-Chloro-3-methylphenol	59-50-7	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
4-Chloroaniline	106-47-8	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
4-Methylphenol	106-44-5	0.33	500	<4 U	<3.9 U	<4.5 U	<0.37 U	<0.39 U	<0.36 U	<8 U	<1.8 U	<3.9 U	<3.7 U	<3.4 U	<3.8 U	<1.8
4-Nitroaniline	100-01-6	NL	NL	<4 U	<3.9 U	<4.5 U	<0.37 U	<0.39 U	<0.36 U	<8 U	<1.8 U	<3.9 U	<3.7 U	<3.4 U	<3.8 U	<3.6
4-Nitrophenol	100-02-7	NL	NL	<4 U	<3.9 U	<4.5 U	<0.37 U	<0.39 U	<0.36 U	<8 U	<1.8 U	<3.9 U	<3.7 U	<3.4 U	<3.8 U	<3.6
Acetophenone	98-86-2	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
Atrazine	1912-24-9	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
Benzaldehyde	100-52-7	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	0.25 J	<2 U	<1.8
Bis(2-chloroethoxy) methane	111-91-1	NL	NL	<2 UJ	<2 UJ	<2.3 UJ	<0.19 UJ	<0.2 UJ	<0.19 UJ	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
Bis(2-chloroethyl) ether	111-44-4	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
Bis(2-ethylhexyl) phthalate	117-81-7	NL	NL	<2 U	<2 U	<2.3 U	0.23	<0.2 U	0.087 J	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
Butyl benzyl phthalate	85-68-7	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
Caprolactam	105-60-2	NL	NL	<2 U	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
Carbazole	86-74-8	NL	NL	0.45 J	0.16 J	0.33 J	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	0.12 J	0.4 J	<1.8 U	<2 U	<1.8
Dibenzofuran	132-64-9	7	350	0.16 J	<2 U	<2.3 U	<0.19 U	<0.2 U	<0.19 U	<4.1 U	<0.91 U	<2 U	<1.9 U	<1.8 U	<2 U	<1.8
Diethyl phthalate	84-66-2															

Table 11
Surface Soil Metals and Cyanide Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Part 375-6 Unrestricted Use	NYSDEC Part 375-6 Commercial Use	SF-06 6/16/2009 SF-6-061609	SF-07 6/16/2009 SF-7-061609	SF-08 6/16/2009 SF-8-061609	SF-09 6/16/2009 SF-9-061609	SF-10 6/16/2009 SF-10-061609	SF-11 6/16/2009 SF-11-061609	SS-12 10/22/2009 SS-12-102209	SS-13 10/22/2009 SS-13-102209	SS-14 10/22/2009 SS-14-102209	SS-15 10/22/2009 SS-15-102209	SS-16 10/22/2009 SS-16-102209	SS-16 DUP 10/22/2009 DUP-1-102209	TP-20 11/3/2008 TP20(1.0-1.5)110308
Metals (mg/Kg)																
Aluminum	7429-90-5	NL	NL	1920 J	4370 J	2830 J	7340 J	9750 J	8360 J	2290	1070	4250	3570	3090	3190	1580
Antimony	7440-36-0	NL	NL	0.6 J	<19.3 U	0.7 J	<18.6 U	<19.1 U	<15.1 U	<19.0 UJ	<16.7 UJ	<16.8 U	<18.2 U	<15.1 U	<17.3 U	<0.64
Arsenic	7440-38-2	13	16	18.5 J	6.8 J	12.0 J	4.3 J	3.8 J	3.4 J	9.7	5.1	14.1	8.7	6.4	6.9	8.4
Barium	7440-39-3	350	400	43.6 J	50.1 J	51.1 J	28.3 J	31.8 J	28.0 J	31.9	13.8	46.2	53.8	36.9	45.1	27.4
Beryllium	7440-41-7	7.2	590	<0.2 U	0.317	<0.2 U	<0.2 U	<0.2 U	<0.2 U	0.313	0.309	0.247	0.287	0.23	0.243	0.08 J
Cadmium	7440-43-9	2.5	9.3	<0.236 U	<0.258 U	0.077 J	0.106 J	<0.255 U	<0.201 U	0.150 J	0.082 J	0.205 J	4.39	0.128 J	0.168 J	<0.05
Calcium	7440-70-2	NL	NL	1950 J	4080 J	2130 J	1980 J	1690 J	1240 J	87800	121000	2390	1910	25600	27800	34.1 J
Chromium	7440-47-3	30	1500	5.65	5.49	6.08	8.12	9.58	8.38	6.28	3.55	8.94	8.04	6.54	7.46	2.2
Cobalt	7440-48-4	NL	NL	2.29	5.2	8.32	5.78	7.71	6.48	3.41	1.75	5.86	6.73	3.88	4.07	1.7
Copper	7440-50-8	50	270	20.7 J	35.9 J	91.7 J	13.2 J	14.0 J	9.9 J	18.5	5.4	57.4	107	39.1	43.4	19
Iron	7439-89-6	NL	NL	11100	13800	23000	16000	20400	18200	10700	5220	14800	19500	9610	10300	10200
Lead	7439-92-1	63	1000	38.6	49.3	247	14.4	10.1	12.5	29.1	12.3	84.4	341	57.5	60.4	68.9
Magnesium	7439-95-4	NL	NL	514	1520	1040	3820	4990	4330	37500	50500	1620	1290	10600	12400	687
Manganese	7439-96-5	1600	10000	89.8 J	232 J	276 J	387 J	461 J	383 J	210 J	165 J	334 J	215 J	238 J	247 J	29
Mercury	7439-97-6	0.18	2.8	0.0365	0.0501	0.0573	0.0152 J	0.0199 J	0.0474							0.012 J
Nickel	7440-02-0	30	310	4.91	9.39	8.96	13.7	17.9	15.5	7.82	4.57 J	13.1	13.9	8.94	9.55	3.7
Potassium	7440-09-7	NL	NL	255	580	367	563	645	519	691	618	624	494	838	980	922
Selenium	7782-49-2	3.9	1500	<4.7 U	0.8 J	1.1 J	<5.0 U	<5.1 U	<4.0 U	<5.1 U	<4.5 U	<4.5 U	<4.8 U	<4.0 U	<4.6 U	<0.70
Silver	7440-22-4	2	1500	0.100 J	0.115 J	<0.653 U	<0.621 U	<0.638 U	<0.503 U	<0.634 U	<0.557 U	<0.561 U	<0.605 U	<0.504 U	<0.578 U	<0.08
Sodium	7440-23-5	NL	NL	<165 U	40.3 J	41.6 J	<174 U	<179 U	<141 U	95.4 J	102 J	67.8 J	54.9 J	52.3 J	68.0 J	54.2 J
Thallium	7440-28-0	NL	NL	<7.1 U	<7.7 U	<7.8 U	<7.5 U	<7.7 U	<6.0 U	0.8 J	0.4 J	1.7 J	1.7 J	1.0 J	1.3 J	<0.36
Vanadium	7440-62-2	NL	NL	8.37	7.69	8.64	6.6	8.13	7.27	7.61	5.25	9.06	11.2	6.5	7.96	9.1
Zinc	7440-66-6	109	10000	24.3	69.7	53.9	85.4	61.2	53.7	29.5	17.1	78	79	53.1	59.6	20.4
Cyanide (mg/kg)																
Total Cyanide	57-12-5	27	27	<1.1 U	<1.0 U	62.9	<1.0 U	<0.9 U	<1.0 U	<1.0 U	<0.8 U	<1.1 U	<0.8 U	<0.8 U	<1.0 U	<1.1

Notes:
NA = Not Applicable
NL = No Limit
mg/Kg = milligram per kilogram
Bold Values Exceed NYSDEC Part 375-6 Unrestricted Use
Yellow Highlighted Values Exceed NYSDEC Part 375-6 Commercial Use
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 12
Surface Sediment VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	ERL	ERM	SD-01 10/8/2008 SD01-100808	SD-02 10/8/2008 SD02-100808	SD-03 10/8/2008 SD03-100808	SD-04 10/8/2008 SD04-100808	SD-05 10/8/2008 SD05-100808	SD-06 10/8/2008 SD06-100808	SD-07 10/8/2008 SD07-100808	SD-08 10/8/2008 SD08-100808	SD-09 10/8/2008 SD09-100808	SD-10 10/8/2008 SD10-100808	SD-11 10/8/2008 SD11-100808	SD-12 10/8/2008 SD12-100808	SD-13 10/8/2008 SD13-100808	SD-14 10/8/2008 SD14-100808
BTEx (mg/Kg)																	
Benzene	71-43-2	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Ethylbenzene	100-41-4	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Toluene	108-88-3	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Xylenes, Total	1330-20-7	NL	NL	<0.016 U	<0.016 U	<0.016 U	<0.017 U	<0.017 U	<0.015 U	<0.016 U	<0.016 U	<0.016 U	<0.016 U	<0.016 U	<0.016 U	<0.016 U	<0.016 U
VOC (mg/Kg)																	
1,1,1-Trichloroethane	71-55-6	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
1,1,2-Trichloroethane	79-00-5	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
1,1-Dichloroethane	75-34-3	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
1,1-Dichloroethene	75-35-4	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
1,2,4-Trichlorobenzene	120-82-1	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
1,2-Dibromoethane	106-93-4	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
1,2-Dichlorobenzene	95-50-1	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
1,2-Dichloroethane	107-06-2	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
1,2-Dichloropropane	78-87-5	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
1,3-Dichlorobenzene	541-73-1	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
1,4-Dichlorobenzene	106-46-7	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
2-Butanone	78-93-3	NL	NL	<0.026 U	<0.026 U	<0.026 U	<0.028 U	<0.028 U	<0.026 U	<0.026 U	<0.028 U	<0.026 U	<0.027 U	<0.026 U	<0.027 U	<0.026 U	<0.026 U
2-Hexanone	591-78-6	NL	NL	<0.026 U	<0.026 U	<0.026 U	<0.028 U	<0.028 U	<0.026 U	<0.026 U	<0.028 U	<0.026 U	<0.027 U	<0.026 U	<0.027 U	<0.026 U	<0.026 U
4-Methyl-2-pentanone	108-10-1	NL	NL	<0.026 U	<0.026 U	<0.026 U	<0.028 U	<0.028 U	<0.026 U	<0.026 U	<0.028 U	<0.026 U	<0.027 U	<0.026 U	<0.027 U	<0.026 U	<0.026 U
Acetone	67-64-1	NL	NL	<0.026 U	<0.026 U	<0.026 U	<0.028 U	<0.028 U	<0.026 U	<0.026 U	<0.028 U	<0.026 U	<0.027 U	<0.026 U	<0.027 U	<0.026 U	<0.026 U
Benzene	71-43-2	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Ethylbenzene	100-41-4	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Toluene	108-88-3	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Xylenes, Total	1330-20-7	NL	NL	<0.016 U	<0.016 U	<0.016 U	<0.017 U	<0.017 U	<0.015 U	<0.016 U	<0.016 U	<0.016 U	<0.016 U	<0.016 U	<0.016 U	<0.016 U	<0.016 U
Bromodichloromethane	75-27-4	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Bromoform	75-25-2	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Bromomethane	74-83-9	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Carbon Disulfide	75-15-0	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Carbon Tetrachloride	56-23-5	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Chlorobenzene	108-90-7	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Chloroethane	75-00-3	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Chloroform	67-66-3	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Chloromethane	74-87-3	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
cis-1,2-Dichloroethene	156-59-2	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Cyclohexane	110-82-7	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Dibromochloromethane	124-48-1	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Dichlorodifluoromethane	75-71-8	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Isopropylbenzene	98-82-8	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Methyl acetate	79-20-9	NL	NL	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.006 UJ	<0.006 UJ	<0.005 UJ	<0.005 UJ	<0.006 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.005 UJ
Methylcyclohexane	108-87-2	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Methylene chloride	75-09-2	NL	NL	0.006 J	0.004 J	0.002 J	0.002 J	<0.006 UJ	0.002 J	0.003 J	0.002 J	0.004 J	0.004 J	0.003 J	0.004 J	0.004 J	0.004 J
Methyl-t-Butyl Ether (MTBE)	1634-04-4	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Styrene	100-42-5	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Tetrachloroethene	127-18-4	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
trans-1,2-Dichloroethene	156-60-5	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Trichloroethene	79-01-6	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Trichlorofluoromethane	75-69-4	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U	<0.005 U
Vinyl chloride	75-01-4	NL	NL	<0.01 U	<0.01 U	<0.01 U	<0.011 U	<0.011 U	<0.01 U	<0.01 U	<0.011 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U

Notes:

NA = Not Applicable
NL = No Limit
mg/Kg = milligram per kilogram

Bold Values Exceed ERL

Yellow Highlighted Values Exceed ERM

U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.

J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.

R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample

and meet the quality control criteria. The presence of absence of the analyte cannot be verified. N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

D = Diluted run

Table 12
Surface Sediment VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	ERL	ERM	SD-15 10/8/2008 SD15-100808	SD-16 10/8/2008 SD16-100808	SD-17 10/8/2008 SD17-100808	SD-18 10/8/2008 SD18-100808	SD-19 10/8/2008 SD19-100808	SD-19D 10/8/2008 SD190-100808	SD-20 10/8/2008 SD20-100808	SD-21 10/8/2008 SD21-100808	SD-22 10/8/2008 SD22-100808	SD-23 10/8/2008 SD23-100808	SD-24 10/8/2008 SD24-100808	SD-25 10/8/2008 SD25-100808	SD-26 10/8/2008 SD26-100808	SD-27 8/26/2009 SD-27-082609
BTEX (mg/Kg)																	
Benzene	71-43-2	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Ethylbenzene	100-41-4	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Toluene	108-88-3	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Xylenes, Total	1330-20-7	NL	NL	<0.016 U	<0.015 U	<0.017 U	<0.016 U	<0.016 U	<0.016 U	<0.016 U	<0.017 U	<0.016 U	<0.016 U	<0.016 U	<0.015 U	<0.016 U	<0.014 U
VOC (mg/Kg)																	
1,1,1-Trichloroethane	71-55-6	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	R
1,1,2-Trichloroethane	79-00-5	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
1,1-Dichloroethane	75-34-3	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
1,1-Dichloroethene	75-35-4	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
1,2,4-Trichlorobenzene	120-82-1	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
1,2-Dibromoethane	106-93-4	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
1,2-Dichlorobenzene	95-50-1	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
1,2-Dichloroethane	107-06-2	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
1,2-Dichloropropane	78-87-5	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
1,3-Dichlorobenzene	541-73-1	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
1,4-Dichlorobenzene	106-46-7	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
2-Butanone	78-93-3	NL	NL	<0.026 U	<0.025 U	<0.028 U	<0.026 U	<0.027 U	<0.028 U	<0.027 U	<0.028 U	<0.027 U	<0.028 U	<0.027 U	<0.025 U	<0.028 U	<0.035 U
2-Hexanone	591-78-6	NL	NL	<0.026 U	<0.025 U	<0.028 U	<0.026 U	<0.027 U	<0.028 U	<0.027 U	<0.028 U	<0.027 U	<0.028 U	<0.027 U	<0.025 U	<0.028 U	<0.035 U
4-Methyl-2-pentanone	108-10-1	NL	NL	<0.026 U	<0.025 U	<0.028 U	<0.026 U	<0.027 U	<0.028 U	<0.027 U	<0.028 U	<0.027 U	<0.028 U	<0.027 U	<0.025 U	<0.028 U	<0.035 U
Acetone	67-64-1	NL	NL	<0.026 U	<0.025 U	<0.028 U	<0.026 U	<0.027 U	<0.028 U	<0.027 U	<0.028 U	<0.027 U	<0.028 U	<0.027 U	<0.025 U	<0.028 U	0.011 J
Benzene	71-43-2	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Ethylbenzene	100-41-4	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Toluene	108-88-3	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Xylenes, Total	1330-20-7	NL	NL	<0.016 U	<0.015 U	<0.017 U	<0.016 U	<0.016 U	<0.016 U	<0.016 U	<0.017 U	<0.016 U	<0.016 U	<0.016 U	<0.015 U	<0.016 U	<0.014 U
Bromodichloromethane	75-27-4	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Bromoform	75-25-2	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Bromomethane	74-83-9	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Carbon Disulfide	75-15-0	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Carbon Tetrachloride	56-23-5	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Chlorobenzene	108-90-7	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Chloroethane	75-00-3	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Chloroform	67-66-3	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Chloromethane	74-87-3	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
cis-1,2-Dichloroethene	156-59-2	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Cyclohexane	110-82-7	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 UJ
Dibromochloromethane	124-48-1	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Dichlorodifluoromethane	75-71-8	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Isopropylbenzene	98-82-8	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Methyl acetate	79-20-9	NL	NL	<0.005 UJ	<0.005 UJ	<0.006 UJ	<0.005 UJ	<0.005 UJ	<0.006 UJ	<0.005 UJ	<0.006 UJ	<0.005 UJ	<0.006 UJ	<0.005 UJ	<0.005 UJ	<0.006 UJ	<0.0069 U
Methylcyclohexane	108-87-2	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Methylene chloride	75-09-2	NL	NL	0.005	<0.005 U	0.003 J	0.003 J	0.007	0.004 J	0.003 J	0.002 J	<0.005 UJ	0.002 J	<0.005 UJ	<0.005 UJ	<0.006 UJ	0.014 J
Methyl-t-Butyl Ether (MTBE)	1634-04-4	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Styrene	100-42-5	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Tetrachloroethene	127-18-4	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
trans-1,2-Dichloroethene	156-60-5	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Trichloroethene	79-01-6	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Trichlorofluoromethane	75-69-4	NL	NL	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.006 U	<0.005 U	<0.005 U	<0.006 U	<0.0069 U
Vinyl chloride	75-01-4	NL	NL	<0.01 U	<0.01 U	<0.011 U	<0.01 U	<0.011 U	<0.011 U	<0.011 U	<0.011 U	<0.011 U	<0.011 U	<0.011 U	<0.01 U	<0.011 U	<0.014 U

Notes:

NA = Not Applicable
NL = No Limit
mg/Kg = milligram per kilogram

Bold Values Exceed ERL

Yellow Highlighted Values Exceed ERM

U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.

J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.

R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence or absence of the analyte cannot be verified.

N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

D = Diluted run

Table 12
Surface Sediment VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	ERL	ERM	SD-27 8/26/2009 SD-270-082609	SD-28 8/26/2009 SD-28-082609	SD-29 8/26/2009 SD-29-082609	SD-30 8/26/2009 SD-30-082609	SD-31 8/26/2009 SD-31-082609	SD-32 8/26/2009 SD-32-082609	SD-33 8/26/2009 SD-33-082609	SD-34 8/26/2009 SD-34-082609	SD-35 8/26/2009 SD-35-082609	SD-36 8/26/2009 SD-36-082609	SD-37 8/26/2009 SD-37-082609	SD-38 8/26/2009 SD-38-082609
BTEX (mg/Kg)															
Benzene	71-43-2	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Ethylbenzene	100-41-4	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Toluene	108-88-3	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Xylenes, Total	1330-20-7	NL	NL	<0.014 U	<0.014 U	<0.013 U	<0.015 U	<0.016 U	<0.012 U	<0.012 U	<0.018 U	<0.014 U	<0.015 U	<0.015 U	<0.013 U
VOC (mg/Kg)															
1,1,1-Trichloroethane	71-55-6	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	R	R	R	R	R	R	R	R	R	R	R	R
1,1,2-Trichloroethane	79-00-5	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
1,1-Dichloroethane	75-34-3	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
1,1-Dichloroethene	75-35-4	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
1,2,4-Trichlorobenzene	120-82-1	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
1,2-Dibromoethane	106-93-4	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
1,2-Dichlorobenzene	95-50-1	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
1,2-Dichloroethane	107-06-2	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
1,2-Dichloropropane	78-87-5	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
1,3-Dichlorobenzene	541-73-1	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
1,4-Dichlorobenzene	106-46-7	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
2-Butanone	78-93-3	NL	NL	<0.035 U	<0.035 U	<0.032 U	<0.037 U	<0.041 U	<0.03 U	<0.029 U	<0.046 U	<0.034 U	<0.038 U	<0.038 U	<0.032 U
2-Hexanone	591-78-6	NL	NL	<0.035 U	<0.035 U	<0.032 U	<0.037 U	<0.041 U	<0.03 U	<0.029 U	<0.046 U	<0.034 U	<0.038 U	<0.038 U	<0.032 U
4-Methyl-2-pentanone	108-10-1	NL	NL	<0.035 U	<0.035 U	<0.032 U	<0.037 U	<0.041 U	<0.03 U	<0.029 U	<0.046 U	<0.034 U	<0.038 U	<0.038 U	<0.032 U
Acetone	67-64-1	NL	NL	0.0078 J	R	R	R	R	R	R	0.0053 J	0.0097 J	R	0.015 J	R
Benzene	71-43-2	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Ethylbenzene	100-41-4	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Toluene	108-88-3	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Xylenes, Total	1330-20-7	NL	NL	<0.014 U	<0.014 U	<0.013 U	<0.015 U	<0.016 U	<0.012 U	<0.012 U	<0.018 U	<0.014 U	<0.015 U	<0.015 U	<0.013 U
Bromodichloromethane	75-27-4	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Bromoform	75-25-2	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Bromomethane	74-83-9	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Carbon Disulfide	75-15-0	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Carbon Tetrachloride	56-23-5	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Chlorobenzene	108-90-7	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Chloroethane	75-00-3	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Chloroform	67-66-3	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Chloromethane	74-87-3	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
cis-1,2-Dichloroethene	156-59-2	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Cyclohexane	110-82-7	NL	NL	<0.0070 UJ	<0.0071 UJ	<0.0065 UJ	<0.0074 UJ	<0.0082 UJ	<0.0060 UJ	<0.0058 UJ	<0.0092 UJ	<0.0068 UJ	<0.0077 UJ	<0.0076 UJ	<0.0064 UJ
Dibromochloromethane	124-48-1	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Dichlorodifluoromethane	75-71-8	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Isopropylbenzene	98-82-8	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Methyl acetate	79-20-9	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Methylcyclohexane	108-87-2	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Methylene chloride	75-09-2	NL	NL	0.014 J	<0.013 U	<0.012 U	0.015 J	<0.011 U	<0.0092 U	<0.0093 U	<0.0092 U	<0.0083 U	<0.012 U	<0.0076 U	<0.0074 U
Methyl-t-Butyl Ether (MTBE)	1634-04-4	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Styrene	100-42-5	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Tetrachloroethene	127-18-4	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
trans-1,2-Dichloroethene	156-60-5	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Trichloroethene	79-01-6	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Trichlorofluoromethane	75-69-4	NL	NL	<0.0070 U	<0.0071 U	<0.0065 U	<0.0074 U	<0.0082 U	<0.0060 U	<0.0058 U	<0.0092 U	<0.0068 U	<0.0077 U	<0.0076 U	<0.0064 U
Vinyl chloride	75-01-4	NL	NL	<0.014 U	<0.014 U	<0.013 U	<0.015 U	<0.016 U	<0.012 U	<0.012 U	<0.018 U	<0.014 U	<0.015 U	<0.015 U	<0.013 U

Notes:

NA = Not Applicable

NL = No Limit

mg/Kg = milligram per kilogram

Bold Values Exceed ERL

Yellow Highlighted Values Exceed ERM

U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.

J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.

R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.

N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

D = Diluted run

Table 13
Surface Sediment SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	ERL	ERM	SD-01 10/8/2008 SD01-100808	SD-02 10/8/2008 SD02-100808	SD-03 10/8/2008 SD03-100808	SD-04 10/8/2008 SD04-100808	SD-05 10/8/2008 SD05-100808	SD-06 10/8/2008 SD06-100808	SD-07 10/8/2008 SD07-100808	SD-08 10/8/2008 SD08-100808	SD-09 10/8/2008 SD09-100808	SD-10 10/8/2008 SD10-100808	SD-11 10/8/2008 SD11-100808	SD-12 10/8/2008 SD12-100808	SD-13 10/8/2008 SD13-100808	SD-14 10/8/2008 SD14-100808	SD-15 10/8/2008 SD15-100808	SD-16 10/8/2008 SD16-100808	SD-17 10/8/2008 SD17-100808	SD-18 10/8/2008 SD18-100808	SD-19 10/8/2008 SD19-100808	SD-19D 10/8/2008 SD190-100808
PAH (mg/Kg)																							
2-Methylnaphthalene	91-57-6	0.07	0.67	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U
Acenaphthene	83-32-9	0.016	0.5	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	0.008 J	<0.19 U	<0.19 U	0.015 J	0.009 J	<0.18 U	<0.18 U	<0.18 U
Acenaphthylene	208-96-8	0.044	0.64	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U
Anthracene	120-12-7	0.0853	1.1	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	0.012 J	<0.18 U	<0.18 U	<0.18 U
Benzo(a)anthracene	56-55-3	0.261	1.6	<0.89 U	<0.18 U	<0.18 U	<0.18 U	0.008 J	<0.18 U	0.008 J	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	0.017 J	0.007 J	0.016 J	0.017 J	<0.18 U	0.014 J
Benzo(a)pyrene	50-32-8	0.43	1.6	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	0.009 J	<0.18 U	0.012 J	0.012 J	<0.18 U	0.014 J
Benzo(b)fluoranthene	205-99-2	NL	NL	<0.89 U	<0.18 U	0.008 J	<0.18 U	<0.19 U	<0.18 U	0.007 J	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	0.011 J	<0.18 U	0.011 J	0.018 J	<0.18 U	0.014 J
Benzo(ghi)perylene	191-24-2	NL	NL	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	0.011 J	0.014 J	<0.18 U	0.013 J
Benzo(k)fluoranthene	207-08-9	NL	NL	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	0.011 J	<0.18 U	<0.18 U	0.009 J
Chrysene	218-01-9	0.384	2.8	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	0.009 J	<0.18 U	0.013 J	0.011 J	<0.18 U	0.012 J
Dibenzo(a,h)anthracene	53-70-3	0.0634	0.26	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U
Fluoranthene	206-44-0	0.6	5.1	<0.89 U	<0.18 U	0.011 J	<0.18 U	<0.19 U	<0.18 U	0.008 J	<0.18 U	0.007 J	<0.17 U	<0.18 U	<0.18 U	0.007 J	0.009 J	0.022 J	0.012 J	0.042 J	0.033 J	<0.18 U	0.03 J
Fluorene	86-73-7	0.019	0.54	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U
Indeno(1,2,3-cd)pyrene	193-39-5	NL	NL	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	0.009 J	0.01 J	<0.18 U	0.01 J
Naphthalene	91-20-3	0.16	2.1	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U
Phenanthrene	85-01-8	0.24	1.5	<0.89 U	<0.18 U	0.009 J	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	0.023 J	0.015 J	0.026 J	0.03 J	0.054 J	0.019 J	<0.18 U	0.029 J
Pyrene	129-00-0	0.665	2.6	<0.89 U	<0.18 U	0.008 J	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	0.01 J	0.009 J	0.018 J	0.013 J	0.049 J	0.028 J	<0.18 U	0.024 J
Total PAH (mg/kg)	na	4.02	44.8	ND	ND	0.036	ND	0.008	ND	0.023	ND	0.007	ND	ND	ND	0.048	0.033	0.122	0.077	0.249	0.162	ND	0.169
SVOC (mg/Kg)																							
1,1'-Biphenyl	92-52-4	NL	NL	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U
2,2'-Oxybis(1-Chloropropane)	108-60-1	NL	NL	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U
2,4-Dichlorophenol	120-83-2	NL	NL	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U
2,4-Dimethylphenol	105-67-9	NL	NL	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U
2,4-Dinitrophenol	51-28-5	NL	NL	<1.7 U	<0.34 U	<0.35 U	<0.35 U	<0.37 U	<0.35 U	<0.35 U	<0.34 U	<0.35 U	<0.34 U	<0.35 U	<0.34 U	<0.34 U	<0.36 U	<0.37 U	<0.34 U	<0.35 U	<0.36 U	<0.35 U	<0.36 U
2,4-Dinitrotoluene	121-14-2	NL	NL	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U
2,6-Dinitrotoluene	606-20-2	NL	NL	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U
2-Chloronaphthalene	91-58-7	NL	NL	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U
2-Chlorophenol	95-57-8	NL	NL	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U
2-Methylphenol	95-48-7	NL	NL	<0.89 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.17 U	<0.18 U	<0.18 U	<0.18 U	<0.19 U	<0.19 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U	<0.18 U
2-Nitroaniline	88-74-4	NL	NL	<1.7 U	<0.34 U	<0.35 U	<0.35 U	<0.37 U	<0.35 U	<0.35 U	<0.34 U	<0.35 U	<										

Table 13
Surface Sediment SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	ERL	ERM	SD-20 10/8/2008 SD20-100808	SD-21 10/8/2008 SD21-100808	SD-22 10/8/2008 SD22-100808	SD-23 10/8/2008 SD23-100808	SD-24 10/8/2008 SD24-100808	SD-25 10/8/2008 SD25-100808	SD-26 10/8/2008 SD26-100808	SD-27 8/26/2009 SD-27-082609	SD-27 8/26/2009 SD-270-082609	SD-28 8/26/2009 SD-28-082609	SD-29 8/26/2009 SD-29-082609	SD-30 8/26/2009 SD-30-082609	SD-31 8/26/2009 SD-31-082609	SD-32 8/26/2009 SD-32-082609	SD-33 8/26/2009 SD-33-082609	SD-34 8/26/2009 SD-34-082609	SD-35 8/26/2009 SD-35-082609	SD-36 8/26/2009 SD-36-082609	SD-37 8/26/2009 SD-37-082609	SD-38 8/26/2009 SD-38-082609
PAH (mg/Kg)																							
2-Methylnaphthalene	91-57-6	0.07	0.67	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
Acenaphthene	83-32-9	0.016	0.5	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
Acenaphthylene	208-96-8	0.044	0.64	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
Anthracene	120-12-7	0.0853	1.1	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
Benzo(a)anthracene	56-55-3	0.261	1.6	0.009 J	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	0.35 J	0.22 J	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
Benzo(a)pyrene	50-32-8	0.43	1.6	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
Benzo(b)fluoranthene	205-99-2	NL	NL	0.009 J	0.008 J	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	0.38 J	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
Benzo(ghi)perylene	191-24-2	NL	NL	0.008 J	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
Benzo(k)fluoranthene	207-08-9	NL	NL	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
Chrysene	218-01-9	0.384	2.8	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	0.44 J	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
Dibenzo(a,h)anthracene	53-70-3	0.0634	0.26	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
Fluoranthene	206-44-0	0.6	5.1	0.014 J	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
Fluorene	86-73-7	0.019	0.54	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
Indeno(1,2,3-cd)pyrene	193-39-5	NL	NL	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
Naphthalene	91-20-3	0.16	2.1	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
Phenanthrene	85-01-8	0.24	1.5	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	0.009 J	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
Pyrene	129-00-0	0.665	2.6	0.01 J	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	0.49 J	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
Total PAH (mg/kg)	na	4.02	44.8	0.05	0.008	ND	ND	0.009	ND	ND	1.66	0.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOC (mg/Kg)																							
1,1'-Biphenyl	92-52-4	NL	NL	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
2,2'-Oxybis(1-Chloropropane)	108-60-1	NL	NL	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
2,4-Dichlorophenol	120-83-2	NL	NL	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
2,4-Dimethylphenol	105-67-9	NL	NL	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
2,4-Dinitrophenol	51-28-5	NL	NL	<0.36 U	<0.36 U	<0.35 UJ	<0.36 U	<0.36 U	<0.36 U	<0.38 U	<4.6 U	<4.6 U	<2.3 U	<2.2 U	<2.4 U	<2.7 U	<2 U	<0.4 U	<12 U	<2.4 U	<5.2 U	<10 U	<2.1 U
2,4-Dinitrotoluene	121-14-2	NL	NL	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
2,6-Dinitrotoluene	606-20-2	NL	NL	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
2-Chloronaphthalene	91-58-7	NL	NL	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
2-Chlorophenol	95-57-8	NL	NL	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
2-Methylphenol	95-48-7	NL	NL	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
2-Nitroaniline	88-74-4	NL	NL	<0.36 U	<0.36 U	<0.35 UJ	<0.36 U	<0.36 U	<0.36 U	<0.38 U	<4.6 U	<4.6 U	<2.3 U	<2.2 U	<2.4 U	<2.7 U	<2 U	<0.4 U	<12 U	<2.4 U	<5.2 U	<10 U	<2.1 U
2-Nitrophenol	88-75-5	NL	NL	<0.18 U	<0.18 U	<0.18 UJ	<0.18 U	<0.19 U	<0.18 U	<0.2 U	<2.4 U	<2.4 U	<1.2 U	<1.1 U	<1.3 U	<1.4 U	<1 U	<0.2 U	<6.3 U	<1.2 U	<2.7 U	<5.2 U	<1.1 U
3,3'-Dichlorobenzidine																							

Table 14
Surface Sediment Metals and Cyanide Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	LEL	SEL	SD-01 10/8/2008 SD01-100808	SD-02 10/8/2008 SD02-100808	SD-03 10/8/2008 SD03-100808	SD-04 10/8/2008 SD04-100808	SD-05 10/8/2008 SD05-100808	SD-06 10/8/2008 SD06-100808	SD-07 10/8/2008 SD07-100808	SD-08 10/8/2008 SD08-100808	SD-09 10/8/2008 SD09-100808	SD-10 10/8/2008 SD10-100808	SD-11 10/8/2008 SD11-100808	SD-12 10/8/2008 SD12-100808	SD-13 10/8/2008 SD13-100808	SD-14 10/8/2008 SD14-100808	SD-15 10/8/2008 SD15-100808
Metals (mg/Kg)																		
Aluminum	7429-90-5	NL	NL	4620 J	6860 J	7350 J	5970 J	5630 J	6880 J	7040 J	3820 J	4590 J	4890 J	6490 J	7300 J	7200 J	6280 J	7590 J
Antimony	7440-36-0	2.00	25.00	<0.53 U	<0.57 U	<0.61 U	<0.55 U	<0.67 U	<0.64 U	<0.61 U	<0.52 U	<0.60 U	<0.57 U	<0.60 U	<0.62 U	<0.61 U	<0.61 U	<0.64 U
Arsenic	7440-38-2	6.00	33.00	3.3	3.7	3.3	3.4	6.7	3.9	3.5	<1.9 U	<2.3 U	2.6	3.7	4.8	3.5	4.1	3.6
Barium	7440-39-3	NL	NL	25.0 J	18.1 J	26.0 J	19.8 J	23.2 J	20.1 J	19.7 J	9.8 J	15.0 J	17.2 J	19.4 J	29.1 J	25.3 J	17.4 J	23.9 J
Beryllium	7440-41-7	NL	NL	0.08 J	0.11 J	0.14 J	0.11 J	0.14 J	0.12 J	0.11 J	0.06 J	0.07 J	0.10 J	0.10 J	0.13 J	0.11 J	0.09 J	0.12 J
Cadmium	7440-43-9	0.60	9.00	0.18 J	0.19 J	0.23	0.21	0.25 J	0.22 J	0.26	0.12 J	0.18 J	0.20 J	0.24	0.28	0.24	0.22 J	0.25
Calcium	7440-70-2	Nutrient	Nutrient	491	647	1010	926	984	961	1350	1250	809	955	2460	1220	801	2250	1010
Chromium	7440-47-3	26.00	110.00	4.1	6.3	6.4	6	5.7	6.6	6.9	3.5	4.4	5.5	6.9	7.4	6.7	5.7	7
Cobalt	7440-48-4	NL	NL	4.4	5.6	10.7	5.1	4.8	4.9	5.9	2.8	4	3.6	5.5	7.4	5.6	8.6	5.7
Copper	7440-50-8	16.00	110.00	7.8	9.2	8.7	8.6	11.2	8.6	7.9	4.3	8.1	9.8	19.5	10.5	9.5	9.5	7.7
Iron	7439-89-6	Nutrient	Nutrient	11000	15800	17100	13700	14400	16700	16500	8000	10200	11900	15300	17100	16100	14300	17000
Lead	7439-92-1	31.00	110.00	6.7	6.5	9.2	24.2	11.5	8.6	9.8	4.3	6	8.1	198	7.8	7.5	14.3	7.2
Magnesium	7439-95-4	Nutrient	Nutrient	2300	3610	3980	3210	2840	4090	3830	2590	2490	2240	3300	3820	3610	3410	4170
Manganese	7439-96-5	460.00	1,100.00	568 J	326 J	582 J	374 J	382 J	316 J	351 J	350 J	423 J	282 J	409 J	722 J	368 J	229 J	411 J
Mercury	7439-97-6	0.20	1.30	<0.009 U	<0.008 U	<0.008 U	<0.008 U	<0.009 U	<0.009 U	<0.009 U	<0.009 U	<0.009 U	0.010 J	<0.009 U	<0.009 U	<0.008 U	<0.009 U	<0.009 U
Nickel	7440-02-0	16.00	50.00	9.1	13	14.1	12.2	11.9	11.8	14.7	6.8	8.2	8.7	13.2	15.4	13.6	11.5	14.3
Potassium	7440-09-7	Nutrient	Nutrient	214	379	390	313	484	378	369	193	214	239	286	306	360	305	385
Selenium	7782-49-2	NL	NL	<0.58 U	<0.62 U	<0.67 U	<0.60 U	<0.73 U	<0.70 U	<0.66 U	<0.57 U	<0.66 U	<0.62 U	<0.66 U	<0.68 U	<0.67 U	<0.67 U	<0.70 U
Silver	7440-22-4	1.00	2.20	<0.07 U	<0.07 U	<0.08 U	<0.07 U	<0.09 U	<0.08 U	<0.08 U	<0.07 U	<0.08 U	<0.07 U	<0.08 U	<0.08 U	<0.08 U	<0.08 U	<0.08 U
Sodium	7440-23-5	Nutrient	Nutrient	30.9 J	39.7 J	40.1 J	<31.8 U	52.1 J	50.6 J	49.3 J	<29.8 U	46.7 J	90.5 J	58.3 J	54.4 J	37.1 J	<35.3 U	63.7 J
Thallium	7440-28-0	NL	NL	0.39 J	0.46 J	<0.34 U	0.51 J	0.44 J	<0.35 U	0.59 J	<0.29 U	0.43 J	0.96 J	0.68 J	<0.34 U	0.58 J	1.1 J	1.2 J
Vanadium	7440-62-2	NL	NL	4	5.7	6.8	5.4	5.3	6.6	6.1	3.4	4.1	4.4	5.6	6	6	5.3	6.6
Zinc	7440-66-6	120.00	270.00	29.6	41.7	45.7	38.7	38.4	45.7	44.5	23.8	28.2	31	41	44.9	43.1	38.2	44.2
Cyanide (mg/Kg)																		
Total Cyanide	57-12-5	NL	NL	<0.96 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<0.90 U	<1.0 U	<1.0 U	<1.0 U	<0.90 U	<1.0 U	<0.84 U	<0.92 U
Percent Solids																		
Percent Solids	SOLID	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOC (mg/Kg)																		
TOC	TOC	NL	NL	2540	1360	1340	2150	2380	1850	2050	2560	1320	2020	1630	2010	2750	2490	1710

Notes:
NA = Not Applicable
NL = No Limit
mg/Kg = milligram per kilogram
Bold Values Exceed LEL
Yellow Highlighted Values Exceed SEL
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate
D = Diluted run

Table 14
Surface Sediment Metals and Cyanide Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	LEL	SEL	SD-16 10/8/2008 SD16-100808	SD-17 10/8/2008 SD17-100808	SD-18 10/8/2008 SD18-100808	SD-19 10/8/2008 SD19-100808	SD-19D 10/8/2008 SD190-100808	SD-20 10/8/2008 SD20-100808	SD-21 10/8/2008 SD21-100808	SD-22 10/8/2008 SD22-100808	SD-23 10/8/2008 SD23-100808	SD-24 10/8/2008 SD24-100808	SD-25 10/8/2008 SD25-100808	SD-26 10/8/2008 SD26-100808	SD-27 8/26/2009 SD-27-082609	SD-27 8/26/2009 SD-270-082609	SD-28 8/26/2009 SD-28-082609
Metals (mg/Kg)																		
Aluminum	7429-90-5	NL	NL	5610 J	6160 J	7320 J	7670 J	7560 J	5130 J	6610 J	7130 J	5180 J	4880 J	8220 J	7780 J	NA	NA	NA
Antimony	7440-36-0	2.00	25.00	<0.57 U	<0.55 U	<0.64 U	<0.63 U	<0.56 U	<16.2 U	<17.1 U	<15.7 U	<0.59 U	<18.4 U	<18.3 U	<16.9 U	NA	NA	NA
Arsenic	7440-38-2	6.00	33.00	3.6	3	3.6	3.5	2.9	3.2	4.7	3.4 J	2.3 J	2.6 J	3.3 J	3.1 J	NA	NA	NA
Barium	7440-39-3	NL	NL	17.8 J	23.6 J	17.2 J	18.4 J	16.9 J	26.9 J	19.6 J	20.2 J	14.4 J	14.6 J	22.0 J	31.2 J	NA	NA	NA
Beryllium	7440-41-7	NL	NL	0.08 J	0.13 J	0.16 J	0.15 J	0.13 J	0.11 J	0.13 J	0.11 J	0.09 J	0.12 J	0.15 J	0.15 J	NA	NA	NA
Cadmium	7440-43-9	0.60	9.00	0.18 J	0.19 J	0.24 J	0.22 J	0.23	0.07 J	<0.05 U	<0.04 U	<0.04 U	<0.05 U	<0.05 U	<0.04 U	NA	NA	NA
Calcium	7440-70-2	Nutrient	Nutrient	567	965	1260	1560	1320	2030	808	3670	555	1570	943	1360	NA	NA	NA
Chromium	7440-47-3	26.00	110.00	5.5	6.1	7.5	7	7.3	5.7	9	7.4	5.6	5.1	8	7.8	NA	NA	NA
Cobalt	7440-48-4	NL	NL	5.3	4.7	6.3	6.1	5.9	5.1	5.7	5.6	3.9	4.2	6	6	NA	NA	NA
Copper	7440-50-8	16.00	110.00	9.6	8.2	11.3	8.7	9	11.1	9.7	8.2	6.8	8.5	8.8	9.6	NA	NA	NA
Iron	7439-89-6	Nutrient	Nutrient	13500	15800	17400	18000	17400	12600	15500	15400	11800	11600	17400	18200	NA	NA	NA
Lead	7439-92-1	31.00	110.00	5.8	6.6	9.5	6.8	6.9	9.2	8.3	7.1	5.8	4.9	8.4	7.7	NA	NA	NA
Magnesium	7439-95-4	Nutrient	Nutrient	2970	3230	3760	3850	4030	2960	3460	3730	2800	2470	4270	4010	NA	NA	NA
Manganese	7439-96-5	460.00	1,100.00	362 J	366 J	370 J	373 J	384 J	752 J	355 J	326 J	242 J	368 J	361 J	625 J	NA	NA	NA
Mercury	7439-97-6	0.20	1.30	<0.008 U	<0.009 U	<0.008 U	<0.009 U	<0.009 U	<0.008 U	<0.009 U	<0.009 U	<0.009 U	<0.009 U	0.014 J	<0.009 U	NA	NA	NA
Nickel	7440-02-0	16.00	50.00	11.1	11.7	14.8	14.1	13.9	11.7	15.1	12.9	11.4	9.6 E	15.0 E	14.7	NA	NA	NA
Potassium	7440-09-7	Nutrient	Nutrient	298	328	326	336	343	220	344	356	250	289	449	475	NA	NA	NA
Selenium	7782-49-2	NL	NL	<0.63 U	<0.60 U	<0.70 U	<0.69 U	<0.62 U	<0.64 U	<0.67 U	<0.62 U	0.75 J	<0.73 U	<0.72 U	<0.66 U	NA	NA	NA
Silver	7440-22-4	1.00	2.20	<0.07 U	<0.07 U	<0.08 U	<0.08 U	0.10 J	0.13 J	0.09 J	0.08 J	<0.08 U	0.10 J	<0.09 U	<0.08 U	NA	NA	NA
Sodium	7440-23-5	Nutrient	Nutrient	<32.9 U	81.4 J	<36.6 U	<36.4 U	37.4 J	48.7 J	<35.4 U	34.4 J	<34.0 U	<38.1 U	<37.9 U	<34.9 U	NA	NA	NA
Thallium	7440-28-0	NL	NL	0.72 J	<6.1 U	3.5 J	<7.0 U	<6.3 U	<0.32 U	<0.34 U	<0.31 U	<0.33 U	<0.37 U	<0.37 U	<0.34 U	NA	NA	NA
Vanadium	7440-62-2	NL	NL	4.6	5.2	5.9	6.4	6.1	6.5	6.4	6.6	4.7	4.2	7.1	7.1	NA	NA	NA
Zinc	7440-66-6	120.00	270.00	34.9	38	45.6	46.9	44.4	34.5	41.5	41.5	32.5	30.1	49.1	49.6	NA	NA	NA
Cyanide (mg/Kg)																		
Total Cyanide	57-12-5	NL	NL	<1.0 U	<0.93 U	<1.1 U	<1.1 U	<0.88 U	<0.72 U	<0.89 U	<0.75 U	<0.93 U	<0.89 U	1	<0.98 U	NA	NA	NA
Percent Solids																		
Percent Solids	SOLID	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	70	69	70
TOC (mg/Kg)																		
TOC	TOC	NL	NL	1510	1300	2040	1790	1130	1370	3060	1740	1360	3490	3280	1890	10000	10400	2020

Notes:
NA = Not Applicable
NL = No Limit
mg/Kg = milligram per kilogram
Bold Values Exceed LEL
Yellow Highlighted Values Exceed SEL
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate
D = Diluted run

Table 14
Surface Sediment Metals and Cyanide Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	LEL	SEL	SD-29 8/26/2009 SD-29-082609	SD-30 8/26/2009 SD-30-082609	SD-31 8/26/2009 SD-31-082609	SD-32 8/26/2009 SD-32-082609	SD-33 8/26/2009 SD-33-082609	SD-34 8/26/2009 SD-34-082609	SD-35 8/26/2009 SD-35-082609	SD-36 8/26/2009 SD-36-082609	SD-37 8/26/2009 SD-37-082609	SD-38 8/26/2009 SD-38-082609
Metals (mg/Kg)													
Aluminum	7429-90-5	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	7440-36-0	2.00	25.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	7440-38-2	6.00	33.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	7440-39-3	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	7440-41-7	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	7440-43-9	0.60	9.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	7440-70-2	Nutrient	Nutrient	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	7440-47-3	26.00	110.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	7440-48-4	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	7440-50-8	16.00	110.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	7439-89-6	Nutrient	Nutrient	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	31.00	110.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	7439-95-4	Nutrient	Nutrient	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	7439-96-5	460.00	1,100.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	7439-97-6	0.20	1.30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	7440-02-0	16.00	50.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	7440-09-7	Nutrient	Nutrient	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	7782-49-2	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	7440-22-4	1.00	2.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	7440-23-5	Nutrient	Nutrient	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	7440-28-0	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	7440-62-2	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	7440-66-6	120.00	270.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (mg/Kg)													
Total Cyanide	57-12-5	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent Solids													
Percent Solids	SOLID	NL	NL	75	66	61	83	83	53	68	63	65	79
TOC (mg/Kg)													
TOC	TOC	NL	NL	3370	3430	4970	1410	4670	13300	2600	4340	15700	1500

Notes:

NA = Not Applicable

NL = No Limit

mg/Kg = milligram per kilogram

Bold Values Exceed LEL

Yellow Highlighted Values Exceed SEL

U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.

J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.

R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte

N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate

D = Diluted run

Table 15
Background Surface Sediment VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	ERL	ERM	BSD-01 10/9/2008 BSD1-100908	BSD-02 10/9/2008 BSD2-100908	BSD-03 10/9/2008 BSD3-100908	BSD-04 10/9/2008 BSD4-100908	BSD-05 10/9/2008 BSD5-100908	BSD-06 10/9/2008 BSD6-100908	BSD-07 10/9/2008 BSD7-100908	BSD-08 10/9/2008 BSD8-100908	BSD-09 10/9/2008 BSD9-100908	BSD-10 10/9/2008 BSD10-100908	BSD-50 10/9/2008 BSD50-100908
BTEX (mg/Kg)														
Benzene	71-43-2	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Ethylbenzene	100-41-4	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Toluene	108-88-3	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Xylenes, Total	1330-20-7	NL	NL	<0.015 U	<0.016 U	<0.015 U	<0.017 U	<0.016 U	<0.016 U	<0.016 U	<0.022 U	<0.018 U	<0.018 U	<0.018 U
VOC (mg/Kg)														
1,1,1-Trichloroethane	71-55-6	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
1,1,2,2-Tetrachloroethane	79-34-5	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
1,1,2-Trichloroethane	79-00-5	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
1,1-Dichloroethane	75-34-3	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
1,1-Dichloroethene	75-35-4	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
1,2,4-Trichlorobenzene	120-82-1	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
1,2-Dibromo-3-chloropropane	96-12-8	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
1,2-Dibromoethane	106-93-4	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
1,2-Dichlorobenzene	95-50-1	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
1,2-Dichloroethane	107-06-2	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
1,2-Dichloropropane	78-87-5	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
1,3-Dichlorobenzene	541-73-1	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
1,4-Dichlorobenzene	106-46-7	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
2-Butanone	78-93-3	NL	NL	<0.025 U	<0.027 U	<0.025 U	<0.028 U	<0.028 U	<0.027 U	<0.027 U	<0.036 U	<0.029 U	<0.036 U	<0.03 U
2-Hexanone	591-78-6	NL	NL	<0.025 U	<0.027 U	<0.025 U	<0.028 U	<0.028 U	<0.027 U	<0.027 U	<0.036 U	<0.029 U	<0.036 U	<0.03 U
4-Methyl-2-pentanone	108-10-1	NL	NL	<0.025 U	<0.027 U	<0.025 U	<0.028 U	<0.028 U	<0.027 U	<0.027 U	<0.036 U	<0.029 U	<0.036 U	<0.03 U
Acetone	67-64-1	NL	NL	<0.025 U	<0.027 U	<0.025 U	<0.028 U	<0.028 U	<0.027 U	<0.027 U	<0.036 U	<0.029 U	<0.036 U	<0.03 U
Bromodichloromethane	75-27-4	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Bromoform	75-25-2	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Bromomethane	74-83-9	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Carbon Disulfide	75-15-0	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Carbon Tetrachloride	56-23-5	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Chlorobenzene	108-90-7	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Chloroethane	75-00-3	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Chloroform	67-66-3	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Chloromethane	74-87-3	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
cis-1,2-Dichloroethene	156-59-2	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
cis-1,3-Dichloropropene	10061-01-5	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Cyclohexane	110-82-7	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Dibromochloromethane	124-48-1	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Dichlorodifluoromethane	75-71-8	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Isopropylbenzene	98-82-8	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Methyl acetate	79-20-9	NL	NL	<0.005 UJ	<0.005 UJ	<0.005 UJ	<0.006 UJ	<0.006 UJ	<0.005 UJ	<0.005 UJ	<0.007 UJ	<0.006 UJ	<0.006 UJ	<0.006 UJ
Methylcyclohexane	108-87-2	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Methylene chloride	75-09-2	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	0.002 J	<0.005 U	<0.005 U	<0.007 U	<0.006 U	0.002 J	<0.006 U
Methyl-t-Butyl Ether (MTBE)	1634-04-4	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Styrene	100-42-5	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Tetrachloroethene	127-18-4	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
trans-1,2-Dichloroethene	156-60-5	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
trans-1,3-Dichloropropene	10061-02-6	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Trichloroethene	79-01-6	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Trichlorofluoromethane	75-69-4	NL	NL	<0.005 U	<0.005 U	<0.005 U	<0.006 U	<0.006 U	<0.005 U	<0.005 U	<0.007 U	<0.006 U	<0.006 U	<0.006 U
Vinyl chloride	75-01-4	NL	NL	<0.01 U	<0.011 U	<0.01 U	<0.011 U	<0.011 U	<0.011 U	<0.011 U	<0.014 U	<0.012 U	<0.012 U	<0.012 U

Notes:
NA = Not Applicable
NL = No Limit
mg/Kg = milligram per kilogram
Bold Values Exceed ERL
Yellow Highlighted Values Exceed ERM
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
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J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 16
Background Surface Sediment SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	ERL	ERM	BSD-01 10/9/2008 BSD1-100908	BSD-02 10/9/2008 BSD2-100908	BSD-03 10/9/2008 BSD3-100908	BSD-04 10/9/2008 BSD4-100908	BSD-05 10/9/2008 BSD5-100908	BSD-06 10/9/2008 BSD6-100908	BSD-07 10/9/2008 BSD7-100908	BSD-08 10/9/2008 BSD8-100908	BSD-09 10/9/2008 BSD9-100908	BSD-10 10/9/2008 BSD10-100908	BSD-50 10/9/2008 BSD50-100908
PAH (mg/Kg)														
2-Methylnaphthalene	91-57-6	0.07	0.67	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Acenaphthene	83-32-9	0.016	0.5	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 UJ	<1.9 U	<1 U
Acenaphthylene	208-96-8	0.044	0.64	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Anthracene	120-12-7	0.0853	1.1	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Benzaldehyde	100-52-7	0.261	1.6	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Benzo(a)anthracene	56-55-3	0.43	1.6	<0.18 U	<1.9 U	<1.8 U	<1.9 U	0.042 J	<1 U	0.028 J	0.081 J	0.013 J	0.084 J	0.084 J
Benzo(a)pyrene	50-32-8	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	0.029 J	<1.4 U	<0.21 U	<1.9 U	0.056 J
Benzo(b)fluoranthene	205-99-2	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	0.046 J	0.058 J	0.008 J	<1.9 U	0.077 J
Benzo(ghi)perylene	191-24-2	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	0.023 J	<1.4 U	<0.21 U	<1.9 U	0.053 J
Benzo(k)fluoranthene	207-08-9	0.384	2.8	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	0.013 J	<1.4 U	<0.21 U	<1.9 U	<1 U
Chrysene	218-01-9	0.0634	0.26	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	0.040 J	<1.4 U	0.009 J	<1.9 U	0.046 J
Dibenzo(a,h)anthracene	53-70-3	0.6	5.1	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Fluoranthene	206-44-0	0.019	0.54	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	0.080 J	0.062 J	0.027 J	0.087 J	0.11 J
Fluorene	86-73-7	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.16	2.1	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	0.019 J	<1.4 U	<0.21 U	<1.9 U	<1 U
Phenanthrene	85-01-8	0.24	1.5	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	0.044 J	<1.4 U	0.009 J	<1.9 U	0.068 J
Pyrene	129-00-0	0.665	2.6	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	0.063 J	0.062 J	0.02 J	<1.9 U	0.096 J
Total PAH (mg/kg)	na	4.02	44.8	ND	ND	ND	ND	0.042	ND	0.385	0.263	0.086	0.171	0.59
SVOC (mg/Kg)														
1,1'-Biphenyl	92-52-4	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
2,2'-Oxybis(1-Chloropropane)	108-60-1	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
2,4,5-Trichlorophenol	95-95-4	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
2,4,6-Trichlorophenol	88-06-2	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
2,4-Dichlorophenol	120-83-2	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
2,4-Dimethylphenol	105-67-9	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
2,4-Dinitrophenol	51-28-5	NL	NL	<0.34 U	<3.7 U	<3.5 U	<3.6 U	<2 U	<1.9 U	<0.35 U	<2.6 U	<0.41 U	<3.7 U	<1.9 U
2,4-Dinitrotoluene	121-14-2	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 UJ	<1.9 U	<1 U
2,6-Dinitrotoluene	606-20-2	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
2-Chloronaphthalene	91-58-7	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
2-Chlorophenol	95-57-8	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 UJ	<1.9 U	<1 U
2-Methylphenol	95-48-7	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
2-Nitroaniline	88-74-4	NL	NL	<0.34 U	<3.7 U	<3.5 U	<3.6 U	<2 U	<1.9 U	<0.35 U	<2.6 U	<0.41 U	<3.7 U	<1.9 U
2-Nitrophenol	88-75-5	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
3,3'-Dichlorobenzidine	91-94-1	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
3-Nitroaniline	99-09-2	NL	NL	<0.34 U	<3.7 U	<3.5 U	<3.6 U	<2 U	<1.9 U	<0.35 U	<2.6 U	<0.41 U	<3.7 U	<1.9 U
4,6-Dinitro-2-methylphenol	534-52-1	NL	NL	<0.34 U	<3.7 U	<3.5 U	<3.6 U	<2 U	<1.9 U	<0.35 U	<2.6 U	<0.41 U	<3.7 U	<1.9 U
4-Bromophenyl phenyl ether	101-55-3	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
4-Chloro-3-methylphenol	59-50-7	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
4-Chloroaniline	106-47-8	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
4-Chlorophenyl phenyl ether	7005-72-3	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
4-Methylphenol	106-44-5	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
4-Nitroaniline	100-01-6	NL	NL	<0.34 U	<3.7 U	<3.5 U	<3.6 U	<2 U	<1.9 U	<0.35 U	<2.6 U	<0.41 U	<3.7 U	<1.9 U
4-Nitrophenol	100-02-7	NL	NL	<0.34 U	<3.7 U	<3.5 U	<3.6 U	<2 U	<1.9 U	<0.35 U	<2.6 U	<0.41 U	<3.7 U	<1.9 U
Acetophenone	98-86-2	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Atrazine	1912-24-9	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Bis(2-chloroethoxy) methane	111-91-1	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Bis(2-chloroethyl) ether	111-44-4	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Bis(2-ethylhexyl) phthalate	117-81-7	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Butyl benzyl phthalate	85-68-7	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Caprolactam	105-60-2	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Carbazole	86-74-8	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Dibenzofuran	132-64-9	NL	NL	<0.18 UJ	<1.9 UJ	<1.8 UJ	<1.9 UJ	<1 UJ	<1 UJ	<0.18 UJ	<1.4 UJ	<0.21 U	<1.9 UJ	<1 UJ
Diethyl phthalate	84-66-2	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	0.013 J	<1.9 U	<1 U
Dimethyl phthalate	131-11-3	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Di-n-butyl phthalate	84-74-2	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Di-n-octyl phthalate	117-84-0	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Hexachlorobenzene	118-74-1	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Hexachlorobutadiene	87-68-3	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Hexachlorocyclopentadiene	77-47-4	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Hexachloroethane	67-72-1	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Isophorone	78-59-1	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Naphthalene	91-20-3	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Nitrobenzene	98-95-3	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
N-Nitroso-Di-n-propylamine	621-64-7	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 uJ	<1.9 U	<1 U
N-nitrosodiphenylamine	86-30-6	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 U	<1.9 U	<1 U
Pentachlorophenol	87-86-5	NL	NL	<0.34 U	<3.7 U	<3.5 U	<3.6 U	<2 U	<1.9 U	<0.35 U	<2.6 U	<0.41 U	<3.7 U	<1.9 U
Phenol	108-95-2	NL	NL	<0.18 U	<1.9 U	<1.8 U	<1.9 U	<1 U	<1 U	<0.18 U	<1.4 U	<0.21 UJ	<1.9 U	<1 U

Notes:

NA = Not Applicable
NL = No Limit
mg/Kg = milligram per kilogram

Bold Values Exceed ERL

Yellow Highlighted Values Exceed ERM

U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 17
Background Surface Sediment Metals and Cyanide Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	LEL	SEL	BSD-01 10/9/2008 BSD1-100908	BSD-02 10/9/2008 BSD2-100908	BSD-03 10/9/2008 BSD3-100908	BSD-04 10/9/2008 BSD4-100908	BSD-05 10/9/2008 BSD5-100908	BSD-06 10/9/2008 BSD6-100908	BSD-07 10/9/2008 BSD7-100908	BSD-08 10/9/2008 BSD8-100908	BSD-09 10/9/2008 BSD9-100908	BSD-10 10/9/2008 BSD10-100908	BSD-50 10/9/2008 BSD50-100908
Metals (mg/Kg)														
Aluminum	7429-90-5	NL	NL	6170 J	4110 J	6450 J	6110 J	5970 J	5320 J	4230 J	9580 J	6170 J	5540 J	6780 J
Antimony	7440-36-0	2.00	25.00	<0.57 UJ	<0.66 UJ	<16.4 UJ	<16.6 UJ	<0.67 UJ	<16.8 UJ	<16.7 UJ	<0.89 UJ	<17.8 UJ	<18.7 UJ	<18.2 UJ
Arsenic	7440-38-2	6.00	33.00	2.2 J	2.1 J	2.9 J	4.3 J	2.3 J	2.0 J	2.7 J	4.2 J	2.7 J	2.6 J	3.0 J
Barium	7440-39-3	NL	NL	19.1 J	11.4 J	17.8 J	22.7 J	15.6 J	13.9 J	13.5 J	34.7 J	15.5 J	18.1 J	25.6 J
Beryllium	7440-41-7	NL	NL	0.10 J	0.08 J	0.12 J	0.12 J	0.10 J	0.09 J	0.09 J	0.20 J	0.11 J	0.12 J	0.13 J
Cadmium	7440-43-9	0.60	9.00	<0.04 U	<0.05 U	<0.04 U	<0.04 U	<0.05 U	<0.04 U	<0.04 U	<0.07 U	<0.05 U	<0.05 U	<0.05 U
Calcium	7440-70-2	Nutrient	Nutrient	826 J	581 J	1370 J	1010 J	1250 J	1000 J	581 J	2570 J	903 J	4820 J	2040 J
Chromium	7440-47-3	26.00	110.00	6.3 J	4.0 J	6.1 J	5.9 J	5.9 J	5.1 J	4.2 J	9.8 J	6.0 J	5.5 J	6.7 J
Cobalt	7440-48-4	NL	NL	4.8	3.3	5.7	6.3	4.7	3.8	3.2	7.7	4.8	4.6	6.1
Copper	7440-50-8	16.00	110.00	5.9	3.8	10.3	14.9	7.5	5.2	7.8	13.4	6.7	8	8.4
Iron	7439-89-6	Nutrient	Nutrient	13600 J	9410 J	14300 J	14000 J	13300 J	11400 J	9600 J	20100 J	13500 J	12500 J	15300 J
Lead	7439-92-1	31.00	110.00	5.8 J	6.8 J	9.5 J	8.5 J	6.4 J	5.3 J	5.3 J	15.0 J	7.1 J	32.8 J	8.9 J
Magnesium	7439-95-4	Nutrient	Nutrient	3640 J	2150 J	3510 J	3270 J	3250 J	2990 J	2480 J	4850 J	3260 J	4460 J	3870 J
Manganese	7439-96-5	460.00	1,100.00	380 J	206 J	359 J	599 J	276 J	254 J	267 J	307 J	307 J	269 J	317 J
Mercury	7439-97-6	0.20	1.30	<0.009 U	<0.008 U	<0.009 U	<0.009 U	<0.010 U	<0.009 U	0.015 J	0.049	<0.010 U	<0.009 U	<0.010 U
Nickel	7440-02-0	16.00	50.00	12.0 J	7.5 J	12.7 J	12.8 J	12.0 J	9.4 J	8.0 J	18.1 J	11.4 J	10.4 J	13.7 J
Potassium	7440-09-7	Nutrient	Nutrient	304	236	347	325	291	291	250	614	300	375	380
Selenium	7782-49-2	NL	NL	<0.63 U	<0.72 U	<0.64 U	<0.65 U	<0.74 U	<0.66 U	<0.66 U	<0.97 U	<0.70 U	<0.74 U	<0.72 U
Silver	7440-22-4	1.00	2.20	<0.07 U	<0.09 U	<0.08 U	0.09 J	<0.09 U	0.12 J	<0.08 U	<0.12 U	<0.08 U	<0.09 U	<0.09 U
Sodium	7440-23-5	Nutrient	Nutrient	<33.0 U	<37.8 U	56.0 J	35.9 J	<38.7 U	<34.8 U	<34.4 U	96.5 J	<36.8 U	<38.7 U	38.2 J
Thallium	7440-28-0	NL	NL	<0.32 UJ	<0.37 UJ	<0.33 UJ	<0.33 UJ	<0.37 UJ	<0.34 UJ	<0.33 UJ	<0.50 UJ	<0.36 UJ	<0.37 UJ	<0.36 UJ
Vanadium	7440-62-2	NL	NL	5.9	3.7	6.1	5.7	5.5	4.6	3.8	8.8	5.5	5.3	6
Zinc	7440-66-6	120.00	270.00	36.0 J	24.9 J	41.5 J	36.6 J	36.5 J	31.1 J	27.6 J	72.0 J	39.0 J	36.6 J	43.6 J
Cyanide (mg/Kg)														
Total Cyanide	57-12-5	NL	NL	<0.75 UJ	<0.68 UJ	<0.90 UJ	<0.94 UJ	<1.0 UJ	<0.85 UJ	<0.83 UJ	<1.2 UJ	<1.1 UJ	<1.0 UJ	<0.78 UJ
TOC (mg/Kg)														
TOC	TOC	NL	NL	1210	2420	1600	4730	3230	2400	1310	17100	1450	5200	2910

Notes:
NA = Not Applicable
NL = No Limit
mg/Kg = milligram per kilogram

Bold Values Exceed LEL

Yellow Highlighted Values Exceed SEL

U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 18
Groundwater VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Guidance Values	DUP-1 40106 DUP-1_1_102009	DUP-2 40108 DUP-2-102209	MW-01D 40106.35903 MW-1D-102009	MW-01S 40106.35417 MW-1S-102009	MW-02B 40106.54861 MW-2B-102009	MW-02D 40106.57292 MW-2D-102009	MW-02S 40106.44792 MW-2S-102009	MW-03B 40107.40278 MW-3B-102109	MW-03D 40107.57222 MW-3D-102109	MW-03S 40107.63889 MW-3S-102109	MW-04D 40108.38542 MW-4D-102209	MW-04S 40108.38194 MW-4S-102209	MW-07B 40107.39236 MW-7B-102109	MW-08B 40102.38542 MW-8B-101609
BTEx (ug/L)																
Benzene	71-43-2	1	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	2.1	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Ethylbenzene	100-41-4	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	4.7	<1.0 U	<1 U	<1 U	16	<1 U	<1 U	<1 U	<1.0 U
Toluene	108-88-3	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	1.6	<1.0 U	<1 U	<1 U	1.3	<1 U	<1 U	<1 U	<1.0 U
Xylenes, Total	1330-20-7	5	<2.0 U	<2 U	<2.0 U	<2.0 U	<2 U	4.7	<2.0 U	<2 U	<2 U	16	<2 U	<2 U	<2 U	<2.0 U
Total BTEx (ug/L)			ND	ND	ND	ND	ND	13.1	ND	ND	ND	33.3	ND	ND	ND	ND
VOC (ug/L)																
1,1,1-Trichloroethane	71-55-6	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
1,1,2-Trichloroethane	79-00-5	1	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
1,1-Dichloroethane	75-34-3	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
1,1-Dichloroethene	75-35-4	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
1,2-Dibromoethane	106-93-4	NA	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
1,2-Dichlorobenzene	95-50-1	3	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
1,2-Dichloroethane	107-06-2	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
1,2-Dichloropropane	78-87-5	1	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
1,3-Dichlorobenzene	541-73-1	3	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
1,4-Dichlorobenzene	106-46-7	3	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
2-Butanone	78-93-3	50	<5.0 U	<5 U	<5.0 U	<5.0 U	<5 U	41	<5.0 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U
2-Hexanone	591-78-6	50	<5.0 U	<5 U	<5.0 U	<5.0 U	<5 U	22	<5.0 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U
4-Methyl-2-pentanone	108-10-1	NA	<5.0 U	<5 U	<5.0 U	<5.0 U	<5 U	<5 U	<5.0 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U
Acetone	67-64-1	50	<5.0 U	<5 U	<5.0 U	<5.0 U	<5 U	51	<5.0 U	12	<5 U	<5 U	<5 U	<5 U	<5 U	47
Bromodichloromethane	75-27-4	50	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Bromoform	75-25-2	50	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Bromomethane	74-83-9	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Carbon Disulfide	75-15-0	60	<1.0 U	<1 U	<1.0 U	<1.0 U	8.5	<1 U	<1.0 U	0.73 J	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Carbon Tetrachloride	56-23-5	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Chlorobenzene	108-90-7	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Chloroethane	75-00-3	5	<1.0 UJ	<1 U	<1.0 UJ	<1.0 UJ	<1 U	2.8	<1.0 UJ	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Chloroform	67-66-3	7	0.62 J	<1 U	<1.0 U	0.70 J	2.5	<1 U	<1.0 U	0.63 J	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Chloromethane	74-87-3	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
cis-1,2-Dichloroethene	156-59-2	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
cis-1,3-Dichloropropene	10061-01-5	0.4	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Cyclohexane	110-82-7	NA	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Dibromochloromethane	124-48-1	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Dichlorodifluoromethane	75-71-8	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Isopropylbenzene	98-82-8	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	0.62 J	<1.0 U	<1 U	<1 U	3.4	<1 U	<1 U	<1 U	<1.0 U
Methyl acetate	79-20-9	NA	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Methylcyclohexane	108-87-2	NA	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Methylene chloride	75-09-2	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Methyl-t-Butyl Ether (MTBE)	1634-04-4	10	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Styrene	100-42-5	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Tetrachloroethene	127-18-4	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
trans-1,2-Dichloroethene	156-60-5	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
trans-1,3-Dichloropropene	10061-02-6	0.4	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Trichloroethene	79-01-6	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Trichlorofluoromethane	75-69-4	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U
Vinyl chloride	75-01-4	2	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	<1 U	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U

NA = Not Applicable
NS= Not Sampled
ug/L = micrograms per Liter
Bold = Deteted analytes
Bold and Italcis=Not detect exceeds NYS Groundwater Standards
Yellow highlighted values exceed Groundwater Standards
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 18
Groundwater VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Guidance Values	MW-08D 40101.61944 MW-8D-101509	MW-08S 40101.57986 MW-8S-101509	MW-09B 40105.44444 MW-9B-101909	MW-09D 40105.52222 MW-9D-101909	MW-09S 40105.45139 MW-9S-101909	MW-10D 40105.51042 MW-10D-101909	MW-10S 40105.54514 MW-10S-101909	MW-11B 40107.60764 MW-11B-102109	MW-11S 40107.65278 MW-11S-102109	MW-13B 40107.54861 MW-13B-102109	MW-15S 40102.47917 MW-15S-101609	MW-16S 40102.44444 MW-16S-101609	MW-17S 40102.51389 MW-17S-101609	MW-20B 40105.66667 MW-20B-101909
BTEX (ug/L)																
Benzene	71-43-2	1	<1.0 U	<1.0 U	<1.0 U	2.7	<1.0 U	<1.0 U	0.76 J	3	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Ethylbenzene	100-41-4	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	0.84 J	0.58 J	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Toluene	108-88-3	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	5.3	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Xylenes, Total	1330-20-7	5	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	1.5 J	3.6	<2 U	<2 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U
Total BTEX (ug/L)			ND	ND	ND	2.7	ND	ND	3.1	12.48	ND	ND	ND	ND	ND	ND
VOC (ug/L)																
1,1,1-Trichloroethane	71-55-6	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1,2-Trichloroethane	79-00-5	1	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1-Dichloroethane	75-34-3	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1-Dichloroethene	75-35-4	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dibromoethane	106-93-4	NA	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dichlorobenzene	95-50-1	3	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dichloroethane	107-06-2	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dichloropropane	78-87-5	1	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,3-Dichlorobenzene	541-73-1	3	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,4-Dichlorobenzene	106-46-7	3	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
2-Butanone	78-93-3	50	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5 U	<5 U	<5 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U
2-Hexanone	591-78-6	50	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5 U	<5 U	<5 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U
4-Methyl-2-pentanone	108-10-1	NA	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5 U	<5 U	<5 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U
Acetone	67-64-1	50	17	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5 U	<5 U	<5 U	<5.0 U	<5.0 U	<5.0 U	10
Bromodichloromethane	75-27-4	50	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Bromoform	75-25-2	50	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Bromomethane	74-83-9	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Carbon Disulfide	75-15-0	60	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Carbon Tetrachloride	56-23-5	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Chlorobenzene	108-90-7	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Chloroethane	75-00-3	5	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ	<1.0 UJ	<1.0 UJ	<1.0 J	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ
Chloroform	67-66-3	7	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	1.3	<1 U	0.73 J	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Chloromethane	74-87-3	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
cis-1,2-Dichloroethene	156-59-2	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
cis-1,3-Dichloropropene	10061-01-5	0.4	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Cyclohexane	110-82-7	NA	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Dibromochloromethane	124-48-1	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Dichlorodifluoromethane	75-71-8	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Isopropylbenzene	98-82-8	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Methyl acetate	79-20-9	NA	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Methylcyclohexane	108-87-2	NA	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Methylene chloride	75-09-2	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Methyl-t-Butyl Ether (MTBE)	1634-04-4	10	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Styrene	100-42-5	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	0.89 J	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Tetrachloroethene	127-18-4	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
trans-1,2-Dichloroethene	156-60-5	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
trans-1,3-Dichloropropene	10061-02-6	0.4	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Trichloroethene	79-01-6	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Trichlorofluoromethane	75-69-4	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Vinyl chloride	75-01-4	2	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U

NA = Not Applicable
NS= Not Sampled
ug/L = micrograms per Liter
Bold = Deteted analytes
Bold and Italcis=Not detect exceeds NYS Groundwater Standards
Yellow highlighted values exceed Groundwater Standards
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 18
Groundwater VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Guidance Values	MW-21S 40101.45486 MW-21S-101509	MW-22S 40101.40417 MW-22S101509	MW-24S 40101.36806 MW-24S101509	MW-25S 40101.46458 MW-25S101509	MW-26S 40100.64236 MW-26S-101409	MW-27S 40100.6125 MW-27S-101409	MW-28S 40100.59722 MW-28S-101409	MW-01D 40382.57778 MW-1D-072310	MW-01S 40382.55694 MW-1S-072310	MW-02B 40385.52083 MW-2B-072610	MW-02D 40385.60069 MW-2D-072610	MW-02S 40382.42361 MW-2S-072310	MW-03B 40385.64583 MW-3B-072610	MW-03D 40382.41806 MW-3D-072310
BTEX (ug/L)																
Benzene	71-43-2	1	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	11	22	<1.0 U	<1.0 U	<1.0 U
Ethylbenzene	100-41-4	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	3.2	19	<1.0 U	<1.0 U	<1.0 U
Toluene	108-88-3	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	8	10	<1.0 U	<1.0 U	<1.0 U
Xylenes, Total	1330-20-7	5	<2.0 U	<2.0 U	1.1 J	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	5.7	34	<2.0 U	<2.0 U	<2.0 U
Total BTEX (ug/L)			ND	ND	1.1	ND	ND	ND	ND	ND	ND	27.9	85	ND	ND	ND
VOC (ug/L)																
1,1,1-Trichloroethane	71-55-6	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 UJ
1,1,2,2-Tetrachloroethane	79-34-5	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1,2-Trichloroethane	79-00-5	1	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1-Dichloroethane	75-34-3	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1-Dichloroethene	75-35-4	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 UJ
1,2-Dibromoethane	106-93-4	NA	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dichlorobenzene	95-50-1	3	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dichloroethane	107-06-2	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dichloropropane	78-87-5	1	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,3-Dichlorobenzene	541-73-1	3	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,4-Dichlorobenzene	106-46-7	3	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
2-Butanone	78-93-3	50	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<10 U	6.7 J	<10 U	19
2-Hexanone	591-78-6	50	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	1.7 J	<5.0 U	<5.0 U
4-Methyl-2-pentanone	108-10-1	NA	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 UJ	<5.0 UJ	<5.0 UJ	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U
Acetone	67-64-1	50	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<10 U	12	<10 U	28
Bromodichloromethane	75-27-4	50	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Bromoform	75-25-2	50	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 UJ
Bromomethane	74-83-9	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 UJ
Carbon Disulfide	75-15-0	60	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	0.52 J	<1.0 U	0.82 J
Carbon Tetrachloride	56-23-5	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 UJ
Chlorobenzene	108-90-7	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Chloroethane	75-00-3	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 UJ
Chloroform	67-66-3	7	<1.0 U	<1.0 U	<1.0 U	0.53 J	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Chloromethane	74-87-3	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
cis-1,2-Dichloroethene	156-59-2	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
cis-1,3-Dichloropropene	10061-01-5	0.4	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 UJ
Cyclohexane	110-82-7	NA	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Dibromochloromethane	124-48-1	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 UJ
Dichlorodifluoromethane	75-71-8	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Isopropylbenzene	98-82-8	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	4	<1.0 U	<1.0 U
Methyl acetate	79-20-9	NA	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Methylcyclohexane	108-87-2	NA	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Methylene chloride	75-09-2	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Methyl-t-Butyl Ether (MTBE)	1634-04-4	10	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Styrene	100-42-5	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	1.8	1.1	<1.0 U	<1.0 U	<1.0 U
Tetrachloroethene	127-18-4	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
trans-1,2-Dichloroethene	156-60-5	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
trans-1,3-Dichloropropene	10061-02-6	0.4	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 UJ
Trichloroethene	79-01-6	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Trichlorofluoromethane	75-69-4	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Vinyl chloride	75-01-4	2	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U

NA = Not Applicable
NS= Not Sampled
ug/L = micrograms per Liter
Bold = Deteted analytes
Bold and Italcis=Not detect exceeds NYS Groundwater Standards
Yellow highlighted values exceed Groundwater Standards
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 18
Groundwater VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Guidance Values	MW-03S 40382 DUP-2-072310	MW-03S 40382.36458 MW-3S-072310	MW-04D 40378.66319 MW-4D-071910	MW-04S 40378.66875 MW-4S-071910	MW-07B 40385.71875 MW-7B-072610	MW-08B 40381.60417 MW-8B-072210	MW-08D 40381.59375 MW-8D-072210	MW-08S 40380.61319 MW-8S-072110	MW-09B 40381.61806 MW-9B-072210	MW-09D 40379.63889 MW-9D-072010	MW-09S 40379.5625 MW-9S-072010	MW-10D 40380.56944 MW-10D-072110	MW-10S 40379.54931 MW-10S-072010	MW-11B 40380.59722 MW-11B-072110
BTEX (ug/L)																
Benzene	71-43-2	1	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	1.4	13	0.71 J	<1.0 U	<1.0 U	1.8
Ethylbenzene	100-41-4	5	11	9.7	<1.0 U	<1.0 U	9.8	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	1.8
Toluene	108-88-3	5	0.79 J	0.74 J	<1.0 U	<1.0 U	6.6	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	9.7
Xylenes, Total	1330-20-7	5	10	9.4	<2.0 U	<2.0 U	42	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	12
Total BTEX (ug/L)			21.79	19.84	ND	ND	58.4	ND	ND	ND	1.4	13	0.71	ND	ND	25.3
VOC (ug/L)																
1,1,1-Trichloroethane	71-55-6	5	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U
1,1,2-Trichloroethane	79-00-5	1	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1-Dichloroethane	75-34-3	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1-Dichloroethene	75-35-4	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	0.91 J	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	<1.0 UJ	<1.0 UJ	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dibromoethane	106-93-4	NA	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dichlorobenzene	95-50-1	3	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dichloroethane	107-06-2	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dichloropropane	78-87-5	1	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,3-Dichlorobenzene	541-73-1	3	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,4-Dichlorobenzene	106-46-7	3	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
2-Butanone	78-93-3	50	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
2-Hexanone	591-78-6	50	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U
4-Methyl-2-pentanone	108-10-1	NA	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U
Acetone	67-64-1	50	<10 U	<10 U	<10 U	<10 U	<10 U	7.0 J	<10 U	<10 U	6.2 J	<10 U	<10 U	<10 U	<10 U	<10 U
Bromodichloromethane	75-27-4	50	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Bromoform	75-25-2	50	<1.0 UJ	<1.0 UJ	<1.0 UJ	<1.0 UJ	<1.0 UJ	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Bromomethane	74-83-9	5	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Carbon Disulfide	75-15-0	60	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U
Carbon Tetrachloride	56-23-5	5	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Chlorobenzene	108-90-7	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Chloroethane	75-00-3	5	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Chloroform	67-66-3	7	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	0.67 J
Chloromethane	74-87-3	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
cis-1,2-Dichloroethene	156-59-2	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
cis-1,3-Dichloropropene	10061-01-5	0.4	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Cyclohexane	110-82-7	NA	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U
Dibromochloromethane	124-48-1	5	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Dichlorodifluoromethane	75-71-8	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Isopropylbenzene	98-82-8	5	2.8	2.7	<1.0 U	<1.0 U	1.4	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Methyl acetate	79-20-9	NA	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Methylcyclohexane	108-87-2	NA	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U
Methylene chloride	75-09-2	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Methyl-t-Butyl Ether (MTBE)	1634-04-4	10	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Styrene	100-42-5	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	6	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	2.5
Tetrachloroethene	127-18-4	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
trans-1,2-Dichloroethene	156-60-5	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
trans-1,3-Dichloropropene	10061-02-6	0.4	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Trichloroethene	79-01-6	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Trichlorofluoromethane	75-69-4	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Vinyl chloride	75-01-4	2	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U

NA = Not Applicable
NS= Not Sampled
ug/L = micrograms per Liter
Bold = Deteted analytes
Bold and Italcis=Not detect exceeds NYS Groundwater Standards
Yellow highlighted values exceed Groundwater Standards
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 18
Groundwater VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Guidance Values	MW-11S 40385.43403 MW-11S-072610	MW-13B 40385.67708 MW-13B-072610	MW-15D 40380 DUP-1-072110	MW-15D 40380.52431 MW-15D-072110	MW-15S 40379.40625 MW-15S-072010	MW-16S 40379.42361 MW-16S-072010	MW-17S 40379.36111 MW-17S-072010	MW-20B 40385.70833 MW-20B-072610	MW-21S 40380.4375 MW-21S-072110	MW-22D 40381.57292 MW-22D-072210	MW-22S 40380.40069 MW-22S-072110	MW-24S 40380.38542 MW-24S-072110	MW-25S 40381.35972 MW-25S-072210	MW-26S 40378.60764 MW-26S-071910
BTEX (ug/L)																
Benzene	71-43-2	1	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Ethylbenzene	100-41-4	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Toluene	108-88-3	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Xylenes, Total	1330-20-7	5	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U
Total BTEX (ug/L)			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOC (ug/L)																
1,1,1-Trichloroethane	71-55-6	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1,2-Trichloroethane	79-00-5	1	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1-Dichloroethane	75-34-3	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1-Dichloroethene	75-35-4	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ
1,2-Dibromoethane	106-93-4	NA	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dichlorobenzene	95-50-1	3	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dichloroethane	107-06-2	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dichloropropane	78-87-5	1	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,3-Dichlorobenzene	541-73-1	3	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,4-Dichlorobenzene	106-46-7	3	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
2-Butanone	78-93-3	50	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<1.5 J	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
2-Hexanone	591-78-6	50	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U
4-Methyl-2-pentanone	108-10-1	NA	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U
Acetone	67-64-1	50	<10 U	4.7 J	13	12	<10 U	<10 U	<10 U	17	<10 U	38	<10 U	<10 U	<10 U	<10 U
Bromodichloromethane	75-27-4	50	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Bromoform	75-25-2	50	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ
Bromomethane	74-83-9	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U
Carbon Disulfide	75-15-0	60	<1.0 U	<1.0 U	1.6	2	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Carbon Tetrachloride	56-23-5	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U
Chlorobenzene	108-90-7	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Chloroethane	75-00-3	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U
Chloroform	67-66-3	7	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Chloromethane	74-87-3	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
cis-1,2-Dichloroethene	156-59-2	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
cis-1,3-Dichloropropene	10061-01-5	0.4	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U
Cyclohexane	110-82-7	NA	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Dibromochloromethane	124-48-1	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U
Dichlorodifluoromethane	75-71-8	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Isopropylbenzene	98-82-8	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Methyl acetate	79-20-9	NA	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ
Methylcyclohexane	108-87-2	NA	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Methylene chloride	75-09-2	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Methyl-t-Butyl Ether (MTBE)	1634-04-4	10	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Styrene	100-42-5	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Tetrachloroethene	127-18-4	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
trans-1,2-Dichloroethene	156-60-5	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
trans-1,3-Dichloropropene	10061-02-6	0.4	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U
Trichloroethene	79-01-6	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Trichlorofluoromethane	75-69-4	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Vinyl chloride	75-01-4	2	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U

NA = Not Applicable
NS= Not Sampled
ug/L = micrograms per Liter
Bold = Deteted analytes
Bold and Italcis=Not detect exceeds NYS Groundwater Standards
Yellow highlighted values exceed Groundwater Standards
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 18
Groundwater VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Guidance Values	MW-27S 40378.57639 MW-27S-071910	MW-28S 40378.59722 MW-28S-071910	MW-29B 40385.49444 MW-29B-072610	MW-30B 40381.47917 MW-30B-072210	MW-31S 40379.37153 MW-31S-072010	MW-32B 40385.52778 MW-32B-072610	MW-33S 40381.41181 MW-33S-072210	MW-34S 40381.35764 MW-34S-072210
BTEX (ug/L)										
Benzene	71-43-2	1	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Ethylbenzene	100-41-4	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Toluene	108-88-3	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Xylenes, Total	1330-20-7	5	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U
Total BTEX (ug/L)			ND	ND	ND	ND	ND	ND	ND	ND
VOC (ug/L)										
1,1,1-Trichloroethane	71-55-6	5	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ
1,1,2,2-Tetrachloroethane	79-34-5	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1,2-Trichloroethane	79-00-5	1	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1-Dichloroethane	75-34-3	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,1-Dichloroethene	75-35-4	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ
1,2-Dibromoethane	106-93-4	NA	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dichlorobenzene	95-50-1	3	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dichloroethane	107-06-2	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dichloropropane	78-87-5	1	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,3-Dichlorobenzene	541-73-1	3	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,4-Dichlorobenzene	106-46-7	3	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
2-Butanone	78-93-3	50	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
2-Hexanone	591-78-6	50	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U
4-Methyl-2-pentanone	108-10-1	NA	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U
Acetone	67-64-1	50	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
Bromodichloromethane	75-27-4	50	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Bromoform	75-25-2	50	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ
Bromomethane	74-83-9	5	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ
Carbon Disulfide	75-15-0	60	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Carbon Tetrachloride	56-23-5	5	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ
Chlorobenzene	108-90-7	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Chloroethane	75-00-3	5	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ
Chloroform	67-66-3	7	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Chloromethane	74-87-3	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
cis-1,2-Dichloroethene	156-59-2	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
cis-1,3-Dichloropropene	10061-01-5	0.4	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ
Cyclohexane	110-82-7	NA	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Dibromochloromethane	124-48-1	5	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ
Dichlorodifluoromethane	75-71-8	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Isopropylbenzene	98-82-8	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Methyl acetate	79-20-9	NA	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Methylcyclohexane	108-87-2	NA	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Methylene chloride	75-09-2	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Methyl-t-Butyl Ether (MTBE)	1634-04-4	10	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Styrene	100-42-5	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Tetrachloroethene	127-18-4	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
trans-1,2-Dichloroethene	156-60-5	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
trans-1,3-Dichloropropene	10061-02-6	0.4	<1.0 U	<1.0 U	<1.0 U	<1.0 UJ	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ
Trichloroethene	79-01-6	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Trichlorofluoromethane	75-69-4	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Vinyl chloride	75-01-4	2	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U

NA = Not Applicable
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ug/L = micrograms per Liter
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Yellow highlighted values exceed Groundwater Standards
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D = Diluted run



Table 19
Groundwater SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Guidance Values	DUP-1 40106 DUP-1_102009	DUP-2 40108 DUP-2-102209	MW-01D 40106.35903 MW-1D-102009	MW-01S 40106.35417 MW-1S-102009	MW-02B 40106.54861 MW-2B-102009	MW-02D 40106.57292 MW-2D-102009	MW-02S 40106.44792 MW-2S-102009	MW-03B 40107.40278 MW-3B-102109	MW-03D 40107.57222 MW-3D-102109	MW-03S 40107.63889 MW-3S-102109	MW-04D 40108.38542 MW-4D-102209	MW-04S 40108.38194 MW-4S-102209	MW-07B 40107.39236 MW-7B-102109	MW-08B 40102.38542 MW-8B-101609	MW-08D 40101.61944 MW-8D-101509	MW-08S 40101.57986 MW-8S-101509
PAH (ug/L)																		
2-Methylnaphthalene	91-57-6	NA	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	12	<4.9 U	0.28 J	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
Acenaphthene	83-32-9	20	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	17	<4.9 U	<5 U	<5 U	<5 U	150	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
Acenaphthylene	208-96-8	NA	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	0.87 J	<4.9 U	<5 U	<5 U	<5 U	10	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
Anthracene	120-12-7	50	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	0.52 J	<4.9 U	<5 U	<5 U	<5 U	23	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
Benzo(a)anthracene	56-55-3	0.002	<4.9 U	<5 U	<4.7 U	0.46 J	<5 U	0.20 J	<4.9 U	<5 U	<5 U	<5 U	1.0 J	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
Benzo(a)pyrene	50-32-8	NA	<4.9 U	<5 U	<4.7 U	0.45 J	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	0.42 J	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
Benzo(b)fluoranthene	205-99-2	0.002	<4.9 U	<5 U	<4.7 U	0.32 J	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	0.30 J	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
Benzo(ghi)perylene	191-24-2	NA	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
Benzo(k)fluoranthene	207-08-9	0.002	<4.9 U	<5 U	<4.7 U	0.24 J	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	0.23 J	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
Chrysene	218-01-9	0.002	<4.9 U	<5 U	<4.7 U	0.45 J	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	0.90 J	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
Dibenzo(a,h)anthracene	53-70-3	NA	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
Fluoranthene	206-44-0	50	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	0.31 J	<4.9 U	<5 U	<5 U	<5 U	14	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
Fluorene	86-73-7	50	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	3.0 J	<4.9 U	<5 U	<5 U	<5 U	55	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
Naphthalene	91-20-3	10	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	100	<4.9 U	0.96 J	<5 U	<5 U	7.7	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
Phenanthrene	85-01-8	50	<4.9 U	<5 U	<4.7 U	0.20 J	<5 U	3.1 J	<4.9 U	0.27 J	<5 U	<5 U	120	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
Pyrene	129-00-0	50	<4.9 U	<5 U	<4.7 U	0.64 J	0.32 J	0.42 J	<4.9 U	<5 U	<5 U	<5 U	15	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
Total PAH (ug/L)			ND	ND	ND	2.76	0.32	137.42	ND	1.51	ND	397.55	ND	ND	ND	ND	ND	ND
SVOC (ug/L)																		
1,1'-Biphenyl	92-52-4	5	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	1.9 J	<4.9 U	<5 U	<5 U	23	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
2,2'-Oxybis(1-Chloropropane)	108-60-1	NA	<3.9 U	<4 U	<3.8 U	<4.0 U	<4 U	<4 U	<3.9 U	<4 U	<4 U	<4 U	<4 U	<4 U	<4 U	<4.0 U	<3.8 U	<3.9 U
2,4,5-Trichlorophenol	95-95-4	NA	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
2,4,6-Trichlorophenol	88-06-2	NA	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
2,4-Dichlorophenol	120-83-2	5	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
2,4-Dimethylphenol	105-67-9	50	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
2,4-Dinitrophenol	51-28-5	10	<9.9 U	<10 U	<9.4 U	<9.9 U	<10 U	<10 U	<9.8 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<9.9 U	<9.6 U	<9.7 U
2,4-Dinitrotoluene	121-14-2	5	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
2,6-Dinitrotoluene	606-20-2	5	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
2-Chloronaphthalene	91-58-7	10	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
2-Chlorophenol	95-57-8	NA	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
2-Methylphenol	95-48-7	NA	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
2-Nitroaniline	88-74-4	5	<9.9 U	<10 U	<9.4 U	<9.9 U	<10 U	<10 U	<9.8 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<9.9 U	<9.6 U	<9.7 U
2-Nitrophenol	88-75-5	NA	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
3,3'-Dichlorobenzidine	91-94-1	5	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
3-Nitroaniline	99-09-2	5	<9.9 U	<10 U	<9.4 U	<9.9 U	<10 U	<10 U	<9.8 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<9.9 U	<9.6 U	<9.7 U
4,6-Dinitro-2-methylphenol	534-52-1	NA	<9.9 U	<10 U	<9.4 U	<9.9 U	<10 U	<10 U	<9.8 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<9.9 U	<9.6 U	<9.7 U
4-Bromophenyl phenyl ether	101-55-3	NA	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
4-Chloro-3-methylphenol	59-50-7	NA	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
4-Chloroaniline	106-47-8	5	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
4-Chlorophenyl phenyl ether	7005-72-3	NA	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	<5 U	<4.9 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
4-Methylphenol	106-44-5	NA	<9.9 U	<10 U	<9.4 U	<9.9 U	<10 U	600	<9.8 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<9.9 U	<9.6 U	<9.7 U
4-Nitroaniline	100-01-6	5	<9.9 U	<10 UJ	<9.4 U	<9.9 U	<10 UJ	<10 UJ	<9.8 U	<10 UJ	<10 UJ	<10 UJ	<10 UJ	<10 UJ	<10 UJ	<9.9 U	<9.6 U	<9.7 U
4-Nitrophenol	100-02-7	NA	<9.9 U	<10 U	<9.4 U	<9.9 U	<10 U	<10 U	<9.8 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<9.9 U	<9.6 U	<9.7 U
Acetophenone	98-86-2	NA	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	<5 U	<4.9 U	<5 U	<5 U	1.1 J	<5 U	<5 U	<5 U	<5.0 U	<4.8 U	<4.9 U
Atrazine	1912-24-9	7.5	<4.9 U	<5 U	<4.7 U	<5.0 U	<5 U	&										

Table 19
Groundwater SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Guidance Values	MW-09B 40105.44444 MW-9B-101909	MW-09D 40105.52222 MW-9D-101909	MW-09S 40105.45139 MW-9S-101909	MW-10D 40105.51042 MW-10D-101909	MW-10S 40105.54514 MW-10S-101909	MW-11B 40107.60764 MW-11B-102109	MW-11S 40107.65278 MW-11S-102109	MW-13B 40107.54861 MW-13B-102109	MW-15S 40102.47917 MW-15S-101609	MW-16S 40102.44444 MW-16S-101609	MW-17S 40102.51389 MW-17S-101609	MW-20B 40105.66667 MW-20B-101909	MW-21S 40101.45486 MW-21S-101509	MW-22S 40101.40417 MW-22S101509	MW-24S 40101.36806 MW-24S101509	MW-25S 40101.46458 MW-25S101509
PAH (ug/L)																		
2-Methylnaphthalene	91-57-6	NA	<5.0 U	<4.7 U	<4.7 U	0.21 J	<5.2 U	<5 U	<5 U	0.21 J	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
Acenaphthene	83-32-9	20	<5.0 U	<4.7 U	<4.7 U	<5.1 U	0.51 J	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	2.1 J	<4.7 U
Acenaphthylene	208-96-8	NA	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	0.29 J	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
Anthracene	120-12-7	50	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
Benzo(a)anthracene	56-55-3	0.002	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
Benzo(a)pyrene	50-32-8	NA	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
Benzo(b)fluoranthene	205-99-2	0.002	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
Benzo(ghi)perylene	191-24-2	NA	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
Benzo(k)fluoranthene	207-08-9	0.002	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
Chrysene	218-01-9	0.002	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
Dibenzo(a,h)anthracene	53-70-3	NA	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
Fluoranthene	206-44-0	50	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
Fluorene	86-73-7	50	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
Naphthalene	91-20-3	10	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	1.4 J	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	0.38 J	<5.0 U	<4.7 U	<4.9 U	<4.7 U
Phenanthrene	85-01-8	50	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<4.7 U	<5 U	0.35 J	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
Pyrene	129-00-0	50	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
Total PAH (ug/L)			ND	ND	ND	0.21	0.51	1.69	ND	0.56	ND	ND	ND	0.38	ND	ND	2.1	ND
SVOC (ug/L)																		
1,1'-Biphenyl	92-52-4	5	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
2,2'-Oxybis(1-Chloropropane)	108-60-1	NA	<4.0 U	<3.8 U	<3.8 U	<4.0 U	<4.2 U	<4 U	<4 U	<4 U	<4.0 U	<3.8 U	<3.8 U	<4.0 U	<4.0 U	<3.8 U	<3.9 U	<3.8 U
2,4,5-Trichlorophenol	95-95-4	NA	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
2,4,6-Trichlorophenol	88-06-2	NA	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
2,4-Dichlorophenol	120-83-2	5	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
2,4-Dimethylphenol	105-67-9	50	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
2,4-Dinitrophenol	51-28-5	10	<10 U	<9.4 U	<9.4 U	<10 U	<10 U	<10 U	<10 U	<10 U	<9.9 U	<9.4 U	<9.4 U	<10 U	<9.9 U	<9.4 U	<9.8 U	<9.4 U
2,4-Dinitrotoluene	121-14-2	5	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
2,6-Dinitrotoluene	606-20-2	5	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
2-Chloronaphthalene	91-58-7	10	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
2-Chlorophenol	95-57-8	NA	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
2-Methylphenol	95-48-7	NA	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
2-Nitroaniline	88-74-4	5	<10 U	<9.4 U	<9.4 U	<10 U	<10 U	<10 U	<10 U	<10 U	<9.9 U	<9.4 U	<9.4 U	<10 U	<9.9 U	<9.4 U	<9.8 U	<9.4 U
2-Nitrophenol	88-75-5	NA	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
3,3'-Dichlorobenzidine	91-94-1	5	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
3-Nitroaniline	99-09-2	5	<10 U	<9.4 U	<9.4 U	<10 U	<10 U	<10 U	<10 U	<10 U	<9.9 U	<9.4 U	<9.4 U	<10 U	<9.9 U	<9.4 U	<9.8 U	<9.4 U
4,6-Dinitro-2-methylphenol	534-52-1	NA	<10 U	<9.4 U	<9.4 U	<10 U	<10 U	<10 U	<10 U	<10 U	<9.9 U	<9.4 U	<9.4 U	<10 U	<9.9 U	<9.4 U	<9.8 U	<9.4 U
4-Bromophenyl phenyl ether	101-55-3	NA	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
4-Chloro-3-methylphenol	59-50-7	NA	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
4-Chloroaniline	106-47-8	5	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
4-Chlorophenyl phenyl ether	7005-72-3	NA	<5.0 U	<4.7 U	<4.7 U	<5.1 U	<5.2 U	<5 U	<5 U	<5 U	<5.0 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.7 U	<4.9 U	<4.7 U
4-Methylphenol	106-44-5	NA	<10 U	<9.4 U	<9.4 U	<10 U	<10 U	<10 U	<10 U	<10 U	<9.9 U	<9.4 U	<9.4 U	0.82 J	<9.9 U	<9.4 U	<9.8 U	<9.4 U
4-Nitroaniline	100-01-6	5	<10 U	<9.4 U	<9.4 U	<10 U	<10 U	<10 U	<10 UJ	<10 UJ	<9.9 U	<9.4 U	<9.4 U	<10 U	<9.9 U	<9.4 U	<9.8 U	<9.4 U
4-Nitrophenol	100-02-7																	

Table 19
Groundwater SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Guidance Values	MW-26S 40100.64236 MW-26S-101409	MW-27S 40100.6125 MW-27S-101409	MW-28S 40100.59722 MW-28S-101409	MW-01D 40382.57778 MW-1D-072310	MW-01S 40382.55694 MW-1S-072310	MW-02B 40385.52083 MW-2B-072610	MW-02D 40385.60069 MW-2D-072610	MW-02S 40382.42361 MW-2S-072310	MW-03B 40385.64583 MW-3B-072610	MW-03D 40382.41806 MW-3D-072310	MW-03S 40382 DUP-2-072310	MW-03S 40382.36458 MW-3S-072310	MW-04D 40378.66319 MW-4D-071910	MW-04S 40378.66875 MW-4S-071910	MW-07B 40385.71875 MW-7B-072610	MW-08B 40381.60417 MW-8B-072210
PAH (ug/L)																		
2-Methylnaphthalene	91-57-6	NA	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	11	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	41	<5.2 U
Acenaphthene	83-32-9	20	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	14	<4.8 U	<4.8 U	<4.7 U	90	96	<4.8 U	<4.9 U	7	<5.2 U
Acenaphthylene	208-96-8	NA	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	0.62 J	2.0 J	<4.8 U	<4.8 U	<4.7 U	5.8	6	<4.8 U	<4.9 U	36	<5.2 U
Anthracene	120-12-7	50	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	0.42 J	<4.8 U	<4.8 U	<4.7 U	13	13	<4.8 U	<4.9 U	7.9	<5.2 U
Benzo(a)anthracene	56-55-3	0.002	0.30 J	0.31 J	0.32 J	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	0.51 J	0.62 J	<4.8 U	<4.9 U	1.0 J	<5.2 U
Benzo(a)pyrene	50-32-8	NA	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	0.55 J	<5.2 U
Benzo(b)fluoranthene	205-99-2	0.002	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
Benzo(ghi)perylene	191-24-2	NA	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
Benzo(k)fluoranthene	207-08-9	0.002	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
Chrysene	218-01-9	0.002	<4.8 U	0.28 J	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	0.38 J	0.40 J	<4.8 U	<4.9 U	1.1 J	<5.2 U
Dibenzo(a,h)anthracene	53-70-3	NA	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
Fluoranthene	206-44-0	50	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	8.5	8.1	<4.8 U	<4.9 U	7.9	<5.2 U
Fluorene	86-73-7	50	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	2.3 J	<4.8 U	<4.8 U	<4.7 U	34	33	<4.8 U	<4.9 U	13	<5.2 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
Naphthalene	91-20-3	10	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	98	<4.8 U	<4.8 U	<4.7 U	11	9.1	<4.8 U	0.88 J	140	<5.2 U
Phenanthrene	85-01-8	50	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	3.0 J	<4.8 U	<4.8 U	<4.7 U	62	59	<4.8 U	<4.9 U	34	<5.2 U
Pyrene	129-00-0	50	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	9.5	9.3	<4.8 U	<4.9 U	9.3	<5.2 U
Total PAH (ug/L)			0.3	0.59	0.32	ND	ND	0.62	130.72	ND	ND	ND	234.69	234.52	ND	0.88	298.75	ND
SVOC (ug/L)																		
1,1'-Biphenyl	92-52-4	5	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	1.5 J	<4.8 U	<4.8 U	<4.7 U	10	11	<4.8 U	<4.9 U	6.7	<5.2 U
2,2'-Oxybis(1-Chloropropane)	108-60-1	NA	<3.9 U	<3.8 U	<3.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
2,4,5-Trichlorophenol	95-95-4	NA	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
2,4,6-Trichlorophenol	88-06-2	NA	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
2,4-Dichlorophenol	120-83-2	5	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
2,4-Dimethylphenol	105-67-9	50	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
2,4-Dinitrophenol	51-28-5	10	<9.7 U	<9.6 U	<9.8 U	<9.9 U	<10 U	<9.9 U	<9.4 U	<9.6 U	<9.5 U	<9.5 U	<10 U	<11 U	<9.6 U	<9.8 U	<11 U	<10 U
2,4-Dinitrotoluene	121-14-2	5	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
2,6-Dinitrotoluene	606-20-2	5	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
2-Chloronaphthalene	91-58-7	10	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
2-Chlorophenol	95-57-8	NA	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
2-Methylphenol	95-48-7	NA	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
2-Nitroaniline	88-74-4	5	<9.7 UJ	<9.6 UJ	<9.8 UJ	<9.9 U	<10 U	<9.9 U	<9.4 U	<9.6 U	<9.5 U	<9.5 U	<10 U	<11 U	<9.6 U	<9.8 U	<11 U	<10 U
2-Nitrophenol	88-75-5	NA	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
3,3'-Dichlorobenzidine	91-94-1	5	<4.8 UJ	<4.8 UJ	<4.9 UJ	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
3-Nitroaniline	99-09-2	5	<9.7 U	<9.6 U	<9.8 U	<9.9 U	<10 U	<9.9 U	<9.4 U	<9.6 U	<9.5 U	<9.5 U	<10 U	<11 U	<9.6 U	<9.8 U	<11 U	<10 U
4,6-Dinitro-2-methylphenol	534-52-1	NA	<9.6 U	<9.6 U	<9.8 U	<9.9 U	<10 U	<9.9 U	<9.4 U	<9.6 U	<9.5 U	<9.5 U	<10 U	<11 U	<9.6 U	<9.8 U	<11 U	<10 U
4-Bromophenyl phenyl ether	101-55-3	NA	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
4-Chloro-3-methylphenol	59-50-7	NA	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
4-Chloroaniline	106-47-8	5	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
4-Chlorophenyl phenyl ether	7005-72-3	NA	<4.8 U	<4.8 U	<4.9 U	<5.0 U	<5.0 U	<4.9 U	<4.7 U	<4.8 U	<4.8 U	<4.7 U	<5.2 U	<5.3 U	<4.8 U	<4.9 U	<5.3 U	<5.2 U
4-Methylphenol	106-44-5	NA	<9.7 U	<9.6 U	<9.8 U	<9.9 U	<10 U	<9.9 U	190	<9.6 U	<9.5 U	<9.5 U	<10 U	<11 U	<9.6 U	<9.8 U	<11 U	<10 U
4-Nitroaniline	100-01-6	5	<9.7 UJ	<9.6 UJ	<9.8 UJ	<9.9 U	<10 U	<9.9 U	<9.4 U	<9.6 U	<9.5 U	<9.5 U	<10 U</					

Table 19
Groundwater SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Guidance Values	MW-08D 40381.59375 MW-8D-072210	MW-08S 40380.61319 MW-8S-072110	MW-09B 40381.61806 MW-9B-072210	MW-09D 40379.63889 MW-9D-072010	MW-09S 40379.5625 MW-9S-072010	MW-10D 40380.56944 MW-10D-072110	MW-10S 40379.54931 MW-10S-072010	MW-11B 40380.59722 MW-11B-072110	MW-11S 40380.43403 MW-11S-072610	MW-13B 40385.67708 MW-13B-072610	MW-15D 40380 DUP-1-072110	MW-15D 40380.52431 MW-15D-072110	MW-15S 40379.40625 MW-15S-072010	MW-16S 40379.36111 MW-16S-072010	MW-17S 40379.36111 MW-17S-072010	MW-20B 40385.70833 MW-20B-072610
PAH (ug/L)																		
2-Methylnaphthalene	91-57-6	NA	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
Acenaphthene	83-32-9	20	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	1.0 J	0.98 J	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
Acenaphthylene	208-96-8	NA	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	14	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	0.51 J
Anthracene	120-12-7	50	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	1.3 J	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
Benzo(a)anthracene	56-55-3	0.002	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	1.0 J	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
Benzo(a)pyrene	50-32-8	NA	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	0.89 J	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
Benzo(b)fluoranthene	205-99-2	0.002	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	0.55 J	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	0.46 J	<4.9 U
Benzo(ghi)perylene	191-24-2	NA	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	0.41 J	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
Benzo(k)fluoranthene	207-08-9	0.002	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
Chrysene	218-01-9	0.002	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	0.84 J	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	0.34 J	<4.9 U
Dibenzo(a,h)anthracene	53-70-3	NA	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
Fluoranthene	206-44-0	50	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	2.7 J	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	0.59 J	<4.9 U
Fluorene	86-73-7	50	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	3.6 J	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
Naphthalene	91-20-3	10	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	1.1 J	1.1 J
Phenanthrene	85-01-8	50	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	8.5	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	0.52 J	0.69 J
Pyrene	129-00-0	50	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	3.7 J	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	0.50 J	0.34 J
Total PAH (ug/L)			ND	ND	ND	ND	ND	ND	1	38.47	ND	ND	ND	ND	ND	ND	3.51	2.64
SVOC (ug/L)																		
1,1'-Biphenyl	92-52-4	5	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
2,2'-Oxybis(1-Chloropropane)	108-60-1	NA	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
2,4,5-Trichlorophenol	95-95-4	NA	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
2,4,6-Trichlorophenol	88-06-2	NA	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
2,4-Dichlorophenol	120-83-2	5	<5.2 U	<4.9 U	<5.1 U	<5.0 U	0.55 J	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	2.6 J	<4.9 U	<5.0 U	0.51 J
2,4-Dimethylphenol	105-67-9	50	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
2,4-Dinitrophenol	51-28-5	10	<10 U	<9.8 U	<10 U	<9.9 U	<10 U	<10 U	<9.9 U	<9.9 U	<10 U	<9.4 U	<9.4 U	<10 U	<9.9 U	<9.8 U	<10 U	<9.8 U
2,4-Dinitrotoluene	121-14-2	5	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
2,6-Dinitrotoluene	606-20-2	5	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	9.6	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
2-Chloronaphthalene	91-58-7	10	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
2-Chlorophenol	95-57-8	NA	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
2-Methylphenol	95-48-7	NA	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
2-Nitroaniline	88-74-4	5	<10 U	<9.8 U	<10 U	<9.9 U	<10 U	<10 U	<9.9 U	<9.9 U	<10 U	<9.4 U	<9.4 U	<10 U	<9.9 U	<9.8 U	<10 U	<9.8 U
2-Nitrophenol	88-75-5	NA	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
3,3'-Dichlorobenzidine	91-94-1	5	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
3-Nitroaniline	99-09-2	5	<10 U	<9.8 U	<10 U	<9.9 U	<10 U	<10 U	<9.9 U	<9.9 U	<10 U	<9.4 U	<9.4 U	<10 U	<9.9 U	<9.8 U	<10 U	<9.8 U
4,6-Dinitro-2-methylphenol	534-52-1	NA	<10 U	<9.8 U	<10 U	<9.9 U	<10 U	<10 U	<9.9 U	<9.9 U	<10 U	<9.4 U	<9.4 U	<10 U	<9.9 U	<9.8 U	<10 U	<9.8 U
4-Bromophenyl phenyl ether	101-55-3	NA	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
4-Chloro-3-methylphenol	59-50-7	NA	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
4-Chloroaniline	106-47-8	5	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
4-Chlorophenyl phenyl ether	7005-72-3	NA	<5.2 U	<4.9 U	<5.1 U	<5.0 U	<5.0 U	<5.1 U	<5.0 U	<5.0 U	<5.2 U	<4.7 U	<4.7 U	<5.0 U	<5.0 U	<4.9 U	<5.0 U	<4.9 U
4-Methylphenol	106-44-5	NA	<10 U	<9.8 U	<10 U	<9.9 U	<10 U	<10 U	<9.9 U	<9.9 U	<10 U	<9.4 U	<9.4 U	<10 U	<9.9 U	<9.8 U	<10 U	<9.8 U
4-Nitroaniline	100-01-6	5	<10 U	<9.8 U	<10 U	<9.9 U	<10 U</											

Table 19
Groundwater SVOC Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Guidance Values	MW-21S 40380.4375 MW-21S-072110	MW-22D 40381.57292 MW-22D-072210	MW-22S 40380.40069 MW-22S-072110	MW-24S 40380.38542 MW-24S-072110	MW-25S 40381.35972 MW-25S-072210	MW-26S 40378.60764 MW-26S-071910	MW-27S 40378.57639 MW-27S-071910	MW-28S 40378.59722 MW-28S-071910	MW-29B 40385.49444 MW-29B-072610	MW-30B 40381.47917 MW-30B-072210	MW-31S 40379.37153 MW-31S-072010	MW-32B 40385.52778 MW-32B-072610	MW-33S 40381.41181 MW-33S-072210	MW-34S 40381.35764 MW-34S-072210
PAH (ug/L)																
2-Methylnaphthalene	91-57-6	NA	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Acenaphthene	83-32-9	20	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Acenaphthylene	208-96-8	NA	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Anthracene	120-12-7	50	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Benzo(a)anthracene	56-55-3	0.002	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Benzo(a)pyrene	50-32-8	NA	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Benzo(b)fluoranthene	205-99-2	0.002	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Benzo(ghi)perylene	191-24-2	NA	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Benzo(k)fluoranthene	207-08-9	0.002	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Chrysene	218-01-9	0.002	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Dibenzo(a,h)anthracene	53-70-3	NA	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Fluoranthene	206-44-0	50	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Fluorene	86-73-7	50	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Naphthalene	91-20-3	10	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Phenanthrene	85-01-8	50	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Pyrene	129-00-0	50	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Total PAH (ug/L)			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOC (ug/L)																
1,1'-Biphenyl	92-52-4	5	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
2,2'-Oxybis(1-Chloropropane)	108-60-1	NA	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
2,4,5-Trichlorophenol	95-95-4	NA	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
2,4,6-Trichlorophenol	88-06-2	NA	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
2,4-Dichlorophenol	120-83-2	5	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
2,4-Dimethylphenol	105-67-9	50	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
2,4-Dinitrophenol	51-28-5	10	<10 U	<10 U	<10 U	<9.9 U	<9.9 U	<10 U	<11 U	<10 U	<9.8 U	<10 U	<9.8 U	<11 U	<9.7 U	<9.8 U
2,4-Dinitrotoluene	121-14-2	5	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
2,6-Dinitrotoluene	606-20-2	5	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
2-Chloronaphthalene	91-58-7	10	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
2-Chlorophenol	95-57-8	NA	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
2-Methylphenol	95-48-7	NA	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
2-Nitroaniline	88-74-4	5	<10 U	<10 U	<10 U	<9.9 U	<9.9 U	<10 U	<11 U	<10 U	<9.8 U	<10 U	<9.8 U	<11 U	<9.7 U	<9.8 U
2-Nitrophenol	88-75-5	NA	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
3,3'-Dichlorobenzidine	91-94-1	5	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
3-Nitroaniline	99-09-2	5	<10 U	<10 U	<10 U	<9.9 U	<9.9 U	<10 U	<11 U	<10 U	<9.8 U	<10 U	<9.8 U	<11 U	<9.7 U	<9.8 U
4,6-Dinitro-2-methylphenol	534-52-1	NA	<10 U	<10 U	<10 U	<9.9 U	<9.9 U	<10 U	<11 U	<10 U	<9.8 U	<10 U	<9.8 U	<11 U	<9.7 U	<9.8 U
4-Bromophenyl phenyl ether	101-55-3	NA	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
4-Chloro-3-methylphenol	59-50-7	NA	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
4-Chloroaniline	106-47-8	5	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
4-Chlorophenyl phenyl ether	7005-72-3	NA	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
4-Methylphenol	106-44-5	NA	<10 U	<10 U	<10 U	<9.9 U	<9.9 U	<10 U	<11 U	<10 U	<9.8 U	<10 U	<9.8 U	<11 U	<9.7 U	<9.8 U
4-Nitroaniline	100-01-6	5	<10 U	<10 U	<10 U	<9.9 U	<9.9 U	<10 U	<11 U	<10 U	<9.8 U	<10 U	<9.8 U	<11 U	<9.7 U	<9.8 U
4-Nitrophenol	100-02-7	NA	<10 U	<10 U	<10 U	<9.9 U	<9.9 U	<10 U	<11 U	<10 U	<9.8 U	<10 U	<9.8 U	<11 U	<9.7 U	<9.8 U
Acetophenone	98-86-2	NA	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Atrazine	1912-24-9	7.5	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Benzaldehyde	100-52-7	NA	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Bis(2-chloroethoxy) methane	111-91-1	5	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U
Bis(2-chloroethyl) ether	111-44-4	1	<5.0 U	<5.2 U	<5.0 U	<5.0 U	<5.0 U	<5.2 U	<5.4 U	<5.0 U	<4.9 U	<5.1 U	<4.9 U	<5.4 U	<4.9 U	<4.9 U

Table 20
Groundwater Metals and Cyanide Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Guidance Values	DUP-1 40106 DUP-1_102009	DUP-2 40108 DUP-2-102209	MW-01D 40106.35903 MW-1D-102009	MW-01S 40106.35417 MW-1S-102009	MW-02B 40106.54861 MW-2B-102009	MW-02D 40106.57292 MW-2D-102009	MW-02S 40106.44792 MW-2S-102009	MW-03B 40107.40278 MW-3B-102109	MW-03D 40107.57222 MW-3D-102109	MW-03S 40107.63889 MW-3S-102109	MW-04D 40108.38542 MW-4D-102209	MW-04S 40108.38194 MW-4S-102209
Metals (ug/L)														
Aluminum	7429-90-5	NA	<200 U	<200 U	<200 U	900	265	237	<200 U	1820	<200 U	<200 U	49 J	<200 U
Antimony	7440-36-0	3	<20.0 U	<20 U	<20.0 U	<100 U	<20 U	<20 U	<20.0 U	9.5 J	<20 U	<20 U	<20 U	<20 U
Arsenic	7440-38-2	25	<10.0 U	<10 U	10.2	17.6	5.9 J	<10 U	<10.0 U	26	17.9	<10 U	<10 U	<10 U
Barium	7440-39-3	1000	80.3	88.8	235	150	34	217	81.8	250	172	44.2	309	90.6
Beryllium	7440-41-7	3	<2.0 U	<2 U	<2.0 U	<2.0 U	<2 U	<2 U	<2.0 U	<2 U	<2 U	<2 U	<2 U	<2 U
Cadmium	7440-43-9	5	<1.0 U	<1 U	<1.0 U	<1.0 U	<1 U	0.4 J	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1 U
Calcium	7440-70-2	NA	68700	52600 J	40500	77800	30300 J	54000 J	70500	46900 J	30400 J	31900 J	81400 J	53300 J
Chromium	7440-47-3	50	166 J	18.2	1.3 J	6880 J	1.9 J	1450	123 J	4.6	<4 U	<4 U	9.4	18.1
Cobalt	7440-48-4	NA	<4.0 U	0.9 J	<4.0 U	22.8	<4 U	2.6 J	<4.0 U	<4 U	<4 U	<4 U	2.0 J	0.9 J
Copper	7440-50-8	200	2.3 J	2.1 J	<10.0 U	155	1.5 J	20.9	2.3 J	4.6 J	<10 U	1.4 J	<10 U	1.8 J
Iron	7439-89-6	300	608 J	319	95 J	33800 J	557	9460	447 J	161	92	1080	491	328
Lead	7439-92-1	25	<5.0 U	<5 U	<5.0 U	<5.0 U	<5 U	<5 U	<5.0 U	<5 U	<5 U	<5 U	<5 U	<5 U
Magnesium	7439-95-4	35000	7560	7400	10800	8170	6300	3190	7680	48 J	8080	4060	21600	7510
Manganese	7439-96-5	300	59.1	15.4 J	178	393	74.0 J	233 J	53.7	4.5 J	134 J	551 J	358 J	16.2 J
Mercury	7439-97-6	0.7	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Nickel	7440-02-0	100	24.8	64.5	<10.0 U	229	2.1 J	65.3	25.6	4.0 J	<10 U	<10 U	152	68.1
Potassium	7440-09-7	NA	3830	2480	808	5050	2200	8070	3960	146000	905	2120	1650	2540
Selenium	7782-49-2	10	<15.0 U	<15 U	<15.0 U	<15.0 U	<15 U	<15 U	<15.0 U	<15 U	<15 U	<15 U	<15 U	<15 U
Silver	7440-22-4	50	<3.0 U	<3 U	<3.0 U	<3.0 U	<3 U	<3 U	<3.0 U	<3 U	<3 U	<3 U	<3 U	<3 U
Sodium	7440-23-5	20000	40600	44500 J	37900	50900	31500 J	4200 J	41300	165000 J	30000 J	22000 J	75300 J	45200 J
Thallium	7440-28-0	0.5	<20.0 U	<20 U	<20.0 U	<20.0 U	<20 U	<20 U	<20.0 U	<20 U	<20 U	<20 U	<20 U	<20 U
Vanadium	7440-62-2	NA	<5.0 U	<5 U	<5.0 U	39.3	2.0 J	6.5	<5.0 U	13.7	<5 U	<5 U	<5 U	<5 U
Zinc	7440-66-6	2000	<10.0 U	<10 U	<10.0 U	51.4	8.1 J	17.5	<10.0 U	7.7 J	<10 U	<10 U	1.9 J	<10 U
Cyanide (ug/L)														
Total Cyanide	57-12-5	200	<10.0 U	<10 U	<10.0 U	<10.0 U	<10 U	<10 U	<10.0 U	<10 U	<10 U	<10 U	<10 U	<10 U

NA = Not Applicable
NS= Not Sampled
ug/L = micrograms per Liter
Bold = Deteted analytes
Bold and Italcis=Not detect exceeds NYS Groundwater Standards
Yellow highlighted values exceed Groundwater Standards
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 20
Groundwater Metals and Cyanide Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Guidance Values	MW-07B 40107.39236 MW-7B-102109	MW-08B 40102.38542 MW-8B-101609	MW-08D 40101.61944 MW-8D-101509	MW-08S 40101.57986 MW-8S-101509	MW-09B 40105.44444 MW-9B-101909	MW-09D 40105.52222 MW-9D-101909	MW-09S 40105.45139 MW-9S-101909	MW-10D 40105.51042 MW-10D-101909	MW-10S 40105.54514 MW-10S-101909	MW-11B 40107.60764 MW-11B-102109	MW-11S 40107.65278 MW-11S-102109	MW-13B 40107.54861 MW-13B-102109
Metals (ug/L)														
Aluminum	7429-90-5	NA	6110	2380	26900	1520	1130	1830	344	5380	8860	590	665	14300
Antimony	7440-36-0	3	<20 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20 U	<20 U	<20 U
Arsenic	7440-38-2	25	17.5	12.7	40.4	<10.0 U	<10.0 U	5.8 J	<10.0 U	<10.0 U	5.9 J	<10 U	<10 U	23.8
Barium	7440-39-3	1000	216	200	251	28.2	192	42.9	15.9	118	83.9	86.9	96.9	295
Beryllium	7440-41-7	3	0.2 J	<2.0 U	0.8 J	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	0.2 J	<2 U	<2 U	0.5 J
Cadmium	7440-43-9	5	<1 U	5.2	0.9 J	<1.0 U	1	<1.0 U	<1.0 U	<1.0 U	0.4 J	0.3 J	<1 U	1
Calcium	7440-70-2	NA	27800 J	17600	55400	33200	20100	44700	32000	43900	34600	30900 J	43500 J	38600 J
Chromium	7440-47-3	50	13.1	2.6 J	38.4 J	2.3 J	1.7 J	2.5 J	<4.0 UJ	5.7 J	10.0 J	8.6	38.8	37.7
Cobalt	7440-48-4	NA	1.4 J	<4.0 U	19.5	0.9 J	<4.0 U	0.6 J	<4.0 U	3.6 J	7.1	0.7 J	1.4 J	10.6
Copper	7440-50-8	200	7.3 J	4.2 J	38.8	4.4 J	<10.0 U	2.0 J	1.3 J	9.8 J	20.1	2.4 J	5.1 J	41.5
Iron	7439-89-6	300	4280	626 J	44200 J	2520 J	793 J	1810 J	310 J	7880 J	14600 J	868	1320	24400
Lead	7439-92-1	25	<5 U	<5.0 U	15.8	<5.0 U	<5.0 U	<5.0 U	<5.0 U	3.7 J	16.8	<5 U	3.1 J	9.5
Magnesium	7439-95-4	35000	8510	171 J	17200	6170	4580	11600	5680	11800	8960	7520	6830	10500
Manganese	7439-96-5	300	260 J	21	936	98.7	39.6	178	14.8	404	505	257 J	88.6 J	1780 J
Mercury	7439-97-6	0.7	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Nickel	7440-02-0	100	8.2 J	2.1 J	43.7	3.4 J	<10.0 U	2.1 J	<10.0 U	7.6 J	13.8	6.6 J	22.1	43.1
Potassium	7440-09-7	NA	4460	89700	8890	1640	5410	1330	1310	2680	3320	4680	2520	19200
Selenium	7782-49-2	10	<15 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	<15 U	<15 U	<15 U
Silver	7440-22-4	50	<3 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3 U	<3 U	<3 U
Sodium	7440-23-5	20000	28300 J	87600	90100	5600	32800	13500	5600	19000	5700	16600 J	90400 J	73400 J
Thallium	7440-28-0	0.5	<20 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20 U	<20 U	<20 U
Vanadium	7440-62-2	NA	25.1	15.8	32.1	1.8 J	2.9 J	2.9 J	<5.0 U	6.6	9.6	2.7 J	<5 U	51.6
Zinc	7440-66-6	2000	66.4	13.2	156	10.5	<10.0 U	13.4	<10.0 U	26.2	47.1	6.0 J	4.6 J	110
Cyanide (ug/L)														
Total Cyanide	57-12-5	200	<10 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10 U	<10 U	<10 U

NA = Not Applicable
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ug/L = micrograms per Liter
Bold = Deteted analytes
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Yellow highlighted values exceed Groundwater Standards
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
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R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
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D = Diluted run

Table 20
Groundwater Metals and Cyanide Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Guidance Values	MW-15S 40102.47917 MW-15S-101609	MW-16S 40102.44444 MW-16S-101609	MW-17S 40102.51389 MW-17S-101609	MW-20B 40105.66667 MW-20B-101909	MW-21S 40101.45486 MW-21S-101509	MW-22S 40101.40417 MW-22S101509	MW-24S 40101.36806 MW-24S101509	MW-25S 40101.46458 MW-25S101509	MW-26S 40100.64236 MW-26S-101409	MW-27S 40100.6125 MW-27S-101409	MW-28S 40100.59722 MW-28S-101409	MW-01D 40382.57778 MW-1D-072310
Metals (ug/L)														
Aluminum	7429-90-5	NA	43 J	455	51 J	1330	1220	10300	920	53 J	657	21400	2040	
Antimony	7440-36-0	3	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	
Arsenic	7440-38-2	25	<10.0 U	<10.0 U	<10.0 U	8.1 J	<10.0 U	6.9 J	<10.0 U	<10.0 U	<10.0 U	13.8	<10.0 U	
Barium	7440-39-3	1000	19.2	18.6	16	318	79.4	100	39.7	93.7	101	275	94.6	
Beryllium	7440-41-7	3	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	0.2 J	<2.0 U	<2.0 U	<2.0 U	0.6 J	<2.0 U	
Cadmium	7440-43-9	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	
Calcium	7440-70-2	NA	32900	33300	34100	140000	38200	38900	29000	55100	44100	90000	45300	
Chromium	7440-47-3	50	<4.0 UJ	1.0 J	<4.0 UJ	1.4 J	1.8 J	12.9 J	1.5 J	<4.0 UJ	3.4 J	21.5 J	3.2 J	
Cobalt	7440-48-4	NA	<4.0 U	<4.0 U	<4.0 U	0.8 J	<4.0 U	8.7	<4.0 U	<4.0 U	0.6 J	19.5	1.4 J	
Copper	7440-50-8	200	1.3 J	1.8 J	<10.0 U	2.8 J	3.4 J	23.4	2.6 J	<10.0 U	3.5 J	53.8	5.8 J	
Iron	7439-89-6	300	91 J	714 J	70 J	1190 J	1620 J	17800 J	1410 J	84 J	858 J	36000 J	3330 J	
Lead	7439-92-1	25	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	12.4	<5.0 U	<5.0 U	<5.0 U	30.8	<5.0 U	
Magnesium	7439-95-4	35000	5340	5330	5470	616	5790	9840	4640	8490	6980	20900	7530	
Manganese	7439-96-5	300	129	61.3	7.4	34.2	452	958	147	4.5	94.8	2180	171	
Mercury	7439-97-6	0.7	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	
Nickel	7440-02-0	100	1.3 J	<10.0 U	<10.0 U	1.5 J	2.0 J	19.2	1.7 J	<10.0 U	3.1 J	40.3	4.1 J	
Potassium	7440-09-7	NA	1420	1530	1400	102000	2750	3520	1670	2710	3620	6590	3800	
Selenium	7782-49-2	10	<15.0 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	
Silver	7440-22-4	50	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	
Sodium	7440-23-5	20000	6500	6400	6400	173000	61800	6300	24300	67700	125000	103000	123000	
Thallium	7440-28-0	0.5	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	
Vanadium	7440-62-2	NA	<5.0 U	<5.0 U	<5.0 U	9.6	1.3 J	10	1.4 J	<5.0 U	<5.0 U	21	2.1 J	
Zinc	7440-66-6	2000	5.4 J	29.7	4.0 J	<10.0 U	6.8 J	47.3	6.3 J	2.3 J	7.6 J	104	11.2	
Cyanide (ug/L)														
Total Cyanide	57-12-5	200	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U	

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Table 20
Groundwater Metals and Cyanide Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Guidance Values	MW-01S 40382.55694 MW-1S-072310	MW-02B 40385.52083 MW-2B-072610	MW-02D 40385.60069 MW-2D-072610	MW-02S 40382.42361 MW-2S-072310	MW-03B 40385.64583 MW-3B-072610	MW-03D 40382.41806 MW-3D-072310	MW-03S 40382 DUP-2-072310	MW-03S 40382.36458 MW-3S-072310	MW-04D 40378.66319 MW-4D-071910	MW-04S 40378.66875 MW-4S-071910	MW-07B 40385.71875 MW-7B-072610	MW-08B 40381.60417 MW-8B-072210
Metals (ug/L)														
Aluminum	7429-90-5	NA	56 J				1260				<200 UJ			72700
Antimony	7440-36-0	3	<20.0 U				<20.0 U				<20.0 U			<20.0 U
Arsenic	7440-38-2	25	<10.0 U				27.1				<10.0 U			40.6
Barium	7440-39-3	1000	80.3				170				88			3320
Beryllium	7440-41-7	3	<2.0 U				<2.0 U				<2.0 U			2.8
Cadmium	7440-43-9	5	<1.0 U				<1.0 U				<1.0 U			<1.0 U
Calcium	7440-70-2	NA	65400				32300				44700			286000
Chromium	7440-47-3	50	18.3				2.6 J				66.4 J			76.9
Cobalt	7440-48-4	NA	<4.0 U				0.7 J				<4.0 U			55.9
Copper	7440-50-8	200	1.8 J				<10.0 U				<10.0 U			130
Iron	7439-89-6	300	142				238				1070 J			112000
Lead	7439-92-1	25	<5.0 U				<5.0 U				<5.0 U			55.7
Magnesium	7439-95-4	35000	6960				<200 U				20300			60600
Manganese	7439-96-5	300	5.4				<3.0 U				117			5870
Mercury	7439-97-6	0.7	<0.2 U				<0.2 UJ				<0.2 U			<0.2 UJ
Nickel	7440-02-0	100	12.8				3.6 J				398			117
Potassium	7440-09-7	NA	4200				116000				1630			24000
Selenium	7782-49-2	10	<15.0 U				<15.0 U				<15.0 U			<15.0 U
Silver	7440-22-4	50	<3.0 U				<3.0 U				<3.0 U			<3.0 U
Sodium	7440-23-5	20000	91100				178000				75400			28500
Thallium	7440-28-0	0.5	<20.0 U				<20.0 U				<20.0 U			<20.0 U
Vanadium	7440-62-2	NA	<5.0 U				16.5				<5.0 U			92.9
Zinc	7440-66-6	2000	7.8 J				4.3 J				<10.0 UJ			495
Cyanide (ug/L)														
Total Cyanide	57-12-5	200	<10.0 U								<10.0 U			<10.0 U

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Table 20
Groundwater Metals and Cyanide Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Guidance Values	MW-08D 40381.59375 MW-8D-072210	MW-08S 40380.61319 MW-8S-072110	MW-09B 40381.61806 MW-9B-072210	MW-09D 40379.63889 MW-9D-072010	MW-09S 40379.5625 MW-9S-072010	MW-10D 40380.56944 MW-10D-072110	MW-10S 40379.54931 MW-10S-072010	MW-11B 40380.59722 MW-11B-072110	MW-11S 40385.43403 MW-11S-072610	MW-13B 40385.67708 MW-13B-072610	MW-15D 40380 DUP-1-072110	MW-15D 40380.52431 MW-15D-072110
Metals (ug/L)														
Aluminum	7429-90-5	NA	25600										31300 J	40600 J
Antimony	7440-36-0	3	<20.0 U										<20.0 U	<20.0 U
Arsenic	7440-38-2	25	27.3										29.6	31.8
Barium	7440-39-3	1000	413										835	822
Beryllium	7440-41-7	3	<2.0 U										1.2 J	1.5 J
Cadmium	7440-43-9	5	5.9										<1.0 U	<1.0 U
Calcium	7440-70-2	NA	44700										557000	464000
Chromium	7440-47-3	50	26.5										29.7 J	39.2 J
Cobalt	7440-48-4	NA	16.9										26.1	32
Copper	7440-50-8	200	44.2										36.3	48.4
Iron	7439-89-6	300	35100										58100 J	73400 J
Lead	7439-92-1	25	29										22.4	28.8
Magnesium	7439-95-4	35000	15000										33900	37200
Manganese	7439-96-5	300	813										4640	4210
Mercury	7439-97-6	0.7	<0.2 UJ										<0.2 U	<0.2 U
Nickel	7440-02-0	100	37.6										53.5	68
Potassium	7440-09-7	NA	9420										9350	11400
Selenium	7782-49-2	10	<15.0 U										<15.0 U	<15.0 U
Silver	7440-22-4	50	<3.0 U										<3.0 U	<3.0 U
Sodium	7440-23-5	20000	57200										95100	96300
Thallium	7440-28-0	0.5	<20.0 U										<20.0 U	<20.0 U
Vanadium	7440-62-2	NA	30.4										31	40.2
Zinc	7440-66-6	2000	147										156 J	196 J
Cyanide (ug/L)														
Total Cyanide	57-12-5	200	<10.0 U										17.6	<10.0 U

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NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Guidance Values	MW-15S 40379.40625 MW-15S-072010	MW-16S 40379.42361 MW-16S-072010	MW-17S 40379.36111 MW-17S-072010	MW-20B 40385.70833 MW-20B-072610	MW-21S 40380.4375 MW-21S-072110	MW-22D 40381.57292 MW-22D-072210	MW-22S 40380.40069 MW-22S-072110	MW-24S 40380.38542 MW-24S-072110	MW-25S 40381.35972 MW-25S-072210	MW-26S 40378.60764 MW-26S-071910	MW-27S 40378.57639 MW-27S-071910	MW-28S 40378.59722 MW-28S-071910
Metals (ug/L)														
Aluminum	7429-90-5	NA						13300						
Antimony	7440-36-0	3						<20.0 U						
Arsenic	7440-38-2	25						13.7						
Barium	7440-39-3	1000						179						
Beryllium	7440-41-7	3						0.3 J						
Cadmium	7440-43-9	5						<1.0 U						
Calcium	7440-70-2	NA						21500						
Chromium	7440-47-3	50						18.2						
Cobalt	7440-48-4	NA						10.1						
Copper	7440-50-8	200						24.1						
Iron	7439-89-6	300						20800						
Lead	7439-92-1	25						10.5						
Magnesium	7439-95-4	35000						8870						
Manganese	7439-96-5	300						501						
Mercury	7439-97-6	0.7						<0.2 U						
Nickel	7440-02-0	100						21.8						
Potassium	7440-09-7	NA						92700						
Selenium	7782-49-2	10						<15.0 U						
Silver	7440-22-4	50						<3.0 U						
Sodium	7440-23-5	20000						174000						
Thallium	7440-28-0	0.5						<20.0 U						
Vanadium	7440-62-2	NA						18.2						
Zinc	7440-66-6	2000						<10.0 UJ						
Cyanide (ug/L)														
Total Cyanide	57-12-5	200						<10.0 U						

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J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 20
Groundwater Metals and Cyanide Results
NYSEG Granville Former MGP Site
Granville, New York

Location ID Sample Date Sample ID	CAS #	NYSDEC Guidance Values	MW-29B 40385.49444 MW-29B-072610	MW-30B 40381.47917 MW-30B-072210	MW-31S 40379.37153 MW-31S-072010	MW-32B 40385.52778 MW-32B-072610	MW-33S 40381.41181 MW-33S-072210	MW-34S 40381.35764 MW-34S-072210
Metals (ug/L)								
Aluminum	7429-90-5	NA	1260	2750	<200 U	3580	83 J	853
Antimony	7440-36-0	3	<20.0 U	7.2 J	<20.0 U	<20.0 U	<20.0 U	<20.0 U
Arsenic	7440-38-2	25	<10.0 U	8.2 J	<10.0 U	8.8 J	<10.0 U	<10.0 U
Barium	7440-39-3	1000	104	158	14.2	110	96.6	111
Beryllium	7440-41-7	3	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U
Cadmium	7440-43-9	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Calcium	7440-70-2	NA	30300	41500	34600	37100	43000	49700
Chromium	7440-47-3	50	5	13.2	<4.0 UJ	9.8	<4.0 U	1.0 J
Cobalt	7440-48-4	NA	0.8 J	1.7 J	<4.0 U	1.2 J	<4.0 U	0.8 J
Copper	7440-50-8	200	2.6 J	5.3 J	<10.0 U	4.8 J	<10.0 U	2.3 J
Iron	7439-89-6	300	1320	2500	62 J	2990	<50 U	1320
Lead	7439-92-1	25	<5.0 U	3.6 J	<5.0 U	<5.0 U	<5.0 U	<5.0 U
Magnesium	7439-95-4	35000	9980	12400	5300	9010	6600	7650
Manganese	7439-96-5	300	282	362	6.6	204	5.8	88.1
Mercury	7439-97-6	0.7	<0.2 UJ	0.1 J	<0.2 U	<0.2 UJ	<0.2 UJ	<0.2 UJ
Nickel	7440-02-0	100	4.6 J	11.2	<10.0 U	9.4 J	<10.0 U	1.5 J
Potassium	7440-09-7	NA	5020	1840	1110	2080	2580	2830
Selenium	7782-49-2	10	<15.0 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U	<15.0 U
Silver	7440-22-4	50	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U
Sodium	7440-23-5	20000	16000	27000	6800	46700	123000	121000
Thallium	7440-28-0	0.5	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U	<20.0 U
Vanadium	7440-62-2	NA	8.1	13.6	<5.0 UJ	11.5	<5.0 U	<5.0 U
Zinc	7440-66-6	2000	17.5	46.3	<10.0 UJ	51.6	<10.0 U	6.1 J
Cyanide (ug/L)								
Total Cyanide	57-12-5	200		<10.0 U	<10.0 U	<10.0 U	<10.0 U	<10.0 U

NA = Not Applicable
NS= Not Sampled
ug/L = micrograms per Liter
Bold = Deteted analytes
Bold and Italcis=Not detect exceeds NYS Groundwater Standards
Yellow highlighted values exceed Groundwater Standards
U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ = (Inorganics) The result is an estimated quantity, but the result may be biased high.
J- = (Inorganics) The result is an estimated quantity, but the result may be biased low.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet the quality control criteria. The presence of absence of the analyte cannot be verified.
N = (Organics) The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ = (Organics) The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
D = Diluted run

Table 21
Soil Vapor VOC Results
NYSEG Granville Former MGP Site
Granville, New York

Sample Location												Outdoor		NYSDOH Background Indoor	
Type of Sample	Sample ID	CAS No.	Soil Vapor SV1		Soil Vapor SV2		Soil Vapor SV3		Soil Vapor SV4		Soil Vapor SV5		Ambient AMB1	Air Values ³	
Laboratory ID	Sampling Date		0811464A-01A		0811464A-02A		0811464A-03A		0811464A-04A		0811464A-05A		0811464A-06A		
			11/19/2008		11/19/2008		11/19/2008		11/19/2008		11/19/2008		11/19/2008		
Compound (µg/m ³)														75th Percentile	90th Percentile
Possibly MGP Related or Other Sources ¹															
1,2,4-Trimethylbenzene	95-63-6	0.69	U	0.67	U	0.69	U	0.69	U	0.67	U	0.67	U	4.3	9.5
1,3,5-Trimethylbenzene	108-67-8	0.69	U	0.67	U	0.69	U	0.69	U	0.67	U	0.67	U	1.7	3.6
2,2,4-Trimethylpentane	540-84-1	3.3	U	3.2	U	3.3	U	3.3	U	3.2	U	3.2	U	NL	NL
2,3-Dimethylpentane	565-59-3	2.9	U	2.8	U	2.9	U	2.9	U	2.8	U	2.8	U	2.2	7.5
2-Methylpentane	107-83-5	2.5	U	2.4	U	2.5	U	2.5	U	2.4	U	2.4	U	NL	NL
4-Ethyltoluene	622-96-8	3.5	U	3.3	U	3.5	U	3.5	U	3.3	U	3.3	U	NL	NL
Benzene	71-43-2	2.8	U	2.5	U	2.2	U	0.96	U	0.64	U	0.60	U	5.9	15
Carbon Disulfide	75-15-0	2.2	U	2.1	U	2.2	U	2.2	U	2.1	U	2.1	U	NL	NL
Cyclohexane	110-82-7	2.4	U	2.3	U	2.4	U	2.4	U	2.3	U	2.3	U	2.6	8.1
Ethylbenzene	100-41-4	0.61	U	0.62	U	0.62	U	0.61	U	0.59	U	0.59	U	2.8	7.4
Heptane	142-82-5	2.9	U	2.8	U	2.9	U	2.9	U	2.8	U	2.8	U	7.6	19
Hexane	110-54-3	2.5	U	2.4	U	2.5	U	2.5	U	2.4	U	2.4	U	6	18
Indan	496-11-7	3.4	U	3.3	U	3.4	U	3.4	U	3.3	U	3.3	U	NL	NL
Indene	95-13-6	3.3	U	3.2	U	3.3	U	3.3	U	3.2	U	3.2	U	NL	NL
Isopentane	78-784	2.1	U	2.0	U	2.1	U	2.1	U	2.0	U	2.0	U	NL	NL
Naphthalene	91-20-3	3.7	U	3.6	U	3.7	U	3.7	U	3.6	U	3.6	U	NL	NL
Styrene	100-42-5	0.60	U	0.58	U	0.66	U	0.60	U	0.58	U	0.58	U	0.64	1.3
Thiophene	110-02-1	2.4	U	2.3	U	2.4	U	2.4	U	2.3	U	2.3	U	NL	NL
Toluene	108-88-3	4.9	U	4.5	U	3.4	U	2.3	U	2.3	U	2.8	U	24.8	58
m/p-Xylenes	136777-61-2	1.8	U	1.7	U	2.2	U	1.7	U	1.7	U	0.65	U	4.6	12
o-Xylene	95-47-6	1.1	U	1.1	U	1.4	U	1.3	U	1.1	U	0.59	U	3.1	7.6
Not MGP Related ²															
1,1,1-Trichloroethane (1,1,1-TCA)	71-55-6	0.77	U	0.74	U	0.77	U	0.77	U	0.74	U	0.74	U	1.1	3.1
1,1,2,2-Tetrachloroethane	79-34-5	0.97	U	0.93	U	0.97	U	0.97	U	0.93	U	0.93	U	<0.25	<0.25
1,1,2-Trichloroethane	79-00-5	0.77	U	0.74	U	0.77	U	0.77	U	0.74	U	0.74	U	<0.25	<0.25
1,1-Dichloroethane	75-34-3	0.57	U	0.55	U	0.57	U	0.57	U	0.55	U	0.55	U	<0.25	<0.25
1,1-Dichloroethene	75-35-4	0.56	U	0.54	U	0.56	U	0.56	U	0.54	U	0.54	U	<0.25	<0.25
1,2,4-Trichlorobenzene	120-82-1	5.2	U	5.0	U	5.2	U	5.2	U	5.0	U	5.0	U	<0.25	3.4
1,2-Dibromoethane (EDB)	106-93-4	1.1	U	1.0	U	1.1	U	1.1	U	1.0	U	1.0	U	<0.25	<0.25
1,2-Dichlorobenzene	95-50-1	0.85	U	0.82	U	0.85	U	0.85	U	0.82	U	0.82	U	<0.25	0.72
1,2-Dichloroethane	107-06-2	0.57	U	0.55	U	0.57	U	0.57	U	0.55	U	0.55	U	<0.25	<0.25
1,2-Dichloropropane	78-87-5	0.65	U	0.63	U	0.65	U	0.65	U	0.63	U	0.63	U	<0.25	<0.25
1,3-Butadiene	106-99-0	1.6	U	1.5	U	1.6	U	1.6	U	1.5	U	1.5	U	NL	NL
1,3-Dichlorobenzene	541-73-1	0.85	U	0.82	U	0.85	U	0.85	U	0.82	U	0.82	U	<0.25	0.6
1,4-Dichlorobenzene	106-46-7	0.85	U	0.82	U	0.85	U	0.85	U	0.82	U	0.82	U	0.54	1.3
1,4-Dioxane	123-91-1	2.5	U	2.4	U	2.5	U	2.5	U	2.4	U	2.4	U	NL	NL
2-Butanone (MEK)	78-93-3	3.4	U	3.0	U	2.1	U	2.3	U	2.0	U	2.0	U	7.3	16
2-Hexanone	591-78-6	3.5	U	2.8	U	2.9	U	2.9	U	2.8	U	2.8	U	NL	NL
4-Methyl-2-pentanone	108-10-1	2.9	U	2.8	U	2.9	U	2.9	U	2.8	U	2.8	U	0.86	2.2
Acetone	67-64-1	28	U	24	U	24	U	22	U	14	U	5.2	U	52	110
Benzyl chloride	100-44-7	0.73	U	0.70	U	0.73	U	0.73	U	0.70	U	0.70	U	NL	NL
Bromodichloromethane	75-27-4	4.7	U	4.6	U	4.7	U	4.7	U	4.6	U	4.6	U	NL	NL
Bromoform	75-25-2	7.3	U	7.0	U	7.3	U	7.3	U	7.0	U	7.0	U	NL	NL
Bromomethane	74-83-9	0.55	U	0.53	U	0.55	U	0.55	U	0.53	U	0.53	U	<0.25	0.6
Carbon Tetrachloride	56-23-5	0.89	U	0.86	U	0.89	U	0.89	U	0.86	U	1.1	U	0.59	0.81
Chlorobenzene	108-90-7	0.65	U	0.63	U	0.65	U	0.65	U	0.63	U	0.63	U	<0.25	<0.25
Chloroethane	75-00-3	0.37	U	0.36	U	0.37	U	0.37	U	0.36	U	0.36	U	<0.25	<0.25
Chloroform	67-66-3	1.2	U	0.66	U	3.6	U	3.5	U	0.66	U	0.66	U	0.54	1.4
Chloromethane	74-87-3	0.29	U	0.28	U	0.29	U	0.29	U	0.28	U	1.6	U	1.8	3.3
cis-1,2-Dichloroethene	156-59-2	0.56	U	0.54	U	0.56	U	0.56	U	0.54	U	0.54	U	<0.25	<0.25
cis-1,3-Dichloropropene	10061-01-5	0.64	U	0.62	U	0.64	U	0.64	U	0.62	U	0.62	U	<0.25	<0.25
Dibromochloromethane	124-48-1	6.0	U	5.8	U	6.0	U	6.0	U	5.8	U	5.8	U	NL	NL
Ethanol	64-17-5	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	540	1400
Trichlorofluoromethane (Freon 11)	75-69-4	5.0	U	8.6	U	2.8	U	4.2	U	2.1	U	1.9	U	5.4	17
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	1.1	U	1.0	U	1.1	U	1.1	U	1.0	U	1.0	U	1.1	1.8
1,2-Dichlorotetrafluoroethane	76-14-2	0.98	U	0.95	U	0.98	U	0.98	U	0.95	U	0.95	U	<0.25	0.52
Dichlorodifluoromethane (Freon 12)	75-71-8	1.7	U	1.6	U	1.1	U	1.4	U	2.9	U	3.6	U	4.1	15
Hexachlorobutadiene (C-46)	87-68-3	7.5	U	7.2	U	7.5	U	7.5	U	7.2	U	7.2	U	<0.25	4.6
Methyl tert-Butyl Ether (MTBE)	1634-04-4	2.5	U	2.4	U	2.5	U	2.5	U	2.4	U	2.4	U	5.6	27
Methylene Chloride (Dichloromethane)	75-09-2	0.49	U	0.47	U	0.49	U	0.49	U	0.47	U	0.47	U	6.6	22
2-Propanol	67-63-0	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	NL	NL
2-Propene	115-07-1	2.8	J	3.3	J	3.1	J	2.3	J	2.0	J	1.2	U	NL	NL
Tetrachloroethene (PCE)	127-18-4	0.96	U	0.94	U	1.2	U	1.2	U	0.92	U	0.92	U	1.1	2.9
Tetrahydrofuran	109-99-9	2.1	U	2.0	U	2.1	U	2.1	U	2.0	U	2.0	U	0.35	3.3
Trans-1,2-Dichloroethene	156-60-5	2.8	U	2.7	U	2.8	U	2.8	U	2.7	U	2.7	U	NA	NA
Trans-1,3-Dichloropropene	10061-02-6	0.64	U	0.62	U	0.64	U	0.64	U	0.62	U	0.62	U	<0.25	<0.25
Trichloroethene (TCE)	79-01-6	0.76	U	0.73	U	0.76	U	0.76	U	0.73	U	0.73	U	<0.25	0.48
Vinyl Chloride	75-01-4	0.36	U	0.35	U	0.36	U	0.36	U	0.35	U	0.35	U	<0.25	<0.25

Notes:

All units in micrograms per cubic meter (µg/m³)

1 - These compounds may be related to either MGP sources or non-MGP sources, or both. MGP sources include MGP tars and petroleum feedstocks used in MGP processes, such as the carburetted water gas process. Non-MGP sources include cleaning products, floor wax and polish, vehicle exhaust, construction materials, and cigarette smoke.

2 - These compounds are not related to MGP sources and are present due to non-MGP sources, such as vehicle exhaust, heating and air conditioning systems, cleaning agents, art supplies, paints, etc.

3 - New York State Department of Health, November 14, 2005.

Bold - Compound detected in a concentration greater than the method reporting limits

Exceeds NYSDOH Background Indoor Air Values 75th Percentile

Exceeds NYSDOH Background Indoor Air Values 90th Percentile

Dup - As suffix on Sample ID indicates that the sample is a field duplicate.

NL - Not listed - data not available for background concentrations for these compounds.

U - The compound was analyzed for, but was not detected above the method reporting limit.

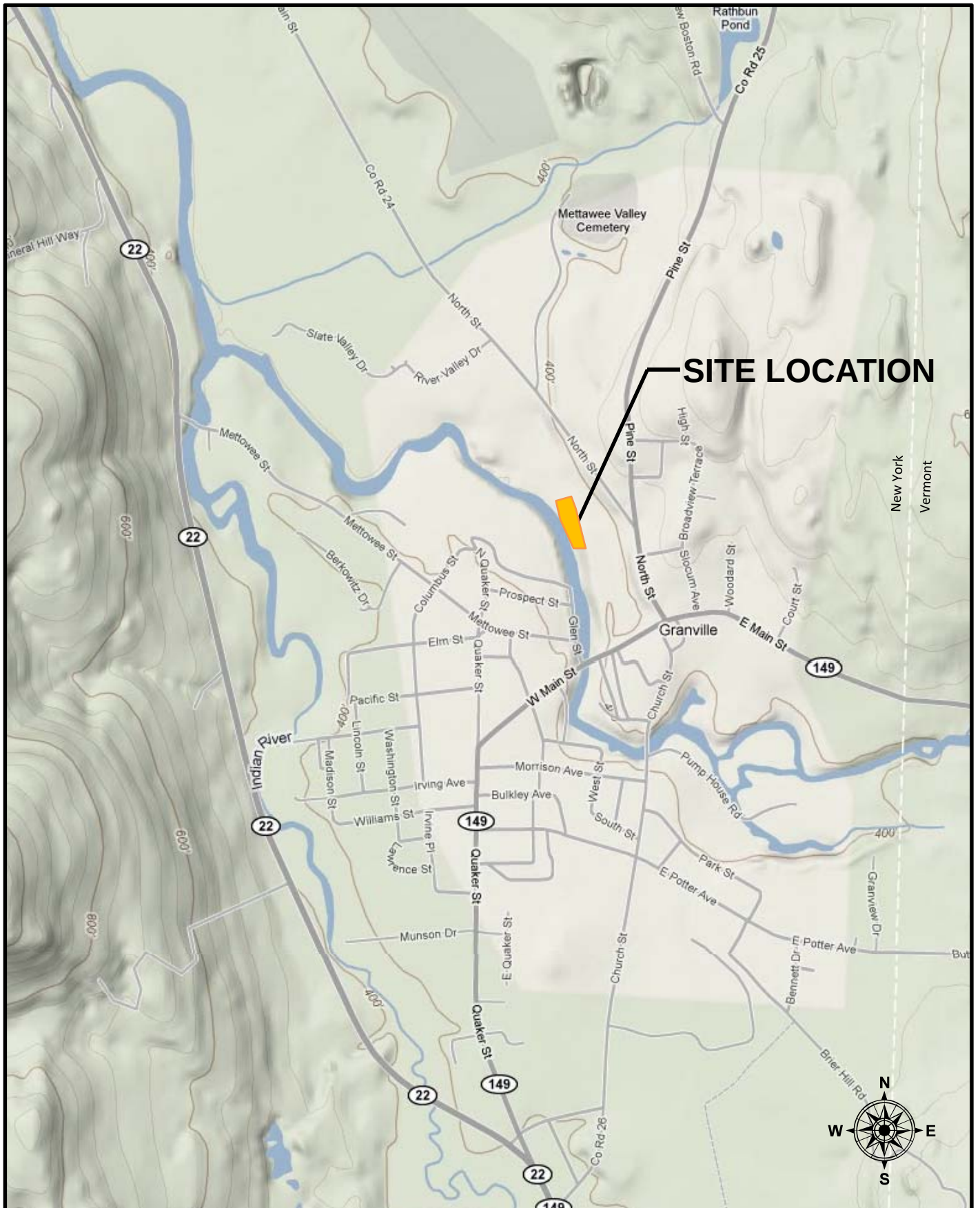
J - The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be UJ - inaccurate or imprecise.

Table 22
Human Health Conceptual Site Model
NYSEG Granville Former MGP Site
Granville, New York

Contaminant Source Transport Mechanism Exposure Route			Receptors				
			Current Use		Future Use		Rationale/Data Needs
			Onsite Industrial Workers	Offsite Residents & recreators (Adult/Child)	Onsite Industrial Workers	Offsite Residents & recreators (Adult/Child)	
Surface Soil	Direct Contact	Dermal Adsorption	Incomplete	Incomplete	Incomplete	Incomplete	Direct contact with surface soil is potentially complete for current onsite maintenance workers and potential subsurface utility workers. However, no significant concentrations of MGP-related chemicals have been detected in surface soils.
		Incidental Ingestion	Incomplete	Incomplete	Incomplete	Incomplete	
	Air Transport	Inhalation of Particulates	Insignificant	Insignificant	Insignificant	Insignificant	Air transport via inhalation of particulates and vapors are a potentially complete pathway for current or future workers that may dig or disturb the surface soil during excavation or other work activities. However, air transport via inhalation of particulates and vapors is considered an insignificant pathway for current and future offsite residents because of the distance to the nearest residence and the site is covered with vegetation or gravel which suppresses dust release. In addition, no significant concentrations of MGP-related chemicals have been detected in surface soils.
		Inhalation of VOCs	Insignificant	Insignificant	Insignificant	Insignificant	
	Surface Water Runoff and Associated Sediments	Dermal Adsorption	Insignificant	Insignificant	Insignificant	Insignificant	Incidental ingestion and direct contact from surface water and sediment is considered insignificant for on-site workers. Permeability of the site soils are high and the surface water infiltrates with little runoff at the site. Recreational visitors to the park west of the Mettawee River may fish or otherwise come in contact with the river, but because there is no significant groundwater discharge to the river in the vicinity of the Site, there is no exposure to site-related COCs.
		Incidental Ingestion	Insignificant	Insignificant	Insignificant	Insignificant	
		Bio-Accumulation/ Consumption of Fish	Insignificant	Insignificant	Insignificant	Insignificant	
Subsurface Soil	Direct Contact	Dermal Adsorption	Potentially Complete	Incomplete	Potentially Complete	Incomplete	Direct contact with, and incidental ingestion of, subsurface soil is potentially complete for future-current onsite industrial workers. Exposure to subsurface soil may occur when onsite workers engage in excavation activities. Exposure would be limited by use of proper hazwaste PPE.
		Incidental Ingestion	Potentially Complete	Incomplete	Potentially Complete	Incomplete	
	Unsaturated/ Saturated Zone Transport to Groundwater	Dermal Adsorption	Potentially Complete	Incomplete	Potentially Complete	Incomplete	Incidental ingestion and dermal contact with chemicals in groundwater is considered a potentially complete pathway for current and future onsite construction workers doing excavation, trenching and dewatering activities. Exposure to subsurface soil may occur when onsite workers engage in excavation activities. Exposure would be limited by implementation of a proper work plan. Incidental ingestion, dermal contact, and direct inhalation of vapors from groundwater pathways are considered to be incomplete for the offsite residents. The groundwater on site is not a source of drinking water for the site or for any of the nearby residents. Direct inhalation of vapors from groundwater pathways were considered to be complete for the current and future onsite industrial workers because BTEX were detected in the groundwater. The highest exposure would be expected for onsite workers engage in excavation activities.
		Incidental Ingestion	Potentially Complete	Incomplete	Potentially Complete	Incomplete	
		Inhalation of VOCs	Potentially Complete	Incomplete	Potentially Complete	Incomplete	
		Drinking Water	Incomplete	Incomplete	Incomplete	Incomplete	

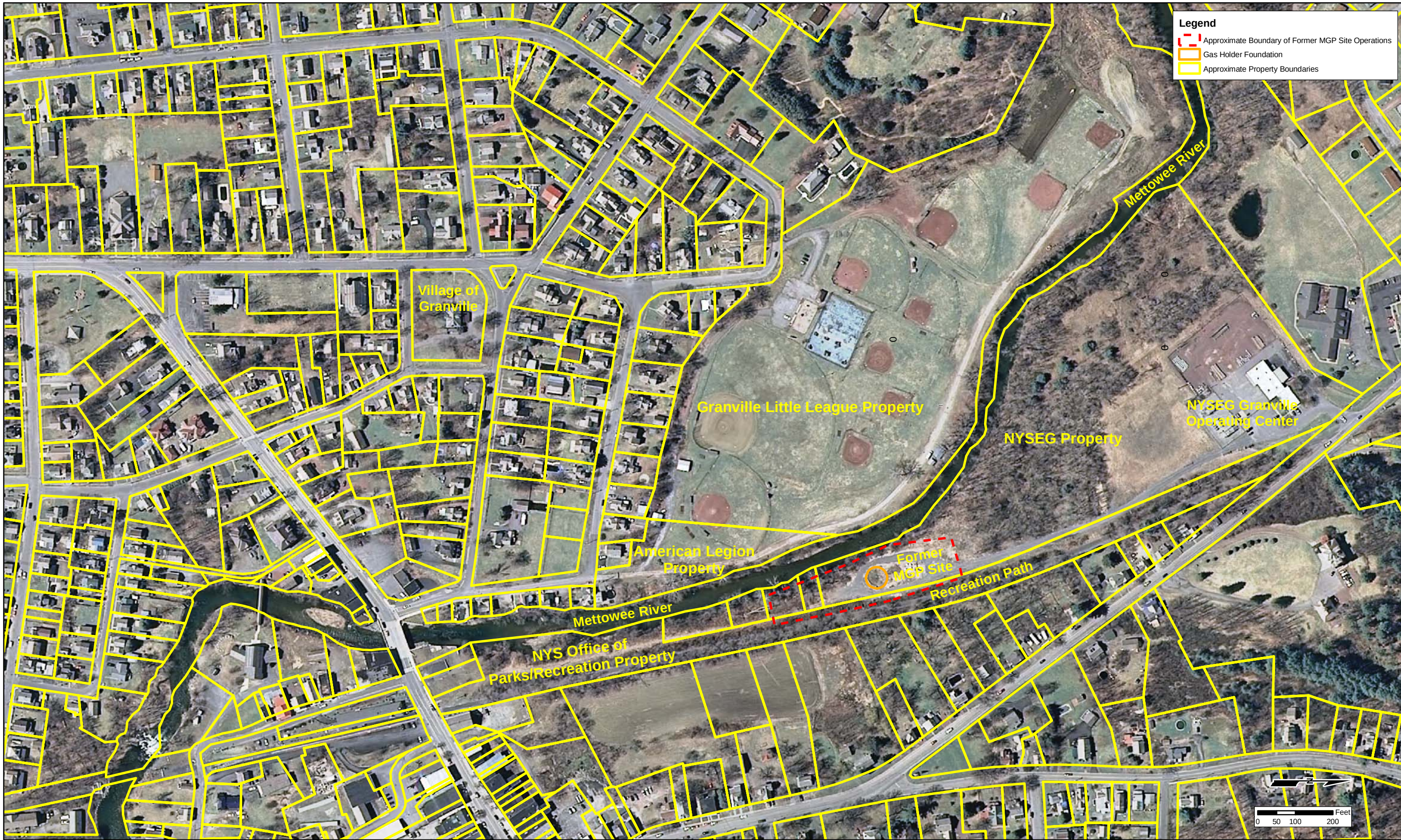
FIGURES

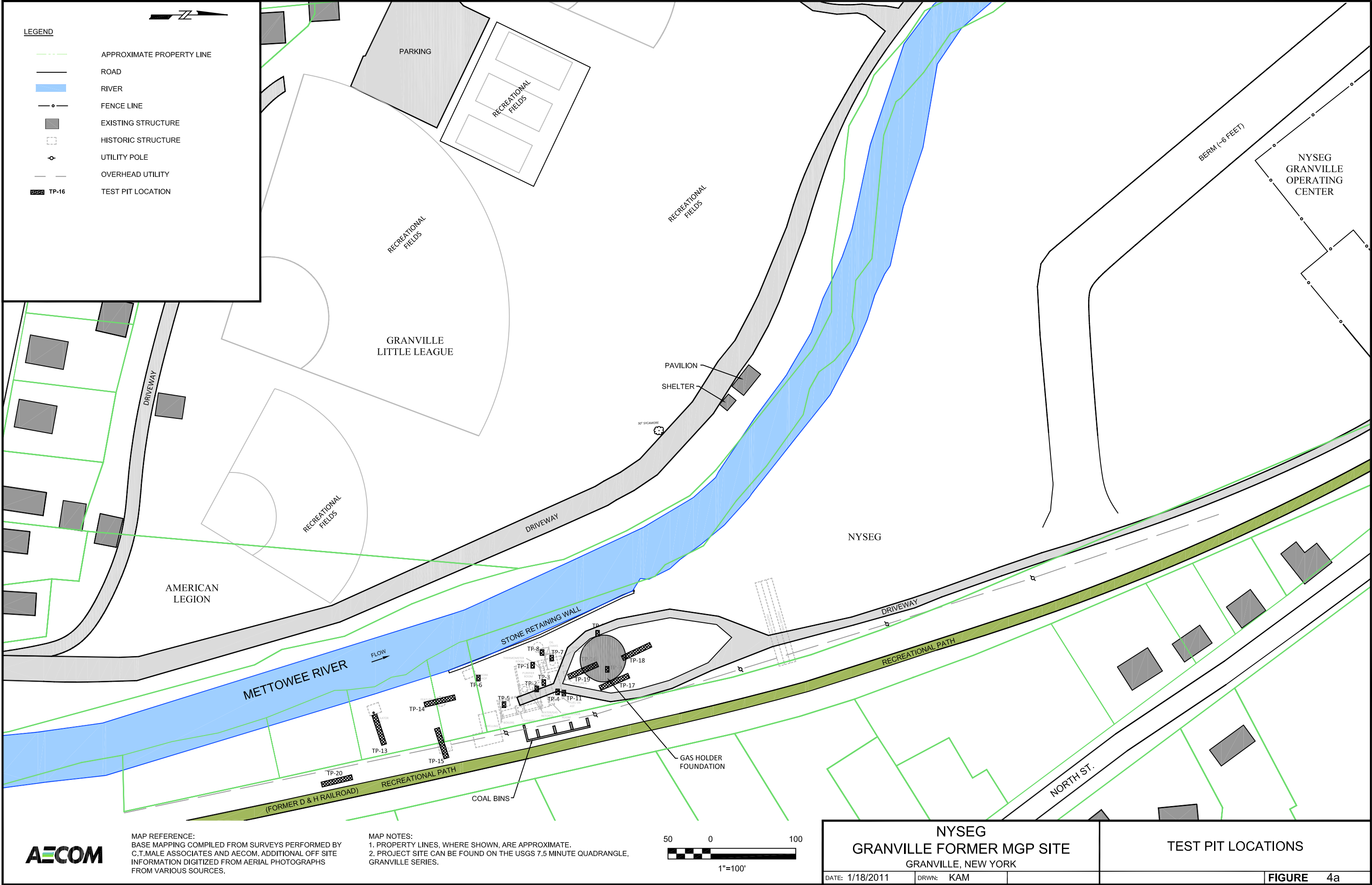


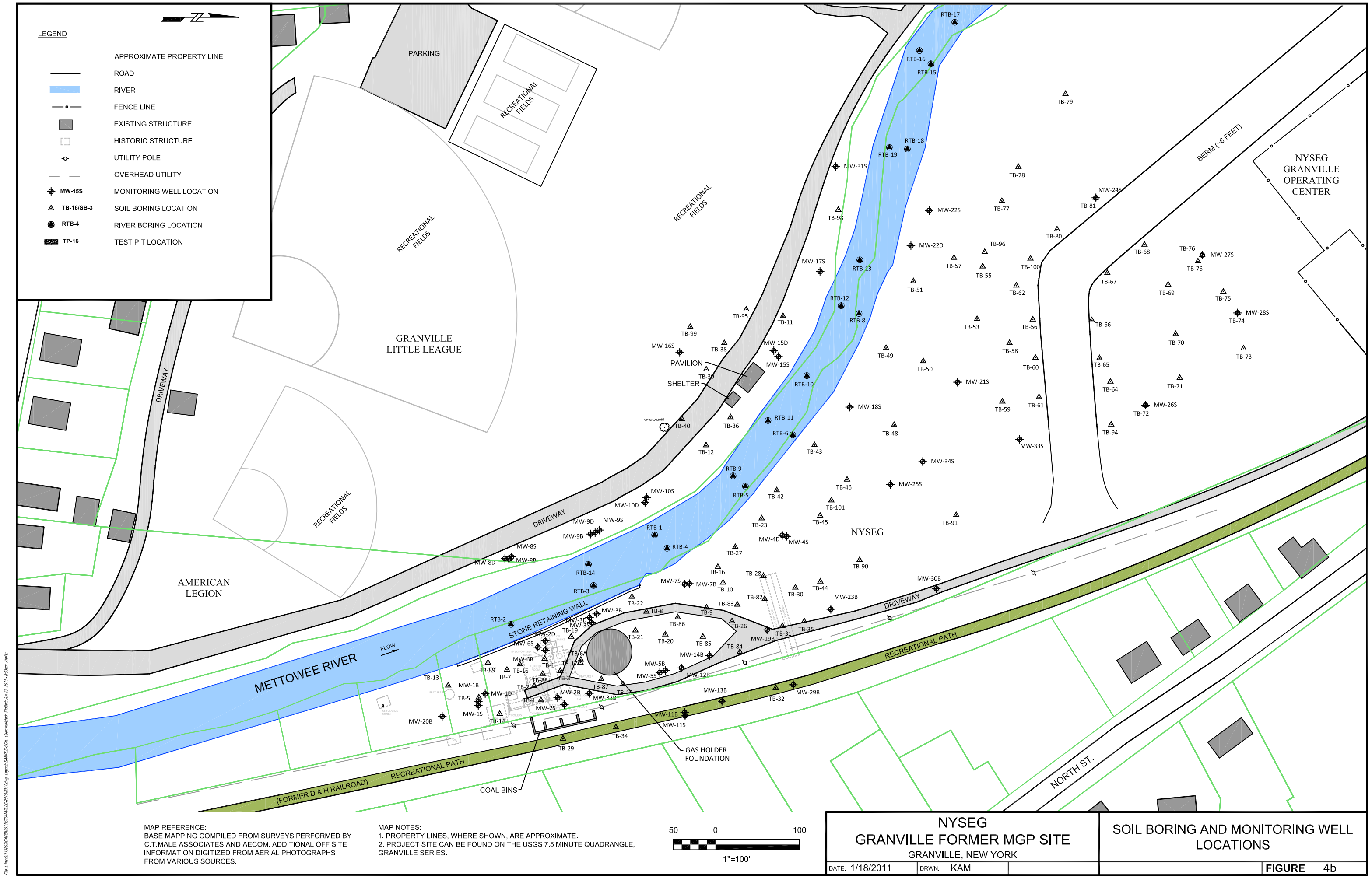
1000 FT

Source: © 2010 Google – Map Data © 2010 Google

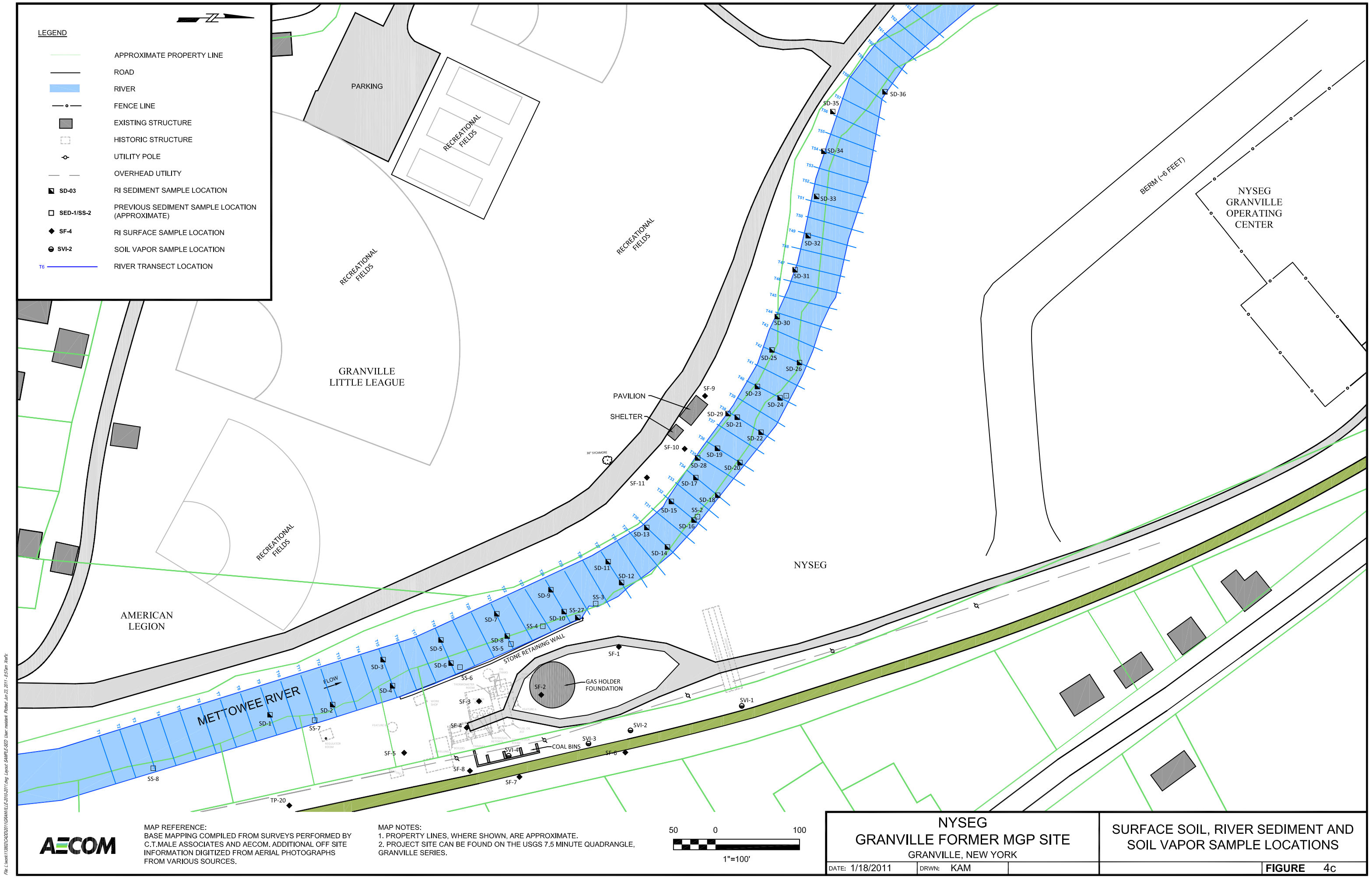
NYSEG GRANVILLE FORMER MGP SITE GRANVILLE, NEW YORK		SITE LOCATION MAP	
DATE: 12/3/10			FIGURE 1







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and/or Work Product Doctrines

Granville Former MGP
NYSEG, Granville, NY (60137390)

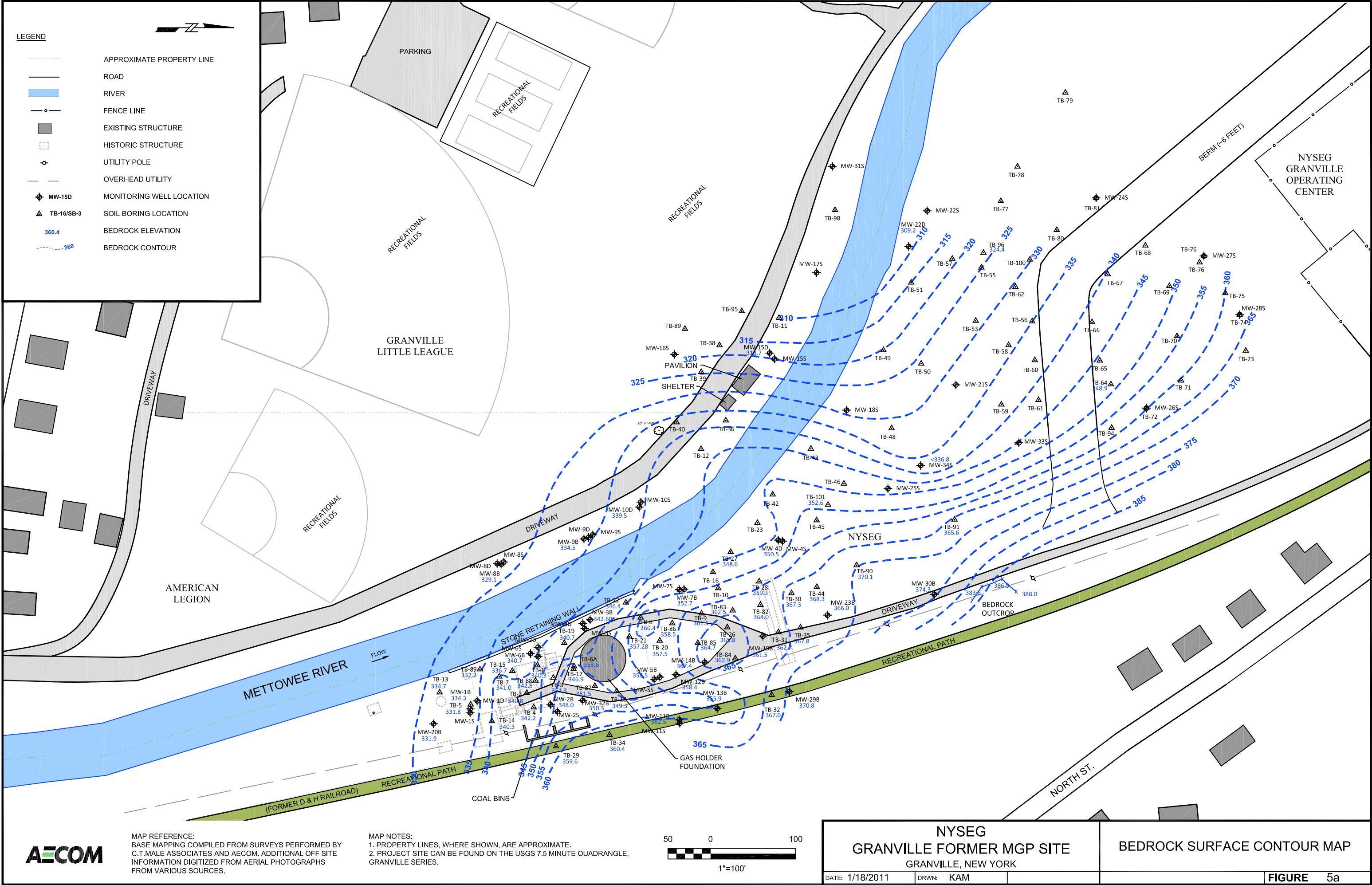
DATE: 12/6/10

DRWN: HAJ/lth

Revision: 0

River Sediments and
Surface Soil Sample Locations

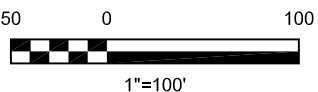
FIGURE 4d



- LEGEND**
- APPROXIMATE PROPERTY LINE
 - ROAD
 - RIVER
 - FENCE LINE
 - EXISTING STRUCTURE
 - HISTORIC STRUCTURE
 - UTILITY POLE
 - OVERHEAD UTILITY
 - MONITORING WELL LOCATION
 - SOIL BORING LOCATION
 - BEDROCK ELEVATION
 - BEDROCK CONTOUR

MAP REFERENCE:
BASE MAPPING COMPILED FROM SURVEYS PERFORMED BY
C.T.MALE ASSOCIATES AND AECOM. ADDITIONAL OFF SITE
INFORMATION DIGITIZED FROM AERIAL PHOTOGRAPHS
FROM VARIOUS SOURCES.

MAP NOTES:
1. PROPERTY LINES, WHERE SHOWN, ARE APPROXIMATE.
2. PROJECT SITE CAN BE FOUND ON THE USGS 7.5 MINUTE QUADRANGLE,
GRANVILLE SERIES.



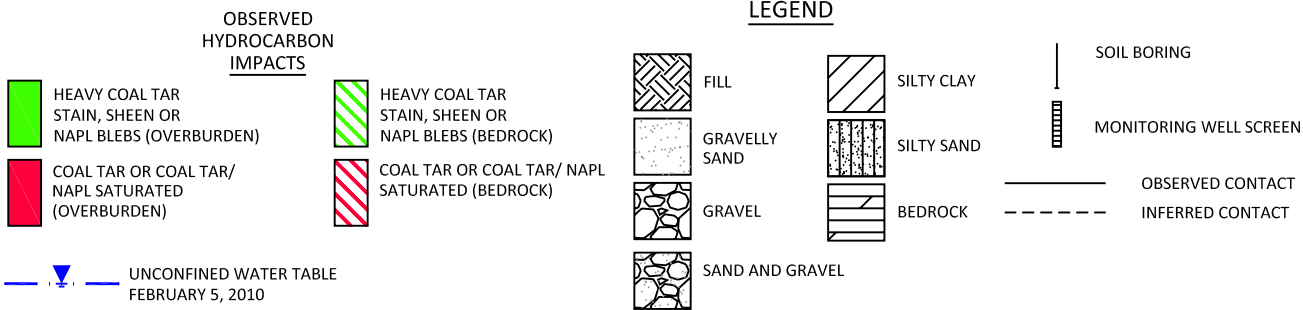
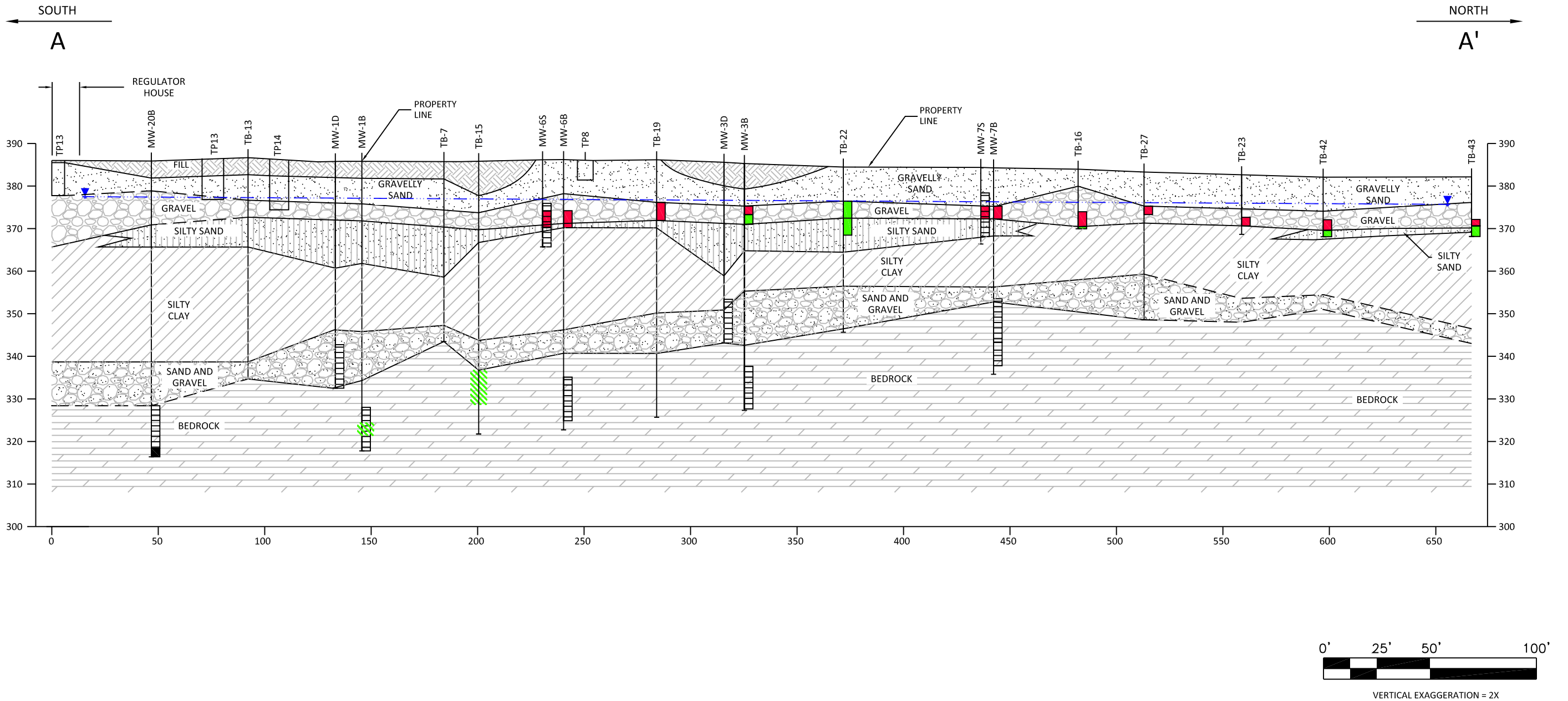
**NYSEG
GRANVILLE FORMER MGP SITE**
GRANVILLE, NEW YORK

DATE: 1/18/2011 DRWN: KAM

BEDROCK SURFACE CONTOUR MAP

FIGURE 5a

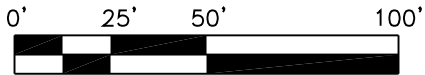
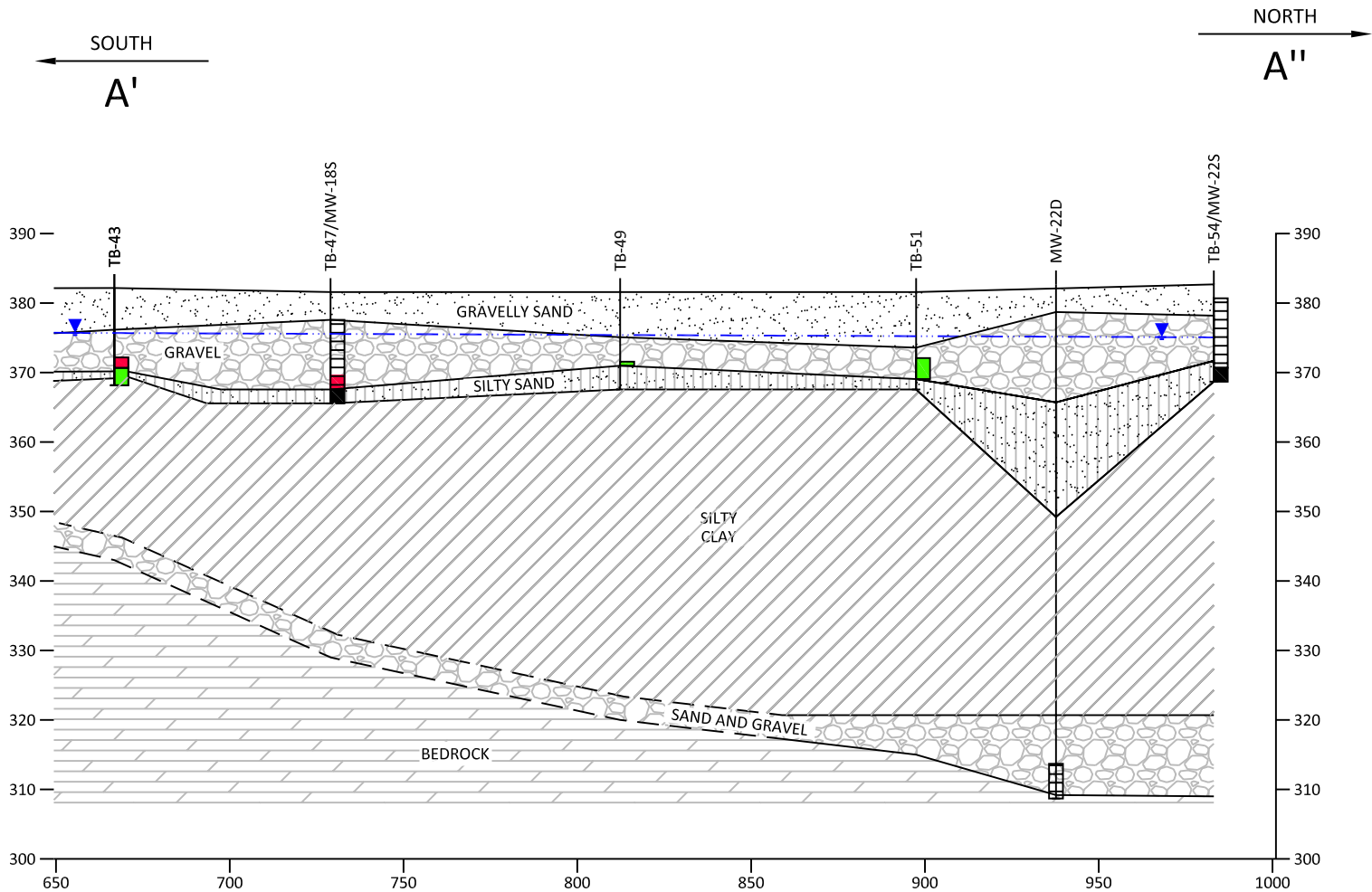
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NOTES:
1. THE DESCRIPTIONS AND COLORED PORTIONS OF THE FIGURE ARE GENERAL IN NATURE AND ARE BASED ON A LIMITED NUMBER OF SAMPLES. REFER TO THE BORING LOGS AND THE RESULTS OF THE CHEMICAL ANALYSES FOR SPECIFIC INFORMATION REGARDING THE SUBSURFACE GEOLOGICAL UNITS AND THE DISTRIBUTION OF ANALYTICAL COMPOUNDS.
2. SECTION IS POINT TO POINT.

NYSEG GRANVILLE FORMER MGP SITE GRANVILLE, NEW YORK		CROSS SECTION A - A'	
DATE: 1/18/2011	DRWN: DLS/PGH	FIGURE 7a	

File: L:\North\1138201\CAD\120101\GRANVILLE_SECTION5.dwg Layout: TB User: mchibrik Plotter: Jan 18, 2011 - 10:40am 2inx5r



VERTICAL EXAGGERATION = 2X

OBSERVED HYDROCARBON IMPACTS

HEAVY COAL TAR STAIN, SHEEN OR NAPL BLEBS (OVERBURDEN)

COAL TAR OR COAL TAR/ NAPL SATURATED (OVERBURDEN)

HEAVY COAL TAR STAIN, SHEEN OR NAPL BLEBS (BEDROCK)

COAL TAR OR COAL TAR/ NAPL SATURATED (BEDROCK)

LEGEND

FILL

GRAVELLY SAND

GRAVEL

SAND AND GRAVEL

SILTY CLAY

SILTY SAND

BEDROCK

SOIL BORING

MONITORING WELL SCREEN

OBSERVED CONTACT

INFERRED CONTACT

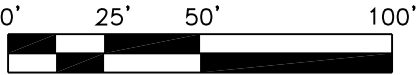
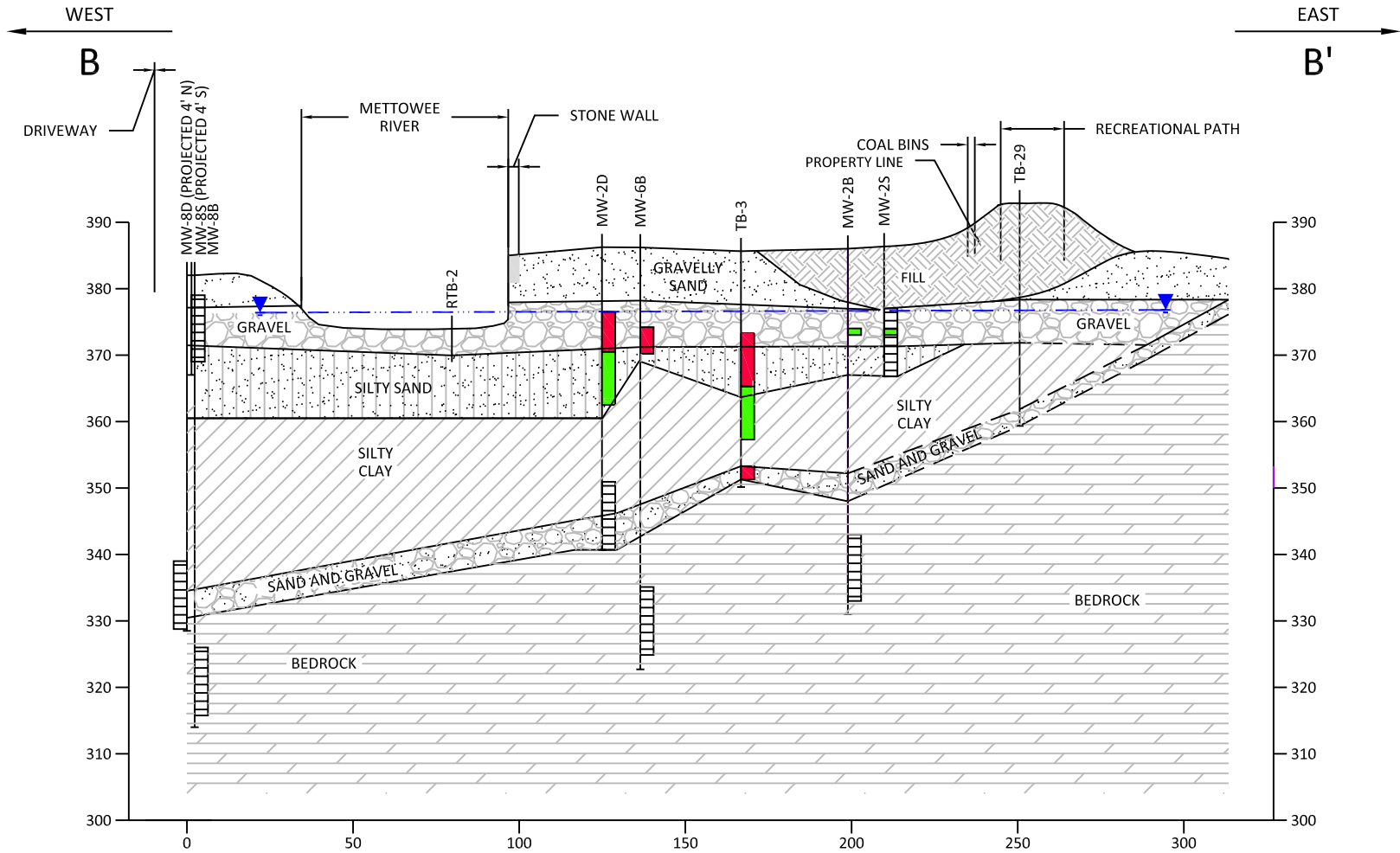
UNCONFINED WATER TABLE
FEBRUARY 5, 2010

NOTES:

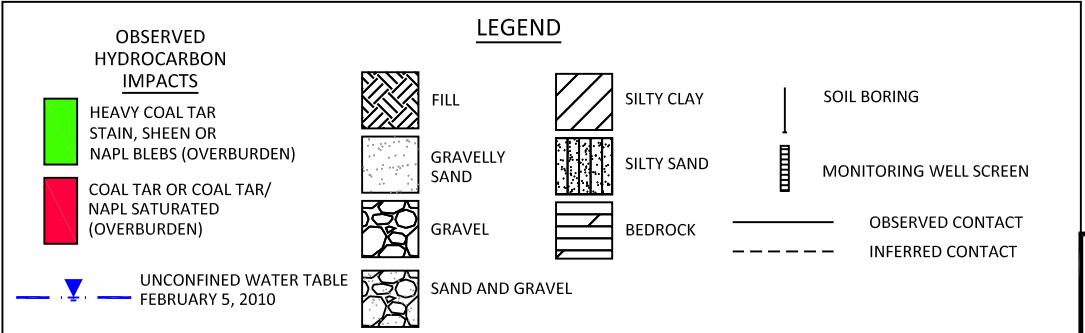
1. THE DESCRIPTIONS AND COLORED PORTIONS OF THE FIGURE ARE GENERAL IN NATURE AND ARE BASED ON A LIMITED NUMBER OF SAMPLES. REFER TO THE BORING LOGS AND THE RESULTS OF THE CHEMICAL ANALYSES FOR SPECIFIC INFORMATION REGARDING THE SUBSURFACE GEOLOGICAL UNITS AND THE DISTRIBUTION OF ANALYTICAL COMPOUNDS.
2. SECTION IS POINT TO POINT.

NYSEG GRANVILLE FORMER MGP SITE GRANVILLE, NEW YORK			CROSS SECTION A' - A''	
DATE: 1/18/2011	DRWN: DLS/PGH		FIGURE	7b

File: L:\Work\11802\CAD\2010\GRANVILLE_SECTIONB.dwg Layout: 7c User: mchick Plot Date: Jan 18, 2011 - 10:45am 2inx5in



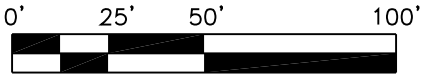
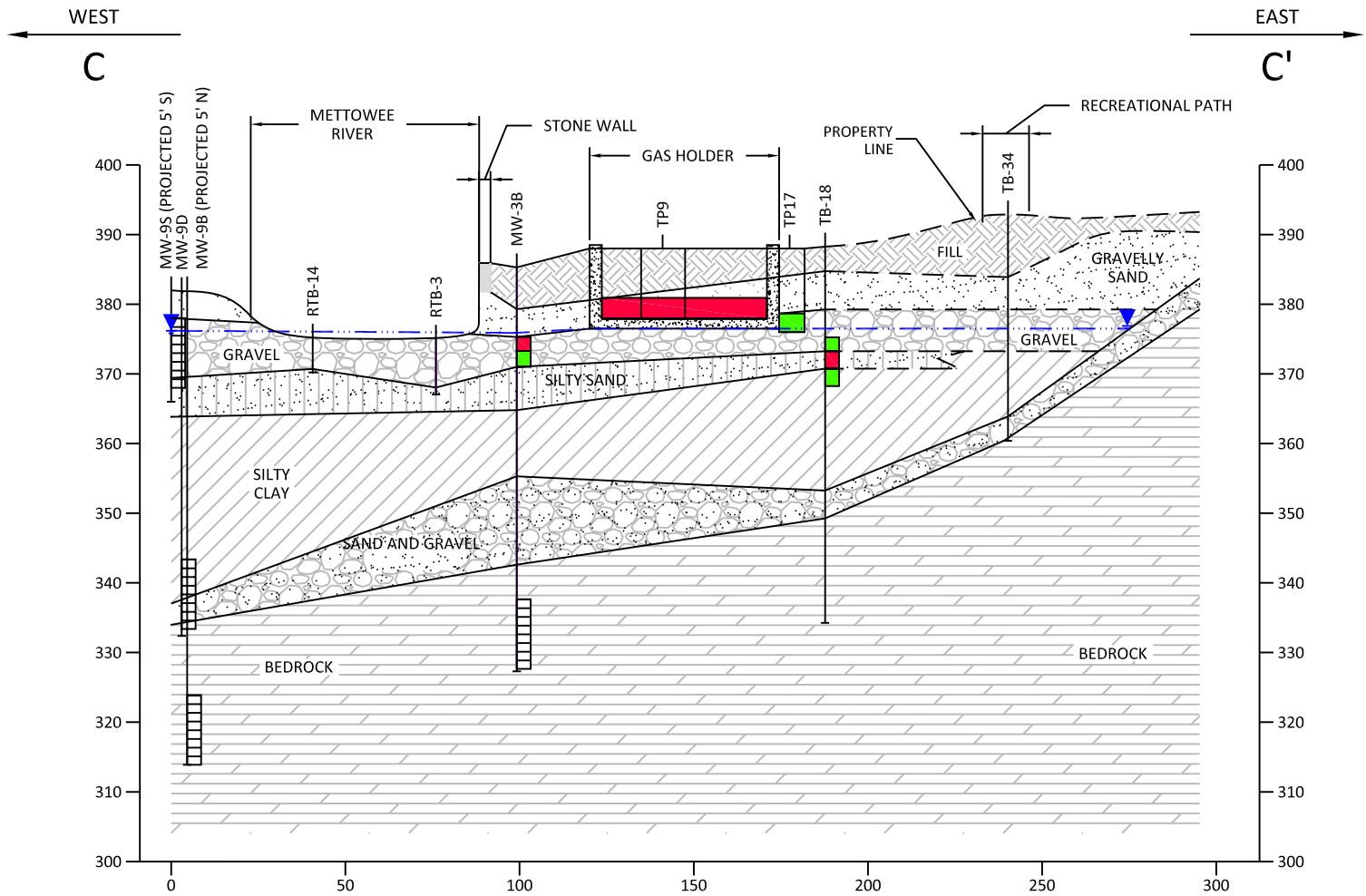
VERTICAL EXAGGERATION = 2X



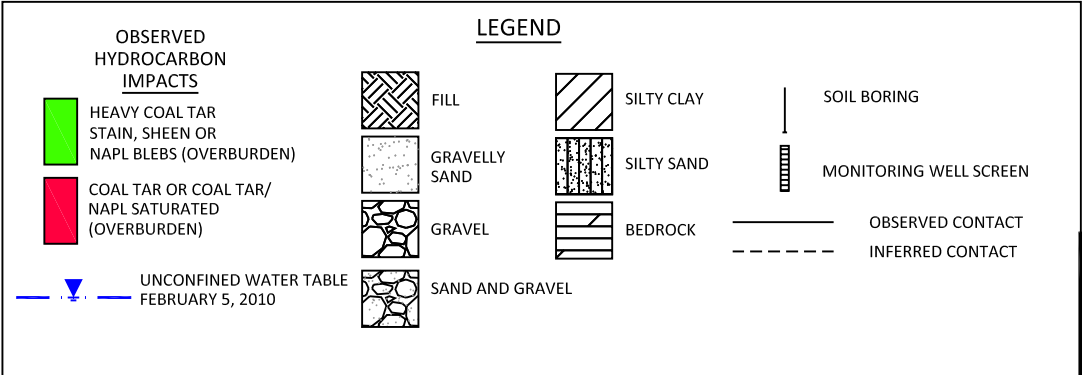
- NOTES:
1. THE DESCRIPTIONS AND COLORED PORTIONS OF THE FIGURE ARE GENERAL IN NATURE AND ARE BASED ON A LIMITED NUMBER OF SAMPLES. REFER TO THE BORING LOGS AND THE RESULTS OF THE CHEMICAL ANALYSES FOR SPECIFIC INFORMATION REGARDING THE SUBSURFACE GEOLOGICAL UNITS AND THE DISTRIBUTION OF ANALYTICAL COMPOUNDS.
 2. SECTION IS POINT TO POINT.

NYSEG GRANVILLE FORMER MGP SITE GRANVILLE, NEW YORK			CROSS SECTION B - B'	
DATE: 1/18/2011	DRWN: DLS/PGH		FIGURE	7c

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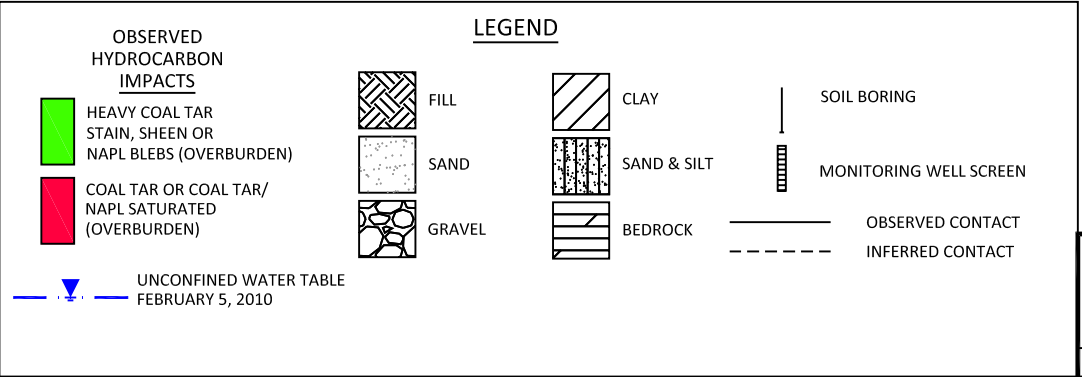
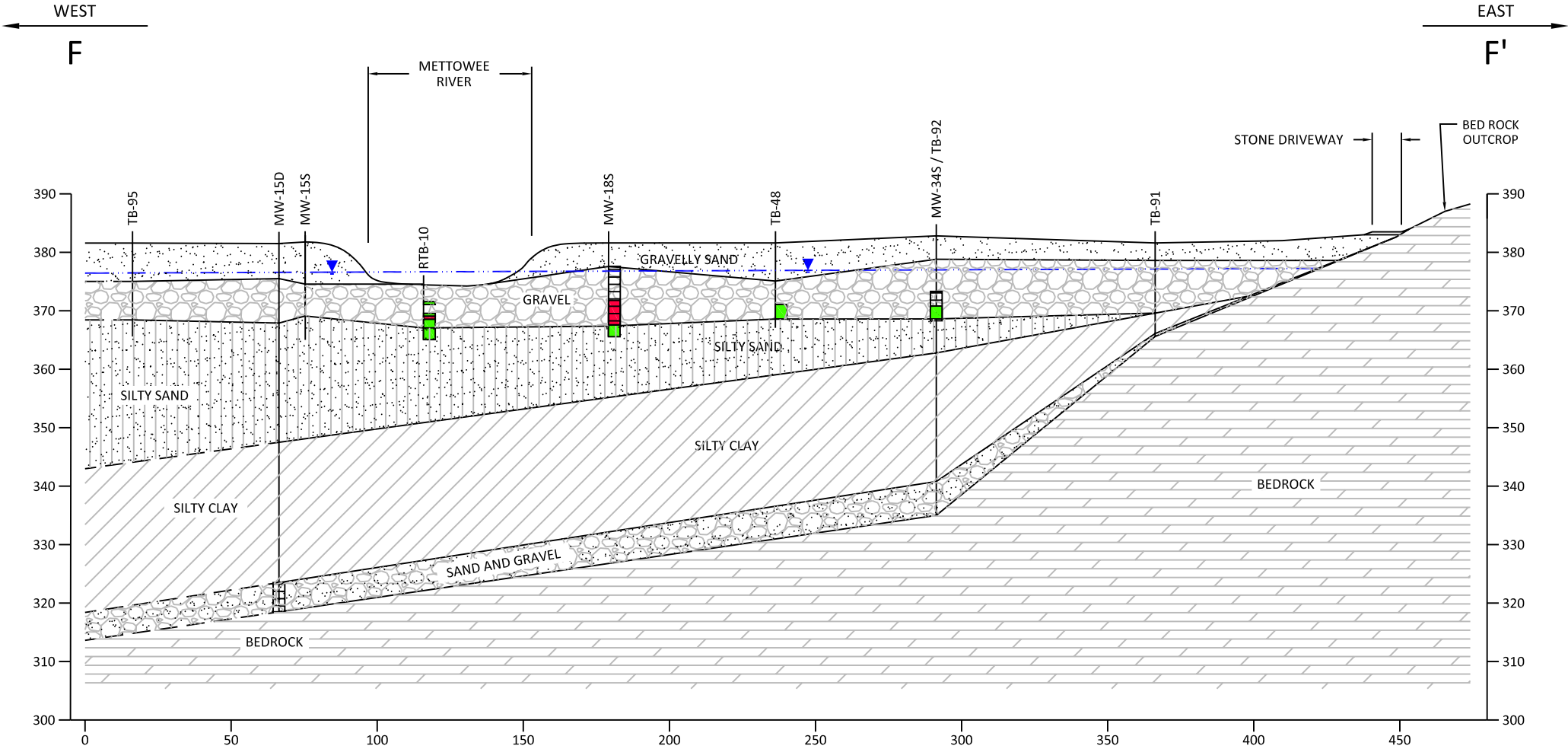
VERTICAL EXAGGERATION = 2X



NOTES:
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2. SECTION IS POINT TO POINT.

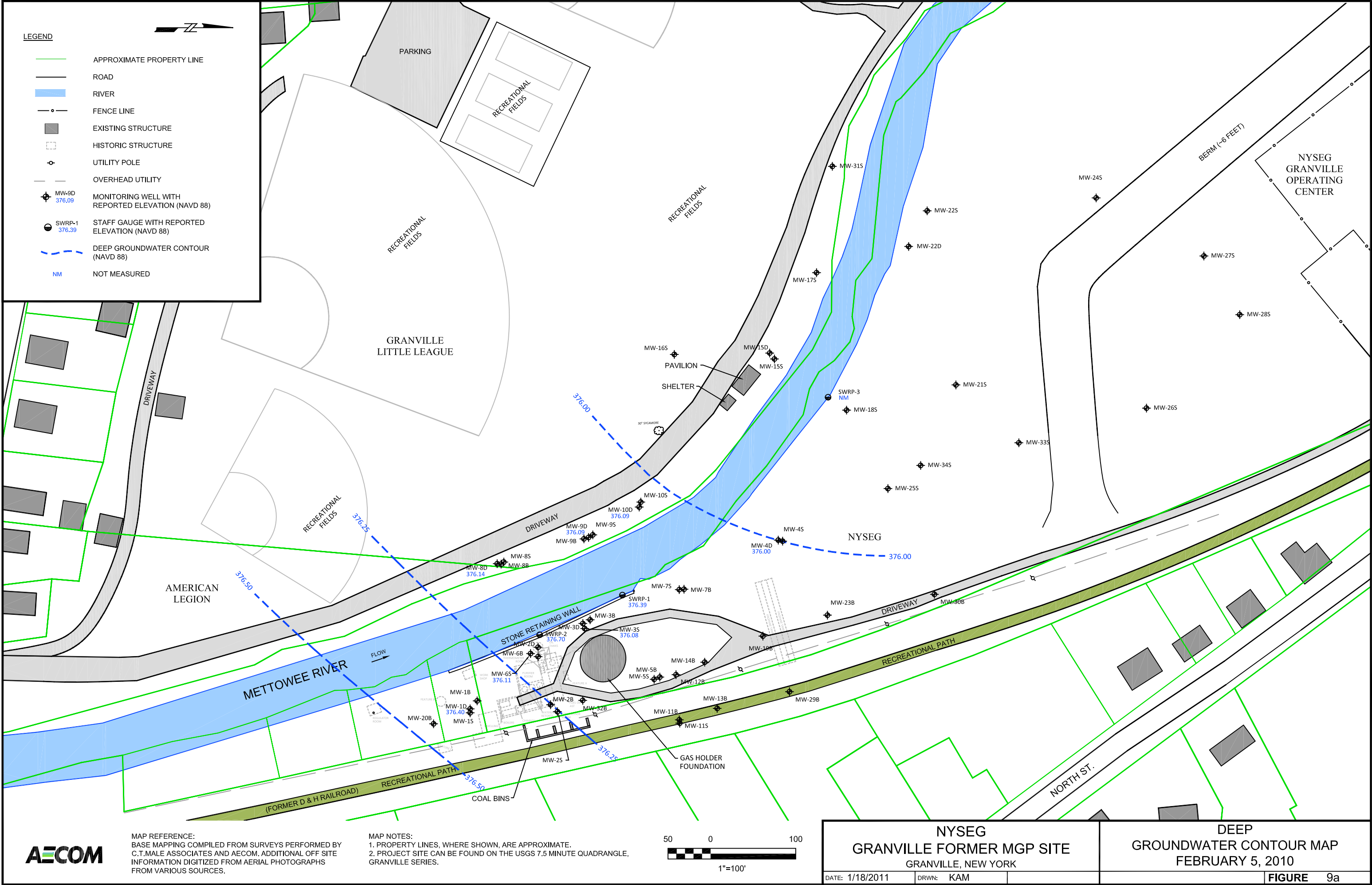
NYSEG GRANVILLE FORMER MGP SITE GRANVILLE, NEW YORK			CROSS SECTION C - C'	
DATE: 1/18/2011	DRWN: DLS/PGH		FIGURE	7d

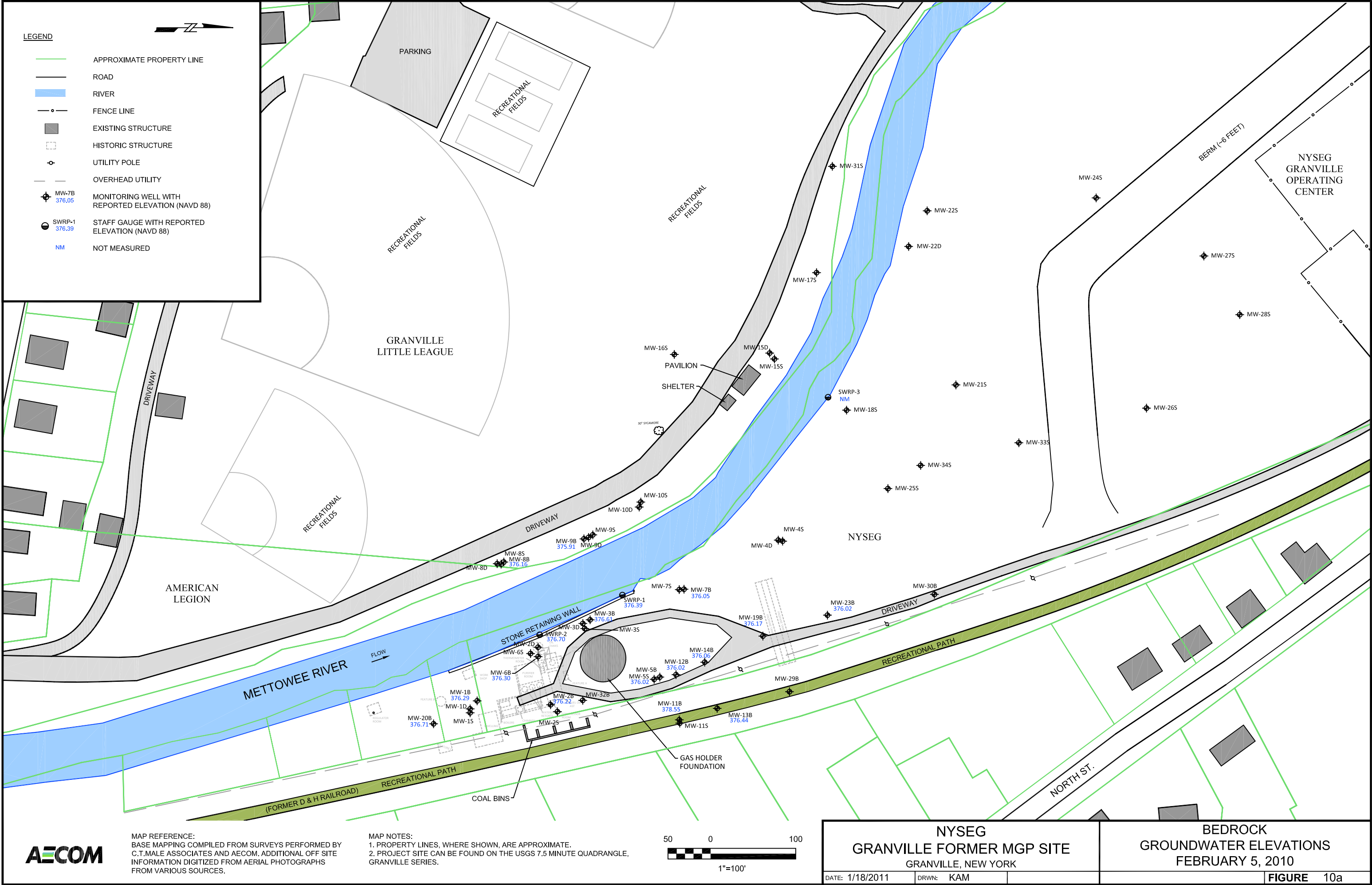
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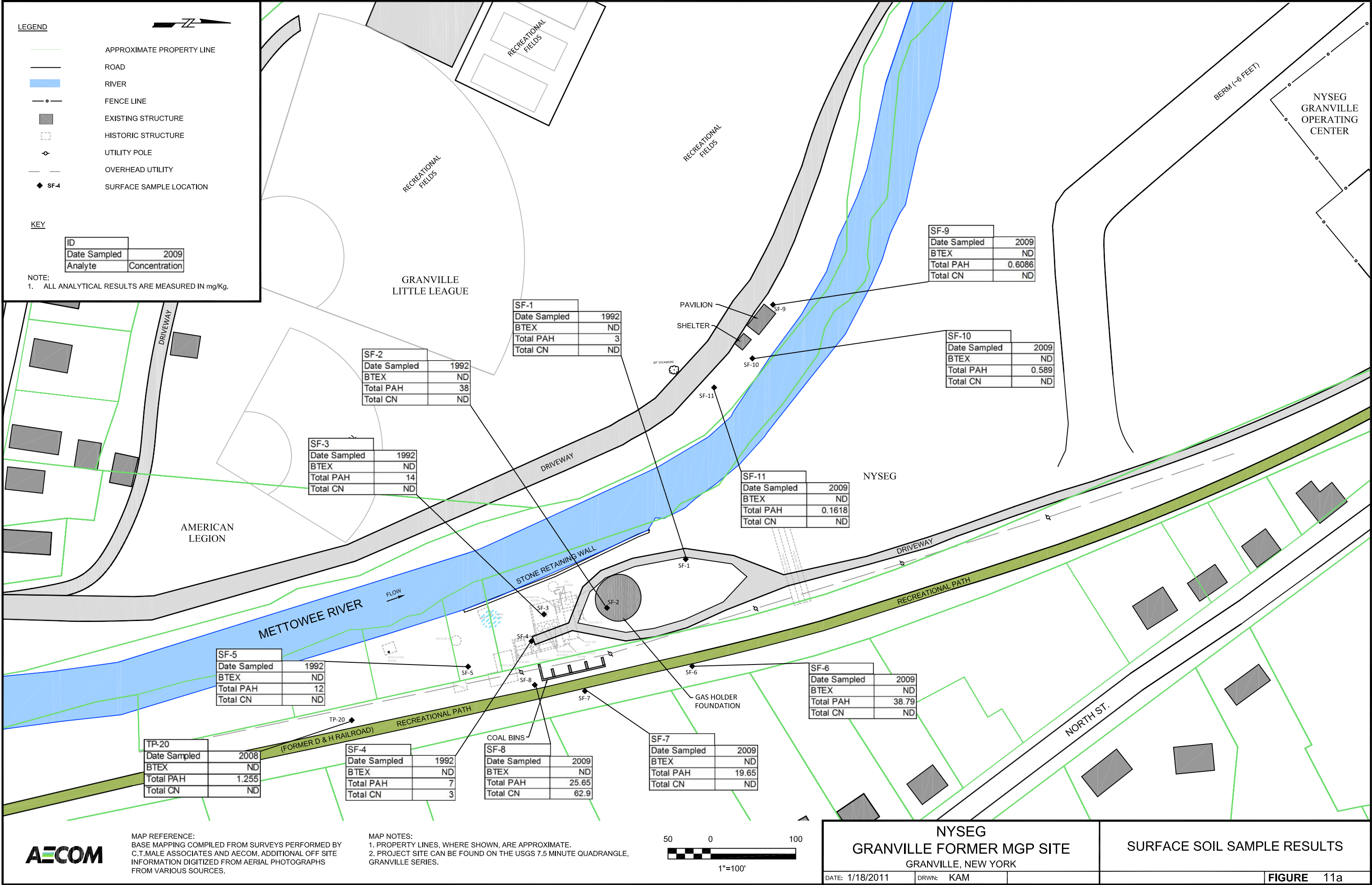


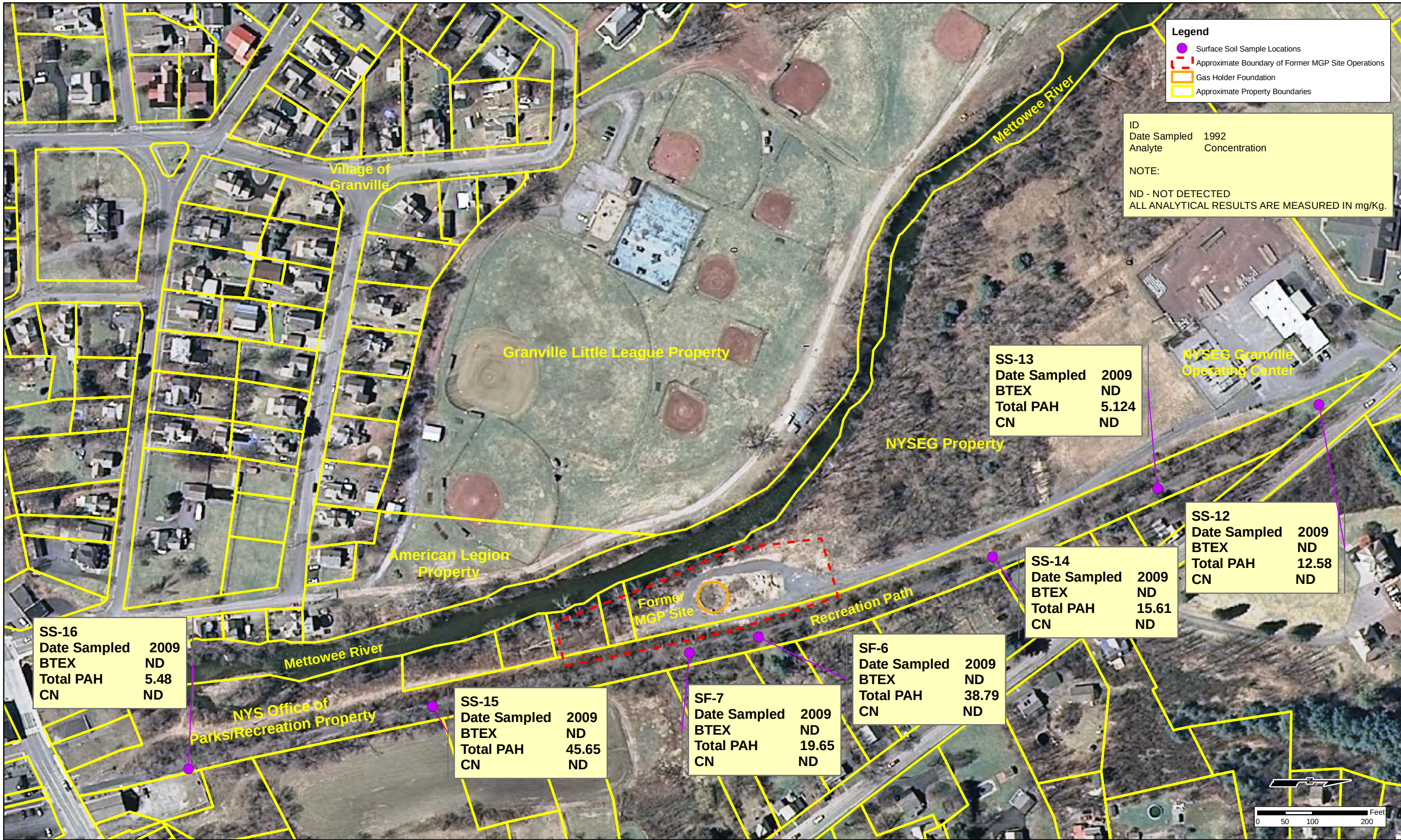
NOTES:
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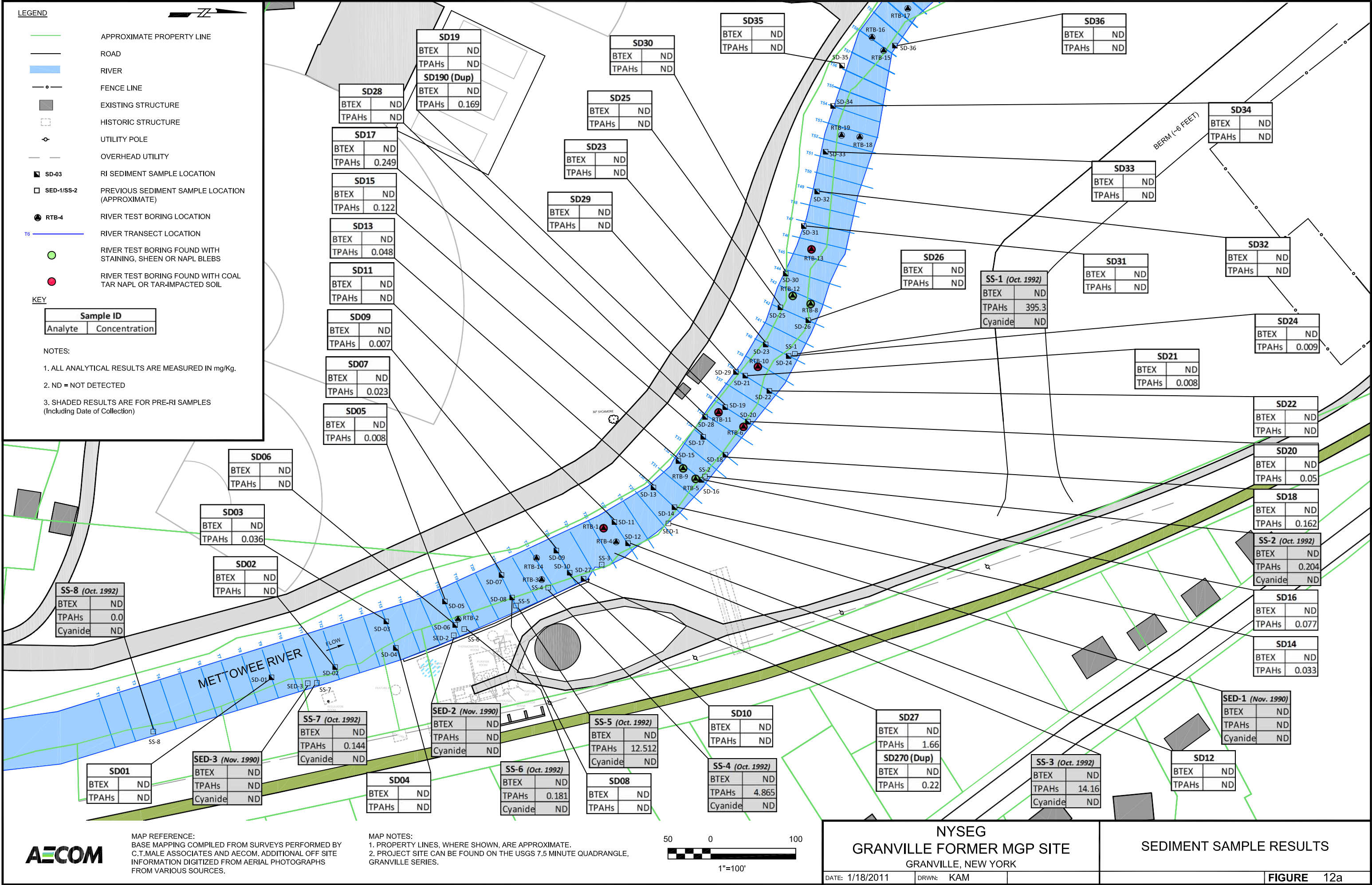
NYSEG GRANVILLE FORMER MGP SITE GRANVILLE, NEW YORK			CROSS SECTION F - F'	
DATE: 1/18/2011	DRWN: DLS/PGH		FIGURE	7g





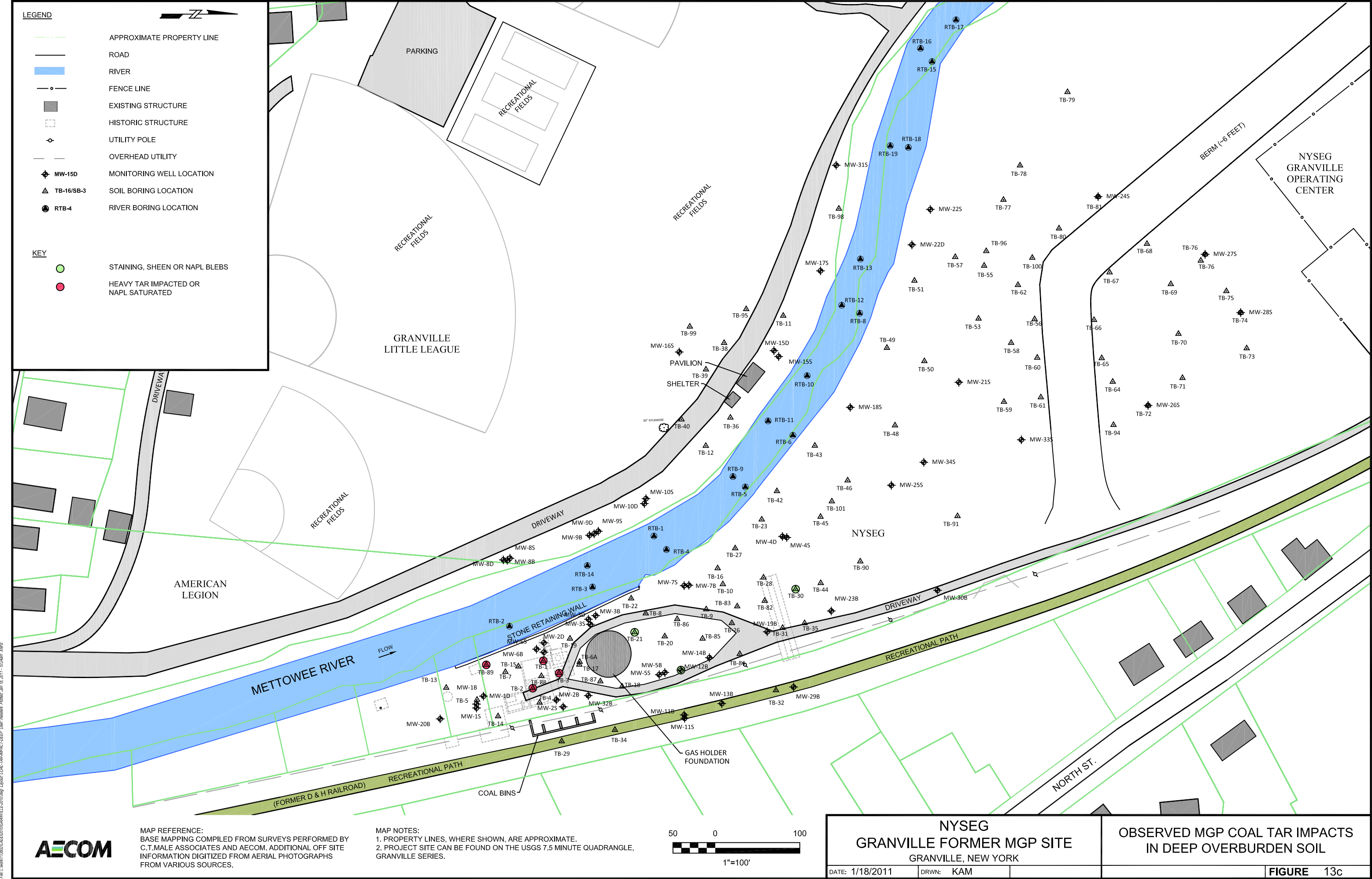




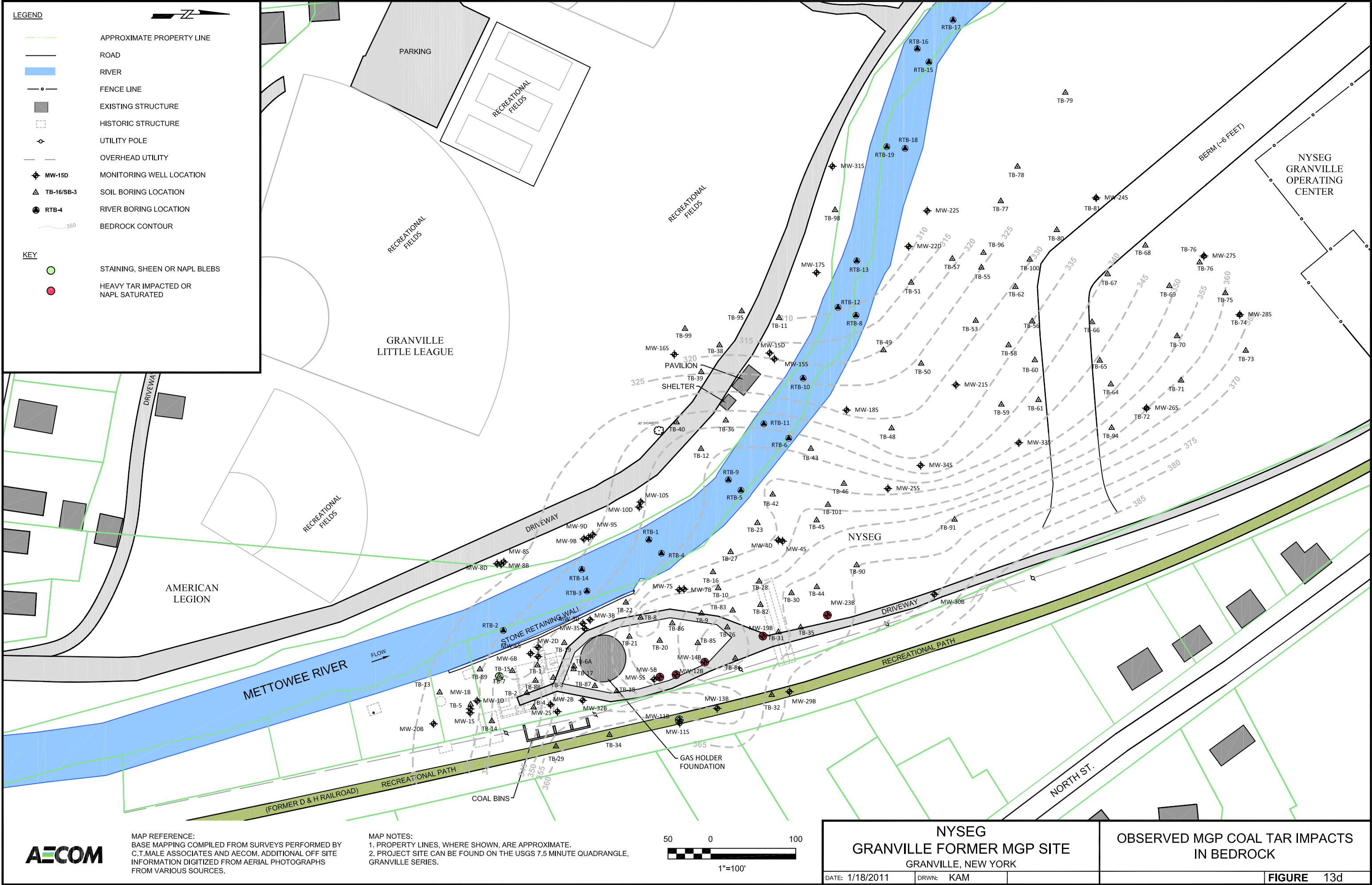


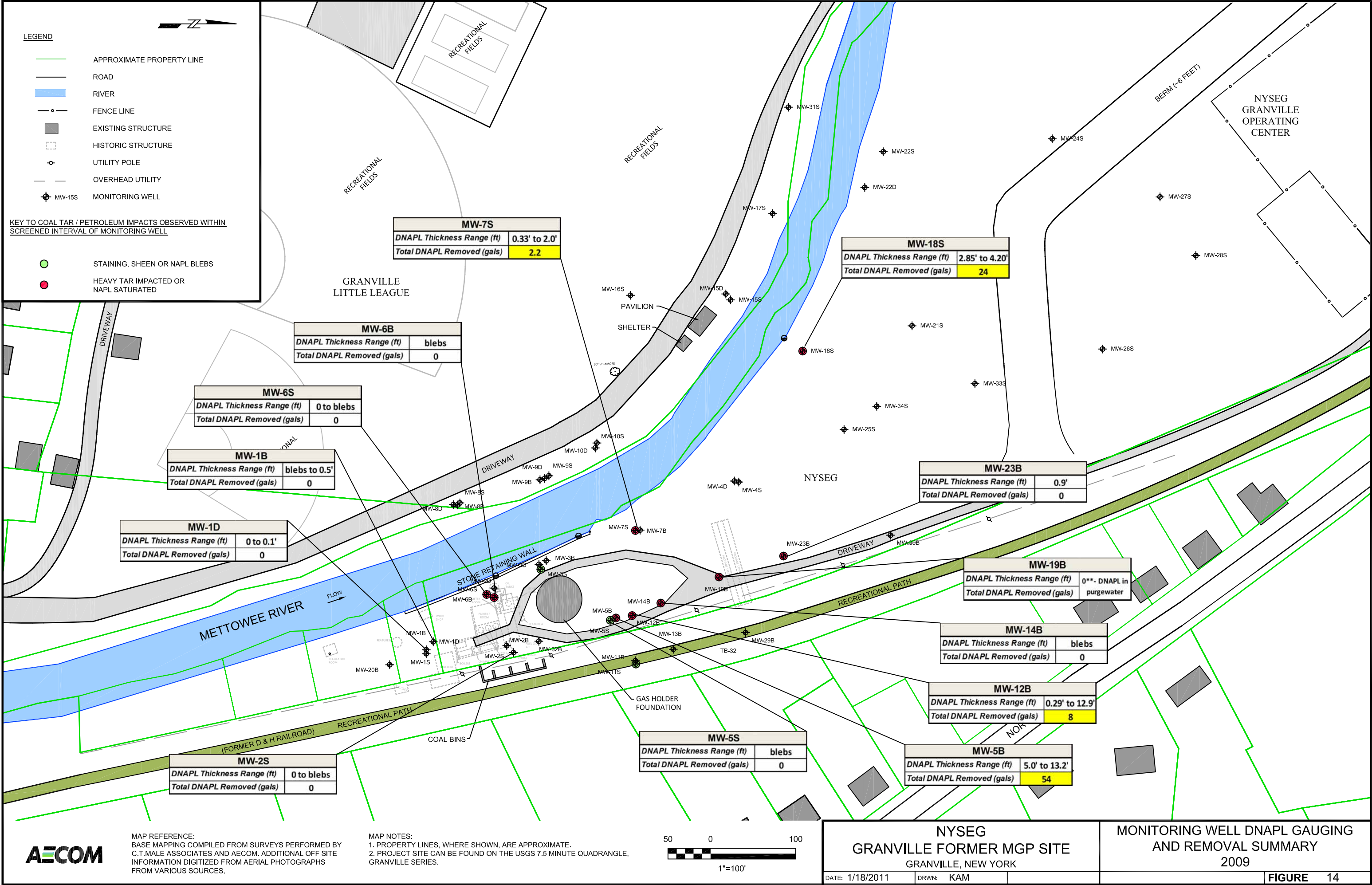
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File: L:\envi\17882\CD\02010\GRANVILLE-2010.dwg Layout: DNAPL GAUGING User: mshank Printed: Jun 18, 2011 10:27am Xrefs:

