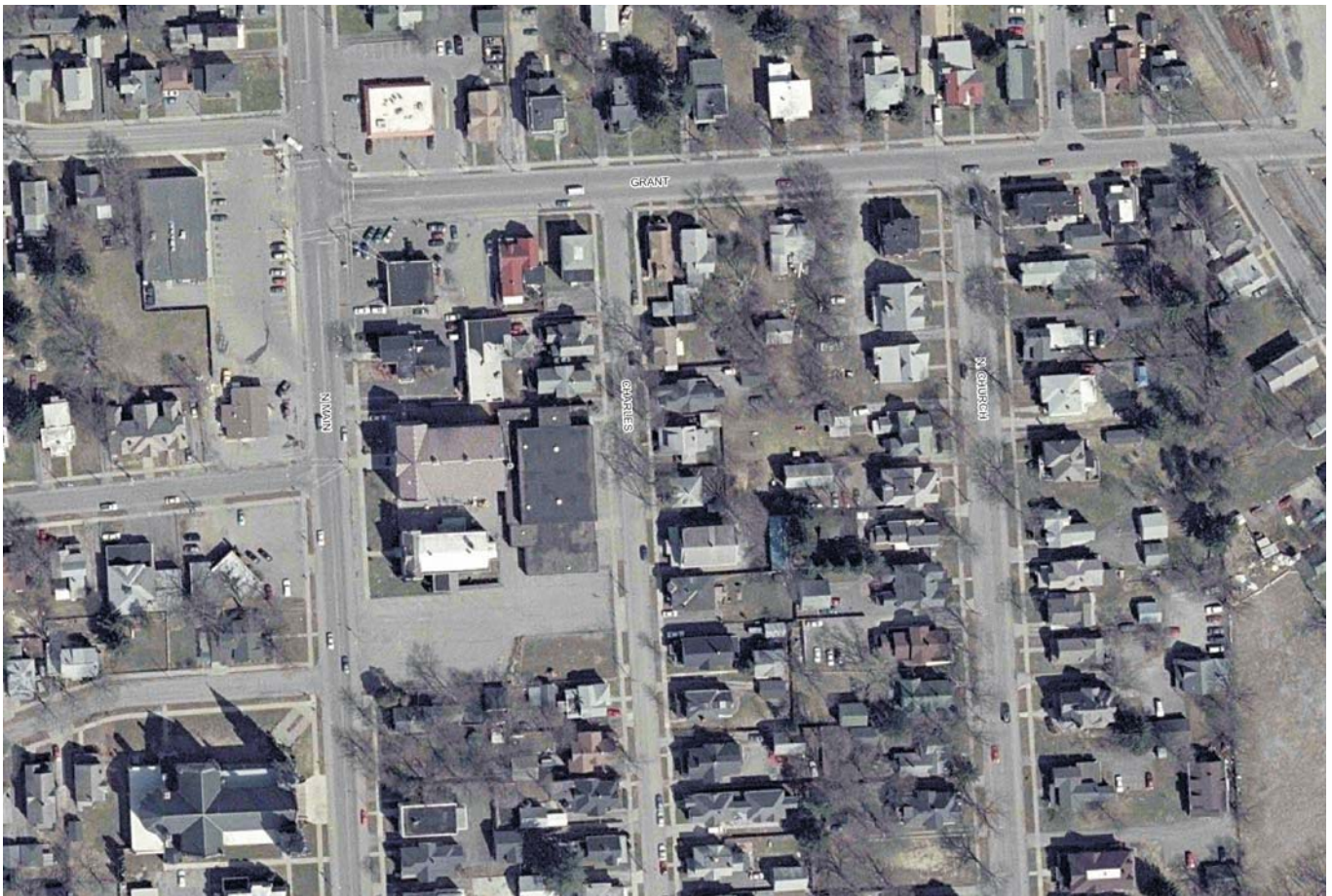




New York State Electric & Gas Corporation

*Former Off-site Gasholder Associated
with the Homer Former MGP Site
Cortland, New York*

INVESTIGATION SUMMARY SEPTEMBER 2006



Prepared For:
New York State Electric & Gas Corporation
Kirkwood Industrial Park
Binghamton, New York



URS Corporation - New York

September 26, 2006

Mr. William Ports
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, New York 12233-7017

**RE: Former Off-site Gasholder Location
43 and 45 Charles Street
Cortland, New York
Investigation Summary**

Dear Mr. Ports:

On behalf of New York State Electric & Gas Corporation (NYSEG), URS Corporation (URS) is pleased to present the New York State Department of Environmental Conservation (NYSDEC) with this summary letter report of the investigation work completed in November 2005, April 2006, and June 2006 at the above referenced site.

NYSEG is investigating this site at the request of the NYSDEC who discovered the possible existence of a former gasholder while reviewing historic Sanborn maps of the Cortland area. The objective of the investigation was to determine if physical remnants of the former gasholder or any associated piping remain onsite and to establish the nature and extent of any environmental impacts resulting from the operation of the former gasholder.

In November 2005, the first phase of work for this investigation was completed in general accordance with the *Investigation Work Plan* for the site submitted to the NYSDEC and approved in October 2005. The initial scope consisted of the following seven tasks:

- Task 1 – Geophysical Survey
- Task 2 – Test Trench Excavation
- Task 3 – Geoprobe® Soil Borings
- Task 4 – Monitoring Well Installation (including development)
- Task 5 – Groundwater Sampling
- Task 6 – Soil Vapor/Indoor Air Sampling
- Task 7 – Site Survey

All Tasks except Task 6 had been completed by November 2005 and the results were summarized in a letter report submitted to the NYSDEC on February 13, 2006. NYSDEC reviewed the report and, subsequent to discussions with NYSEG and URS, requested the advancement of four additional soil borings to further delineate the western boundary of soil contamination. Also, NYSDEC requested the collection of six surface soil samples for laboratory analysis, one from each of the front yards at 43 and 45 Charles Street and two from the backyard at each property. Concurrently, the homeowner at 45 Charles Street requested that NYSEG investigate and collect samples from several discolored

stones present in the basement wall, which is of stone and mortar construction. NYSEG agreed to investigate the discolored stones and subsequently collected samples during the investigation in June 2006.

Tasks 1 through 5, Task 7, and the above-mentioned additional tasks have been completed at this time. Task 6 still has not been completed, and its necessity is to be determined based on further review of the results presented herein and future discussions between URS, NYSEG, the NYSDEC, and the New York State Department of Health (NYSDOH). Various changes in the scope of the investigation were necessitated by changes in field conditions. These were discussed and agreed with NYSEG and NYSDEC in the field.

SITE BACKGROUND

In 1858, the Homer & Cortland Gas Light Company (H&CGL) constructed and operated a manufactured gas plant (MGP) at what is now 216 South Main Street (Route 11) in the Village of Homer, Cortland County, New York. Coal gas and carbureted water gas were produced at the MGP from 1858 until 1932. Based on the property deed, as recorded in Liber 43/Page 574 of the City of Cortland records, in May 1867 H&CGL acquired one third of an acre of land, in the City of Cortland, and constructed a 22,000 cubic foot gasholder on the property (the site) as part of a distribution network for the MGP. Figure 1 shows the site location in relation to the former MGP. Historical records and Sanborn maps indicate that the remote gasholder was located at the approximate location shown on Figure 2. Historical records also indicate that in July 1867, H&CGL acquired the rights from a property east of the site to install a gas pipeline extending from the former gasholder east through the property (eight feet south of a house) to North Church Street.

New York State Gas and Electric (a predecessor to NYSEG) acquired the MGP on Route 11 from H&CGL in 1911. In February 1913, H&CGL sold the one third of an acre upon which the gasholder was located to Edward S. Dalton and L.R. Chase. Sanborn maps from 1915 and 1926 indicate the gasholder was no longer present and the residences currently located at 43 and 45 Charles Street existed at that time. Based on the information available, the site boundary has been approximated as the property lines of 43 and 45 Charles Street and is depicted on Figure 2.

The area surrounding the site is an urban setting and has been for well over 100 years. No investigation work that NYSEG or URS is aware of has been completed at the site prior to this effort.

INITIAL INVESTIGATION ACTIVITIES

The first phase of investigation work activities started at the site on November 7 and concluded on November 17, 2005. Site photographs taken during investigation work activities have been included as Appendix A. The activities associated with each of the completed scope items are discussed below.

Geophysical Survey

Activities Completed

On November 7-8, 2005 Geophysical Applications, Inc., under direction of and with assistance from URS, established a reference grid. The reference grid was approximately 105 feet by 80 feet, and grid points were marked with spray paint or chalk every five feet. Geophysical Applications, Inc. acquired subsurface data across the site using ground penetrating radar (GPR) along traverses located 2.5 feet apart. GPR data were recorded using a GSSI model SIR-2000 radar instrument, with a 400 megahertz (MHz) antenna. A vertical scale of 60 nanoseconds was used during this survey. This time interval was selected to enhance deeper reflectors (up to ten feet below ground surface (bgs)) while maintaining the resolution of smaller near-surface buried objects. A report summarizing field activities/results was prepared by Geophysical Applications, Inc. and is attached as Appendix B.

Work Scope Changes

The *Investigation Workplan* indicated that an electromagnetic conductivity survey would be conducted in addition to the GPR survey. Surface obstructions at the site (i.e., houses, trees, fences, etc.) severely restricted accessibility for establishing the number and appropriate spacing of parallel traverses that are needed for effective use of an electromagnetic conductivity meter (EM-31). Based on recommendations from the geophysical contractor, it was determined that the resolution of the data that could be obtained from the limited number and length of traverses that could be performed would be too poor to generate useful information. Therefore, an electromagnetic conductivity survey was not completed.

Test Trenches

On November 9, 2005, Nature's Way Environmental Consultants & Contractors, Inc. (Nature's Way) arrived on site with a mini excavator (Komatsu PC40R) and began the test trench excavation program under the direction of URS. The objective of the test trenches was to investigate anomalies identified by GPR and investigate the possible presence of the former gasholder.

Activities Completed

The results of the ground penetrating radar were reviewed in the field and various anomalies were identified to target test trench locations. A widespread, persistent flat reflector at depths varying from one to three feet bgs was observed in the western portion of the site between the two homes. This reflector was interpreted as being the potential pad of the former gasholder.

Three test trenches were excavated at the locations shown on Figure 2. The trench locations were selected based on anomalies observed during the geophysical survey (i.e., TP-01 was excavated in the vicinity of a couple of small reflectors observed between 1 and 2 feet bgs and TP-03 was excavated in the area of the widespread reflector interpreted as being the potential pad of the former gasholder). The trenches were excavated perpendicular to the suspected walls of the former gasholder with total lengths ranging from approximately 14 to 17 feet.

TP-01 was excavated in the backyard at 43 Charles Street, TP-02 was excavated in the backyard at 45 Charles Street, and TP-03 was excavated in the front yard between the two properties. TP-01 was excavated to 7.5 feet bgs, TP-02 to 7.0 feet bgs, and TP-03 to 10.5 feet bgs. Three samples were collected from each test trench (i.e., from 2.5, 5.0, and 7.5 feet bgs at TP-01; from 2.5, 5.5, and 7.0 feet bgs at TP-02; and 2.5, 5.5, and 10.5 feet bgs at TP-03). The samples were bagged and checked for headspace readings with a photoionization detector (PID), placed in jars, and submitted to Severn Trent Laboratories for analysis. After the samples were collected, the test trenches were backfilled with the excavated material and compacted in lifts with the excavator bucket. Test trench logs are included as Appendix C. A NYSEG landscaping crew returned to the site in the spring to properly re-grade and seed the disturbed areas.

Work Scope Changes

The *Investigation Work Plan* indicated that up to five test trenches would be excavated to approximately five feet bgs with two samples for laboratory analysis collected from each test trench. After discussions at the site between URS, NYSEG, and the NYSDEC, this number was reduced to three test trenches due to physical constraints limiting access for the excavator. However, the test trenches were excavated deeper than originally proposed and three samples were collected from each test trench instead of two.

Geoprobe® Soil Borings and Piezometer Installation

From November 10 through 14, 2005, Nature's Way was on-site with a skid-steer mounted Geoprobe® sampling unit.

Activities Completed

A total of 11 borings, SB-01 through SB-11, were advanced and sampled using a 2-inch-diameter, 4-foot-long Macrocore sampler at the locations presented on Figure 2. At SB-11, sampler refusal was encountered at 11 feet bgs during four repeated attempts (SB-11-1 through SB-11-4). Soil samples were collected for laboratory analysis from all borings except SB-02, which was terminated at 15 feet bgs, after dry material from 8 to 12 feet bgs began collapsing into the hole causing sampler refusal and preventing the collection of a representative sample.

The borings were advanced and sampled to depths ranging from 11 to 23 feet bgs. In most cases soil samples were difficult to recover below 20 feet bgs due to the saturated and loose nature of the materials encountered and borehole collapse. At each boring, soil was continuously sampled, screened with a PID, and logged. Samples were selected for analysis based on visual, olfactory, and PID results. In general, one sample was selected for analysis from the most contaminated zone, and one sample was selected from beneath this zone, if present, at each borehole. All boreholes were backfilled with bentonite. Excess soil cuttings were containerized in 55-gallon drums. Boring logs are included in Appendix D.

Borings SB-06 through SB-09 were completed as piezometers PZ-01 through PZ-04, respectively. The piezometers were:

- Constructed of one-inch-diameter polyvinyl chloride (PVC) flush-threaded screen and riser.
- Equipped with a 10-foot, 0.010-inch slot screen installed to total depths ranging from 22.4 to 23.7 feet bgs.
- Installed through the Macrocore sampled boreholes by advancing 2-inch drive casing to the required depth, inserting the appropriate length of screen and riser, and then retracting the casing while emplacing the sand pack.

At three of the piezometer locations (PZ-01, PZ-03, and PZ-04) the 2-inch drive casing was advanced deeper (and, therefore, the piezometers were installed deeper) than the soils were sampled. This was necessary because the saturated gravel and sand materials encountered at depths of approximately 16 feet bgs collapsed into the boreholes inhibiting the collection of representative samples below 20 feet bgs. The piezometers were installed deeper in the gravel and sand unit (to depths of approximately 24 feet bgs) to ensure the presence of a sufficient water column for the collection of groundwater samples. Well sand (Filpro size #00N) was emplaced in all four piezometers up to 7 feet bgs. The remainder of the piezometer boreholes were then backfilled with bentonite and hydrated. Piezometer construction details are included as Appendix E. On November 15, 2005, Nature's Way installed concrete flush-mount surface road boxes at the piezometer locations and demobilized from the site.

URS developed all four piezometers to visual clarity. Piezometer development logs are included as Appendix F. Investigation-derived wastes (soil, purge water, macrocore liners, and personal protective equipment) were containerized in 55-gallon drums and transferred to the NYSEG property on Route 11 for later characterization and disposal.

Work Scope Changes

The *Investigation Work Plan* indicated that 12 soil borings would be advanced with up to two samples collected for laboratory analysis from each boring. Based on field conditions and space limitations the total number of borings was reduced to 11. Two samples were to be collected per hole primarily to delineate the vertical extent of observed contamination. At several locations two samples were submitted for laboratory analysis even though there was no indication of contamination. These changes were discussed in the field during work activities and agreed upon by all parties (URS, NYSEG, and NYSDEC).

The *Investigation Work Plan* indicated that three pairs of shallow (20 feet bgs) and deep (50 feet bgs) monitoring wells would be installed using conventional hollow stem auger drilling methods. During field activities it was determined (by URS and NYSEG, and agreed upon by the NYSDEC) that four piezometers installed in the Geoprobe® boreholes would be sufficient for obtaining groundwater samples based on the following:

- Groundwater was observed to be relatively shallow (i.e., soils were saturated at 15 to 16 feet bgs).
- The Geoprobe® rig was able to access areas a conventional drill rig could not.
- Minimal soil contamination was observed at shallow depths; therefore, deep groundwater contamination was not expected.

Groundwater Sampling and Elevation

On November 16, 2005, URS purged and sampled the four piezometers using low-flow sampling techniques. Purge logs have been included as Appendix G. All development and purge water was containerized in a 55-gallon drum and transferred to the NYSEG property on Route 11 for later characterization and disposal. Prior to sampling, a complete round of water levels (PZ-01 through PZ-04) was collected.

Surveying

On November 17, 2005, NYSEG surveyors obtained horizontal coordinates and vertical elevations for the test trenches, soil borings and piezometer locations. Survey results are summarized in Table 1.

ADDITIONAL INVESTIGATION ACTIVITIES

The additional surface and subsurface soil sampling was conducted on April 26, 2006. On June 12, 2006, the basement at 45 Charles Street was investigated and samples were collected from the discolored stones found there. Site photographs taken during investigation work activities have been included as Appendix A. The activities associated with each of these items are discussed below.

Geoprobe® Soil Borings and Surface Soil Sampling

On April 26, 2006, environmental contractor TREC Environmental was on site with a track-mounted Geoprobe® sampling unit.

Activities Completed

A total of six borings, SB-12 through SB-17, were advanced and sampled using a 2-inch-diameter, 4-foot-long Macrocore sampler at the locations presented on Figure 2. Soil samples were collected for laboratory analysis from all borings.

The borings were advanced and sampled to depths ranging from 15.7 to 16 feet bgs. At each boring, soil was continuously sampled, screened with a PID, and logged. Samples were selected for analysis based on visual, olfactory, and PID results. In general, one sample was selected for analysis from the most contaminated zone, and one sample was selected from beneath this zone, if present, at each borehole. Originally, four borings were proposed for this phase of work; however, based on field conditions encountered, two additional borings were added and one sample was collected from each of these borings for laboratory analysis from the interval containing the most contamination based on visual, olfactory, and PID results. All boreholes were backfilled with excess soil cuttings and bentonite. Boring logs are included in Appendix D.

Six surface soil samples were collected from the locations shown on Figure 2. Surface vegetation was peeled back, and samples for laboratory analysis were collected from 0 to 2 inches below the root zone.

Basement Investigation and Scrape Sampling

On June 12, 2006, at the request of the homeowner at 45 Charles Street, representatives from URS, NYSEG, NYSDEC, and NYSDOH met at the residence to evaluate a black coating observed on select stones in the basement. The homeowner's attorney was also present. The basement walls are of stone and mortar construction. There appeared to be five affected stones (Stones #1 through #5) in the basement walls, all of which are located in an approximately 10 foot by 10 foot room in the northeast corner of the basement: three on the north facing wall and two on the south facing wall. A crawlspace, open to the basement, is located south of the room with the discolored stones. Stones #1 and #2 had a dry black crackly coating and were located on the northern wall, approximately 5 feet apart and 2 to 3.5 feet above the basement floor. Stone #3, also on the north basement wall adjacent to and east of Stone #2, had a dry dusty black mold-like or mildew-like appearance. Stones #4 and #5 were located on the southern wall of the room on an inside corner of the basement wall (i.e., directly behind these stones, the basement wall continues to run north to south). Both of these stones also exhibited the same dry black crackly appearance as Stones #1 and #2 and were located next to each other approximately 3.5 and 2.5 feet above the basement floor, respectively. The locations of the discolored stones are depicted on Figure 3.

After investigating the discolored stones in the basement wall, it was determined that sufficient material for laboratory analysis was present. Subsequently, samples of the material coating the stones were scraped from Stones #1, #2, #4 and #5 using pre-cleaned hand tools. Scrapings were collected onto poly sheeting taped to the wall and then funneled into the sampling jars to be submitted for analysis. During sampling, the surface material collected came off the impacted stones as a fine-grained powder. As sampling depth increased, up to approximately 1/4" deep, the sample material became coarse and contained more of the rock matrix. It was decided to analyze the surface material (up to approximately 1/16" deep) and the deeper material (from approximately 1/16" to 1/4") as two separate samples. In order to generate sufficient sample volume for the analyses, the surface material from all four stones was composited to create one sample, designated Scrape #1. Similarly, the deeper material at all four stones was composited to create a sample designated Scrape #2. To establish background, an additional sample was collected from stones located above the ground surface within the same room. A masonry bit was used to drill into the stones and the resulting powder was collected as Scrape #3. The stones used for the Scrape #3 sample were not discolored. All three samples were submitted to Severn Trent Laboratories (STL) for analysis.

SUBSURFACE CONDITIONS

The various subsurface conditions encountered across the site are summarized below. Test trench, soil boring, and piezometer locations are presented on Figure 2. Test trench logs are included as Appendix C. Boring logs and piezometer construction details are included as Appendix D and E, respectively.

Test Trenches

At TP-01, soils consisted primarily of brown clayey silt with cobbles and coarse gravel; a thin ash layer (less than 6 inches thick) was encountered at approximately a one-foot depth. The soils were generally moist, non-plastic, and medium dense with no obvious layering features. One small piece

of cast iron pipe and one firebrick also were observed in the excavated soils; however, the depth from which the pipe and firebrick came could not be ascertained. Obviously reworked soil and urban fill materials appeared to terminate at 1.5 feet bgs. No odors or staining were observed in the test pit. PID screening results for all soil samples were zero.

Soils at TP-02 consisted primarily of brown/gray clayey silt with cobbles and gravel. One piece of scrap metal and trace red brick were observed near the surface, and the cobbles appeared to become more numerous with depth. The soils were generally moist, non-plastic, and medium dense with no obvious layering features. Obviously reworked soil and urban fill materials appeared to terminate at 1.5 feet bgs. No ash was observed in this trench. No odors or staining were observed. PID screening results for all soil samples were zero.

Results of the geophysical survey indicated a widespread, persistent flat reflector at depths varying from one to three feet bgs in the western portion of the site between the two homes. Originally this was thought to be the potential pad of the former gasholder. TP-03 was excavated to investigate this hypothesis, but nothing was detected at this depth in the excavation other than a consistent layer of ash, and it was suspected that the metals content of the ash material may have caused the observed anomaly. Soils at TP-03 consisted primarily of brown to gray brown clayey silt with cobbles and gravel; however there was a thicker (approximately 6 inches thick) ash and mortar layer encountered at approximately 1.5 feet bgs. At approximately 6 feet bgs there was significantly more fill material including glass, bottles, bricks, firebrick, ash, and metal pipe. Additionally, one ceramic-coated piece of metal and one group of approximately four to five cobbles, encased in a weathered, glassy looking tar and without any odor, were observed. This tar had much different appearance than the black material observed on the stones within the basement at 45 Charles Street; it had a shiny appearance whereas the basement stones were dull and crackly looking. The fill debris continued to the bottom of the excavation at approximately 10.5 feet bgs. A slight MGP-type odor was detected on two pieces of brick found at the bottom of the test pit. PID screening results for all soil samples were zero. Because the site area is situated in an urban setting and filling operations associated with anthropogenic activities have occurred over and beyond the past 100 years, the origin of the fill could not be determined.

Soil Borings

At borings SB-01, SB-02, SB-03, SB-07, SB-09, SB-10, SB-12, SB-13, and SB-15, soils consisted primarily of brown clayey silt and cobbles with gravel to approximately 12 to 16 feet bgs. The upper soil unit was typically dry to moist, non-plastic, and medium dense. Beneath this unit was gray brown silty sand and gravel. Saturated soils were encountered between 15 and 16 feet bgs. The lower unit appeared moist to wet, non-plastic, and medium dense to loose. At SB-04, the lower unit was encountered much shallower at approximately 4 feet bgs.

At SB-05, ash and fill material predominated and a slight undifferentiated odor and dark staining were observed on a thin band (1 to 2 inches thick) of material at 11 feet bgs. No fill materials were observed in this boring beyond 13 feet bgs. At SB-06, a brown silty sand and gravel zone (from 4 to 10.5 feet bgs) was encountered within the brown clayey silt with cobbles and gravel unit that extended to 16 feet bgs where gray brown gravel and silty sand was present.

At SB-08, thin layers of ash were interspersed in the brown clayey silt with cobbles unit to approximately 10 feet bgs. At 10 to 10.2 feet bgs, a slightly stained silt layer with a musty decay odor was observed. No signs of contamination or fill material were indicated beneath this point. The subsurface material at SB-11 was predominantly ash, cinder and coal to approximately 10 feet bgs. Then there was a thin 2-to-3-inch-thick layer of dark stained silt with a decay odor underlain by more ash and gravel. This boring was attempted four times (SB-11-1 through SB-11-4) with consistent refusals at 11 feet bgs. There was no clear indication of what caused the refusal.

At locations SB-14, SB-16, and SB-17, fill materials consisting primarily of ash, cinder, coal fragment, gravel, and sand also were encountered to a depth of 11 to 12 feet bgs. At SB-14 and SB-17, a layer of stained silt with MGP-type odors was encountered from 11 to 12 feet bgs and 9.5 to 10 feet bgs, respectively. All three of these borings were terminated in saturated silty gravel at 16 feet bgs.

Fill materials that were encountered in the soil borings are not necessarily associated with former gasholder operations. Bricks, concrete, cinders, ash, and coal are also common fill materials associated with urban environments. Considering that this location was used only for gas storage – not its manufacture – it's probably that the fill materials resulted from over 100 years of urbanized use of the property and surrounding areas.

Groundwater Occurrence and Flow Direction

In November 2005, groundwater was observed between approximately 14 and 15 feet bgs in the piezometers. Figure 4 presents the groundwater elevation contour map. A very flat horizontal gradient of approximately 0.002 foot/foot was indicated, with a flow direction to the east.

LABORATORY ANALYTICAL RESULTS

All of the samples collected for laboratory analysis were submitted to STL. Additional sample volumes collected for natural oxidant demand (NOD) analysis were sent to Carus Chemical Company. Upon receipt of the laboratory reports, URS completed Analytical Data Assessment Summaries. Generally, a data assessment summary addresses quality control deficiencies resulting in qualification of data. The data assessments for the soil samples, groundwater samples, scrape samples, and field quality control (QC) samples (trip blanks/rinse blanks/matrix spike (MS)/matrix spike duplicate (MSD)) collected on November 9-16, 2005, April 26, 2006, and June 12, 2006 at the site have been included as Appendix H. The laboratory data were generally found to meet QA/QC goals, with the exception of the results for total phenolics in the groundwater samples, which were rejected because they were not recovered (i.e., 0% recovery) in the MS/MSD analyses. The rejection of these data are not likely to impact conclusions regarding the site because no other organic compounds were detected in the groundwater samples.

Test Trench Soil Samples

All samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), total phenolics, total metals and total cyanide. In addition, the sample from TP-01 at 5.0 feet bgs was analyzed for total organic carbon (TOC) and NOD. Test trench locations

and the analytical results for compounds that exceeded NYSDEC *Technical and Administrative Guidance Memorandum* #4046 (TAGM) recommended soil cleanup objectives (RSCOs) are listed on Figure 5. Table 2 shows all detected compounds and RSCO exceedances are circled.

Organic Compounds

No VOCs were detected at concentrations above the RSCOs in any test trench. The SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were each detected at concentrations exceeding the RSCOs in at least one test trench sample. All seven of these compounds are polycyclic aromatic hydrocarbons (PAHs).

In TP-01 and TP-02, the highest detected contaminant concentrations were observed between 2.5 and 5.0 feet bgs (see Figure 5). Only benzo(a)pyrene exceeded the RSCOs in TP-01 (at 7.5 feet bgs), at a concentration of 88 micrograms per kilogram ($\mu\text{g/kg}$). Benzo(a)pyrene and dibenzo(a,h)anthracene both exceeded the RSCOs in TP-02 (at 7.0 feet bgs) at concentrations of 150 and 29 $\mu\text{g/kg}$, respectively.

In TP-01, the total SVOCs dropped from 20,241 $\mu\text{g/kg}$ at 2.5 feet bgs, to 848 $\mu\text{g/kg}$ at 7.5 feet bgs. In TP-02, the total SVOCs reduced from 48,560 $\mu\text{g/kg}$ at 2.5 feet bgs to 1,349 $\mu\text{g/kg}$ and 1,416 $\mu\text{g/kg}$ at 5.5 and 7.5 feet bgs, respectively. This indicates that contaminant concentrations decrease with depth in test trenches TP-01 and TP-02. The concentrations of total SVOCs observed in shallow soils from TP-01 and TP-02 are similar to what could be expected to be normal background concentrations of PAHs in an urban environment.

At TP-03, however, SVOC concentrations increased with depth. Fill materials (ash, cinder, debris) also were observed to increase with depth. In the 2.5-foot and 5.5-foot samples, the total SVOC concentrations were 18,260 and 47,630 $\mu\text{g/kg}$, respectively. These results were similar to those observed in the upper soils at TP-01 and TP-02 where results ranged from 1,349 to 48,560 $\mu\text{g/kg}$ total SVOCs. The TP-03 sample from 10.5 feet bgs exhibited the highest total SVOC concentrations of all the test trench samples collected at 157,000 $\mu\text{g/kg}$, most of which (150,900 $\mu\text{g/kg}$) are PAHs.

Metals

The analytical results for the test trench soil samples indicate exceedances of the RSCOs for several metals in all samples collected. The metals that consistently exceeded the RSCOs (i.e., beryllium, chromium, iron, nickel, and zinc) exhibit very little variability in concentration from one sampling location to another. With the exception of zinc, the concentrations of the metals detected fall within the ranges reported as Eastern USA background (TAGM #4046).

Arsenic, cadmium, copper, and mercury were detected at concentrations exceeding the RSCOs in the TP-03 sample from 10.5 feet bgs. Mercury also slightly exceeded the RSCOs in the TP-01 and TP-02 samples from 2.5 feet bgs.

Miscellaneous Parameters

No cyanide was detected in any test trench sample. The TOC sample results from TP-01 at 5.0 feet bgs range from 8,700 to 12,000 milligrams per kilogram (mg/kg). NOD is a measure of the amount of naturally occurring organic and inorganic material that competes with contamination for oxidation reagents. NOD results were calculated by the laboratory (Carus Chemical Company), based on permanganate soil groundwater oxidant demand (PSOD). PSOD is measure of the amount of permanganate consumed by a given soil sample over a given period of time. At a high dose of permanganate (33.9 grams per kilogram (g/kg)), it was determined that the PSOD of the soil sample (and its duplicate) ranged from 35.4 to 26.1 g/kg for a 48-hour period.

Geoprobe® Soil Samples

During the initial investigation in November 2005, a total of 17 samples were collected from the 11 borings and submitted for analysis of VOCs, SVOCs, total phenolics, total metals and total cyanide. Also, one additional sample at SB-07 (from 13 to 15 feet bgs) was analyzed for TOC and NOD. As agreed upon by the NYSDEC, the ten samples collected from additional borings advanced in April 2006 were submitted for analysis of benzene, toluene, ethylbenzene, and xylene (BTEX), PAHs, and total cyanide only. Soil boring locations and their corresponding analytical results for compounds that exceed RSCOs are depicted on Figure 6. Table 3 shows all compounds that were detected in the soil borings and compares them to RSCOs.

Volatile Organic Compounds

VOCs were detected at concentrations exceeding the RSCOs in only one of the samples collected, at SB-14 from 11 to 12 feet bgs, where ethylbenzene, toluene and xylene were each detected at a concentration exceeding their respective RSCOs. Another sample at this location, from 14 to 15 feet bgs, indicated no VOCs above the RSCOs.

Semi-Volatile Organic Compounds

SVOCs were detected at concentrations exceeding RSCOs at eight borings (i.e., SB-04, SB-05, SB-08, SB-11-1, SB-12, SB-14, SB-15, and SB-17). At SB-04, SB-12, and SB-15 the concentrations were relatively low and total SVOCs were reported at 11,970 µg/kg, 2,928 µg/kg, and 30,930 µg/kg, respectively. This is similar to the maximum total SVOCs observed in TP-01 (20,241 µg/kg), only at greater depths below the ground surface. Between depths of 9 to 12 feet bgs at SB-05, SB-08, SB-11-1, and SB-14 where staining was observed, total SVOC concentrations were more elevated than elsewhere on the site: 3,068,600 µg/kg at SB-05 from 11 to 12 feet bgs; 3,983,620 µg/kg at SB-08 from 10 to 12 feet bgs; 564,000 µg/kg at SB-11-1 from 9 to 11 feet bgs; and 474,700 µg/kg at SB-14 from 11 to 12 feet bgs. At SB-17, although some staining was observed from 9.5 to 10 feet bgs, total SVOC concentrations in the sample from 9 to 11 feet bgs were much lower, at 4,260 µg/kg, and slightly more elevated in the deeper sample collected from 12 to 14 feet bgs, at 17,250 µg/kg (although it should be noted that samples from SB-12 through SB-17 were analyzed for PAHs only). Generally, observed concentrations decreased drastically in soils sampled beneath the stained layer. At SB-05, total SVOC concentrations dropped two orders of magnitude between the sample from 11 to 12 feet bgs (3,068,600 µg/kg) and the sample from 15 to 16 feet bgs (54,680 µg/kg). Similarly, at

SB-08 from 10 to 12 feet bgs, 20 compounds exceeded RSCOs and total SVOCs were 3,983,620 µg/kg. However, from 18 to 20 feet bgs, no compounds exceeded RSCOs and total SVOCs were 769 µg/kg. At SB-11, four refusals were encountered at approximately 11 feet bgs, so soils could not be collected below that depth. No SVOCs exceeded RSCOs in any sample collected from the water bearing silty fine to coarse gravel observed across the site at an approximate depth of 16 feet bgs.

Metals

Metals results were similar to those observed in the test trench samples and are presumed to primarily represent background concentrations of area soils (see Figure 6).

Miscellaneous Parameters

Cyanide was detected in four samples at concentrations of 1.0 mg/kg in SB-08 from 10 to 12 feet bgs; 1.2 mg/kg in SB-11-1 from 9 to 11 feet bgs; 1.0 mg/kg in SB-12 from 14 to 15 feet bgs; and 4.0 mg/kg in SB-17 from 9 to 11 feet bgs. These concentrations were just over the analytical detection limits; however, there are no established RSCOs for cyanide in subsurface soil. The TOC result from the sample at SB-07 from 13 to 15 was 920 mg/kg. The laboratory (Carus Chemical Company) calculated the PSOD results. Based on a high dose of permanganate (28.9 g/kg), it was determined that the PSOD of the soil sample was 3.4 g/kg. Generally, sites with a PSOD of less than 35.0 g/kg at 48 hours for the high permanganate dose are favorable for the application of in-situ chemical oxidation with permanganate.

Groundwater Samples

Four groundwater samples collected from the piezometers were analyzed for VOCs, SVOCs, total metals, soluble iron, total cyanide, and total phenolics. The groundwater sample analytical results were compared to groundwater standards found in the NYSDEC Technical Operations and Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" issued in June 1998 and updated in April 2000 (see Figure 7 and Table 4). Results were non detect for all parameters, except for the metals, which were consistent in all four samples. Only iron and sodium were detected at concentrations above NYSDEC groundwater quality criteria. Sodium values were consistent across all four piezometers with concentrations ranged from 56,500 to 68,500 micrograms per liter (µg/L). Iron concentrations only slightly exceeded the guideline value of 300 µg/L at 1,200 and 324 µg/L in piezometers PZ-03 and PZ-04, respectively. Neither metal is a concern because they likely represent naturally occurring background concentrations.

Scrape Samples

The two samples, Scrape #1 and Scrape #2, both indicated low concentrations of BTEX compounds and elevated concentrations of SVOCs. The concentrations in the deeper sample, Scrape #2, were much lower than those in the surface sample (Scrape #1). Scrape #2 had additional rock matrix material mixed in with the coating on the rock. Scrape #3 is the background sample collected from stones above grade; some low levels of SVOCs were detected in the sample. There are no applicable

regulatory criteria for this type of sample. The analytical results are presented on Table 5. Photographs are included in Appendix A.

During sampling, the coating was noted to be dry and have a slight odor upon scraping. The odor was that of sulfur. The grout in several areas on the basement walls has been repointed at some time in the past. The grout was removed around some of the edges of the four stones sampled and the discoloring was observed beneath the grout (which overlapped the edges of the stones) and appeared to be present to the edges of the impacted stones. The grout itself was not coated, indicating the discoloring is not seeping through the stones and into the basement. The coating encompassed the entire surface area of the stones on which it was present. It was approximately the same thickness across the entire surface of each stone. There were no evident drip marks or moist areas on the stones. Prior to sampling there was no odor in the basement. Given the observations discussed above, and the elevation and location of the discolored stones with regard to observed soil contamination, it is the contention of URS and NYSEG that the discoloring has been present on the stones for quite some time and is not a recent occurrence. URS and NYSEG believe the stones with discoloration may have:

- Been sealed with a tar-based waterproofing compound by a previous homeowner or a tar-based waterproofing compound may have been applied to the basement stones during the home's original construction, and somehow these particular stones were coated on both sides or put in place backwards.
- Originated from the original gas holder foundation, and been found and used during the home's construction.

In an attempt to determine the source or origin of the discolored material on the stones, NYSEG sent the analytical results from the scrape samples to NewFields Environmental Forensics Practice (NewFields) in Rockland, Massachusetts. NewFields reported that the samples from Scrape #1 and Scrape #2 contained coal tar but they were not able to determine if the coal tar originated from the former gas holder or if it was from various other tar sources commonly encountered in residential properties (e.g. waterproofing sealer, tar paper, insecticides, and others). NewFields report is included as Appendix I.

Surface Soil Samples

The surface soil samples were analyzed for SVOCs that were detected in all six surface soils at concentrations above the RSCOs. The compounds benzo(a)anthracene, benzo(a)pyrene, and dibenzo(a,h)anthracene were detected at concentrations exceeding RSCOs in all six samples. Total PAH concentrations ranged from 3,200 µg/kg at location SS-05 to 83,600 µg/kg at location SS-01. The presence of SVOCs in surface soils in urban areas is not uncommon. Therefore, these SVOCs are not likely site-related; rather, they are most likely attributable to urban sources such as exhaust particulates from vehicular traffic or historic coal burning furnaces. Analytical results are presented on Table 6.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of this investigation, the following conclusions have been reached:

- The site area is situated in an urban setting and filling operations associated with anthropogenic activities have occurred over and beyond the past 100 years. The exact origin of the fill could not be differentiated as part of the investigation.
- VOCs were detected at concentrations exceeding the RSCOs in only one of the samples collected, at SB-14 from 11 to 12 feet bgs. Sampling points surrounding this location did not detect any VOCs at concentrations exceeding RSCOs, indicating it is an isolated occurrence.
- Several SVOCs, consisting primarily of PAHs, were detected in the test trenches and soil borings at concentrations exceeding the RSCOs (see Table 2 and 3).
- Widespread, low level concentrations of SVOCs were indicated in test trenches TP-01 and TP-02, with a slight observable decrease in concentration with depth (i.e., concentrations were generally higher from 2.5 to 5.5 feet bgs and lower at 7.0 feet bgs). At TP-03, however, concentrations of SVOCs increased with depth in the fill debris.
- Although the shallow soils did not always exhibit typical fill characteristics, the widespread nature and depth of contamination detected indicate that fill materials most likely extend to a depth of approximately 5 feet bgs across the site.
- The area with the most frequent detections of SVOCs and the highest concentrations is the western side of the site in the vicinity of SB-05, SB-08, SB-11, SB-14, and SB-17 where ash/fill materials were observed to depths greater than 12 feet bgs. A thin layer, approximately 0.2 to 1.0 feet in thickness, of stained silt was observed in all of these borings at depths ranging from 9.5 to 12 feet bgs. Total SVOC concentrations ranged from 4,260 to 3,983,620 $\mu\text{g}/\text{kg}$ at depths from 9 to 12 feet bgs in these borings. SVOC concentrations generally decreased below these depths. All these boring/sampling locations are presumed to be within the footprint of the former gasholder, indicating the location of the former gasholder is probably more to the west than initially postulated.
- Lower concentrations of SVOCs also were detected at a depth of 12 to 13.5 feet bgs in boring SB-04 on the eastern side of the site.
- No SVOCs exceeded the RSCOs in any sample collected from the water bearing silty fine to coarse gravel observed across the site at an approximate depth of 16 feet bgs.
- There were minimal to no odors in the areas investigated.
- No visible MGP wastes (coal tar, spent oxide chips, etc.) were observed nor were any elevated levels of cyanide detected.
- Groundwater at the site was observed to occur at a depth of about 14 to 15 feet, with flow to the east and a very flat horizontal gradient of approximately 0.002 foot/foot.

- No VOCs or SVOCs were detected in the groundwater samples indicating the groundwater has not been impacted.
- No direct evidence of the former gasholder was found during this investigation.
- The SVOCs observed appear to be mostly related to the ash fill material rather than typical MGP wastes. It is well known and documented that SVOCs are typically found in urban settings and ash is known to contain elevated levels of SVOCs.

The following recommendations are offered for consideration by the Department:

- Based upon the results presented herein, no further work at this site is recommended.

Please call me with any questions or comments at (716) 856-5636.

Sincerely,

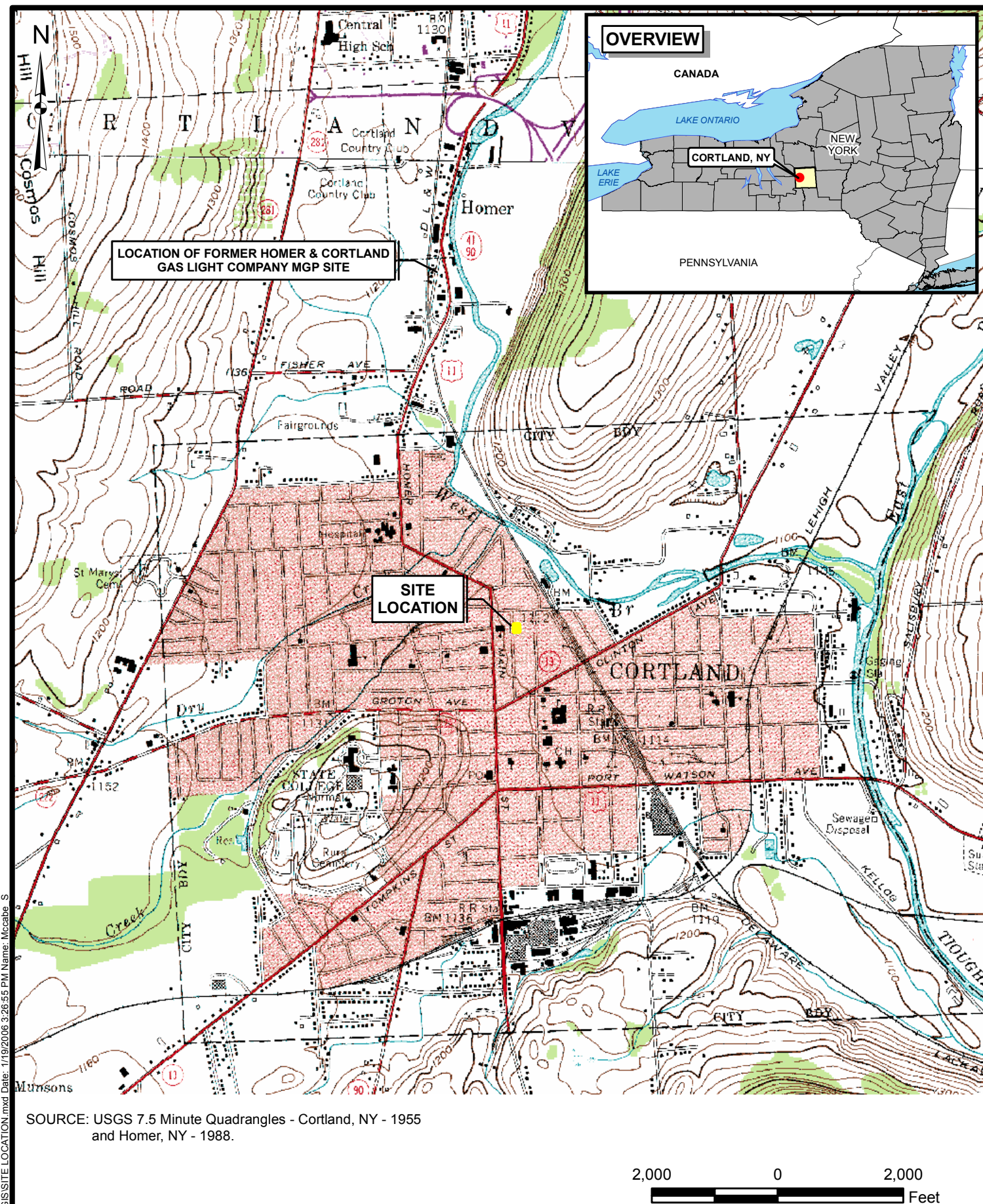
URS Corporation

Michael Gutmann
Project Manager

Enclosure






cc: Tracy Blazicek (NYSEG)
Julia Guastella (NYSDOH)
File: 11174305\ C-1

FIGURES



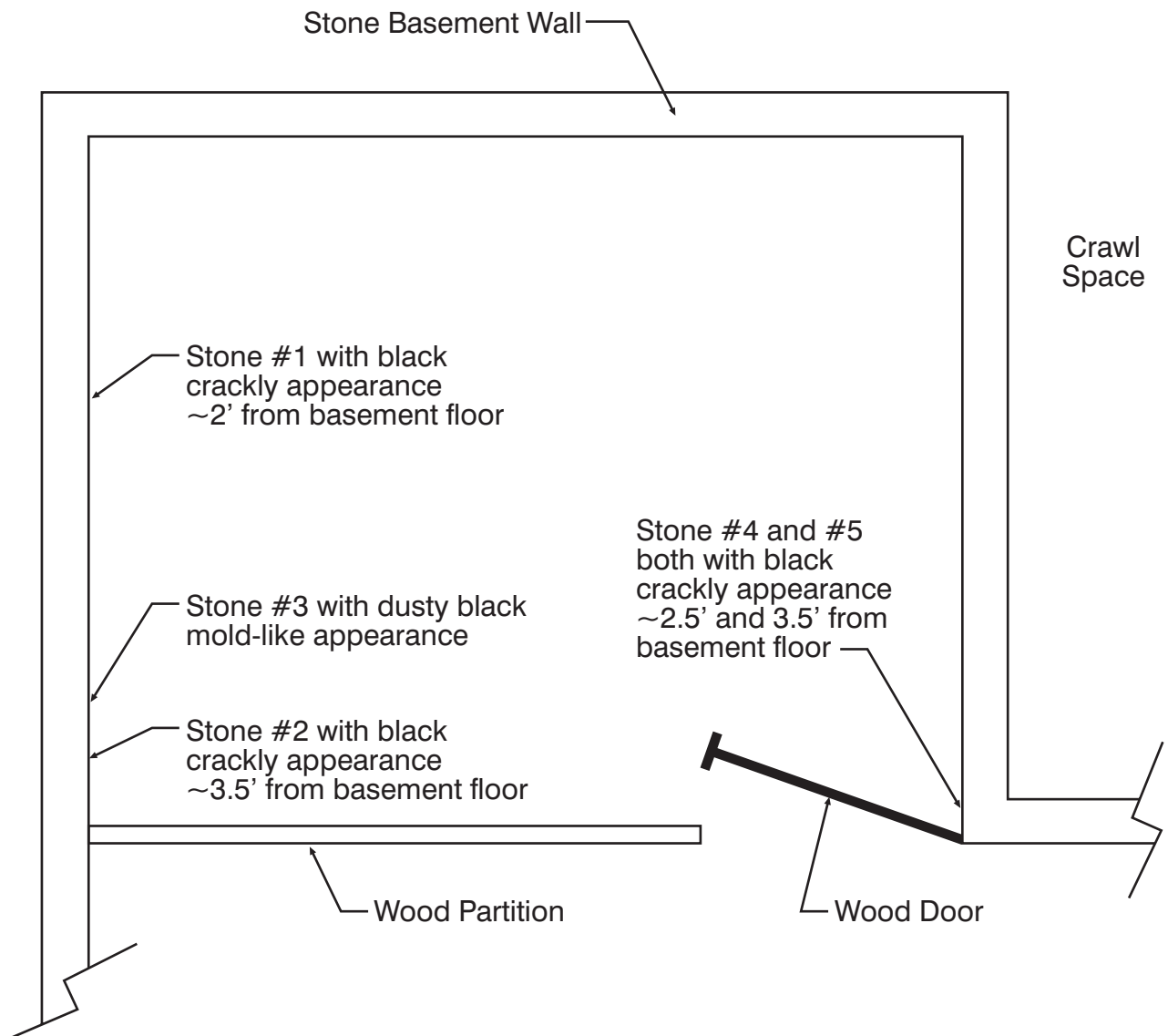


Legend

-  Piezometer Location
-  Soil Boring Location
-  Surface Soil Location
-  Test Pit Location
-  Site Boundary

Note:

(1) The location of the gasholder shown is based on available historic information. The field work did not corroborate this location.



NOT TO SCALE



NYSEG - CORTLAND
45 CHARLES STREET BASEMENT
SCRAPE SAMPLE LOCATIONS

FIGURE 3

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N:\1174305\00000\B\GIS\Chemistry\testpit_results.mxd Date: 2/9/2006 4:21:14 PM Name: Mccabe_S



TP-03 (2.5'-2.5') CR 11/05			
VOCs:			
Total BTEX	--		ND
Total VOCs	--		ND
SVOCs:			
Benzo (a) anthracene	224		1800
Benzo (a) pyrene	61		1500
Benzo (b) fluoranthene	1100		1800
Chrysene	400		1600
Dibenz (a,h) anthracene	14		270
Total PAHs	--		17898
Total SVOCs	--		18260
Metals:			
Beryllium	0.16		0.44
Chromium	10		13.2
Iron	2000		18900
Nickel	13		18
Zinc	20		89.5

TP-03 (5.5'-5.5') CR 11/05			
VOCs:			
Total BTEX	--		6
Total VOCs	--		6
SVOCs:			
Benzo (a) anthracene	224		3900
Benzo (a) pyrene	61		3700
Benzo (b) fluoranthene	1100		4400
Benzo (k) fluoranthene	1100		1600
Chrysene	400		3800
Dibenz (a,h) anthracene	14		620
Total PAHs	--		46380
Total SVOCs	--		47630
Metals:			
Beryllium	0.16		0.48
Chromium	10		13.2
Iron	2000		19500
Nickel	13		18
Zinc	20		104

TP-03 (10.5'-10.5') CR 11/05			
VOCs:			
Total BTEX	--		ND
Total VOCs	--		ND
SVOCs:			
Benzo (a) anthracene	224		12000
Benzo (a) pyrene	61		8900
Benzo (b) fluoranthene	1100		10000
Benzo (k) fluoranthene	1100		3600
Chrysene	400		10000
Dibenz (a,h) anthracene	14		1300
Indeno (1,2,3-cd) pyrene	3200		4500
Total PAHs	--		150900
Total SVOCs	--		157000
Metals:			
Arsenic	7.5		10.6
Beryllium	0.16		0.53
Cadmium	1		1.6
Copper	25		37.5
Iron	2000		19700
Mercury	0.1		0.363
Zinc	20		407

TP-02 (2.5'-2.5') CR 11/05			
VOCs:			
Total BTEX	--		ND
Total VOCs	--		ND
SVOCs:			
Benzo (a) anthracene	224		5500
Benzo (a) pyrene	61		4800
Benzo (b) fluoranthene	1100		6000
Benzo (k) fluoranthene	1100		1800
Chrysene	400		5200
Dibenz (a,h) anthracene	14		900
Total PAHs	--		48340
Total SVOCs	--		48560
Metals:			
Beryllium	0.16		0.41
Chromium	10		12.4
Iron	2000		18800
Mercury	0.1		0.125
Nickel	13		18.2
Zinc	20		101

TP-02 (5.5'-5.5') CR 11/05			
VOCs:			
Total BTEX	--		2
Total VOCs	--		2
SVOCs:			
Benzo (a) pyrene	61		120
Dibenz (a,h) anthracene	14		22
Total PAHs	--		1349
Total SVOCs	--		1349
Metals:			
Beryllium	0.16		0.54
Chromium	10		15.8
Iron	2000		24400
Nickel	13		27.7
Zinc	20		67.5

TP-02 (7'-7') CR 11/05			
VOCs:			
Total BTEX	--		3
Total VOCs	--		3
SVOCs:			
Benzo (a) pyrene	61		150
Dibenz (a,h) anthracene	14		29
Total PAHs	--		1416
Total SVOCs	--		1416
Metals:			
Beryllium	0.16		0.5
Chromium	10		14.3
Iron	2000		24700
Nickel	13		18.9
Zinc	20		71.5

TP-01 (2.5'-2.5') CR 11/05			
VOCs:			
Total BTEX	--		ND
Total VOCs	--		ND
SVOCs:			
Benzo (a) anthracene	224		2000
Benzo (a) pyrene	61		1900
Benzo (b) fluoranthene	1100		2400
Chrysene	400		1800
Dibenz (a,h) anthracene	14		350
Total PAHs	--		20040
Total SVOCs	--		20241
Metals:			
Beryllium	0.16		0.5
Chromium	10		15.3
Iron	2000		23200
Mercury	0.1		0.157
Nickel	13		20.8
Zinc	20		130

TP-01 (5'-5') CR 11/05			
VOCs:			
Total BTEX	--		4
Total VOCs	--		4
SVOCs:			
Benzo (a) anthracene	224		2200
Benzo (a) pyrene	61		1700
Benzo (b) fluoranthene	1100		2200
Chrysene	400		1900
Dibenz (a,h) anthracene	14		270
Total PAHs	--		19141
Total SVOCs	--		19183
Metals:			
Beryllium	0.16		0.46
Chromium	10		13.3
Iron	2000		22100
Nickel	13		20.2
Zinc	20		75.5

TP-01 (7.5'-7.5') CR 11/05			
VOCs:			
Total BTEX	--		5
Total VOCs	--		5
SVOCs:			
Benzo (a) pyrene	61		88
Total PAHs	--		848
Total SVOCs	--		848
Metals:			
Beryllium	0.16		0.51
Chromium	10		13.8
Iron	2000		24500
Nickel	13		21.6
Zinc	20		164

Legend

Test Pit Location

Site Boundary

SB-08 (10' - 12')

Benzo(a)anthracene, 230,000

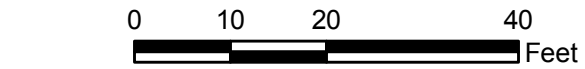
Depth Interval

Location ID

Compound Exceeding Criteria

Concentration

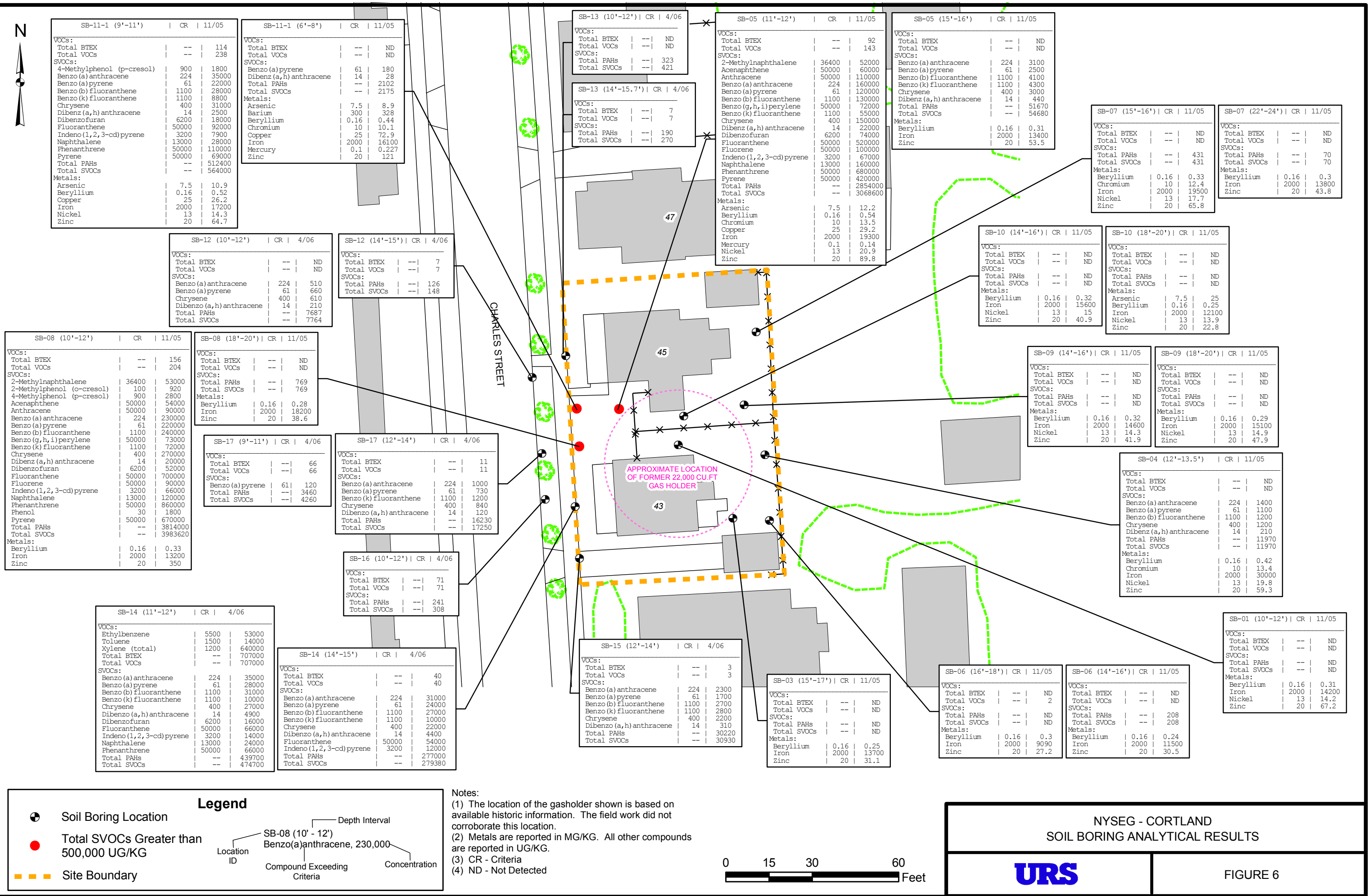
Notes:
(1) The location of the gasholder shown is based on available historic information. The field work did not corroborate this location.
(2) Metals are reported in MG/KG. All other compounds are reported in UG/KG.
(3) CR - Criteria
(4) ND - Not Detected

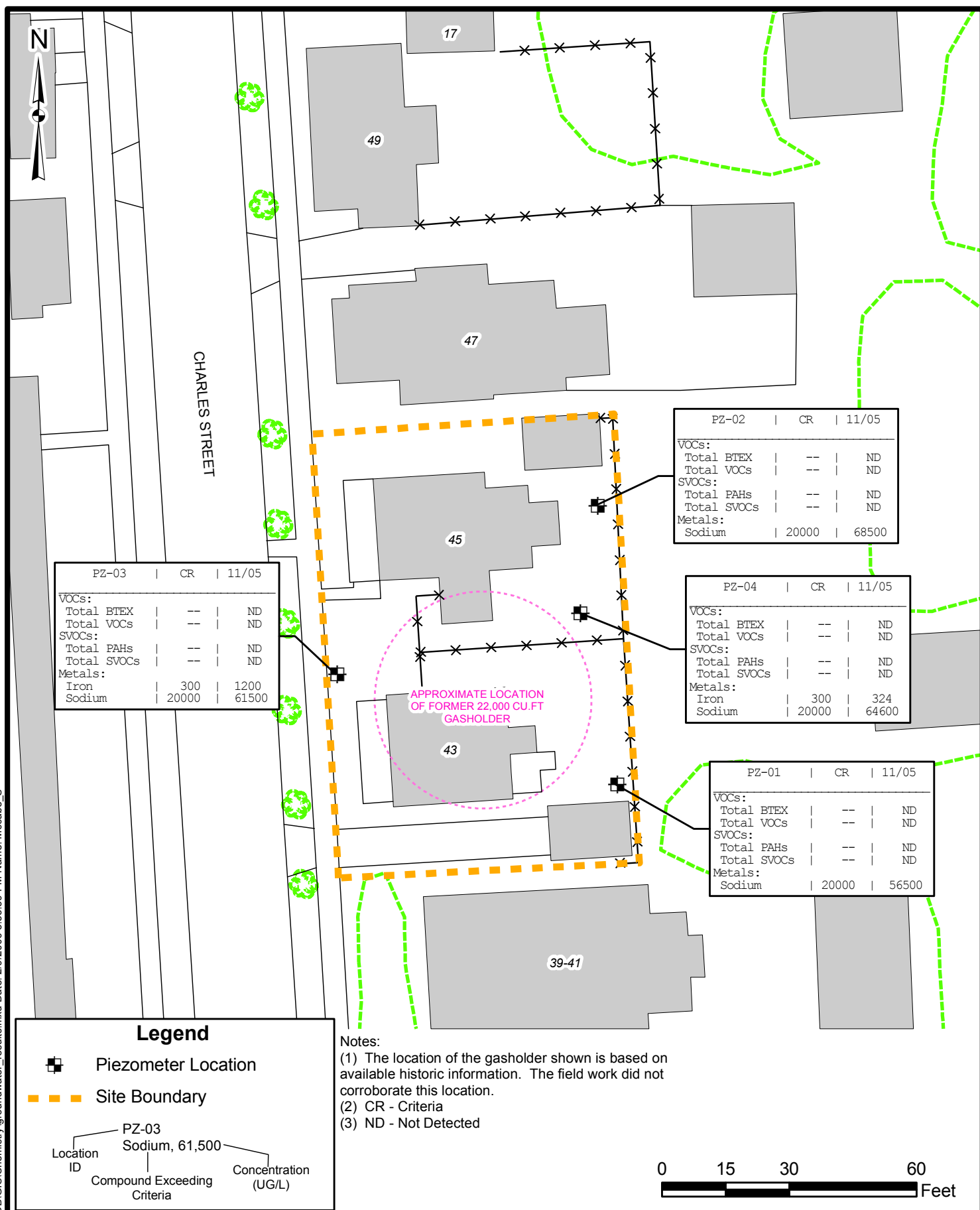


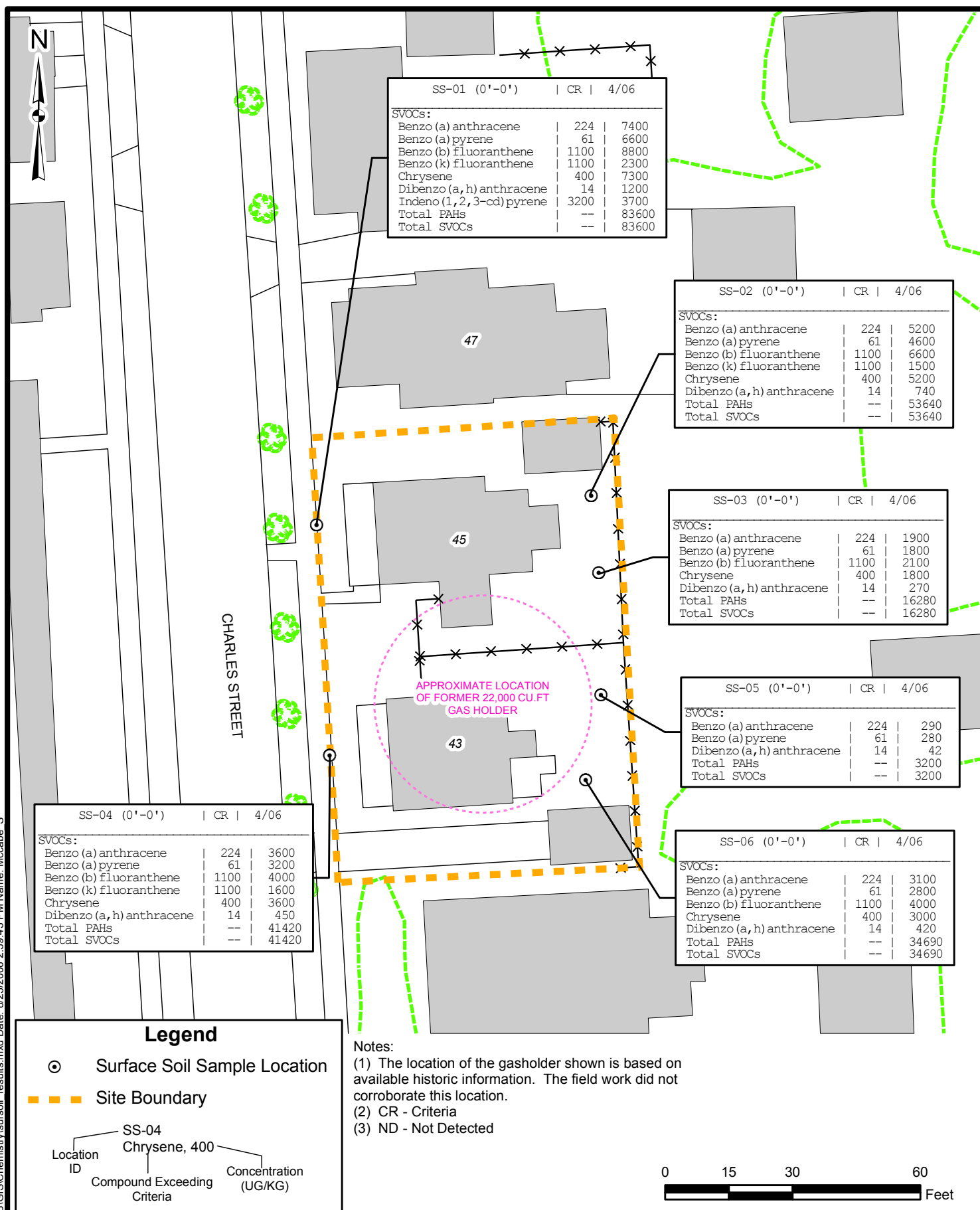
NYSEG - CORTLAND
TEST PIT ANALYTICAL RESULTS

URS

FIGURE 5







TABLES

TABLE 1
SURVEY INFORMATION
NYSEG - CORTLAND

Location ID	Type	Northing	Easting	Ground Elevation (ft)
PZ-01	Piezometer	949239.66	929013.36	1118.56
PZ-02	Piezometer	949305.17	929008.71	1119.11
PZ-03	Piezometer	949265.49	928947.38	1118.77
PZ-04	Piezometer	949279.89	929004.64	1119.10
SB-01	Borehole	949265.96	928981.76	1119.29
SB-02	Borehole	949239.27	929012.44	1118.59
SB-03	Borehole	949240.51	929000.69	1118.86
SB-04	Borehole	949262.45	929011.79	1118.76
SB-05	Borehole	949278.47	928961.18	1118.57
SB-06	Borehole	949239.66	929013.36	1118.56
SB-07	Borehole	949305.17	929008.71	1119.11
SB-08	Borehole	949265.49	928947.38	1118.77
SB-09	Borehole	949279.89	929004.64	1119.10
SB-10	Borehole	949275.91	928983.61	1119.51
SB-11-1	Borehole	949278.57	928946.46	1118.74
SB-11-2	Borehole	949277.44	928947.39	1118.71
SB-11-3	Borehole	949279.88	928950.45	1118.74
SB-11-4	Borehole	949276.90	928951.88	1118.58
SB-12	Borehole	949289.48	928931.04	NA
SB-13	Borehole	949296.99	928942.67	NA
SB-14	Borehole	949244.64	928945.99	NA
SB-15	Borehole	949226.66	928947.48	NA
SB-16	Borehole	949247.10	928935.59	NA
SB-17	Borehole	949263.10	928934.38	NA
SS-01	Surface Survey	949301.73	928942.47	NA
SS-02	Surface Survey	949308.63	929007.17	NA
SS-03	Surface Survey	949290.48	929008.94	NA
SS-04	Surface Survey	949247.42	928945.60	NA
SS-05	Surface Survey	949261.59	929009.49	NA
SS-06	Surface Survey	949241.61	929005.86	NA
TP-01	Test Pit	949259	928999	1118.86

TABLE 1
SURVEY INFORMATION
NYSEG - CORTLAND

Location ID	Type	Northing	Easting	Ground Elevation (ft)
TP-02	Test Pit	949281	928995	1119.20
TP-03	Test Pit	949269	928961	1118.66


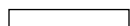
TABLE 2
SUMMARY OF DETECTED TEST PIT ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID				TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Volatile Organic Compounds								
Toluene	UG/KG	1500	-	6 U	2 J	4 J	5 J	6 U
Total BTEX	UG/KG	-	-	ND	2	4	5	ND
Total Volatile Organic Compounds	UG/KG	10000	-	ND	2	4	5	ND
Semivolatile Organic Compounds								
2-Methylnaphthalene	UG/KG	36400	-	23 J	380 U	1,800 U	380 U	1,900 U
Acenaphthene	UG/KG	50000	-	29 J	380 U	1,800 U	380 U	1,900 U
Acenaphthylene	UG/KG	41000	-	240 J	170 J	300 J	380 U	580 J
Anthracene	UG/KG	50000	-	320 J	150 J	300 J	380 U	660 J
Benzo(a)anthracene	UG/KG	224 or MDL	-	2,000	1,100	2,200	110 J	5,500
Benzo(a)pyrene	UG/KG	61 or MDL	-	1,900	970	1,700 J	88 J	4,800
Benzo(b)fluoranthene	UG/KG	1100	-	2,400	1,200	2,200	110 J	6,000
Benzo(g,h,i)perylene	UG/KG	50000	-	1,200	630	1,100 J	52 J	2,600
Benzo(k)fluoranthene	UG/KG	1100	-	630	360 J	790 J	33 J	1,800 J
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	380 U	380 U	1,800 U	380 U	1,900 U
Carbazole	UG/KG	50000	-	130 J	42 J	1,800 U	380 U	220 J
Chrysene	UG/KG	400	-	1,800	990	1,900	94 J	5,200
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	350 J	190 J	270 J	380 U	900 J
Dibenzofuran	UG/KG	6200	-	48 J	380 U	1,800 U	380 U	1,900 U
Fluoranthene	UG/KG	50000	-	3,600	1,600	3,400	160 J	8,400
Fluorene	UG/KG	50000	-	86 J	31 J	1,800 U	380 U	100 J

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

NA - Not Analyzed

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 2
SUMMARY OF DETECTED TEST PIT ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID				TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Semivolatile Organic Compounds								
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	1,100	560	1,000 J	51 J	2,500
Naphthalene	UG/KG	13000	-	85 J	50 J	1,800 U	380 U	1,900 U
Phenanthrene	UG/KG	50000	-	1,200	410	1,000 J	380 U	2,200
Pyrene	UG/KG	50000	-	3,100	1,400	2,900	150 J	7,100
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	20,040	9,811	19,060	848	48,340
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	20,241	9,853	19,060	848	48,560
Metals								
Aluminum	MG/KG	SB	33000	12,500 J	10,400 J	11,700 J	13,200 J	9,740 J
Arsenic	MG/KG	7.5	3-12	6.9	4.4	5.2	6.2	5.8
Barium	MG/KG	300	15-600	75.8 J	55.3 J	59.0 J	59.0 J	56.3 J
Beryllium	MG/KG	0.16	0-1.75	0.50	0.41	0.46	0.51	0.41
Cadmium	MG/KG	1	0.1-1	0.42	0.26	0.26	0.53	0.32
Calcium	MG/KG	SB	130-35000	2,900 J	2,390 J	2,700 J	1,940 J	9,690 J
Chromium	MG/KG	10	1.5-40	15.3	12.1	13.3	13.8	12.4
Cobalt	MG/KG	30	2.5-60	9.5	7.5	9.0	9.2	7.4
Copper	MG/KG	25	1-50	24.5	24.0	19.3	20.3	20.4
Iron	MG/KG	2000	2000-550000	23,200 J	21,400 J	22,100 J	24,500 J	18,800 J
Lead	MG/KG	SB	500	74.6 J	32.1 J	30.2 J	34.3 J	43.0 J
Magnesium	MG/KG	SB	100-5000	3,640 J	3,310 J	3,710 J	3,440 J	4,260 J
Manganese	MG/KG	SB	50-5000	961 J	688 J	880 J	1,050 J	697 J

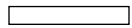
Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

NA - Not Analyzed

Only Detected Results Reported.

Detection Limits shown are PQL

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[MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'TP-'


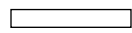
TABLE 2
SUMMARY OF DETECTED TEST PIT ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID				TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (1-1)			
Metals								
Mercury	MG/KG	0.1	0.001-0.2	0.157	0.048	0.053	0.051	0.125
Nickel	MG/KG	13	0.5-25	20.8	17.9	20.2	21.6	18.2
Potassium	MG/KG	SB	8500-43000	880	650	771	713	619
Vanadium	MG/KG	150	1-300	19.9	14.0	16.7	19.1	13.7
Zinc	MG/KG	20	9-50	130 J	74.1 J	75.5 J	164 J	101 J
Miscellaneous Parameters								
Total Organic Carbon (TOC)	MG/KG	-	-	NA	12,000	8,700	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

NA - Not Analyzed

Only Detected Results Reported.

Detection Limits shown are PQL


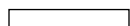
TABLE 2
SUMMARY OF DETECTED TEST PIT ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID				TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
Toluene	UG/KG	1500	-	2 J	3 J	6 U	6	6 U
Total BTEX	UG/KG	-	-	2	3	ND	6	ND
Total Volatile Organic Compounds	UG/KG	10000	-	2	3	ND	6	ND
Semivolatile Organic Compounds								
2-Methylnaphthalene	UG/KG	36400	-	380 U	430 U	33 J	180 J	1,100 J
Acenaphthene	UG/KG	50000	-	380 U	430 U	46 J	230 J	1,100 J
Acenaphthylene	UG/KG	41000	-	380 U	430 U	210 J	620 J	3,200
Anthracene	UG/KG	50000	-	380 U	23 J	340 J	750 J	7,400
Benzo(a)anthracene	UG/KG	224 or MDL	-	140 J	190 J	1,800	3,900	12,000
Benzo(a)pyrene	UG/KG	61 or MDL	-	120 J	150 J	1,500	3,700	8,900
Benzo(b)fluoranthene	UG/KG	1100	-	200 J	170 J	1,800	4,400	10,000
Benzo(g,h,i)perylene	UG/KG	50000	-	73 J	30 J	790	2,400	4,900
Benzo(k)fluoranthene	UG/KG	1100	-	190 J	65 J	650	1,600 J	3,600
bis(2-Ethylhexyl)phthalate	UG/KG	50000	-	380 U	430 U	94 J	1,900 U	2,200 U
Carbazole	UG/KG	50000	-	380 U	430 U	160 J	750 J	2,000 J
Chrysene	UG/KG	400	-	120 J	140 J	1,600	3,800	10,000
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	22 J	29 J	270 J	620 J	1,300 J
Dibenzofuran	UG/KG	6200	-	380 U	430 U	75 J	320 J	3,000
Fluoranthene	UG/KG	50000	-	190 J	260 J	3,500	8,500	29,000
Fluorene	UG/KG	50000	-	380 U	430 U	120 J	340 J	4,900

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

NA - Not Analyzed

Only Detected Results Reported.

Detection Limits shown are PQL

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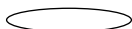
TABLE 2
SUMMARY OF DETECTED TEST PIT ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID				TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	68 J	78 J	800	2,200	4,500
Naphthalene	UG/KG	13000	-	380 U	430 U	72 J	620 J	1,100 J
Phenanthrene	UG/KG	50000	-	46 J	51 J	1,500	5,300	27,000
Pyrene	UG/KG	50000	-	180 J	230 J	2,900	7,400	22,000
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	1,349	1,416	17,898	46,380	150,900
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	1,349	1,416	18,260	47,630	157,000
Metals								
Aluminum	MG/KG	SB	33000	15,200 J	14,200 J	11,100 J	10,900 J	5,990 J
Arsenic	MG/KG	7.5	3-12	5.2	4.6	5.6	7.2	10.6
Barium	MG/KG	300	15-600	31.5 J	70.7 J	84.4 J	76.1 J	62.6 J
Beryllium	MG/KG	0.16	0-1.75	0.54	0.50	0.44	0.48	0.53
Cadmium	MG/KG	1	0.1-1	0.28	0.23 U	0.30	0.25	1.6
Calcium	MG/KG	SB	130-35000	1,160 J	3,310 J	2,640 J	4,760 J	3,440 J
Chromium	MG/KG	10	1.5-40	15.8	14.3	13.2	13.2	8.8
Cobalt	MG/KG	30	2.5-60	10.6	9.9	7.5	8.1	6.0
Copper	MG/KG	25	1-50	19.0	14.0	19.9	24.6	37.5
Iron	MG/KG	2000	2000-550000	24,400 J	24,700 J	18,900 J	19,500 J	19,700 J
Lead	MG/KG	SB	500	13.1 J	18.0 J	84.3 J	150 J	598 J
Magnesium	MG/KG	SB	100-5000	4,180 J	3,960 J	3,040 J	3,330 J	1,250 J
Manganese	MG/KG	SB	50-5000	549 J	1,040 J	571 J	744 J	470 J

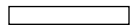
Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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[MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'TP-'

TABLE 2
SUMMARY OF DETECTED TEST PIT ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID				TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled				11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Mercury	MG/KG	0.1	0.001-0.2	0.047	0.022	0.097	0.058	0.363
Nickel	MG/KG	13	0.5-25	27.7	18.9	18.0	18.0	11.9
Potassium	MG/KG	SB	8500-43000	622	726	696	702	393
Vanadium	MG/KG	150	1-300	16.0	20.3	16.5	21.5	16.0
Zinc	MG/KG	20	9-50	67.5 J	71.5 J	89.5 J	104 J	407 J
Miscellaneous Parameters								
Total Organic Carbon (TOC)	MG/KG	-	-	NA	NA	NA	NA	NA

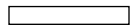
Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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J - The reported concentration is an estimated value.

NA - Not Analyzed

Only Detected Results Reported.

Detection Limits shown are PQL

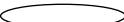
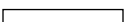
TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID				SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled				11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Volatile Organic Compounds								
Acetone	UG/KG	200	-	27 U	27 U	26 U	26 U	41
Benzene	UG/KG	60	-	5 U	5 U	5 U	5 U	8
Carbon disulfide	UG/KG	2700	-	5 U	5 U	5 U	5 U	2 J
Ethylbenzene	UG/KG	5500	-	5 U	5 U	5 U	5 U	12
Isopropylbenzene (Cumene)	UG/KG	2300	-	5 U	5 U	5 U	5 U	5 U
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	27 U	27 U	26 U	26 U	8 J
Styrene	UG/KG	-	-	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	UG/KG	1400	-	5 U	5 U	5 U	5 U	5 U
Toluene	UG/KG	1500	-	5 U	5 U	5 U	5 U	10
Xylene (total)	UG/KG	1200	-	16 U	16 U	16 U	16 U	62
Total BTEX	UG/KG	-	-	ND	ND	ND	ND	92
Total Volatile Organic Compounds	UG/KG	10000	-	ND	ND	ND	ND	143
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	12,000
2,4-Dimethylphenol	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	3,600 J
2-Methylnaphthalene	UG/KG	36400	-	360 U	350 U	1,700 U	1,700 U	52,000
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	360 U	350 U	1,700 U	1,700 U	11,000 U
4-Methylphenol (p-cresol)	UG/KG	900	-	360 U	350 U	1,700 U	1,700 U	11,000 U
Acenaphthene	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	60,000
Acenaphthylene	UG/KG	41000	-	360 U	350 U	130 J	120 J	28,000

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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 Concentration Exceeds Criteria (1)
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Only Detected Results Reported.

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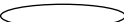
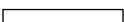
TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID				SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled				11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Semivolatile Organic Compounds								
Anthracene	UG/KG	50000	-	360 U	350 U	250 J	180 J	110,000
Benzo(a)anthracene	UG/KG	224 or MDL	-	360 U	350 U	1,400 J	1,200 J	160,000
Benzo(a)pyrene	UG/KG	61 or MDL	-	360 U	350 U	1,100 J	1,100 J	120,000
Benzo(b)fluoranthene	UG/KG	1100	-	360 U	350 U	1,200 J	1,200 J	130,000
Benzo(g,h,i)perylene	UG/KG	50000	-	360 U	350 U	620 J	560 J	72,000
Benzo(k)fluoranthene	UG/KG	1100	-	360 U	350 U	650 J	630 J	55,000
Carbazole	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	73,000
Chrysene	UG/KG	400	-	360 U	350 U	1,200 J	1,000 J	150,000
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	360 U	350 U	170 J	210 J	22,000
Dibenzofuran	UG/KG	6200	-	360 U	350 U	1,700 U	1,700 U	74,000
Fluoranthene	UG/KG	50000	-	360 U	350 U	2,100	1,600 J	520,000 D
Fluorene	UG/KG	50000	-	360 U	350 U	1,700 U	1,700 U	100,000
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	360 U	350 U	590 J	530 J	67,000
Naphthalene	UG/KG	13000	-	360 U	350 U	1,700 U	1,700 U	160,000
Phenanthrene	UG/KG	50000	-	360 U	350 U	620 J	360 J	680,000 D
Phenol	UG/KG	30 or MDL	-	360 U	350 U	1,700 U	1,700 U	55,000 U
Pyrene	UG/KG	50000	-	360 U	350 U	1,900	1,500 J	420,000 D
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	ND	ND	11,930	10,190	2,854,000
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	ND	ND	11,930	10,190	3,068,600

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

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J - The reported concentration is an estimated value.

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Only Detected Results Reported.

Detection Limits shown are PQL

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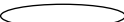
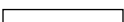
TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID				SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled				11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Metals								
Aluminum	MG/KG	SB	33000	6,230 J	6,070 J	10,300 J	10,100 J	9,790 J
Arsenic	MG/KG	7.5	3-12	3.7	2.3	5.2	5.3	12.2
Barium	MG/KG	300	15-600	31.3 J	28.6 J	45.6 J	51.3 J	51.5 J
Beryllium	MG/KG	0.16	0-1.75	0.31	0.25	0.42	0.42	0.54
Cadmium	MG/KG	1	0.1-1	0.23 U	0.23 U	0.33	0.29	0.38 U
Calcium	MG/KG	SB	130-35000	61,400	27,600	2,590 J	23,200 J	72,400
Chromium	MG/KG	10	1.5-40	8.5	7.9	13.4	12.8	13.5
Cobalt	MG/KG	30	2.5-60	5.7	4.9	8.9	8.3	7.8
Copper	MG/KG	25	1-50	21.8	7.3	16.8	22.2	29.2
Iron	MG/KG	2000	2000-550000	14,200 J	13,700 J	30,000 J	23,100 J	19,300 J
Lead	MG/KG	SB	500	8.7	3.6	13.5	12.0	390
Magnesium	MG/KG	SB	100-5000	15,700 J	5,560 J	3,090 J	8,810 J	22,200 J
Manganese	MG/KG	SB	50-5000	484 J	290 J	829 J	989 J	403 J
Mercury	MG/KG	0.1	0.001-0.2	0.018 U	0.019 U	0.051	0.041	0.140
Nickel	MG/KG	13	0.5-25	14.2	11.3	19.4	19.8	20.9
Potassium	MG/KG	SB	8500-43000	786	593	502	791	1,020
Sodium	MG/KG	SB	6000-8000	163 U	164 U	142 U	160 U	316
Vanadium	MG/KG	150	1-300	9.2	8.3	16.4	14.6	23.7
Zinc	MG/KG	20	9-50	67.2	31.1	59.3	58.3	89.8

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

NA - Not Analyzed

Only Detected Results Reported.

Detection Limits shown are PQL


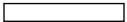
TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID				SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled				11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Miscellaneous Parameters								
Cyanide	MG/KG	-	-	1.1 U	0.85 U	1.0 U	0.97 U	1.8 U
Cyanide, Amenable To Chlorination	MG/KG	-	-	0.98 U	1.1 U	0.84 U	1.1 U	1.4 U
Total Organic Carbon (TOC)	MG/KG	-	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

NA - Not Analyzed

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID				SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled				11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
Acetone	UG/KG	200	-	26 U	25 U	27 U	NA	27 U
Benzene	UG/KG	60	-	5 U	5 U	5 U	NA	5 U
Carbon disulfide	UG/KG	2700	-	5 U	5 U	5 U	NA	5 U
Ethylbenzene	UG/KG	5500	-	5 U	5 U	5 U	NA	5 U
Isopropylbenzene (Cumene)	UG/KG	2300	-	5 U	5 U	5 U	NA	5 U
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	26 U	25 U	27 U	NA	27 U
Styrene	UG/KG	-	-	5 U	5 U	5 U	NA	5 U
Tetrachloroethene	UG/KG	1400	-	5 U	5 U	2 J	NA	5 U
Toluene	UG/KG	1500	-	5 U	5 U	5 U	NA	5 U
Xylene (total)	UG/KG	1200	-	16 U	15 U	16 U	NA	16 U
Total BTEX	UG/KG	-	-	ND	ND	ND	NA	ND
Total Volatile Organic Compounds	UG/KG	10000	-	ND	ND	2	NA	ND
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
2,4-Dimethylphenol	UG/KG	50000	-	1,800 U	340 U	360 U	NA	350 U
2-Methylnaphthalene	UG/KG	36400	-	810 J	340 U	360 U	NA	350 U
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	1,800 U	340 U	360 U	NA	350 U
4-Methylphenol (p-cresol)	UG/KG	900	-	1,800 U	340 U	360 U	NA	350 U
Acenaphthene	UG/KG	50000	-	750 J	340 U	360 U	NA	350 U
Acenaphthylene	UG/KG	41000	-	780 J	340 U	360 U	NA	350 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

NA - Not Analyzed

Only Detected Results Reported.

Detection Limits shown are PQL

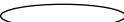
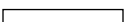
TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID				SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled				11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Anthracene	UG/KG	50000	-	1,800	340 U	360 U	NA	350 U
Benzo(a)anthracene	UG/KG	224 or MDL	-	3,100	30 J	360 U	NA	52 J
Benzo(a)pyrene	UG/KG	61 or MDL	-	2,500	19 J	360 U	NA	44 J
Benzo(b)fluoranthene	UG/KG	1100	-	4,100	28 J	360 U	NA	67 J
Benzo(g,h,i)perylene	UG/KG	50000	-	1,600 J	340 U	360 U	NA	26 J
Benzo(k)fluoranthene	UG/KG	1100	-	4,300	340 U	360 U	NA	72 J
Carbazole	UG/KG	50000	-	1,000 J	340 U	360 U	NA	350 U
Chrysene	UG/KG	400	-	3,000	26 J	360 U	NA	42 J
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	440 J	340 U	360 U	NA	350 U
Dibenzofuran	UG/KG	6200	-	1,200 J	340 U	360 U	NA	350 U
Fluoranthene	UG/KG	50000	-	8,600	45 J	360 U	NA	76 J
Fluorene	UG/KG	50000	-	1,800	340 U	360 U	NA	350 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	1,400 J	340 U	360 U	NA	22 J
Naphthalene	UG/KG	13000	-	1,400 J	34 J	360 U	NA	350 U
Phenanthrene	UG/KG	50000	-	9,800	26 J	360 U	NA	30 J
Phenol	UG/KG	30 or MDL	-	1,800 U	340 U	360 U	NA	350 U
Pyrene	UG/KG	50000	-	6,300	340 U	360 U	NA	350 U
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	51,670	208	ND	NA	431
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	54,680	208	ND	NA	431

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
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Only Detected Results Reported.

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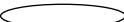
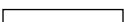
TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID				SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled				11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Aluminum	MG/KG	SB	33000	6,020 J	4,970 J	4,270 J	NA	8,580 J
Arsenic	MG/KG	7.5	3-12	4.8	2.6	2.8	NA	3.6
Barium	MG/KG	300	15-600	34.7 J	25.8 J	24.2 J	NA	38.0 J
Beryllium	MG/KG	0.16	0-1.75	0.31	0.24	0.30	NA	0.33
Cadmium	MG/KG	1	0.1-1	0.24	0.18 U	0.20 U	NA	0.23
Calcium	MG/KG	SB	130-35000	76,800	33,900	199,000	NA	39,400
Chromium	MG/KG	10	1.5-40	9.3	6.2	5.8	NA	12.4
Cobalt	MG/KG	30	2.5-60	5.3	4.0	3.6	NA	7.2
Copper	MG/KG	25	1-50	16.3	8.2	12.1	NA	22.7
Iron	MG/KG	2000	2000-550000	13,400 J	11,500 J	9,090 J	NA	19,500 J
Lead	MG/KG	SB	500	68.2	5.2	3.9	NA	10.7
Magnesium	MG/KG	SB	100-5000	15,300 J	4,130 J	11,000 J	NA	9,770 J
Manganese	MG/KG	SB	50-5000	426 J	639 J	414 J	NA	515 J
Mercury	MG/KG	0.1	0.001-0.2	0.026	0.038	0.017 U	NA	0.016 U
Nickel	MG/KG	13	0.5-25	12.7	10.8	9.0	NA	17.7
Potassium	MG/KG	SB	8500-43000	756	460	694	NA	813
Sodium	MG/KG	SB	6000-8000	155 U	125 U	159	NA	147 U
Vanadium	MG/KG	150	1-300	10.2	6.8	6.1	NA	12.2
Zinc	MG/KG	20	9-50	53.5	30.5	27.2	NA	65.8

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Only Detected Results Reported.

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[MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SB-

TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID				SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled				11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	Units	Criteria (1)	Criteria (2)					
Miscellaneous Parameters								
Cyanide	MG/KG	-	-	1.1 U	0.82 U	1.1 U	NA	1.0 U
Cyanide, Amenable To Chlorination	MG/KG	-	-	1.0 U	0.93 U	0.81 U	NA	0.82 U
Total Organic Carbon (TOC)	MG/KG	-	-	NA	NA	NA	920	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

Detection Limits shown are PQL

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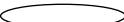
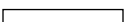
TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID				SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled				11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
Acetone	UG/KG	200	-	28 U	30	26 U	26 U	28 U
Benzene	UG/KG	60	-	6 U	15	5 U	5 U	6 U
Carbon disulfide	UG/KG	2700	-	6 U	3 J	5 U	5 U	6 U
Ethylbenzene	UG/KG	5500	-	6 U	24	5 U	5 U	6 U
Isopropylbenzene (Cumene)	UG/KG	2300	-	6 U	6	5 U	5 U	6 U
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	28 U	30 U	26 U	26 U	28 U
Styrene	UG/KG	-	-	6 U	9	5 U	5 U	6 U
Tetrachloroethene	UG/KG	1400	-	6 U	6 U	5 U	5 U	6 U
Toluene	UG/KG	1500	-	6 U	19	5 U	5 U	6 U
Xylene (total)	UG/KG	1200	-	17 U	98	16 U	16 U	16 U
Total BTEX	UG/KG	-	-	ND	156	ND	ND	ND
Total Volatile Organic Compounds	UG/KG	10000	-	ND	204	ND	ND	ND
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	380 U	13,000	350 U	350 U	370 U
2,4-Dimethylphenol	UG/KG	50000	-	380 U	1,100 J	350 U	350 U	370 U
2-Methylnaphthalene	UG/KG	36400	-	380 U	53,000	350 U	350 U	370 U
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	380 U	920 J	350 U	350 U	370 U
4-Methylphenol (p-cresol)	UG/KG	900	-	380 U	2,800 J	350 U	350 U	370 U
Acenaphthene	UG/KG	50000	-	380 U	54,000	350 U	350 U	370 U
Acenaphthylene	UG/KG	41000	-	380 U	39,000	24 J	350 U	370 U

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit.

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Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID				SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled				11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Anthracene	UG/KG	50000	-	380 U	90,000	31 J	350 U	370 U
Benzo(a)anthracene	UG/KG	224 or MDL	-	22 J	230,000 D	59 J	350 U	370 U
Benzo(a)pyrene	UG/KG	61 or MDL	-	380 U	220,000 D	48 J	350 U	370 U
Benzo(b)fluoranthene	UG/KG	1100	-	19 J	240,000 D	60 J	350 U	370 U
Benzo(g,h,i)perylene	UG/KG	50000	-	380 U	73,000	24 J	350 U	370 U
Benzo(k)fluoranthene	UG/KG	1100	-	380 U	72,000	350 U	350 U	370 U
Carbazole	UG/KG	50000	-	380 U	45,000	350 U	350 U	370 U
Chrysene	UG/KG	400	-	380 U	270,000 D	57 J	350 U	370 U
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	380 U	20,000	350 U	350 U	370 U
Dibenzofuran	UG/KG	6200	-	380 U	52,000	350 U	350 U	370 U
Fluoranthene	UG/KG	50000	-	29 J	700,000 D	140 J	350 U	370 U
Fluorene	UG/KG	50000	-	380 U	90,000	25 J	350 U	370 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	380 U	66,000	21 J	350 U	370 U
Naphthalene	UG/KG	13000	-	380 U	120,000	350 U	350 U	370 U
Phenanthrene	UG/KG	50000	-	380 U	860,000 D	150 J	350 U	370 U
Phenol	UG/KG	30 or MDL	-	380 U	1,800 J	350 U	350 U	370 U
Pyrene	UG/KG	50000	-	380 U	670,000 D	130 J	350 U	370 U
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	70	3,814,000	769	ND	ND
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	70	3,983,620	769	ND	ND

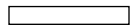
Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit.

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Only Detected Results Reported.

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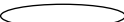
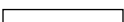
TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID				SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled				11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Aluminum	MG/KG	SB	33000	6,040 J	4,550 J	6,280 J	7,550 J	7,570 J
Arsenic	MG/KG	7.5	3-12	2.8	5.2	4.2	3.1	3.1
Barium	MG/KG	300	15-600	27.6 J	40.1 J	44.5 J	39.4 J	28.8 J
Beryllium	MG/KG	0.16	0-1.75	0.30	0.33	0.28	0.32	0.29
Cadmium	MG/KG	1	0.1-1	0.20 U	0.27 U	0.22 U	0.20 U	0.20 U
Calcium	MG/KG	SB	130-35000	66,400	11,500 J	62,100 J	59,200 J	46,000 J
Chromium	MG/KG	10	1.5-40	8.0	6.1	7.3	8.7	9.3
Cobalt	MG/KG	30	2.5-60	5.2	3.8	5.1	5.2	5.9
Copper	MG/KG	25	1-50	15.0	20.9	22.5	16.2	17.3
Iron	MG/KG	2000	2000-550000	13,800 J	13,200 J	18,200 J	14,600 J	15,100 J
Lead	MG/KG	SB	500	6.5	749	9.3	5.8	11.4
Magnesium	MG/KG	SB	100-5000	6,110 J	2,780	4,590	9,170	7,610
Manganese	MG/KG	SB	50-5000	523 J	214 J	618 J	423 J	443 J
Mercury	MG/KG	0.1	0.001-0.2	0.019 U	0.065	0.016 U	0.016 U	0.020 U
Nickel	MG/KG	13	0.5-25	13.0	10.0	12.3	14.3	14.9
Potassium	MG/KG	SB	8500-43000	591	348	557	742	675
Sodium	MG/KG	SB	6000-8000	143 U	189 U	157 U	142 U	143 U
Vanadium	MG/KG	150	1-300	8.0	15.2	9.8	9.7	9.6
Zinc	MG/KG	20	9-50	43.8	350	38.6	41.9	47.9

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit.

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Only Detected Results Reported.

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[MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SB-

TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID				SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled				11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	Units	Criteria (1)	Criteria (2)					
Miscellaneous Parameters								
Cyanide	MG/KG	-	-	1.1 U	1.0	0.92 U	1.0 U	1.0 U
Cyanide, Amenable To Chlorination	MG/KG	-	-	1.1 U	1.1 U	1.0 U	0.95 U	1.0 U
Total Organic Carbon (TOC)	MG/KG	-	-	NA	NA	NA	NA	NA

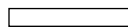
Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

NA - Not Analyzed

Only Detected Results Reported.

Detection Limits shown are PQL

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[MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SB-


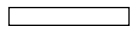
TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-10	SB-10	SB-11-1	SB-11-1	SB-12
Sample ID				SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11	DUP-042606
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0	10.0-12.0
Date Sampled				11/14/05	11/14/05	11/14/05	11/14/05	04/26/06
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Volatile Organic Compounds								
Acetone	UG/KG	200	-	26 U	26 U	26 U	88	NA
Benzene	UG/KG	60	-	5 U	5 U	5 U	22	NA
Carbon disulfide	UG/KG	2700	-	5 U	5 U	5 U	7	NA
Ethylbenzene	UG/KG	5500	-	5 U	5 U	5 U	22	NA
Isopropylbenzene (Cumene)	UG/KG	2300	-	5 U	5 U	5 U	3 J	NA
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	26 U	26 U	26 U	22 J	NA
Styrene	UG/KG	-	-	5 U	5 U	5 U	4 J	NA
Tetrachloroethene	UG/KG	1400	-	5 U	5 U	5 U	6 U	NA
Toluene	UG/KG	1500	-	5 U	5 U	5 U	10	NA
Xylene (total)	UG/KG	1200	-	16 U	16 U	16 U	60	NA
Total BTEX	UG/KG	-	-	ND	ND	ND	114	NA
Total Volatile Organic Compounds	UG/KG	10000	-	ND	ND	ND	238	NA
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	340 U	360 U	350 U	4,000 J	NA
2,4-Dimethylphenol	UG/KG	50000	-	340 U	360 U	350 U	8,100 U	NA
2-Methylnaphthalene	UG/KG	36400	-	340 U	360 U	18 J	19,000	58 J
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	340 U	360 U	350 U	8,100 U	NA
4-Methylphenol (p-cresol)	UG/KG	900	-	340 U	360 U	350 U	1,800 J	NA
Acenaphthene	UG/KG	50000	-	340 U	360 U	350 U	6,400 J	38 J
Acenaphthylene	UG/KG	41000	-	340 U	360 U	32 J	14,000	310 J

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

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Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-10	SB-10	SB-11-1	SB-11-1	SB-12
Sample ID				SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11	DUP-042606
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0	10.0-12.0
Date Sampled				11/14/05	11/14/05	11/14/05	11/14/05	04/26/06
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Semivolatile Organic Compounds								
Anthracene	UG/KG	50000	-	340 U	360 U	37 J	23,000	120 J
Benzo(a)anthracene	UG/KG	224 or MDL	-	340 U	360 U	160 J	35,000	510
Benzo(a)pyrene	UG/KG	61 or MDL	-	340 U	360 U	180 J	22,000	660
Benzo(b)fluoranthene	UG/KG	1100	-	340 U	360 U	220 J	28,000	940
Benzo(g,h,i)perylene	UG/KG	50000	-	340 U	360 U	130 J	7,800 J	920
Benzo(k)fluoranthene	UG/KG	1100	-	340 U	360 U	63 J	8,800	240 J
Carbazole	UG/KG	50000	-	340 U	360 U	36 J	8,800	NA
Chrysene	UG/KG	400	-	340 U	360 U	180 J	31,000	610
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	340 U	360 U	28 J	2,500 J	210 J
Dibenzofuran	UG/KG	6200	-	340 U	360 U	19 J	18,000	19 J
Fluoranthene	UG/KG	50000	-	340 U	360 U	370	92,000	1,100
Fluorene	UG/KG	50000	-	340 U	360 U	22 J	27,000	340 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	340 U	360 U	120 J	7,900 J	740
Naphthalene	UG/KG	13000	-	340 U	360 U	350 U	28,000	99 J
Phenanthrene	UG/KG	50000	-	340 U	360 U	240 J	110,000	380
Phenol	UG/KG	30 or MDL	-	340 U	360 U	350 U	8,100 U	NA
Pyrene	UG/KG	50000	-	340 U	360 U	320 J	69,000	810
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	ND	ND	2,102	512,400	7,687
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	ND	ND	2,175	564,000	7,764

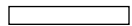
Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit.

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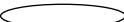
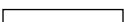
TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-10	SB-10	SB-11-1	SB-11-1	SB-12
Sample ID				SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11	DUP-042606
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0	10.0-12.0
Date Sampled				11/14/05	11/14/05	11/14/05	11/14/05	04/26/06
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Metals								
Aluminum	MG/KG	SB	33000	7,810 J	4,310 J	5,740 J	6,340 J	NA
Arsenic	MG/KG	7.5	3-12	2.9	25.0	8.9	10.9	NA
Barium	MG/KG	300	15-600	32.3 J	23.9 J	328 J	48.2 J	NA
Beryllium	MG/KG	0.16	0-1.75	0.32	0.25	0.44	0.52	NA
Cadmium	MG/KG	1	0.1-1	0.21 U	0.19 U	0.23 U	0.23 U	NA
Calcium	MG/KG	SB	130-35000	59,400 J	120,000 J	18,300 J	75,600 J	NA
Chromium	MG/KG	10	1.5-40	9.7	6.3	10.1	7.5	NA
Cobalt	MG/KG	30	2.5-60	5.6	5.7	9.2	6.0	NA
Copper	MG/KG	25	1-50	18.2	7.4	72.9	26.2	NA
Iron	MG/KG	2000	2000-550000	15,600 J	12,100 J	16,100 J	17,200 J	NA
Lead	MG/KG	SB	500	7.3	10.6	2,110	168	NA
Magnesium	MG/KG	SB	100-5000	4,180	42,400	2,630	5,490	NA
Manganese	MG/KG	SB	50-5000	808 J	334 J	265 J	484 J	NA
Mercury	MG/KG	0.1	0.001-0.2	0.018 U	0.016 U	0.227	0.058	NA
Nickel	MG/KG	13	0.5-25	15.0	13.9	12.0	14.3	NA
Potassium	MG/KG	SB	8500-43000	771	523	750	589	NA
Sodium	MG/KG	SB	6000-8000	150 U	137	497	257	NA
Vanadium	MG/KG	150	1-300	10.5	6.5	18.6	21.0	NA
Zinc	MG/KG	20	9-50	40.9	22.8	121	64.7	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

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TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-10	SB-10	SB-11-1	SB-11-1	SB-12
Sample ID				SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11	DUP-042606
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0	10.0-12.0
Date Sampled				11/14/05	11/14/05	11/14/05	11/14/05	04/26/06
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Miscellaneous Parameters								
Cyanide	MG/KG	-	-	1.0 U	0.94 U	1.0 U	1.2	1.0 UJ
Cyanide, Amenable To Chlorination	MG/KG	-	-	0.92 U	1.0 U	0.99 U	1.1	NA
Total Organic Carbon (TOC)	MG/KG	-	-	NA	NA	NA	NA	NA

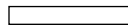
Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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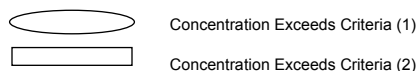
TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-12	SB-12	SB-13	SB-13	SB-14
Sample ID				SB12 10-12	SB12 14-15	SB13 10-12	13 14-15.7	SB14 11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	14.0-15.0	10.0-12.0	14.0-15.7	11.0-12.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
Acetone	UG/KG	200	-	NA	NA	NA	NA	NA
Benzene	UG/KG	60	-	5 U	5 U	5 U	5 U	7,500 U
Carbon disulfide	UG/KG	2700	-	NA	NA	NA	NA	NA
Ethylbenzene	UG/KG	5500	-	5 U	1 J	5 U	5 U	53,000
Isopropylbenzene (Cumene)	UG/KG	2300	-	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	NA	NA	NA	NA	NA
Styrene	UG/KG	-	-	NA	NA	NA	NA	NA
Tetrachloroethene	UG/KG	1400	-	NA	NA	NA	NA	NA
Toluene	UG/KG	1500	-	5 U	3 J	5 U	3 J	14,000
Xylene (total)	UG/KG	1200	-	15 U	3 J	16 U	4 J	640,000
Total BTEX	UG/KG	-	-	ND	7	ND	7	707,000
Total Volatile Organic Compounds	UG/KG	10000	-	ND	7	ND	7	707,000
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/KG	50000	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/KG	36400	-	340 U	22 J	98 J	60 J	19,000
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/KG	900	-	NA	NA	NA	NA	NA
Acenaphthene	UG/KG	50000	-	340 U	350 U	71 J	36 J	4,800 J
Acenaphthylene	UG/KG	41000	-	120 J	350 U	340 U	340 U	18,000

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Only Detected Results Reported.

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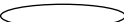
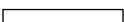
TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-12	SB-12	SB-13	SB-13	SB-14
Sample ID				SB12 10-12	SB12 14-15	SB13 10-12	13 14-15.7	SB14 11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	14.0-15.0	10.0-12.0	14.0-15.7	11.0-12.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Anthracene	UG/KG	50000	-	34 J	350 U	340 U	340 U	29,000
Benzo(a)anthracene	UG/KG	224 or MDL	-	180 J	350 U	340 U	340 U	35,000
Benzo(a)pyrene	UG/KG	61 or MDL	-	240 J	350 U	340 U	340 U	28,000
Benzo(b)fluoranthene	UG/KG	1100	-	350	31 J	340 U	340 U	31,000
Benzo(g,h,i)perylene	UG/KG	50000	-	380	42 J	340 U	340 U	13,000
Benzo(k)fluoranthene	UG/KG	1100	-	120 J	350 U	340 U	340 U	10,000
Carbazole	UG/KG	50000	-	NA	NA	NA	NA	NA
Chrysene	UG/KG	400	-	230 J	350 U	340 U	340 U	27,000
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	80 J	350 U	340 U	340 U	4,900 J
Dibenzofuran	UG/KG	6200	-	340 U	350 U	340 U	20 J	16,000
Fluoranthene	UG/KG	50000	-	400	21 J	340 U	340 U	66,000
Fluorene	UG/KG	50000	-	340 U	350 U	340 U	340 U	23,000
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	290 J	32 J	340 U	340 U	14,000
Naphthalene	UG/KG	13000	-	24 J	350 U	180 J	110 J	24,000
Phenanthrene	UG/KG	50000	-	150 J	350 U	72 J	44 J	66,000
Phenol	UG/KG	30 or MDL	-	NA	NA	NA	NA	NA
Pyrene	UG/KG	50000	-	330 J	350 U	340 U	340 U	46,000
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	2,928	126	323	190	439,700
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	2,928	148	421	270	474,700

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

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Detection Limits shown are PQL

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TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-12	SB-12	SB-13	SB-13	SB-14
Sample ID				SB12 10-12	SB12 14-15	SB13 10-12	13 14-15.7	SB14 11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	14.0-15.0	10.0-12.0	14.0-15.7	11.0-12.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Aluminum	MG/KG	SB	33000	NA	NA	NA	NA	NA
Arsenic	MG/KG	7.5	3-12	NA	NA	NA	NA	NA
Barium	MG/KG	300	15-600	NA	NA	NA	NA	NA
Beryllium	MG/KG	0.16	0-1.75	NA	NA	NA	NA	NA
Cadmium	MG/KG	1	0.1-1	NA	NA	NA	NA	NA
Calcium	MG/KG	SB	130-35000	NA	NA	NA	NA	NA
Chromium	MG/KG	10	1.5-40	NA	NA	NA	NA	NA
Cobalt	MG/KG	30	2.5-60	NA	NA	NA	NA	NA
Copper	MG/KG	25	1-50	NA	NA	NA	NA	NA
Iron	MG/KG	2000	2000-550000	NA	NA	NA	NA	NA
Lead	MG/KG	SB	500	NA	NA	NA	NA	NA
Magnesium	MG/KG	SB	100-5000	NA	NA	NA	NA	NA
Manganese	MG/KG	SB	50-5000	NA	NA	NA	NA	NA
Mercury	MG/KG	0.1	0.001-0.2	NA	NA	NA	NA	NA
Nickel	MG/KG	13	0.5-25	NA	NA	NA	NA	NA
Potassium	MG/KG	SB	8500-43000	NA	NA	NA	NA	NA
Sodium	MG/KG	SB	6000-8000	NA	NA	NA	NA	NA
Vanadium	MG/KG	150	1-300	NA	NA	NA	NA	NA
Zinc	MG/KG	20	9-50	NA	NA	NA	NA	NA

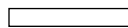
Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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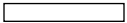
TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-12	SB-12	SB-13	SB-13	SB-14
Sample ID				SB12 10-12	SB12 14-15	SB13 10-12	13 14-15.7	SB14 11-12
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				10.0-12.0	14.0-15.0	10.0-12.0	14.0-15.7	11.0-12.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	Units	Criteria (1)	Criteria (2)					
Miscellaneous Parameters								
Cyanide	MG/KG	-	-	0.98 UJ	1.0 J	1.0 UJ	0.97 UJ	1.2 UJ
Cyanide, Amenable To Chlorination	MG/KG	-	-	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/KG	-	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

U - Not detected above the reported quantitation limit.

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NA - Not Analyzed

Only Detected Results Reported.

Detection Limits shown are PQL


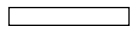
TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-14	SB-15	SB-16	SB-17	SB-17
Sample ID				SB14 14-15	SB15 12-14	SB16 10-12	SB17 9-11	SB17 12-14
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	12.0-14.0	10.0-12.0	9.0-11.0	12.0-14.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
Acetone	UG/KG	200	-	NA	NA	NA	NA	NA
Benzene	UG/KG	60	-	2 J	5 U	34	12	4 J
Carbon disulfide	UG/KG	2700	-	NA	NA	NA	NA	NA
Ethylbenzene	UG/KG	5500	-	2 J	5 U	2 J	7	6 U
Isopropylbenzene (Cumene)	UG/KG	2300	-	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/KG	300	-	NA	NA	NA	NA	NA
Styrene	UG/KG	-	-	NA	NA	NA	NA	NA
Tetrachloroethene	UG/KG	1400	-	NA	NA	NA	NA	NA
Toluene	UG/KG	1500	-	8	3 J	20	11	4 J
Xylene (total)	UG/KG	1200	-	28	16 U	15 J	36	3 J
Total BTEX	UG/KG	-	-	40	3	71	66	11
Total Volatile Organic Compounds	UG/KG	10000	-	40	3	71	66	11
Semivolatile Organic Compounds								
1,1'-Biphenyl	UG/KG	50000	-	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/KG	50000	-	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/KG	36400	-	980 J	250 J	67 J	460 J	460
2-Methylphenol (o-cresol)	UG/KG	100 or MDL	-	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/KG	900	-	NA	NA	NA	NA	NA
Acenaphthene	UG/KG	50000	-	2,000 J	140 J	38 J	210 J	160 J
Acenaphthylene	UG/KG	41000	-	5,800	590	440 U	2,000 U	330 J

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Only Detected Results Reported.

Detection Limits shown are PQL


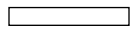
TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-14	SB-15	SB-16	SB-17	SB-17
Sample ID				SB14 14-15	SB15 12-14	SB16 10-12	SB17 9-11	SB17 12-14
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	12.0-14.0	10.0-12.0	9.0-11.0	12.0-14.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Anthracene	UG/KG	50000	-	8,800	1,000	440 U	150 J	990
Benzo(a)anthracene	UG/KG	224 or MDL	-	31,000	2,300	440 U	200 J	1,000
Benzo(a)pyrene	UG/KG	61 or MDL	-	24,000	1,700	440 U	120 J	730
Benzo(b)fluoranthene	UG/KG	1100	-	27,000	2,700	440 U	160 J	1,100
Benzo(g,h,i)perylene	UG/KG	50000	-	12,000	800	440 U	2,000 U	350
Benzo(k)fluoranthene	UG/KG	1100	-	10,000	2,800	440 U	100 J	1,200
Carbazole	UG/KG	50000	-	NA	NA	NA	NA	NA
Chrysene	UG/KG	400	-	22,000	2,200	440 U	150 J	840
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	-	4,400	310 J	440 U	2,000 U	120 J
Dibenzofuran	UG/KG	6200	-	1,400 J	460	440 U	340 J	560
Fluoranthene	UG/KG	50000	-	54,000	5,400	28 J	400 J	2,400
Fluorene	UG/KG	50000	-	3,500 J	780	440 U	430 J	900
Indeno(1,2,3-cd)pyrene	UG/KG	3200	-	12,000	840	440 U	2,000 U	350
Naphthalene	UG/KG	13000	-	2,500 J	260 J	130 J	370 J	460
Phenanthrene	UG/KG	50000	-	18,000	4,400	45 J	860 J	3,500
Phenol	UG/KG	30 or MDL	-	NA	NA	NA	NA	NA
Pyrene	UG/KG	50000	-	40,000	4,000	440 U	310 J	1,800
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	-	277,000	30,220	241	3,460	16,230
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	-	279,380	30,930	308	4,260	17,250

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-14	SB-15	SB-16	SB-17	SB-17
Sample ID				SB14 14-15	SB15 12-14	SB16 10-12	SB17 9-11	SB17 12-14
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	12.0-14.0	10.0-12.0	9.0-11.0	12.0-14.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Aluminum	MG/KG	SB	33000	NA	NA	NA	NA	NA
Arsenic	MG/KG	7.5	3-12	NA	NA	NA	NA	NA
Barium	MG/KG	300	15-600	NA	NA	NA	NA	NA
Beryllium	MG/KG	0.16	0-1.75	NA	NA	NA	NA	NA
Cadmium	MG/KG	1	0.1-1	NA	NA	NA	NA	NA
Calcium	MG/KG	SB	130-35000	NA	NA	NA	NA	NA
Chromium	MG/KG	10	1.5-40	NA	NA	NA	NA	NA
Cobalt	MG/KG	30	2.5-60	NA	NA	NA	NA	NA
Copper	MG/KG	25	1-50	NA	NA	NA	NA	NA
Iron	MG/KG	2000	2000-550000	NA	NA	NA	NA	NA
Lead	MG/KG	SB	500	NA	NA	NA	NA	NA
Magnesium	MG/KG	SB	100-5000	NA	NA	NA	NA	NA
Manganese	MG/KG	SB	50-5000	NA	NA	NA	NA	NA
Mercury	MG/KG	0.1	0.001-0.2	NA	NA	NA	NA	NA
Nickel	MG/KG	13	0.5-25	NA	NA	NA	NA	NA
Potassium	MG/KG	SB	8500-43000	NA	NA	NA	NA	NA
Sodium	MG/KG	SB	6000-8000	NA	NA	NA	NA	NA
Vanadium	MG/KG	150	1-300	NA	NA	NA	NA	NA
Zinc	MG/KG	20	9-50	NA	NA	NA	NA	NA

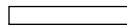
Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

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Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

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Detection Limits shown are PQL

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[MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SB-


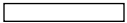
TABLE 3
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID				SB-14	SB-15	SB-16	SB-17	SB-17
Sample ID				SB14 14-15	SB15 12-14	SB16 10-12	SB17 9-11	SB17 12-14
Matrix				Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)				14.0-15.0	12.0-14.0	10.0-12.0	9.0-11.0	12.0-14.0
Date Sampled				04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	Units	Criteria (1)	Criteria (2)					
Miscellaneous Parameters								
Cyanide	MG/KG	-	-	0.98 UJ	1.0 UJ	1.2 UJ	4.0 J	0.97 UJ
Cyanide, Amenable To Chlorination	MG/KG	-	-	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/KG	-	-	NA	NA	NA	NA	NA

Criteria (1)- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Criteria (2)- Eastern USA Background Concentrations from NYSDEC TAGM: HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria (1)
 Concentration Exceeds Criteria (2)

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Only Detected Results Reported.

Detection Limits shown are PQL

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[MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SB-

TABLE 4
SUMMARY OF DETECTED GROUNDWATER ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID			PZ-01	PZ-02	PZ-02	PZ-03	PZ-04
Sample ID			PZ-01	DUP-11-16-05	PZ-02	PZ-03	PZ-04
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/16/05	11/16/05	11/16/05	11/16/05	11/16/05
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Metals							
Aluminum	UG/L	-	20.9 B	200 U	200 U	1,600	434
Barium	UG/L	1000	49.6	50.0	50.7	61.6	53.0
Calcium	UG/L	-	83,400	86,800	87,500	87,200	87,400
Chromium	UG/L	50	0.92 B	4.0 U	4.0 U	2.8 B	1.1 B
Cobalt	UG/L	-	4.0 U	4.0 U	4.0 U	0.59 B	4.0 U
Copper	UG/L	200	0.78 B	1.7 B	1.6 B	2.7 B	1.7 B
Iron	UG/L	300	30.8 B	50.0 U	50.0 U	1,200	324
Lead	UG/L	25	5.0 U	5.0 U	5.0 U	2.0 B	5.0 U
Magnesium	UG/L	35000	15,700	16,000	16,100	16,700	16,500
Manganese	UG/L	300	2.3 B	0.95 B	1.3 B	22.6	8.0
Nickel	UG/L	100	10.0 U	10.0 U	10.0 U	1.6 B	10.0 U
Potassium	UG/L	-	1,550	1,840	1,880	2,240	1,900
Sodium	UG/L	20000	56,500	67,900	68,500	61,500	64,600
Vanadium	UG/L	-	5.0 U	5.0 U	5.0 U	2.9 B	0.56 B
Zinc	UG/L	2000	1.3 B	1.1 B	1.3 B	6.3 B	2.1 B

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. April 2000, Class GA.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

U - Not detected above the reported quantitation limit.

NA - Not Analyzed

Only Detected Results Reported.

Detection Limits shown are PQL

TABLE 5
SCRAPE SAMPLE ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID		SCRAPE-01	SCRAPE-02	SCRAPE-03
Sample ID		SCRAPE 1	SCRAPE 2	SCRAPE 3
Matrix		Soil	Soil	Soil
Depth Interval (ft)		-	-	-
Date Sampled		06/12/06	06/12/06	06/12/06
Parameter	Units			
Volatile Organic Compounds				
Benzene	UG/KG	120	44	1 J
Ethylbenzene	UG/KG	38	22	5 U
Toluene	UG/KG	97	58 U	5 U
Xylene (total)	UG/KG	170	120	15 U
Total BTEX	UG/KG	425	186	1
Semivolatile Organic Compounds				
2-Methylnaphthalene	UG/KG	25,000 J	6,400 J	330 U
Acenaphthene	UG/KG	4,800 J	68,000 U	330 U
Acenaphthylene	UG/KG	150,000	42,000 J	330 U
Anthracene	UG/KG	310,000	130,000	19 J
Benzo(a)anthracene	UG/KG	670,000	240,000	47 J
Benzo(a)pyrene	UG/KG	410,000	140,000	32 J
Benzo(b)fluoranthene	UG/KG	610,000	190,000	47 J
Benzo(g,h,i)perylene	UG/KG	140,000	54,000 J	20 J
Benzo(k)fluoranthene	UG/KG	200,000	65,000 J	330 U
Chrysene	UG/KG	650,000	220,000	44 J
Dibenzo(a,h)anthracene	UG/KG	69,000	22,000 J	330 U
Dibenzofuran	UG/KG	41,000 J	11,000 J	330 U
Fluoranthene	UG/KG	1,600,000 D	490,000	120 J
Fluorene	UG/KG	46,000 J	14,000 J	330 U
Indeno(1,2,3-cd)pyrene	UG/KG	160,000	60,000 J	17 J
Naphthalene	UG/KG	42,000 J	9,700 J	46 J
Phenanthrene	UG/KG	990,000	370,000	110 J

Flags assigned during chemistry validation are shown.

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D - Result reported from a secondary dilution analysis.

Detection Limits shown are PQL

TABLE 5
SCRAPE SAMPLE ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID		SCRAPE-01	SCRAPE-02	SCRAPE-03
Sample ID		SCRAPE 1	SCRAPE 2	SCRAPE 3
Matrix		Soil	Soil	Soil
Depth Interval (ft)		-	-	-
Date Sampled		06/12/06	06/12/06	06/12/06
Parameter	Units			
Semivolatile Organic Compounds				
Pyrene	UG/KG	1,000,000	360,000	70 J
Total Polycyclic Aromatic Hydrocarbons	UG/KG	7,051,800	2,406,700	572
Total Semivolatile Organic Compounds	UG/KG	7,117,800	2,424,100	572

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

TABLE 6
SURFACE SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID			SS-01	SS-02	SS-02	SS-03	SS-04
Sample ID			SS-01	SS-02	SS-FD-042606	SS-03	SS-04
Matrix			Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)			-	-	-	-	-
Date Sampled			04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	Units	Criteria*			Field Duplicate (1-1)		
Semivolatile Organic Compounds							
2-Methylnaphthalene	UG/KG	36400	4,300 U	4,500 U	9,000 U	4,600 U	4,200 U
Acenaphthene	UG/KG	50000	900 J	4,500 U	9,000 U	4,600 U	370 J
Acenaphthylene	UG/KG	41000	4,300 U	4,500 U	9,000 U	4,600 U	4,200 U
Anthracene	UG/KG	50000	2,400 J	660 J	1,300 J	290 J	1,200 J
Benzo(a)anthracene	UG/KG	224 or MDL	7,400	3,000 J	5,200 J	1,900 J	3,600 J
Benzo(a)pyrene	UG/KG	61 or MDL	6,600	2,900 J	4,600 J	1,800 J	3,200 J
Benzo(b)fluoranthene	UG/KG	1100	8,800	4,200 J	6,600 J	2,100 J	4,000 J
Benzo(g,h,i)perylene	UG/KG	50000	4,000 J	1,300 J	2,200 J	780 J	1,400 J
Benzo(k)fluoranthene	UG/KG	1100	2,300 J	1,000 J	1,500 J	860 J	1,600 J
Chrysene	UG/KG	400	7,300	3,100 J	5,200 J	1,800 J	3,600 J
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	1,200 J	430 J	740 J	270 J	450 J
Dibenzofuran	UG/KG	6200	4,300 U	4,500 U	9,000 U	4,600 U	4,200 U
Fluoranthene	UG/KG	50000	16,000	6,800	11,000	3,200 J	8,900
Fluorene	UG/KG	50000	4,300 U	4,500 U	9,000 U	4,600 U	4,200 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	3,700 J	1,300 J	2,100 J	780 J	1,400 J
Naphthalene	UG/KG	13000	4,300 U	4,500 U	9,000 U	4,600 U	4,200 U
Phenanthrene	UG/KG	50000	11,000	2,800 J	5,400 J	4,600 U	5,600
Pyrene	UG/KG	50000	12,000	4,900	7,800 J	2,500 J	6,100
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	83,600	32,390	53,640	16,280	41,420
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	83,600	32,390	53,640	16,280	41,420
Miscellaneous Parameters							
Cyanide	MG/KG	-	1.1 UJ	0.17 UJ	1.8 J	1.3 UJ	1.2 UJ

*Criteria- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

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 Concentration Exceeds Criteria

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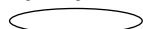
Detection Limits shown are PQL

TABLE 6
SURFACE SOIL ANALYTICAL RESULTS
NYSEG - CORTLAND

Location ID			SS-05	SS-06
Sample ID			SS-05	SS-06
Matrix			Soil	Soil
Depth Interval (ft)			-	-
Date Sampled			04/26/06	04/26/06
Parameter	Units	Criteria*		
Semivolatile Organic Compounds				
2-Methylnaphthalene	UG/KG	36400	440 U	4,400 U
Acenaphthene	UG/KG	50000	24 J	290 J
Acenaphthylene	UG/KG	41000	440 U	4,400 U
Anthracene	UG/KG	50000	64 J	880 J
Benzo(a)anthracene	UG/KG	224 or MDL	290 J	3,100 J
Benzo(a)pyrene	UG/KG	61 or MDL	280 J	2,800 J
Benzo(b)fluoranthene	UG/KG	1100	400 J	4,000 J
Benzo(g,h,i)perylene	UG/KG	50000	130 J	1,400 J
Benzo(k)fluoranthene	UG/KG	1100	110 J	1,100 J
Chrysene	UG/KG	400	300 J	3,000 J
Dibenzo(a,h)anthracene	UG/KG	14 or MDL	42 J	420 J
Dibenzofuran	UG/KG	6200	440 U	4,400 U
Fluoranthene	UG/KG	50000	620	6,900
Fluorene	UG/KG	50000	440 U	4,400 U
Indeno(1,2,3-cd)pyrene	UG/KG	3200	130 J	1,300 J
Naphthalene	UG/KG	13000	440 U	4,400 U
Phenanthrene	UG/KG	50000	320 J	4,300 J
Pyrene	UG/KG	50000	490	5,200
Total Polycyclic Aromatic Hydrocarbons	UG/KG	-	3,200	34,690
Total Semivolatile Organic Compounds	UG/KG	5.00E+05	3,200	34,690
Miscellaneous Parameters				
Cyanide	MG/KG	-	1.2 UJ	1.3 UJ

*Criteria- NYSDEC TAGM: Determination of Soil Cleanup Objectives and Cleanup Levels; HWR-94-4046 January 24, 1994 (Revised).

Flags assigned during chemistry validation are shown.



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Detection Limits shown are PQL

APPENDIX A
SITE PHOTOGRAPHS



Photo #1: Looking southeast, 45 Charles Street on left, 43 Charles Street on right.



Photo #2: Looking east between 43 and 45 Charles Street.



Photo #3: Backyard at 45 Charles Street, looking north.



Photo #4: Backyard at 43 Charles Street, looking south-southeast.



Photo #5: GPR survey in front of 43 Charles Street.



Photo #6: Close-up of GPR apparatus.



Photo #7: Test trench TP-01 excavated to approximately 7.5 feet below ground surface, looking southeast. Thin ash layer visible at approximately 1.5 feet below ground surface.



Photo #8: Test trench TP-02 excavated to approximately 7.0 feet below ground surface, looking north. Soils appear darker at north end of trench due to perched water percolating into trench.



Photo #9: Test trench TP-03 excavated to approximately 10.5 feet below ground surface, looking west. Note ash layer at approximately 6.0 feet below ground surface. Perched water encountered at 10.5 feet below ground surface.



Photo #10: Cobbles encased in glassy looking tar observed in TP-03.



Photo #11: Skid steer mounted geoprobe unit advancing SB-07/PZ-02, looking east-southeast.



Photo #12: Surface completion at PZ-02.



Photo #13: Stone #1 prior to sampling.



Photo #14: Stone #2 prior to sampling. Note crackly appearance.



Photo #15: Stone #3 with mold or mildew appearance.



Photo #16: Stone #4 with black crackly appearance prior to sampling.



Photo #17: Stone #5, located beneath Stone #4.



Photo #18: Background drill holes for collection of Scrape #3 sample, collected from the north wall.



Photo #19: Background (Scrape #3) locations on south basement wall. Note crawl space access in upper right corner of photograph.



Photo #20: Stone #1 after sampling. Located approximately 5 feet from the wooden partition wall.

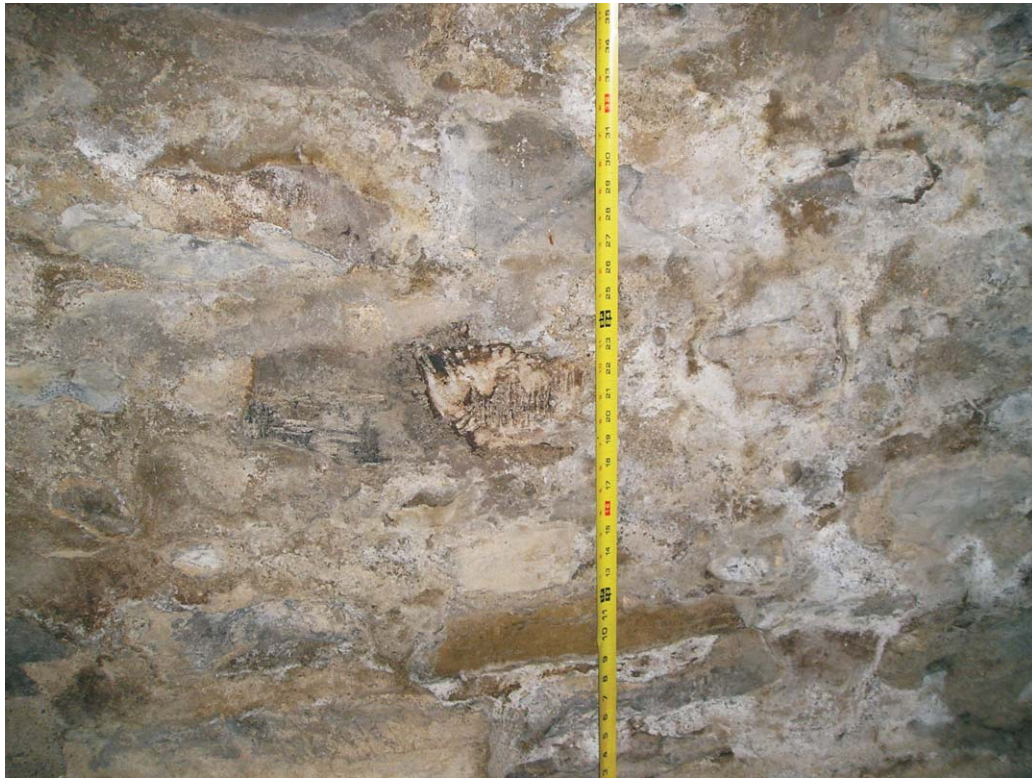


Photo #21: Stone #1 after sampling located approximately 2 feet above the basement floor.



Photo #22: Stone #2 after sampling located approximately 3.5 feet above basement floor. Stone #3 is to the right of the measuring tape.



Photo #23: Stone #2 and #3.



Photo #24: Stone #4 and #5 after sampling.

APPENDIX B

GEOPHYSICAL APPLICATIONS REPORT

GEOPHYSICAL APPLICATIONS

INCORPORATED

**Geophysical Survey Report
43 and 45 Charles Street
Cortland, New York**

**Prepared for
URS CORPORATION
November 2005**

GEOPHYSICAL APPLICATIONS

INCORPORATED

November 22, 2005

Mr. Michael Gutmann
URS CORPORATION
77 Goodell Street
Buffalo, NY 14203

Subject: Geophysical Survey Report
43 and 45 Charles Street
Cortland, New York

Dear Mr. Gutmann:

Geophysical Applications, Inc. performed a survey at the above-noted site to help URS identify physical remnants of the former gasholder and associated piping at 43 and 45 Charles Street. The survey area was approximately 80 by 105 feet. Fieldwork was performed November 7 and 8, 2005.

The geophysical survey method included ground penetrating radar (GPR) profiling, as described below.

METHODS OF INVESTIGATION

Survey Control

We established a reference grid throughout the survey area before geophysical data acquisition. The grid was denoted by spray paint and chalk marks, and referenced by taped distance measurements to homes and other semi-permanent features.

Ground Penetrating Radar

GPR profiling is based on the principle that materials with contrasting electrical properties reflect radar signals back to the ground surface. Metal objects such as pipes and steel reinforcement in concrete generally produce high-amplitude GPR reflections. Plotting observed reflections on a base map typically enables an interpreter to identify a large object's lateral extent, or a pipe's trend.

GPR data were recorded using a GSSI model SIR-2000 radar instrument, with a 400 megahertz (MHz) antenna. Radar profiles were recorded continuously along traverses located 2.5 feet apart. These profiles were displayed on a color monitor for immediate inspection and preliminary interpretation. GPR data were also downloaded to a computer and archived to a CD-ROM for backup and storage.

The horizontal scale on each GPR record was determined by the antenna speed, and survey stations were noted by pressing a marker button as the antenna passed each grid node. The vertical scale of radar cross sections recorded during this survey was 60 nanoseconds. This time interval was selected to enhance deeper reflectors (up to ten feet below ground surface) while maintaining resolution of smaller near-surface buried objects.

SURVEY LIMITATIONS

GPR signal penetration is site specific. It is determined by dielectric properties of local soil or fill materials. Maximum GPR signal penetration throughout most of this site was approximately 6 feet below ground surface. Objects deeper than the GPR signal's maximum penetration depth remain undetected.

GPR interpretations are subjective, based on identifying reflection patterns that may not uniquely represent a subsurface object. Profiling along perpendicular traverses helps to determine the size and shape of buried objects. GPR interpretation is more subjective than most geophysical methods, and anomaly confirmation via test pits, borings, or other direct means is strongly recommended.

Varying a GPR antenna's speed along a survey traverse can cause slight errors in horizontal distance interpolations and inferred object positions. Distance interpolation errors were minimized during this survey by using 5-foot distance marks.

GPR is most likely to detect concrete or metallic objects. Plastic or vitreous clay pipes, or fiberglass tanks, are not likely to be detected with GPR.

RESULTS

GPR survey coverage and interpretations are shown on Figure 1. Continuous flat GPR reflectors ranging from one to three feet deep exist between both homes, see Figure 1. The edge on the west side appears to have approximately a one-foot high buried wall and to the east of this buried wall are flat reflectors ranging in depth from one to three feet.

Yellow, green, and blue lines on Figure 1 represent pipes or cables that were marked by others. Where GPR detected these utilities, their depths are shown on Figure 1.

A few GPR point targets (reflections from small buried objects) were detected throughout the survey area. Because these reflections were only visible on one or two traverses, they are inferred to represent small discrete objects rather than laterally-extensive pipes, cables, or concrete pads.

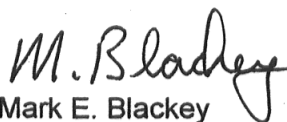
Please call the undersigned at 508/429-2430 if you have questions regarding our report. We appreciate this opportunity to provide geophysical services to URS Corporation, and we welcome inquiries regarding this survey or future projects.

Sincerely,

GEOPHYSICAL APPLICATIONS, INC.

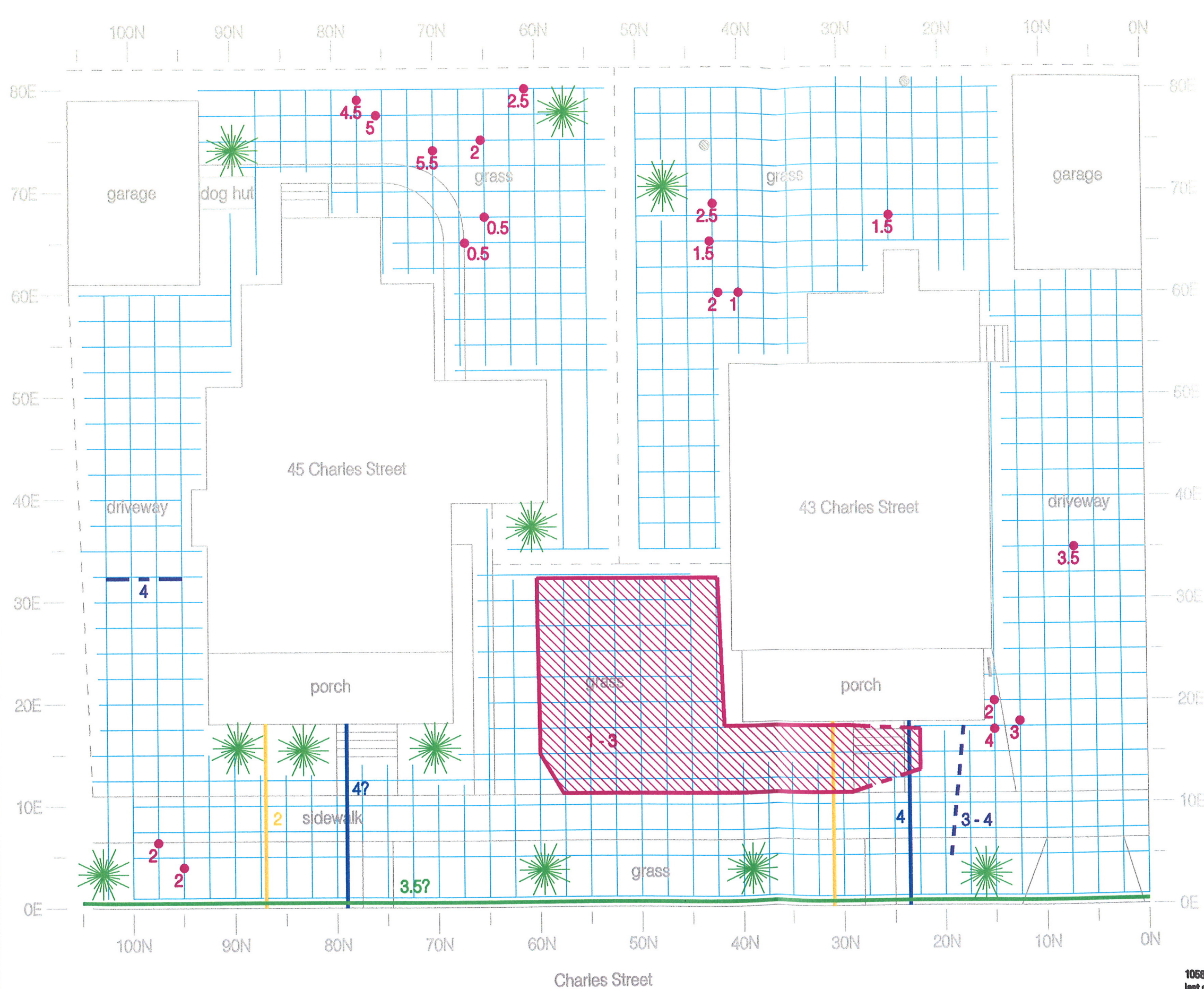


Peter Giger
Geophysicist



Mark E. Blackey
Principal and Geophysicist

105834



EXPLANATION

- GPR traverse
- ▨ 2 GPR-inferred tank pad (depth in feet)
- 2 GPR reflection less than two feet wide (depth in feet)
- 2 GPR-inferred pipe trend (depth in feet)
- 2 Water line marked by others (depth in feet)
- 2 Gas line marked by others (depth in feet)
- 2 Sewer marked by others (depth in feet)
- Metal pole
- ✱ Plant
- Fence
- | Roof drain

GEOPHYSICAL
APPLICATIONS
 INCORPORATED

Figure 1
 GPR Traverse Locations and Interpretations
 43 and 45 Charles Street
 Cortland, New York
 prepared for
 URS CORPORATION

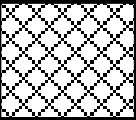
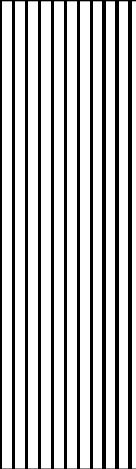

105834 - 105834.dwg
 last modified 11/21/05

APPENDIX C
TEST TRENCH LOGS



77 Goodell Street
Buffalo, New York 14203
(716) 856-5636

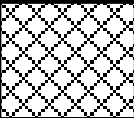

TEST TRENCH LOG

PROJECT: Former Cortland Gasholder Location		Sheet 1 of 1
CLIENT: NYSEG		JOB NUMBER: 11174428.00000
CONTRACTOR: Nature's Way EC & C, Inc.		LOCATION: Cortland, New York
DATE STARTED: 11/9/2005		GROUND ELEVATION: 1118.86 feet AMSL
DATE COMPLETED: 11/9/2005		OPERATOR: Rich Brown
TRENCH NUMBER: TP-01		GEOLOGIST: Rob Murphy
DEPTH (FT)	SAMPLE	DESCRIPTION
1		Fill: (0.0 to 1.5') Dark Brown to brown Clayey Silt, some coarse gravel and cobbles. Thin ash layer at 1.5' with trace coal. One piece of fire brick, one small piece of cast iron pipe.
2		Clayey Silt:(1.5 to 7.5) (MH) brown, moist, with coarse gravel and cobbles.
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
		
COMMENTS: Collected soil samples TP-01-2.5', TP-01-5.0', and TP-01-7.5' from north end of pit. Samples submitted to STL Laboratory for VOCs, SVOCs, TAL metals, Phenols, and Cyanide analyses.		



77 Goodell Street
Buffalo, New York 14203
(716) 856-5636

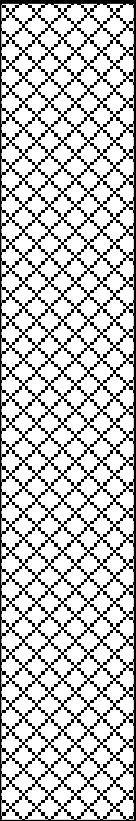

TEST TRENCH LOG

PROJECT: Former Cortland Gasholder Location		Sheet 1 of 1
CLIENT: NYSEG		JOB NUMBER: 11174428.00000
CONTRACTOR: Nature's Way EC & C, Inc.		LOCATION: Cortland, New York
DATE STARTED: 11/9/2005		GROUND ELEVATION: 1119.20 feet AMSL
DATE COMPLETED: 11/9/2005		OPERATOR: Rich Brown
TRENCH NUMBER: TP-02		GEOLOGIST: Rob Murphy
DEPTH (FT)	SAMPLE	DESCRIPTION
1		Fill: (0.0 to 1.5') Dark Brown to gray Clayey Silt with fine to coarse gravel (rounded) and cobbles. One piece of scrap metal and trace red brick near surface.
2		Clayey Silt:(1.5 to 7.0) (MH) brown, moist, with coarse gravel and cobbles. Increasing clay content with depth. Cobbles numerous at depth is this pit. Minor amounts of perched water percolated into pit from north end during excavation, could be related to downspout discharge to unseen drain tile system.
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
COMMENTS: Collected soil samples TP-02-2.5' from north end of pit, and TP-02-5.5' and TP-02-7.0' from south end of pit. Samples submitted to STL Laboratory for VOCs, SVOCs, TAL metals, Phenols, and Cyanide analyses.		



77 Goodell Street
Buffalo, New York 14203
(716) 856-5636

TEST TRENCH LOG

PROJECT: Former Cortland Gasholder Location		Sheet 1 of 1
CLIENT: NYSEG		JOB NUMBER: 11174428.00000
CONTRACTOR: Nature's Way EC & C, Inc.		LOCATION: Cortland, New York
DATE STARTED: 11/9/2005		GROUND ELEVATION: 1118.66 feet AMSL
DATE COMPLETED: 11/9/2005		OPERATOR: Rich Brown
TRENCH NUMBER: TP-03		GEOLOGIST: Rob Murphy
DEPTH (FT)	SAMPLE	DESCRIPTION
1		<p>Fill: (0.0 to 10.5')</p> <p>Brown to Gray Brown Clayey Silt with Fine to Coarse Gravel and Cobbles. Mortar material and Ash zone at approximately 1.5'. Brown Clayey Silt with Cobbles at 1.5' to 6.0'. Below 6.0', Debris: glass, bottles, bricks, fire brick, ash, one piece of metal pipe, one piece of ceramic coated metal. Slight odor on two pieces of brick. One piece of 4-5 cobbles encased in weathered glassy appearing tar, no odor.</p> 
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		<p>Perched water encountered at 10.5'. Excavator limit reached.</p>
12		
COMMENTS: Collected soil samples TP-03-2.5', TP-03-5.5', and TP-03-10.5' from the west end of the pit. Samples submitted to STL Laboratory for VOCs, SVOCs, TAL metals, Phenols, and Cyanide analyses.		

APPENDIX D
BORING LOGS

BORING NO. : SB-01

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 OF 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949265.96 EASTING: 928981.76

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 1119.29

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 11/10/05

DIA.

2"

DATE FINISHED: 11/10/05

WT.

DRILLER: Mike Saeli

LENGTH

4'

GEOLOGIST: R. Murphy

* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH
FEET

STRATA

SAMPLE
NO.

BLOW
COUNT

REC%
RQD%

COLOR

SOIL
CONSISTENCY
ROCK
HARDNESS

MATERIAL
DESCRIPTION

USCS

PID

REMARKS

0		1	NA	60	D. Brn Brown		Silty organic Topsoil.	OL MH	ND	moist
		2	NA	50			Clayey Silt, some fine to coarse gravel and cobbles, trace organics (roots). Trace to some coarse sand (4-8'). Occasional Fine to medium sand zones and cobbles (8-12')		ND	very moist
-5		3	NA	50					ND	
-10		4	NA	60	Gray Brown		Silty Fine Sand and Fine to Coarse Gravel (rounded) and cobbles, some clay.	SP	ND	very moist
-15		5	NA	75	Light Brown		Silty Gravel with Medium to Coarse Sand and Cobbles	GM	ND	wet
-20		6	NA	80			Medium to Coarse Sand and Gravel.	SW	ND	
-25							End of Boring at 23' due to gravel collapse into borehole.			

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Collected Sample SB-01-10-12' for analysis of VOCs, SVOCs, phenols, cyanide, and metals.

No odors, staining or sheens observed. Terminated hole due collapse of materials.

ND = Non-detect above background levels

BORING NO. : SB-01

BORING NO. : SB-02

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 OF 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949239.27

EASTING: 929012.44

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 1118.59

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 11/10/05

DIA.

2"

DATE FINISHED: 11/10/05

WT.

DRILLER: Mike Saali

LENGTH

4'

GEOLOGIST: R. Murphy

* POCKET PENETROMETER READING

REVIEWED BY:

Tim Bunnin

DEPTH
FEET

STRATA

SAMPLE
NO.

BLOW
COUNT

REC%
RQD%

COLOR

SOIL
CONSISTENCY

ROCK
HARDNESS

MATERIAL
DESCRIPTION

USCS

PID

REMARKS

0		1	NA	60	Brown		Silty Organic Topsoil, trace coal fragments.	OL	ND	moist
							Clayey Silt, some fine to coarse gravel and cobble.	MH		
-5		2	NA	50			Silt, trace clay and fine to coarse gravel and cobble.		ND	dry
		3	NA	50			Silt to Clayey Silt, fine to coarse gravel and cobbles, trace organics. 10-11':Silty Fine Sand Zone, no gravel.		ND	
-10		4	NA	17			Significant Fall in from above fills up liner.		ND	
-15							End of boring due to sampler refusal and cave in.			
-20										
-25										

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

No samples were collected.

No odors, staining or sheens observed. Terminated hole due collapse of materials.

ND = Non-detect above background levels

BORING NO. : SB-02

BORING NO. : SB-03

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 OF 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949240.51

EASTING: 929000.69

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 1118.86

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 11/10/05

DIA.

2"

DATE FINISHED: 11/10/05

WT.

DRILLER: Mike Sacli

LENGTH

4'

GEOLOGIST: R. Murphy

* POCKET PENETROMETER READING

REVIEWED BY:

Tim Bunn

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD%		CONSISTENCY ROCK HARDNESS				
0		1	NA	75	D. Brn Brown		Silty organic topsoil. Clayey Silt with fine to coarse gravel and cobbles. Silty Fine Sand zone at 9.0-9.5'.	OL MH	ND	moist
-5		2	NA	50					ND	moist to dry
-10		3	NA	75					ND	
-15		4	NA	75	Gray Brown		Silty Medium Sand, Gravel, and Cobbles.	GM	ND	
-20		5	NA	75			Silty Gravel and Medium to Coarse Sand.		ND	wet
-25							End of Boring at 20' due to hole collapse.			

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Collect Sample SB-03-15-17' for analysis of VOCs, SVOCs, Phenols, Cyanide, and Metals.

End boring at 20' due to hole collapse.

ND = Non-detect above background levels

BORING NO. : SB-03

BORING NO. : SB-04

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 OF 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949262.45

EASTING: 929011.79

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 1118.76

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 11/10/05

DIA.

2"

DATE FINISHED: 11/10/05

WT.

DRILLER: Mike Saeli

LENGTH

4'

GEOLOGIST: R. Murphy

* POCKET PENETROMETER READING

REVIEWED BY:

Tim Bunn

DEPTH
FEET

STRATA

SAMPLE
NO.

BLOW
COUNT

REC%
RQD%

COLOR





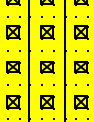



SOIL
CONSISTENCY
ROCK
HARDNESS

MATERIAL
DESCRIPTION

USCS

PID

REMARKS

0		1	NA	50	Dark Brown		Silty organic topsoil.	OL	ND	Moist
					Brown		Clayey Silt with fine to coarse gravel and cobbles, some coarse sand.	MH		
-5		2	NA	50			Silty medium to coarse sand and gravel, trace fine sand.	SW-SM	ND	Dry
										
-10		3	NA	75	Light Brown		Silty Fine to Coarse Gravel, some medium to coarse sand.	GM	ND	
										
		4	NA	70	Gray				ND	
										
-15							End of boring due to material cave-in.			
-20										
-25										

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Collected Sample SB-04-12-13.5' and Field Duplicate (DUP-01) for analysis of VOCs, SVOCs, Phenols, Cyanide, and Metals.

End boring at 13.5' due to hole collapse.

ND = Non-detect above background levels

BORING NO. : SB-04

BORING NO. : SB-05

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 OF 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949278.47

EASTING: 928961.18

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 1118.57

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 11/10/05

DIA.

2"

DATE FINISHED: 11/10/05

WT.

DRILLER: Mike Saeli

LENGTH

4'

GEOLOGIST: R. Murphy

* POCKET PENETROMETER READING

REVIEWED BY:

Tim Bunn

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				
0		1	NA	50	D. Brn Brown		Silty Organic Topsoil Clayey Silt, some fine to coarse gravel	FILL	ND	moist
-5		2	NA	50	Gray		Ash and Gravel, some cobbles, rock and mortar.		ND	dry
-10		3	NA	75			Ash and Coal fragments, perched wet zone at 9.5-10.0'.		ND	
		4	NA	75	Green Brown		Clayey Silt and Ash, some fine gravel. Slight possible naphthalene odor at 11' associated with a thin band (~1") of dark staining Ash, Cinder, and Fine Gravel.		ND	perched wet zone at 9.5'-10.0', then moist
-15					Gray Brown		Clayey Silt and Gravel (rounded).	MH		
		5	NA	50			Silty Fine to Coarse Gravel, trace coarse sand.	GM	ND	wet
-20							End of Boring at 20' due to hole collapse.			
-25										

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-05-11-12' and SB-05-15-16' for analysis of VOCs, SVOCs, Phenols, Cyanide, and Metals.

11-12' Sample was of stained material and material just beneath it. Ended boring at 20' due to hole collapse.

ND = Non-detect above background levels

BORING NO. : SB-05

BORING NO. : SB-06

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 OF 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949239.66

EASTING: 929013.36

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 1118.56

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 11/11/05

DIA.

2"

DATE FINISHED: 11/11/05

WT.

DRILLER: Mike Saeli

LENGTH

4'

GEOLOGIST: R. Murphy

* POCKET PENETROMETER READING

REVIEWED BY:

Tim Bunn

DEPTH
FEET

STRATA

SAMPLE
NO.

BLOW
COUNT

REC%
RQD%

COLOR

SOIL
CONSISTENCY
ROCK
HARDNESS

0

1

NA

75

Dark Brown

Organic Silt, some clay.

OL

ND

moist

-5

2

NA

30

-10

3

NA

75

-15

4

NA

50

Brown Gray

-20

5

NA

50

Gray Brown

-25

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-06-14-16' and SB-06-16-18' for analysis of VOCs, SVOCs, Phenols, Cyanide, and Metals.

This boring was next to SB-02, in order to collect samples from this area. PZ-01 was installed in the borehole.

ND = Non-detect above background levels

BORING NO. : SB-06

BORING NO. : SB-07

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 OF 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949305.17

EASTING: 929008.71

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 1119.11

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 11/11/05

DIA.

2"

DATE FINISHED: 11/11/05

WT.

DRILLER: Mike Saeli

LENGTH

4'

GEOLOGIST: R. Murphy

* POCKET PENETROMETER READING

REVIEWED BY:

Tim Bunn

DEPTH
FEET

STRATA

SAMPLE
NO.

BLOW
COUNT

REC%
RQD%

COLOR

SOIL
CONSISTENCY
ROCK
HARDNESS

0

-5

-10

-15

-20

-25

1

NA

40

D. Brn
Brown

Silty Organic Topsoil

Clayey Silt and Fine to Coarse Angular Gravel, with occasional cobbles.

OL
MH

ND

moist

2

NA

40

3

NA

60

Gray
Brown

ND

dry with
occasional
moist zones

4

NA

60

ND

5

NA

60

Silty Fine to Coarse Gravel and Coarse Sand.

Silty Medium to Coarse Sand and Gravel.
0.1' thick fine sand layer at 19.0'.

GM

ND

wet

6

NA

60

Silty Fine to Coarse Gravel (rounded),
some coarse sand. Coarsening
downward.

ND

End of Boring at 24'.

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-07-15-16' and SB-07-22-24' for analysis of VOCs, SVOCs, Phenols, Cyanide, and Metals.

Also collect Sample SB-07-13-15' for analysis of NOD and TOC. Installed PZ-02 in borehole.

ND = Non-detect above background levels

BORING NO. : SB-07

BORING NO. : SB-08

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 OF 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949265.49 EASTING: 928947.38

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 1118.77

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 11/14/05

DIA.

2"

DATE FINISHED: 11/14/05

WT.

DRILLER: Eric Laurienzo

LENGTH

4'

GEOLOGIST: R. Murphy

* POCKET PENETROMETER READING

REVIEWED BY:

Tim Bunn

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				
0		1	NA	60	Brown		Clayey Silt with Fine to Coarse Gravel and Cobbles, trace coal fragments.	FILL	ND	dry to moist
-5		2	NA	50					ND	
					Gray		Ash and Fine Gravel, one piece coarse gravel size, lightweight shiny/ glassy-looking cinder, no odor			
		3	NA	50			Ash		ND	
-10					Brown		Clayey Silt, Ash, and Fine Gravel.			
					Gray Brown		Clayey Silt and Fine to Coarse rounded Gravel, darker stained material with slight musty decay odor from 10-10.2'	MH		
		4	NA	50			Clayey Silt and Fine Rounded Gravel.		ND	very moist
-15							Very Silty Fine to Coarse Gravel (rounded), trace coarse sand.	GM		wet
		5	NA	50			Fine to Coarse Sand and Gravel. One piece of decayed wood, caved in from above.	SW	ND	
-20							End of Boring at 20'.			
-25										

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-08-10-12' and SB-08-18-20' for analysis of VOCs, SVOCs, Phenols, Cyanide, and Metals.

Installed PZ-03 in borehole. Sample from 10-12' contained slightly stained soils.

ND = Non-detect above background levels

BORING NO. : SB-08

BORING NO. : SB-09

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 OF 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949279.89

EASTING: 929004.64

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 1119.10

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 11/14/05

DIA.

2"

DATE FINISHED: 11/14/05

WT.

DRILLER: Eric Laurienzo

LENGTH

4'

GEOLOGIST: R. Murphy

* POCKET PENETROMETER READING

REVIEWED BY:

Tim Bunn

DEPTH
FEET

STRATA

SAMPLE
NO.

BLOW
COUNT

REC%
RQD%

COLOR

SOIL
CONSISTENCY
ROCK
HARDNESS

MATERIAL
DESCRIPTION

USCS

PID

REMARKS

0		1	NA	30	Dark Brown Brown		Silty Organic Topsoil	FILL	ND	moist damp
							Clayey Silt and Fine to Coarse Gravel, trace brick			
-5		2	NA	30	Light Brown		Clayey Silt with Fine to Coarse Gravel and Cobbles.		ND	
-10		3	NA	50			Clayey Silt and Gravel, trace to some coarse sand.		ND	
-15		4	NA	75	Gray Brown		Clayey Silt and Fine to Coarse Gravel, trace coal fragments.		ND	moist to dry
-20		5	NA	50			Silty Coarse Sand to Coarse Gravel.	GM	ND	wet at 16'.
-25							End of Boring at 20'.			

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-09-14-16' and SB-09-18-20' for analysis of VOCs, SVOCs, Phenols, Cyanide, and Metals.

Installed PZ-04 in borehole. No odors or staining noted.

ND = Non-detect above background levels

BORING NO. : SB-09

BORING NO. : SB-10

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 OF 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949275.91 EASTING: 928983.61

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 1119.51

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 11/14/05

DIA.

2"

DATE FINISHED: 11/14/05

WT.

DRILLER: Eric Laurienzo

LENGTH

4'

GEOLOGIST: R. Murphy

* POCKET PENETROMETER READING

REVIEWED BY:

Tim Bunn

DEPTH FEET	STRATA	SAMPLE		REC%	COLOR	SOIL CONSISTENCY	MATERIAL DESCRIPTION	USCS	PID	REMARKS
		NO.	BLOW COUNT	RQD%		ROCK HARDNESS				
0		1	NA	50	D. Brn Brown		Silty Organic Topsoil Clayey Silt, some fine to coarse gravel and cobbles.	OL MH	ND	moist
-5		2	NA	25					ND	
-10		3	NA	50			Clayey Silt, some coarse sand and fine to coarse gravel and cobbles.		ND	very moist to wet at 9', then moist
-15		4	NA	40	Gray Brown		Clayey Silt and Coarse Gravel, some cobbles and medium to coarse sand.		ND	
-20		5	NA	50			Silty Fine to Coarse Gravel and cobbles, some silty medium to coarse sand zones. Iron staining around one piece of gravel; no odor.	GM	ND	wet at 16'.
-25							End of Boring at 20'.			

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-10-14-16' and SB-10-18-20' for analysis of VOCs, SVOCs, Phenols, Cyanide, and Metals.

No odors or staining noted.

ND = Non-detect above background levels

BORING NO. : SB-10

BORING NO. : SB-11-1 thru 4

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 OF 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: Nature's Way EC & C, Inc.

NORTHING: 949278.57* EASTING: 928946.46*

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 1118.74*

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 11/14/05

DATE FINISHED: 11/14/05

DRILLER: Eric Laurienzo

GEOLOGIST: R. Murphy

* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH
FEET

STRATA

SAMPLE

NO.

BLOW
COUNT

REC%

RQD%

COLOR

SOIL
CONSISTENCY

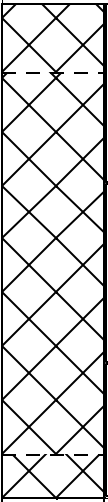
ROCK
HARDNESS

MATERIAL
DESCRIPTION

USCS

PID

REMARKS

0		1	NA	50	Brown		Organic Clayey Silt and Gravel	FILL	ND	
					Gray Brown		Gray Ash, cinder, and coal, with fine to coarse gravel and occasional layers of clayey silt, trace glass.			
-5		2	NA	25						
		3	NA	50			Silt with 0.2' black stained zone with decay odor, underlain by more ash and gravel.		ND	
-10							End of Boring at 11'. Refusal. Four attempts four refusals at 11'. Four attempts surveyed in as SB-11-1 through SB-11-4. All four borings had similar lithology. Possible mortar in shoe from third refusal.			
-15							* - Survey information shown is for SB-11-1			
-20										
-25										

COMMENTS: Boring advanced with a skid steer mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-11-6-8' and SB-11-9-11' for analysis of VOCs, SVOCs, Phenols, Cyanide, and Metals.

Four attempts, four refusals at 11'. Black staining and decay odor in 0.2' zone between 10 and 11'.

ND = Non-detect above background levels

BORING NO. : SB-11-1 thru 4

BORING NO. : SB-12

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 OF 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: TREC Environmental Inc.

NORTHING: 949289.48* EASTING: 928931.04*

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: NA

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 04/26/06

DIA.

2"

DATE FINISHED: 04/26/06

WT.

DRILLER: Jim Agar

LENGTH

4'

GEOLOGIST: R. Murphy

* POCKET PENETROMETER READING

REVIEWED BY:

Tim Bunnin

DEPTH
FEET

STRATA

SAMPLE
NO.

BLOW
COUNT

REC%
RQD%

COLOR

SOIL
CONSISTENCY

ROCK
HARDNESS

0

1

NA

50

Dark
Brown

Organic-Rich Silty Topsoil

OL

ND

Moist

Clayey silt, some fine gravel, organics (roots), trace cobble.

MH

BORING NO. : SB-13

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 OF 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: TREC Environmental Inc.

NORTHING: 949296.99* EASTING: 928942.67*

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: NA

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 04/26/06

DIA.

2"

DATE FINISHED: 04/26/06

WT.

DRILLER: Jim Agar

LENGTH

4'

GEOLOGIST: R. Murphy

* POCKET PENETROMETER READING

REVIEWED BY:

Tim Bunn

DEPTH
FEET

STRATA

SAMPLE
NO.

BLOW
COUNT

REC%
RQD%

COLOR

SOIL
CONSISTENCY

ROCK
HARDNESS

MATERIAL
DESCRIPTION

USCS

PID

REMARKS

0		1	NA	50	Dark Brown		Silty organic topsoil.	OL	ND	Moist
					Brown		Clayey Silt, trace gravel.	MH		
-5		2	NA	50	Gray Brown		Silt, some fine to coarse gravel and cobbles, trace clay.		ND	Dry
		3	NA	70					ND	
-10		4	NA	75					ND	
					Gray		Silty fine to coarse gravel.	GM		Wet @ 15.5'.
-15							End of boring 15.7' (Refusal).			
-20										
-25										

COMMENTS: Boring advanced with a track mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-13-10-12' and SB-13-14-15.7' (plus MS/MSD) for analysis of BTEX, PAHs, and total cyanide.

* - Survey information is approximate, boring location was measured offset from building corners.

ND = Non-detect above background levels

BORING NO. : SB-13

BORING NO. : SB-14

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 OF 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: TREC Environmental Inc.

NORTHING: 949244.64* EASTING: 928945.99*

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: NA

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 04/26/06

DIA.

2"

DATE FINISHED: 04/26/06

WT.

DRILLER: Jim Agar

LENGTH

4'

GEOLOGIST: R. Murphy

* POCKET PENETROMETER READING

REVIEWED BY:

Tim Bunn

DEPTH FEET	STRATA	SAMPLE NO.	BLOW COUNT	REC% RQD%	COLOR	SOIL CONSISTENCY ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA		Dark Brown Brown		Silty organic topsoil. Clayey silt and coarse gravel.	FILL	ND	Moist
-5		2	NA		Gray		Ash, cinder, coal, and gravel.		ND	Very Moist
-10		3	NA		Brown		Silt, with gravel and sand, some organics (roots).		ND	Wet at 10'.
					Black		Silt, trace fine sand, moderate MGP odor.		17.7	
-15		4	NA		Brown		Silty fine to coarse sand and gravel, slight odor.	SM-GM	2.0	
					Gray		Silty fine to coarse sand and gravel, no odor. (Coarser, mostly gravel 15.5-16.0')		ND	
-20							End of Boring 16'.			
-25										

COMMENTS: Boring advanced with a track mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-14-11-12' and SB-14-14-15' for analysis of BTEX, PAHs, and total cyanide.

* - Survey information is approximate, boring location was measured offset from building corners.

ND = Non-detect above background levels

BORING NO. : SB-14

BORING NO. : SB-15

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 OF 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: TREC Environmental Inc.

NORTHING: 949226.66* EASTING: 928947.48*

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: NA

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 04/26/06

DIA.

2"

DATE FINISHED: 04/26/06

WT.

DRILLER: Jim Agar

LENGTH

4'

GEOLOGIST: R. Murphy

* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH
FEET

STRATA

SAMPLE
NO.

BLOW
COUNT

REC%
RQD%

COLOR

SOIL
CONSISTENCY
ROCK
HARDNESS

0

1

NA

60

Brown

Asphalt and Gravel.

2

NA

40

Gray Brown

3

NA

50

-5

4

NA

70

-10

-15

BORING NO. : SB-16

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 OF 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: TREC Environmental Inc.

NORTHING: 949247.10* EASTING: 928935.59*

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: NA

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 04/26/06

DIA.

2"

DATE FINISHED: 04/26/06

WT.

DRILLER: Jim Agar

LENGTH

4'

GEOLOGIST: R. Murphy

* POCKET PENETROMETER READING

REVIEWED BY:

Tim Bunn

DEPTH FEET	STRATA	SAMPLE NO.	BLOW COUNT	REC% RQD%	COLOR	SOIL CONSISTENCY ROCK HARDNESS	MATERIAL DESCRIPTION	USCS	PID	REMARKS
0		1	NA	40	Dark Brown Brown		Silty organic topsoil. Clayey silt, some fine to coarse gravel.	FILL	ND	Moist
-5		2	NA	30	Gray		Ash, cinder, coal fragments, glass fragments, trace organics (roots).		ND	
-10		3	NA	50			Ash, trace gravel, sand, and wood fragments, no odor.		ND	
-15		4	NA	50	D.Gray Brown Gray Brown Gray		Fine to coarse sand, some silt. Clayey silt and coarse gravel. Silty fine to coarse gravel, no odor.	SW MH GM	ND	Wet at 15'.
-20							End of boring at 16'.			
-25										

COMMENTS: Boring advanced with a track mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-16-10-12' for analysis of BTEX, PAHs, and total cyanide.

* - Survey information is approximate, boring location was measured offset from building corners.

ND = Non-detect above background levels

BORING NO. : SB-16

BORING NO. : SB-17

PROJECT/PROJECT LOCATION: Former Cortland Gasholder Location

SHEET: 1 OF 1

CLIENT: New York State Electric & Gas

JOB NO. : 11174428.00000

BORING CONTRACTOR: TREC Environmental Inc.

NORTHING: 949263.10* EASTING: 928934.38*

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: NA

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 04/26/06

DIA.

2"

DATE FINISHED: 04/26/06

WT.

DRILLER: Jim Agar

LENGTH

4'

GEOLOGIST: R. Murphy

* POCKET PENETROMETER READING

REVIEWED BY:

Tim Bunn

DEPTH
FEET

STRATA

SAMPLE
NO.

BLOW
COUNT

REC%
RQD%

COLOR

SOIL
CONSISTENCY
ROCK
HARDNESS

MATERIAL
DESCRIPTION

USCS

PID

REMARKS

0		1	NA	60	Dark Brown Gray Brown		Silty organic topsoil. Clayey silt.	FILL	ND	Moist
-5		2	NA	60	Gray		Ash, cinder, gravel, coal fragments, some coarse sand.		ND	
-10		3	NA	70	Black Gray		Fine to coarse gravel. Stained Silt, slight odor. Ash, some gravel.		ND	
-15		4	NA	50	Gray Brown		Silt and gravel. Silty fine to coarse gravel, no odor.	GM	ND	Wet 12-12.5' Moist Wet at 15'.
-20							End of boring 16'.			
-25										

COMMENTS: Boring advanced with a track mounted Geoprobe unit equipped with a macrocore sampler.

Collected Samples SB-17-9-11' and SB-17-12-14' for analysis of BTEX, PAHs, and total cyanide.

* - Survey information is approximate, boring location was measured offset from building corners.

ND = Non-detect above background levels

BORING NO. : SB-17

APPENDIX E
PIEZOMETER CONSTRUCTION DETAILS

DRILLING SUMMARY Geologist: Rob Murphy Drilling Company: Nature's Way Environmental, Inc Driller: Mike Saeli Rig Make/Model: Skid Steer/ Geoprobe Date: 11/11/2005		Elevation 1118.56 Elevation 1118.44 Depth in Feet Below Grade Top of Seal 0.5 Top of Sand Pack 7.0 Top of Screen 12.8 Bottom of Screen/ Bottom of Borehole 22.8		Flush Mount Cap Ground Level PVC Slip Cap Borehole Diameter 3 inch dia. PVC Casing 1 inch dia. 12.8 feet length PVC Screen 1 inch dia. 10 feet length					
GEOLOGIC LOG <table border="1"> <thead> <tr> <th>Depth(ft.)</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td></td> <td>See Boring Log of SB-06 for Lithologic Description.</td> </tr> </tbody> </table>		Depth(ft.)	Description		See Boring Log of SB-06 for Lithologic Description.				
Depth(ft.)	Description								
	See Boring Log of SB-06 for Lithologic Description.								
WELL DESIGN									
CASING MATERIAL Surface: Flush Mount Road Box Monitor: PVC		SCREEN MATERIAL Type: PVC Slot Size: 0.010"		FILTER MATERIAL Type: #00N (Filpro) Setting: 7.0'-22.8' SEAL MATERIAL Type: Bentonite Chips Setting: 0.5'-7.0'					
COMMENTS:				LEGEND 					
Client: NYSEG		Location: Cortland Fomer Gasholder Site		Project No.: 11174428.00000					
URS Corporation		OVERBURDEN PIEZOMETER CONSTRUCTION DETAILS		Well Number: PZ-01					

DRILLING SUMMARY		<div style="display: flex; justify-content: space-between;"> <div> Elevation 1118.77 Elevation 1118.65 </div> <div> Flush Mount Cap Ground Level PVC Slip Cap </div> </div>	
Geologist: Rob Murphy		<div style="display: flex;"> <div style="flex: 1;"> Depth in Feet Below Grade Top of Seal 0.5 Top of Sand Pack 7.0 Top of Screen 13.7 Bottom of Screen/ Bottom of Borehole 23.7 </div> <div style="flex: 1; text-align: right;"> Borehole Diameter 3 inch dia. PVC Casing 1 inch dia. 13.7 feet length PVC Screen 1 inch dia. 10 feet length </div> </div>	
Drilling Company: Nature's Way Environmental, Inc			
Driller: Eric Laurienzo			
Rig Make/Model: Skid Steer/ Geoprobe			
Date: 11/14/2005			
GEOLOGIC LOG			
Depth(ft.)	Description		
	See Boring Log of SB-08 for Lithologic Description.		
WELL DESIGN			
CASING MATERIAL		SCREEN MATERIAL	FILTER MATERIAL
Surface: Flush Mount Road Box		Type: PVC	Type: #00N (Filpro) Setting: 7.0'-23.7'
Monitor: PVC		Slot Size: 0.010"	SEAL MATERIAL Type: Bentonite Chips Setting: 0.5'-7.0'
COMMENTS:		LEGEND <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 10px; background-color: #cccccc; border: 1px solid black;"></div> Cement Grout </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 10px; background-color: #000000; border: 1px solid black;"></div> Bentonite Seal </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 30px; height: 10px; background-color: #e0e0e0; border: 1px solid black;"></div> Sand Pack </div>	
Client: NYSEG		Location: Cortland Fomer Gasholder Site	
Project No.: 11174428.00000		Well Number: PZ-03	
URS Corporation		OVERBURDEN PIEZOMETER CONSTRUCTION DETAILS	

APPENDIX F
PIEZOMETER DEVELOPMENT LOGS

PIEZOMETER DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: <u>NYSEG Cortland Former Remote Gasholder Site</u>	WELL NO.: <u>PZ-01</u>
PROJECT NO.: <u>11174428.00000</u>	Page: 1 of 1
STAFF: <u>R. Murphy</u>	
DATE(S): <u>11/15/05</u>	

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>22.78</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>13.93</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>8.85</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.04</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.35</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 5)	=	<u>1.8</u>	6"	1.5
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>10.0</u>	8"	2.6
OR $V=0.0408 \times (\text{CASING DIAMETER})^2$				

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	Initial	1	2	4	6	8	10			
pH	7.08	7.34	7.41	7.42	7.46	7.47	7.49			
SPEC. COND. (mS/cm)	1.04	0.903	0.876	0.853	0.865	0.857	0.857			
TEMPERATURE (°C)	11.70	11.80	11.96	12.01	11.95	11.97	11.93			
TURBIDITY (NTU)	>1000	>1000	>1000	832	170	80	30			
ORP (Eh) (millivolts)	101	101	112	113	108	116	124			
APPEARANCE	brown	brown	light brown	light brown	very light brown	cloudy	clear			

COMMENTS: Developed using a Solinst Peristaltic Pump and dedicated disposable tubing.
 1400 Start Development.
 1425 Stop Development.

PIEZOMETER DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: <u>NYSEG Cortland Former Remote Gasholder Site</u>	WELL NO.: <u>PZ-02</u>
PROJECT NO.: <u>11174428.00000</u>	Page: 1 of 1
STAFF: <u>R. Murphy</u>	
DATE(S): <u>11/15/05</u>	

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>22.32</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>14.48</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>7.84</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.04</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.31</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 5)	=	<u>1.6</u>	6"	1.5
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>6.0</u>	8"	2.6
OR V=0.0408 x (CASING DIAMETER) ²				

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	Initial	1	2	4	6					
pH	7.46	7.44	7.46	7.45	7.46					
SPEC. COND. (mS/cm)	0.911	0.913	0.914	0.941	0.940					
TEMPERATURE (°C)	12.27	12.71	12.86	12.78	12.82					
TURBIDITY (NTU)	>1000	110	22	6	5					
ORP (Eh) (millivolts)	189	177	178	171	170					
APPEARANCE	brown	light brown	cloudy	clear	clear					

COMMENTS: Developed using a Solinst Peristaltic Pump and dedicated disposable tubing.
 1440 Start Development.
 1500 Stop Development.

PIEZOMETER DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: <u>NYSEG Cortland Former Remote Gasholder Site</u>	WELL NO.: <u>PZ-03</u>
PROJECT NO.: <u>11174428.00000</u>	Page: 1 of 1
STAFF: <u>R. Murphy</u>	
DATE(S): <u>11/15/05</u>	

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>23.63</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>14.02</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>9.61</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.04</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.38</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 5)	=	<u>1.9</u>	6"	1.5
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>6.0</u>	8"	2.6
OR $V=0.0408 \times (\text{CASING DIAMETER})^2$				

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	Initial	2	4	6						
pH	7.56	7.50	7.57	7.58						
SPEC. COND. (mS/cm)	0.91	0.867	0.869	0.870						
TEMPERATURE (°C)	12.01	12.35	12.25	12.30						
TURBIDITY (NTU)	>1000	230	37	22						
ORP (Eh) (millivolts)	175	164	184	178						
APPEARANCE	Brown	Light Brown	Slightly Cloudy	Clear						

COMMENTS: Developed using a Solinst Peristaltic Pump and dedicated disposable tubing.
 1555 Start Development.
 1620 Stop Development.

PIEZOMETER DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: <u>NYSEG Cortland Former Remote Gasholder Site</u>	WELL NO.: <u>PZ-04</u>
PROJECT NO.: <u>11174428.00000</u>	Page: 1 of 1
STAFF: <u>R. Murphy</u>	
DATE(S): <u>11/15/05</u>	

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>23.18</u>	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>14.42</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>8.76</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.04</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>0.35</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 5)	=	<u>1.8</u>	6"	1.5
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>6.0</u>	8"	2.6
OR $V=0.0408 \times (\text{CASING DIAMETER})^2$				

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	Initial	2	4	6						
pH	7.42	7.49	7.50	7.51						
SPEC. COND. (mS/cm)	0.93	0.886	0.905	0.913						
TEMPERATURE (°C)	11.96	12.15	12.48	12.42						
TURBIDITY (NTU)	>1000	280	40	20						
ORP (Eh) (millivolts)	169	171	175	173						
APPEARANCE	Brown	Light Brown	Cloudy	Clear						

COMMENTS: Developed using a Solinst Peristaltic Pump and dedicated disposable tubing.
 1515 Start Development.
 1535 Stop Development.

APPENDIX G
PIEZOMETER PURGE LOGS

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

PAGE: 1 of 1

Project: 11174428.00000 Site: NYSEG -Cortland Holder Well I.D.: PZ-01

Date: 11/16/05 Sampling Personnel: R. Murphy Company: URS Corporation

Purging/
Sampling
Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: High Density Polyethylene and Silicone Pump/Tubing Inlet Location: Midpoint of Screen/Open Hole

Measuring Point:	Top of Casing	Initial Depth to Water:	13.89	Depth to Well Bottom:	22.77	Well Diameter:	1"	Screen Length:	10
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	1.4	Estimated Purge Volume (liters):	17.5
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Sample ID:	PZ-01	Sample Time:	10:10	QA/QC:	None
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Sample Parameters: VOCs, SVOCs, Phenols, Metals, Cyanide, Amenable Cyanide, Soluble Iron

Other Information:

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
945	7.35	12.04	0.885	8.05	105	165	700	13.89
950	7.22	12.03	0.880	7.18	55	163	700	13.89
955	7.24	12.02	0.879	6.62	110	161	700	13.89
1000	7.25	12.02	0.878	6.15	39	160	700	13.89
1005	7.28	12.03	0.877	6.15	8	159	700	13.89
1010	7.31	12.05	0.877	6.27	4	158	700	13.89
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES=0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft (vol_{cyl} = $\pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

PAGE: 1 of 1

Project: 11174428.00000 Site: NYSEG -Cortland Holder Well I.D.: PZ-02

Date: 11/16/05 Sampling Personnel: R. Murphy Company: URS Corporation

Purging/
Sampling
Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: High Density Polyethylene and Silicone Pump/Tubing Inlet Location: Midpoint of Screen/Open Hole

Measuring Point:	Top of Casing	Initial Depth to Water:	14.45	Depth to Well Bottom:	22.32	Well Diameter:	1"	Screen Length:	10
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	1.2	Estimated Purge Volume (liters):	20.5
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Sample ID:	PZ-02	Sample Time:	11:20	QA/QC:	DUP - 11/16/05
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Sample Parameters: VOCs, SVOCs, Phenols, Metals, Cyanide, Amenable Cyanide, Soluble Iron

Other Information:

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1055	7.30	12.98	0.939	7.30	17	143	820	14.42
1100	7.30	12.97	0.938	6.41	8	145	820	14.42
1105	7.30	12.98	0.939	6.14	7	146	820	14.42
1110	7.30	12.99	0.939	5.81	4	148	820	14.42
1115	7.30	13.00	0.938	5.57	2	150	820	14.42
1120	7.30	12.98	0.938	5.46	2	152	820	14.42
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES—0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft (vol_{cyli} = $\pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

PAGE: 1 of 1

Project: 11174428.00000 Site: NYSEG -Cortland Holder Well I.D.: PZ-03

Date: 11/16/05 Sampling Personnel: R. Murphy Company: URS Corporation

Purging/
Sampling
Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: High Density Polyethylene and Silicone Pump/Tubing Inlet Location: Midpoint of Screen/Open Hole

Measuring Point: Top of Casing Initial Depth to Water: 13.99 Depth to Well Bottom: 23.64 Well Diameter: 1" Screen Length: 10

Casing Type: PVC Volume in 1 Well Casing (liters): 1.5 Estimated Purge Volume (liters): 24

Sample ID: PZ-03 Sample Time: 14:40 QA/QC: MS/MSD

Sample Parameters: VOCs, SVOCs, Phenols, Metals, Cyanide, Amenable Cyanide, Soluble Iron

Other Information:

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1410	7.40	12.27	0.887	8.57	190	129	800	13.92
1415	7.38	12.29	0.889	6.28	32	134	800	13.92
1420	7.38	12.28	0.889	6.26	18	135	800	13.92
1425	7.38	12.28	0.889	6.18	16	135	800	13.92
1430	7.38	12.90	0.889	6.11	14	136	800	13.92
1435	7.37	12.29	0.888	6.02	10	138	800	13.92
1440	7.37	12.28	0.888	5.95	6	139	800	13.92
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft (vol_{cyt} = $\pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

PAGE: 1 of 1

Project: 11174428.00000 Site: NYSEG -Cortland Holder Well I.D.: PZ-04

Date: 11/16/05 Sampling Personnel: R. Murphy Company: URS Corporation

Purging/
Sampling
Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: High Density Polyethylene and Silicone Pump/Tubing Inlet Location: Midpoint of Screen/Open Hole

Measuring Point: Top of Casing Initial Depth to Water: 14.39 Depth to Well Bottom: 23.15 Well Diameter: 1" Screen Length: 10

Casing Type: PVC Volume in 1 Well Casing (liters): 1.3 Estimated Purge Volume (liters): 24

Sample ID: PZ-04 Sample Time: 12:40 QA/QC: RB-11/16/05 @ 13:50

Sample Parameters: VOCs, SVOCs, Phenols, Metals, Cyanide, Amenable Cyanide, Soluble Iron

Other Information: Collected Rinse Blank over clean tubing following sampling of this well.

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1210	7.57	12.50	0.877	7.98	80	115	800	14.37
1215	7.35	12.66	0.903	6.55	40	125	800	14.37
1220	7.35	12.66	0.904	6.11	36	131	800	14.37
1225	7.34	12.65	0.904	5.87	24	136	800	14.37
1230	7.39	12.66	0.903	6.28	18	140	800	14.37
1235	7.35	12.66	0.902	6.43	14	142	800	14.37
1240	7.35	12.64	0.901	6.45	14	144	800	14.37
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft (vol_{cyt} = $\pi r^2 h$)

APPENDIX H

ANALYTICAL DATA ASSESSMENT SUMMARY

DATA ASSESSMENT SUMMARY
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

This data assessment summary addresses quality control deficiencies resulting in qualification of the data for the soil samples, groundwater samples, and field quality control (QC) samples (trip blanks/rinse blanks) collected November 9-16, 2005 at the Former Off-Site Gas Holder located in Cortland, New York. The samples were sent to Severn Trent Laboratories (STL, Amherst, NY) for analysis. A complete list of the samples is presented on Table H-1, which includes sample matrices, collection dates, identification of QC samples, and the laboratory report number in which the results were reported.

All soil and groundwater samples (and associated rinsate blanks) were analyzed for: Target Compound List (TCL) volatile organic compounds (VOCs) by USEPA Method 8260B, TCL semivolatile organic compounds (SVOCs) by USEPA Method SW8270C; Target Analyte List (TAL) metals by USEPA Methods SW6010B/SW7470A/SW7471A; total and amenable cyanide by USEPA Method SW9012A; and total recoverable phenolics by USEPA Method SW9066/420.2. The groundwater samples were also analyzed for dissolved iron by USEPA method 6010B. Select soil samples were analyzed for total organic carbon (TOC) by USEPA Region II Lloyd Kahn Method.

Trip blanks were sent to the laboratory along with each shipment of groundwater samples and analyzed TCL VOCs by USEPA Method 8260B.

Natural oxidant demand (NOD) analyses were performed on some of the soil samples. These analyses are discussed in Section III of this data assessment summary. Information pertaining to these samples is not provided on Table H-1, since the associated laboratory report is provided in full in Attachment A.

Data validation was limited to a review of holding times, surrogate spikes, matrix spike/matrix spike duplicates (MS/MSD), field duplicates (FD), and blanks (method, rinsate, trip, and calibration). Qualification of data was made following the procedures outlined in the following USEPA region II documents:

Standard Operating Procedure for the Validation of Organic Data Acquired using SW-846 Method 8260B, SOP No. HW-24, Revision 1, June 1999;

Standard Operating Procedure for the Validation of Organic Data Acquired using SW-846 Method 8270C, SOP No. HW-22, Revision 2, June 2001;

Data Validation Guidelines for CLP Statement of Work (SOW) OLM04.2, SOP No. HW-6, Revision 12, March 2001;

Evaluation of Metals Data for the CLP based on SOW 3/90, SOP Revision XI, January 1992; and

The validated analytical results are presented on Tables H-2 through H-5. Definitions of data qualifiers are presented at the end of this data assessment summary.

In addition to the General Discussion section below, the specific data qualifiers applied to the sample results are provided for each laboratory report. Chain-of-custody (COC) records, laboratory report case narratives, and documentation supporting the qualification of data (when applicable) is provided in Attachment B, and is sorted by laboratory report number.

I. General Discussion

The analyses were performed in accordance with the required analytical methods, except as noted otherwise in this report. Analyte quantitation limits (QLs) were reported in accordance with the method requirements, and were adjusted for sample size, dilution, and percent moisture. It should be noted that the SVOC fraction of various samples required dilution prior to analysis due to elevated concentrations of target compounds and/or matrix interferences. The QLs reported on Tables H-2 through H-5 are the lowest achievable at the level of dilution performed.

Samples designated for matrix spike/matrix spike duplicate (MS/MSD) analyses are shown on Table H-1. In addition to these, the laboratory performed MS/MSD analyses on other samples collected from this site as needed to fulfill batch quality control requirements. Qualification of data was made based on the MS/MSD results most applicable to the samples in each laboratory batch/report.

Field duplicates (FD) are also shown on Table H-1. USEPA Region II validation guidelines do not provide criteria for qualification of BTEX/VOC, SVOC, or PCB data based on FD results. Any qualification of metals and wet chemistry data based on FD results are discussed in subsequent sections of this report.

II. Severn Trent Laboratories (STL-Buffalo) Reports

STL Job Number A05-C888 (Test Pit Soil Samples Collected November 9, 2005)

The concentrations of methylene chloride in soil samples TP-02-5.5 and TP-02-7.0 were less than or equal to the QL, and less than ten times the amount in the associated rinsate blank. The final results for methylene chloride in these samples were qualified 'U' at the QL.

The metals MS and/or MSD analyses exhibited recoveries below QC limits for antimony (Sb), barium (Ba), and zinc (Zn). The detected results for Ba and Zn were qualified 'J' in all test pit soil samples, and the non-detect results for Sb qualified 'UJ'.

The metals MS analysis also exhibited a recovery above 200% for calcium (Ca). Although USEPA Region II validation guidelines typically require rejection ('R') of detected analyte results when MS/MSD recoveries are above 200%, the MSD recovery for Ca was within QC limits. Using professional judgment, the detected results for Ca were qualified 'J' in all test pit soil samples, and were not rejected.

The metals serial dilution analysis exhibited a percent difference (%D) in concentration of greater than 10% for aluminum (Al), Ba, Ca, iron (Fe), lead (Pb), magnesium (Mg), manganese (Mn), and Zn. The results for these analytes were qualified 'J' in all test pit soil samples.

STL Job Number A05-C903 (Test Pit Soil Samples Collected November 9, 2005, TOC Only)

No data required qualification.

STL Job Number A05-C927 (Soil Boring Samples Collected November 10-11, 2005)

The concentrations of SVOC bis(2-ethylhexyl)phthalate in samples SB-03-15-17, SB-06-16-18, and SB-07-15-16 were less than the QL and less than 10 times the amount in the associated method and rinsate blanks. The final results for bis(2-ethylhexyl)phthalate in these samples were raised to the QL and qualified 'U'. It should be noted that the results for bis(2-ethylhexyl)phthalate in the associated method and rinsate blanks were reported as non-detect by the laboratory because the concentrations were less than the method detection limit (MDL). However, the raw data confirm the presence of this compound in the blanks.

The concentration of SVOC phenol in sample SB-05-11-12 was less than the QL and less than five times the amount in the associated rinsate blank. The final result for phenol in this sample was raised to the QL and qualified 'U'.

The concentrations of SVOC pyrene in samples SB-06-14-16, SB-07-15-16, and SB-07-22-24 were less than the QL and less than five times the amount in the associated rinsate blank. The final results for pyrene in these samples were raised to the QL and qualified 'U'.

The metals MS/MSD analyses exhibited recoveries above QC limits for Al and below QC limits for Sb. The detected results for Al were qualified 'J' and the non-detect results for Sb qualified 'U' in all soil boring samples.

The metals serial dilution analysis exhibited a %D in concentration of greater than 10% for Al, Ba, Fe, Mg, and Mn. The results for these analytes were qualified 'J' in all soil boring samples.

The relative percent difference (RPD) between the concentrations of calcium (Ca) in sample SB-04-12-13.5 and the field duplicate of this sample (DUP-01) was greater than 100%. The results for Ca in this sample and field duplicate were qualified 'J'. As per USEPA region II validation guidelines, the results for Ca in the remaining soil boring samples did not require qualification.

STL Job Number A05-C945 (Soil Boring Sample Collected November 11, 2005, TOC Only)

No data required qualification.

STL Job Number A05-D077 (Soil Boring Samples Collected November 14, 2005)

The concentrations of VOC methylene chloride in all soil boring samples were less than 10 times the amount in the associated method blank. The final results for methylene chloride in all soil boring samples were qualified 'U'. It should be noted that the result for methylene chloride in the associated method blank was reported as non-detect by the laboratory because the concentration was less than the MDL. However, the raw data confirm the presence of this compound in the blank.

The concentrations of SVOC bis(2-ethylhexyl)phthalate in soil boring samples SB-08-18-20, SB-09-18-20, and SB-10-14-16 were less than the QL and less than 10 times the amount in the associated rinsate blank (see STL Report A05-C927). The final results for bis(2-

ethylhexyl)phthalate in these samples were raised to the QL and qualified 'U'. It should be noted that the result for bis(2-ethylhexyl)phthalate in the rinsate blank was reported as non-detect by the laboratory because the concentration was less than the MDL. However, the raw data confirm the presence of this compound in the blank.

The concentration of SVOC di-n-butylphthalate in sample SB-08-18-20 was less than the QL and less than 10 times the amount in the associated method blank. The final result for di-n-butylphthalate in this sample was raised to the QL and qualified 'U'.

The concentrations of SVOC naphthalene in samples SB-08-18-20 and SB-11-6-8 were less than the QL and less than five times the amount in the associated method blank. The final results for naphthalene in these samples were raised to the QL and qualified 'U'.

The metals MS/MSD analyses exhibited recoveries above QC limits for Al and below QC limits for Sb. The detected results for Al were qualified 'J' and the non-detect results for Sb qualified 'U' in all soil boring samples.

The metals serial dilution analysis exhibited a %D in concentration of greater than 10% for Ba, Ca, Fe, and Mn. The results for these analytes were qualified 'J' in all soil boring samples.

STL Job Number A05-D150 (Groundwater Samples Collected November 16, 2005)

The concentration of SVOC di-n-butylphthalate in sample PZ-02 was less than 10 times the amount in the associated method and rinsate blanks. The final result for di-n-butylphthalate in this sample was qualified 'U'. It should be noted that the results for di-n-butylphthalate in the blanks was reported as non-detect by the laboratory because the concentrations were less than the MDL. However, the raw data confirm the presence of this compound in the blanks.

Total phenolics were not recovered (i.e., 0% recovery) in the MS/MSD analyses. The results for total phenolics were qualified 'R' in all groundwater samples.

III. Additional Analyses

Natural Oxidant Demand (NOD)

Two soil samples and one field duplicate were collected on November 9-11, 2005 and sent to Carus Chemical Company (Peru, IL). The 48-hour NOD of the samples was determined at low, medium, and high doses of potassium permanganate. No quality control problems during sample analyses were noted in the laboratory reports. A summary of the analytical results is provided on Table H-6. A copy of the laboratory report, which describes the analyses in more detail, is provided in Attachment A.

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

- U – The analyte was analyzed for, but was not detected above the reported sample quantitation 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 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.
- N – The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
- NJ – The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.
- B – The analyte was detected in the sample at a concentration greater than the method detection limit, but less than the quantitation limit (used for metals only).
- R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- D – The concentration reported is from a secondary dilution analysis.

Table H-1
Sample Identification Summary
Former Off-Site Gas Holder - Cortland, New York
New York State Electric & Gas

Sample Type	Matrix	Laboratory Report	Collection Date	Location ID	Sample ID	QC
Test Pit	Soil	STL A05-C888 STL A05-C903 (TOC Only)	11/9/05	TP-01	TP-01-2.5	MS/MSD
				TP-01	TP-01-5.0	
				TP-01	TP-00-1.0	Field Duplicate of TP-01-5.0
				TP-02	TP-02-2.5	
				TP-02	TP-02-5.5	
				TP-02	TP-02-7.0	
				TP-03	TP-03-2.5	
				TP-03	TP-03-5.5	
Soil Boring	Soil	STL A05-C927 STL A05-C945 (TOC Only)	11/10/05	SB-01	SB-01-10-12	
				SB-03	SB-03-15-17	
				SB-04	SB-04-12-13.5	
				SB-04	DUP-01	Field Duplicate of SB-04-12-13.5
			11/11/05	SB-05	SB-05-11-12	
				SB-05	SB-05-15-16	
				SB-06	SB-06-14-16	
				SB-06	SB-06-16-18	MS/MSD
		STL A05-D077	11/14/05	SB-07	SB-07-13-15	
				SB-07	SB-07-15-16	
				SB-07	SB-07-22-24	
				SB-08	SB-08-10-12	
				SB-08	SB-08-18-20	
				SB-09	SB-09-14-16	
				SB-09	SB-09-18-20	
				SB-10	SB-10-14-16	
Piezometer	Groundwater	STL A05-D150	11/16/05	SB-10	SB-10-18-20	
				SB-11	SB-11-6-8	
				SB-11	SB-11-9-11	
				PZ-01	PZ-01	
				PZ-02	PZ-02	
Field QC	Rinsate Blank	STL A05-C888	11/9/05	Field QC	RB-01	Test Pits
		STL A05-C927	11/10/05		RB-02	Soil Borings
		STL A05-D150	11/16/05		RB-11-16-05	Piezometer Groundwater
	Trip Blank	STL A05-D150	11/16/05		TB-11-16-05	Piezometer Groundwater

MS/MSD - Matrix spike/matrix spike duplicate analyses requested on these samples.

TABLE H-2
VALIDATED TEST PIT SOIL SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID		TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled		11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	UG/KG	6 U	6 U	6 U	6 U	6 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6 U	6 U	6 U	6 U	6 U
1,1,2-Trichloroethane	UG/KG	6 U	6 U	6 U	6 U	6 U
1,1-Dichloroethane	UG/KG	6 U	6 U	6 U	6 U	6 U
1,1-Dichloroethene	UG/KG	6 U	6 U	6 U	6 U	6 U
1,2,4-Trichlorobenzene	UG/KG	6 U	6 U	6 U	6 U	6 U
1,2-Dibromo-3-chloropropane	UG/KG	6 U	6 U	6 U	6 U	6 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	6 U	6 U	6 U	6 U	6 U
1,2-Dichlorobenzene	UG/KG	6 U	6 U	6 U	6 U	6 U
1,2-Dichloroethane	UG/KG	6 U	6 U	6 U	6 U	6 U
1,2-Dichloroethene (cis)	UG/KG	6 U	6 U	6 U	6 U	6 U
1,2-Dichloroethene (trans)	UG/KG	6 U	6 U	6 U	6 U	6 U
1,2-Dichloropropane	UG/KG	6 U	6 U	6 U	6 U	6 U
1,3-Dichlorobenzene	UG/KG	6 U	6 U	6 U	6 U	6 U
1,3-Dichloropropene (cis)	UG/KG	6 U	6 U	6 U	6 U	6 U
1,3-Dichloropropene (trans)	UG/KG	6 U	6 U	6 U	6 U	6 U
1,4-Dichlorobenzene	UG/KG	6 U	6 U	6 U	6 U	6 U
2-Hexanone	UG/KG	28 U	29 U	28 U	29 U	29 U
4-Methyl-2-pentanone	UG/KG	28 U	29 U	28 U	29 U	29 U
Acetone	UG/KG	28 U	29 U	28 U	29 U	29 U
Benzene	UG/KG	6 U	6 U	6 U	6 U	6 U
Bromodichloromethane	UG/KG	6 U	6 U	6 U	6 U	6 U
Bromoform	UG/KG	6 U	6 U	6 U	6 U	6 U

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

Checked By_AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-2
VALIDATED TEST PIT SOIL SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID		TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled		11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Bromomethane	UG/KG	6 U	6 U	6 U	6 U	6 U
Carbon disulfide	UG/KG	6 U	6 U	6 U	6 U	6 U
Carbon tetrachloride	UG/KG	6 U	6 U	6 U	6 U	6 U
Chlorobenzene	UG/KG	6 U	6 U	6 U	6 U	6 U
Chloroethane	UG/KG	6 U	6 U	6 U	6 U	6 U
Chloroform	UG/KG	6 U	6 U	6 U	6 U	6 U
Chloromethane	UG/KG	6 U	6 U	6 U	6 U	6 U
Cyclohexane	UG/KG	6 U	6 U	6 U	6 U	6 U
Dibromochloromethane	UG/KG	6 U	6 U	6 U	6 U	6 U
Dichlorodifluoromethane	UG/KG	6 U	6 U	6 U	6 U	6 U
Ethylbenzene	UG/KG	6 U	6 U	6 U	6 U	6 U
Isopropylbenzene (Cumene)	UG/KG	6 U	6 U	6 U	6 U	6 U
Methyl acetate	UG/KG	6 U	6 U	6 U	6 U	6 U
Methyl ethyl ketone (2-Butanone)	UG/KG	28 U	29 U	28 U	29 U	29 U
Methyl tert-butyl ether	UG/KG	6 U	6 U	6 U	6 U	6 U
Methylcyclohexane	UG/KG	6 U	6 U	6 U	6 U	6 U
Methylene chloride	UG/KG	6 U	6 U	6 U	6 U	6 U
Styrene	UG/KG	6 U	6 U	6 U	6 U	6 U
Tetrachloroethene	UG/KG	6 U	6 U	6 U	6 U	6 U
Toluene	UG/KG	6 U	2 J	4 J	5 J	6 U
Trichloroethane	UG/KG	6 U	6 U	6 U	6 U	6 U
Trichloroethene	UG/KG	6 U	6 U	6 U	6 U	6 U
Trichlorofluoromethane	UG/KG	6 U	6 U	6 U	6 U	6 U

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

Checked By_AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-2
VALIDATED TEST PIT SOIL SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID		TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled		11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Vinyl chloride	UG/KG	11 U	12 U	11 U	11 U	12 U
Xylene (total)	UG/KG	17 U	17 U	16 U	17 U	17 U
Total BTEX	UG/KG	ND	2	4	5	ND
Total Volatile Organic Compounds	UG/KG	ND	2	4	5	ND
Semivolatile Organic Compounds						
1,1'-Biphenyl	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
2,2'-oxybis(2-Chloropropane)	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
2,4,5-Trichlorophenol	UG/KG	920 U	930 U	4,400 U	920 U	4,700 U
2,4,6-Trichlorophenol	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
2,4-Dichlorophenol	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
2,4-Dimethylphenol	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
2,4-Dinitrophenol	UG/KG	1,800 U	1,900 U	8,700 U	1,800 U	9,300 U
2,4-Dinitrotoluene	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
2,6-Dinitrotoluene	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
2-Chloronaphthalene	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
2-Chlorophenol	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
2-Methylnaphthalene	UG/KG	23 J	380 U	1,800 U	380 U	1,900 U
2-Methylphenol (o-cresol)	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
2-Nitroaniline	UG/KG	1,800 U	1,900 U	8,700 U	1,800 U	9,300 U
2-Nitrophenol	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
3,3'-Dichlorobenzidine	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
3-Nitroaniline	UG/KG	1,800 U	1,900 U	8,700 U	1,800 U	9,300 U
4,6-Dinitro-2-methylphenol	UG/KG	1,800 U	1,900 U	8,700 U	1,800 U	9,300 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

TABLE H-2
VALIDATED TEST PIT SOIL SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID		TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled		11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units		Field Duplicate (1-1)			
Semivolatile Organic Compounds						
4-Bromophenyl-phenylether	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
4-Chloro-3-methylphenol	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
4-Chloroaniline	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
4-Chlorophenyl-phenylether	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
4-Methylphenol (p-cresol)	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
4-Nitroaniline	UG/KG	1,800 U	1,900 U	8,700 U	1,800 U	9,300 U
4-Nitrophenol	UG/KG	1,800 U	1,900 U	8,700 U	1,800 U	9,300 U
Acenaphthene	UG/KG	29 J	380 U	1,800 U	380 U	1,900 U
Acenaphthylene	UG/KG	240 J	170 J	300 J	380 U	580 J
Acetophenone	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
Anthracene	UG/KG	320 J	150 J	300 J	380 U	660 J
Atrazine	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
Benzaldehyde	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
Benzo(a)anthracene	UG/KG	2,000	1,100	2,200	110 J	5,500
Benzo(a)pyrene	UG/KG	1,900	970	1,700 J	88 J	4,800
Benzo(b)fluoranthene	UG/KG	2,400	1,200	2,200	110 J	6,000
Benzo(g,h,i)perylene	UG/KG	1,200	630	1,100 J	52 J	2,600
Benzo(k)fluoranthene	UG/KG	630	360 J	790 J	33 J	1,800 J
bis(2-Chloroethoxy)methane	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
bis(2-Chloroethyl)ether	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
bis(2-Ethylhexyl)phthalate	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
Butylbenzylphthalate	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
Caprolactam	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

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Detection Limits shown are PQL

TABLE H-2
VALIDATED TEST PIT SOIL SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID		TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled		11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units		Field Duplicate (1-1)			
Semivolatile Organic Compounds						
Carbazole	UG/KG	130 J	42 J	1,800 U	380 U	220 J
Chrysene	UG/KG	1,800	990	1,900	94 J	5,200
Dibenzo(a,h)anthracene	UG/KG	350 J	190 J	270 J	380 U	900 J
Dibenzofuran	UG/KG	48 J	380 U	1,800 U	380 U	1,900 U
Diethylphthalate	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
Dimethylphthalate	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
Di-n-butylphthalate	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
Di-n-octylphthalate	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
Fluoranthene	UG/KG	3,600	1,600	3,400	160 J	8,400
Fluorene	UG/KG	86 J	31 J	1,800 U	380 U	100 J
Hexachlorobenzene	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
Hexachlorobutadiene	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
Hexachlorocyclopentadiene	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
Hexachloroethane	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
Indeno(1,2,3-cd)pyrene	UG/KG	1,100	560	1,000 J	51 J	2,500
Isophorone	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
Naphthalene	UG/KG	85 J	50 J	1,800 U	380 U	1,900 U
Nitrobenzene	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
N-Nitroso-di-n-propylamine	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
N-Nitrosodiphenylamine	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U
Pentachlorophenol	UG/KG	1,800 U	1,900 U	8,700 U	1,800 U	9,300 U
Phenanthrene	UG/KG	1,200	410	1,000 J	380 U	2,200
Phenol	UG/KG	380 U	380 U	1,800 U	380 U	1,900 U

Flags assigned during chemistry validation are shown.

Made By _JJL 12/29/05_

Checked By _AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-2
VALIDATED TEST PIT SOIL SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID		TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled		11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units		Field Duplicate (1-1)			
Semivolatile Organic Compounds						
Pyrene	UG/KG	3,100	1,400	2,900	150 J	7,100
Total Polycyclic Aromatic Hydrocarbons	UG/KG	20,040	9,811	19,060	848	48,340
Total Semivolatile Organic Compounds	UG/KG	20,241	9,853	19,060	848	48,560
Metals						
Aluminum	MG/KG	12,500 J	10,400 J	11,700 J	13,200 J	9,740 J
Antimony	MG/KG	16.0 UJ	17.8 UJ	14.5 UJ	15.9 UJ	15.9 UJ
Arsenic	MG/KG	6.9	4.4	5.2	6.2	5.8
Barium	MG/KG	75.8 J	55.3 J	59.0 J	59.0 J	56.3 J
Beryllium	MG/KG	0.50	0.41	0.46	0.51	0.41
Cadmium	MG/KG	0.42	0.26	0.26	0.53	0.32
Calcium	MG/KG	2,900 J	2,390 J	2,700 J	1,940 J	9,690 J
Chromium	MG/KG	15.3	12.1	13.3	13.8	12.4
Cobalt	MG/KG	9.5	7.5	9.0	9.2	7.4
Copper	MG/KG	24.5	24.0	19.3	20.3	20.4
Iron	MG/KG	23,200 J	21,400 J	22,100 J	24,500 J	18,800 J
Lead	MG/KG	74.6 J	32.1 J	30.2 J	34.3 J	43.0 J
Magnesium	MG/KG	3,640 J	3,310 J	3,710 J	3,440 J	4,260 J
Manganese	MG/KG	961 J	688 J	880 J	1,050 J	697 J
Mercury	MG/KG	0.157	0.048	0.053	0.051	0.125
Nickel	MG/KG	20.8	17.9	20.2	21.6	18.2
Potassium	MG/KG	880	650	771	713	619
Selenium	MG/KG	4.3 U	4.7 U	3.9 U	4.2 U	4.2 U
Silver	MG/KG	0.53 U	0.59 U	0.48 U	0.53 U	0.53 U

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

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Detection Limits shown are PQL

TABLE H-2
VALIDATED TEST PIT SOIL SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		TP-01	TP-01	TP-01	TP-01	TP-02
Sample ID		TP-01-2.5	TP-00-1.0	TP-01-5.0	TP-01-7.5	TP-02-2.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.5-2.5	5.0-5.0	5.0-5.0	7.5-7.5	2.5-2.5
Date Sampled		11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units		Field Duplicate (1-1)			
Metals						
Sodium	MG/KG	149 U	166 U	135 U	148 U	149 U
Thallium	MG/KG	6.4 U	7.1 U	5.8 U	6.3 U	6.4 U
Vanadium	MG/KG	19.9	14.0	16.7	19.1	13.7
Zinc	MG/KG	130 J	74.1 J	75.5 J	164 J	101 J
Miscellaneous Parameters						
Cyanide	MG/KG	1.1 U	1.2 U	1.0 U	1.2 U	1.0 U
Cyanide, Amenable To Chlorination	MG/KG	1.1 U	1.1 U	1.1 U	1.0 U	1.0 U
Phenolics, Total Recoverable	MG/KG	5.5 U	6.0 U	5.4 U	5.6 U	5.7 U
Total Organic Carbon (TOC)	MG/KG	NA	12,000	8,700	NA	NA

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

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Detection Limits shown are PQL

TABLE H-2
VALIDATED TEST PIT SOIL SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID		TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled		11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units					
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	UG/KG	6 U	6 U	6 U	6 U	6 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6 U	6 U	6 U	6 U	6 U
1,1,2-Trichloroethane	UG/KG	6 U	6 U	6 U	6 U	6 U
1,1-Dichloroethane	UG/KG	6 U	6 U	6 U	6 U	6 U
1,1-Dichloroethene	UG/KG	6 U	6 U	6 U	6 U	6 U
1,2,4-Trichlorobenzene	UG/KG	6 U	6 U	6 U	6 U	6 U
1,2-Dibromo-3-chloropropane	UG/KG	6 U	6 U	6 U	6 U	6 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	6 U	6 U	6 U	6 U	6 U
1,2-Dichlorobenzene	UG/KG	6 U	6 U	6 U	6 U	6 U
1,2-Dichloroethane	UG/KG	6 U	6 U	6 U	6 U	6 U
1,2-Dichloroethene (cis)	UG/KG	6 U	6 U	6 U	6 U	6 U
1,2-Dichloroethene (trans)	UG/KG	6 U	6 U	6 U	6 U	6 U
1,2-Dichloropropane	UG/KG	6 U	6 U	6 U	6 U	6 U
1,3-Dichlorobenzene	UG/KG	6 U	6 U	6 U	6 U	6 U
1,3-Dichloropropene (cis)	UG/KG	6 U	6 U	6 U	6 U	6 U
1,3-Dichloropropene (trans)	UG/KG	6 U	6 U	6 U	6 U	6 U
1,4-Dichlorobenzene	UG/KG	6 U	6 U	6 U	6 U	6 U
2-Hexanone	UG/KG	28 U	32 U	29 U	28 U	33 U
4-Methyl-2-pentanone	UG/KG	28 U	32 U	29 U	28 U	33 U
Acetone	UG/KG	28 U	32 U	29 U	28 U	33 U
Benzene	UG/KG	6 U	6 U	6 U	6 U	6 U
Bromodichloromethane	UG/KG	6 U	6 U	6 U	6 U	6 U
Bromoform	UG/KG	6 U	6 U	6 U	6 U	6 U

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

Checked By_AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-2
VALIDATED TEST PIT SOIL SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID		TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled		11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units					
Volatile Organic Compounds						
Bromomethane	UG/KG	6 U	6 U	6 U	6 U	6 U
Carbon disulfide	UG/KG	6 U	6 U	6 U	6 U	6 U
Carbon tetrachloride	UG/KG	6 U	6 U	6 U	6 U	6 U
Chlorobenzene	UG/KG	6 U	6 U	6 U	6 U	6 U
Chloroethane	UG/KG	6 U	6 U	6 U	6 U	6 U
Chloroform	UG/KG	6 U	6 U	6 U	6 U	6 U
Chloromethane	UG/KG	6 U	6 U	6 U	6 U	6 U
Cyclohexane	UG/KG	6 U	6 U	6 U	6 U	6 U
Dibromochloromethane	UG/KG	6 U	6 U	6 U	6 U	6 U
Dichlorodifluoromethane	UG/KG	6 U	6 U	6 U	6 U	6 U
Ethylbenzene	UG/KG	6 U	6 U	6 U	6 U	6 U
Isopropylbenzene (Cumene)	UG/KG	6 U	6 U	6 U	6 U	6 U
Methyl acetate	UG/KG	6 U	6 U	6 U	6 U	6 U
Methyl ethyl ketone (2-Butanone)	UG/KG	28 U	32 U	29 U	28 U	33 U
Methyl tert-butyl ether	UG/KG	6 U	6 U	6 U	6 U	6 U
Methylcyclohexane	UG/KG	6 U	6 U	6 U	6 U	6 U
Methylene chloride	UG/KG	6 U	6 U	6 U	6 U	6 U
Styrene	UG/KG	6 U	6 U	6 U	6 U	6 U
Tetrachloroethene	UG/KG	6 U	6 U	6 U	6 U	6 U
Toluene	UG/KG	2 J	3 J	6 U	6	6 U
Trichloroethane	UG/KG	6 U	6 U	6 U	6 U	6 U
Trichloroethene	UG/KG	6 U	6 U	6 U	6 U	6 U
Trichlorofluoromethane	UG/KG	6 U	6 U	6 U	6 U	6 U

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

Checked By_AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-2
VALIDATED TEST PIT SOIL SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID		TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled		11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units					
Volatile Organic Compounds						
Vinyl chloride	UG/KG	11 U	13 U	12 U	11 U	13 U
Xylene (total)	UG/KG	17 U	20 U	18 U	17 U	20 U
Total BTEX	UG/KG	2	3	ND	6	ND
Total Volatile Organic Compounds	UG/KG	2	3	ND	6	ND
Semivolatile Organic Compounds						
1,1'-Biphenyl	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
2,2'-oxybis(2-Chloropropane)	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
2,4,5-Trichlorophenol	UG/KG	930 U	1,000 U	960 U	4,600 U	5,400 U
2,4,6-Trichlorophenol	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
2,4-Dichlorophenol	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
2,4-Dimethylphenol	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
2,4-Dinitrophenol	UG/KG	1,900 U	2,100 U	1,900 U	9,100 U	11,000 U
2,4-Dinitrotoluene	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
2,6-Dinitrotoluene	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
2-Chloronaphthalene	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
2-Chlorophenol	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
2-Methylnaphthalene	UG/KG	380 U	430 U	33 J	180 J	1,100 J
2-Methylphenol (o-cresol)	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
2-Nitroaniline	UG/KG	1,900 U	2,100 U	1,900 U	9,100 U	11,000 U
2-Nitrophenol	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
3,3'-Dichlorobenzidine	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
3-Nitroaniline	UG/KG	1,900 U	2,100 U	1,900 U	9,100 U	11,000 U
4,6-Dinitro-2-methylphenol	UG/KG	1,900 U	2,100 U	1,900 U	9,100 U	11,000 U

Flags assigned during chemistry validation are shown.

Made By _JJL 12/29/05_

Checked By _AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-2
VALIDATED TEST PIT SOIL SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID		TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled		11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units					
Semivolatile Organic Compounds						
4-Bromophenyl-phenylether	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
4-Chloro-3-methylphenol	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
4-Chloroaniline	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
4-Chlorophenyl-phenylether	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
4-Methylphenol (p-cresol)	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
4-Nitroaniline	UG/KG	1,900 U	2,100 U	1,900 U	9,100 U	11,000 U
4-Nitrophenol	UG/KG	1,900 U	2,100 U	1,900 U	9,100 U	11,000 U
Acenaphthene	UG/KG	380 U	430 U	46 J	230 J	1,100 J
Acenaphthylene	UG/KG	380 U	430 U	210 J	620 J	3,200
Acetophenone	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
Anthracene	UG/KG	380 U	23 J	340 J	750 J	7,400
Atrazine	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
Benzaldehyde	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
Benzo(a)anthracene	UG/KG	140 J	190 J	1,800	3,900	12,000
Benzo(a)pyrene	UG/KG	120 J	150 J	1,500	3,700	8,900
Benzo(b)fluoranthene	UG/KG	200 J	170 J	1,800	4,400	10,000
Benzo(g,h,i)perylene	UG/KG	73 J	30 J	790	2,400	4,900
Benzo(k)fluoranthene	UG/KG	190 J	65 J	650	1,600 J	3,600
bis(2-Chloroethoxy)methane	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
bis(2-Chloroethyl)ether	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
bis(2-Ethylhexyl)phthalate	UG/KG	380 U	430 U	94 J	1,900 U	2,200 U
Butylbenzylphthalate	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
Caprolactam	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U

Flags assigned during chemistry validation are shown.

Made By _JJL 12/29/05_

Checked By _AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-2
VALIDATED TEST PIT SOIL SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID		TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled		11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units					
Semivolatile Organic Compounds						
Carbazole	UG/KG	380 U	430 U	160 J	750 J	2,000 J
Chrysene	UG/KG	120 J	140 J	1,600	3,800	10,000
Dibenzo(a,h)anthracene	UG/KG	22 J	29 J	270 J	620 J	1,300 J
Dibenzofuran	UG/KG	380 U	430 U	75 J	320 J	3,000
Diethylphthalate	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
Dimethylphthalate	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
Di-n-butylphthalate	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
Di-n-octylphthalate	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
Fluoranthene	UG/KG	190 J	260 J	3,500	8,500	29,000
Fluorene	UG/KG	380 U	430 U	120 J	340 J	4,900
Hexachlorobenzene	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
Hexachlorobutadiene	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
Hexachlorocyclopentadiene	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
Hexachloroethane	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
Indeno(1,2,3-cd)pyrene	UG/KG	68 J	78 J	800	2,200	4,500
Isophorone	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
Naphthalene	UG/KG	380 U	430 U	72 J	620 J	1,100 J
Nitrobenzene	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
N-Nitroso-di-n-propylamine	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
N-Nitrosodiphenylamine	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U
Pentachlorophenol	UG/KG	1,900 U	2,100 U	1,900 U	9,100 U	11,000 U
Phenanthrene	UG/KG	46 J	51 J	1,500	5,300	27,000
Phenol	UG/KG	380 U	430 U	400 U	1,900 U	2,200 U

Flags assigned during chemistry validation are shown.

Made By _JJL 12/29/05_

Checked By _AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-2
VALIDATED TEST PIT SOIL SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID		TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled		11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units					
Semivolatile Organic Compounds						
Pyrene	UG/KG	180 J	230 J	2,900	7,400	22,000
Total Polycyclic Aromatic Hydrocarbons	UG/KG	1,349	1,416	17,898	46,380	150,900
Total Semivolatile Organic Compounds	UG/KG	1,349	1,416	18,260	47,630	157,000
Metals						
Aluminum	MG/KG	15,200 J	14,200 J	11,100 J	10,900 J	5,990 J
Antimony	MG/KG	15.6 UJ	17.6 UJ	15.0 UJ	15.5 UJ	17.7 UJ
Arsenic	MG/KG	5.2	4.6	5.6	7.2	10.6
Barium	MG/KG	31.5 J	70.7 J	84.4 J	76.1 J	62.6 J
Beryllium	MG/KG	0.54	0.50	0.44	0.48	0.53
Cadmium	MG/KG	0.28	0.23 U	0.30	0.25	1.6
Calcium	MG/KG	1,160 J	3,310 J	2,640 J	4,760 J	3,440 J
Chromium	MG/KG	15.8	14.3	13.2	13.2	8.8
Cobalt	MG/KG	10.6	9.9	7.5	8.1	6.0
Copper	MG/KG	19.0	14.0	19.9	24.6	37.5
Iron	MG/KG	24,400 J	24,700 J	18,900 J	19,500 J	19,700 J
Lead	MG/KG	13.1 J	18.0 J	84.3 J	150 J	598 J
Magnesium	MG/KG	4,180 J	3,960 J	3,040 J	3,330 J	1,250 J
Manganese	MG/KG	549 J	1,040 J	571 J	744 J	470 J
Mercury	MG/KG	0.047	0.022	0.097	0.058	0.363
Nickel	MG/KG	27.7	18.9	18.0	18.0	11.9
Potassium	MG/KG	622	726	696	702	393
Selenium	MG/KG	4.2 U	4.7 U	4.0 U	4.1 U	4.7 U
Silver	MG/KG	0.52 U	0.59 U	0.50 U	0.52 U	0.59 U

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

Checked By_AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-2
VALIDATED TEST PIT SOIL SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		TP-02	TP-02	TP-03	TP-03	TP-03
Sample ID		TP-02-5.5	TP-02-7.0	TP-03-2.5	TP-03-5.5	TP-03-10.5
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		5.5-5.5	7.0-7.0	2.5-2.5	5.5-5.5	10.5-10.5
Date Sampled		11/09/05	11/09/05	11/09/05	11/09/05	11/09/05
Parameter	Units					
Metals						
Sodium	MG/KG	146 U	164 U	140 U	145 U	165 U
Thallium	MG/KG	6.3 U	7.0 U	6.0 U	6.2 U	7.1 U
Vanadium	MG/KG	16.0	20.3	16.5	21.5	16.0
Zinc	MG/KG	67.5 J	71.5 J	89.5 J	104 J	407 J
Miscellaneous Parameters						
Cyanide	MG/KG	1.0 U	1.3 U	1.2 U	0.98 U	1.3 U
Cyanide, Amenable To Chlorination	MG/KG	1.1 U	1.1 U	1.0 U	1.2 U	1.3 U
Phenolics, Total Recoverable	MG/KG	5.8 U	7.3 U	5.0 U	5.6 U	6.7 U
Total Organic Carbon (TOC)	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID		SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled		11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	UG/KG	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	UG/KG	5 U	5 U	5 U	5 U	5 U
1,2-Dibromo-3-chloropropane	UG/KG	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	UG/KG	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (cis)	UG/KG	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (trans)	UG/KG	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	UG/KG	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	UG/KG	5 U	5 U	5 U	5 U	5 U
1,3-Dichloropropene (cis)	UG/KG	5 U	5 U	5 U	5 U	5 U
1,3-Dichloropropene (trans)	UG/KG	5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	UG/KG	5 U	5 U	5 U	5 U	5 U
2-Hexanone	UG/KG	27 U	27 U	26 U	26 U	27 U
4-Methyl-2-pentanone	UG/KG	27 U	27 U	26 U	26 U	27 U
Acetone	UG/KG	27 U	27 U	26 U	26 U	41
Benzene	UG/KG	5 U	5 U	5 U	5 U	8
Bromodichloromethane	UG/KG	5 U	5 U	5 U	5 U	5 U
Bromoform	UG/KG	5 U	5 U	5 U	5 U	5 U

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

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Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID		SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled		11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
Bromomethane	UG/KG	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	UG/KG	5 U	5 U	5 U	5 U	2 J
Carbon tetrachloride	UG/KG	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	UG/KG	5 U	5 U	5 U	5 U	5 U
Chloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U
Chloroform	UG/KG	5 U	5 U	5 U	5 U	5 U
Chloromethane	UG/KG	5 U	5 U	5 U	5 U	5 U
Cyclohexane	UG/KG	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	UG/KG	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	UG/KG	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	UG/KG	5 U	5 U	5 U	5 U	12
Isopropylbenzene (Cumene)	UG/KG	5 U	5 U	5 U	5 U	5 U
Methyl acetate	UG/KG	5 U	5 U	5 U	5 U	5 U
Methyl ethyl ketone (2-Butanone)	UG/KG	27 U	27 U	26 U	26 U	8 J
Methyl tert-butyl ether	UG/KG	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	UG/KG	5 U	5 U	5 U	5 U	5 U
Methylene chloride	UG/KG	5 U	5 U	5 U	5 U	5 U
Styrene	UG/KG	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	UG/KG	5 U	5 U	5 U	5 U	5 U
Toluene	UG/KG	5 U	5 U	5 U	5 U	10
Trichloroethane	UG/KG	5 U	5 U	5 U	5 U	5 U
Trichloroethene	UG/KG	5 U	5 U	5 U	5 U	5 U
Trichlorofluoromethane	UG/KG	5 U	5 U	5 U	5 U	5 U

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

Checked By_AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID		SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled		11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
Vinyl chloride	UG/KG	11 U	11 U	10 U	10 U	11 U
Xylene (total)	UG/KG	16 U	16 U	16 U	16 U	62
Total BTEX	UG/KG	ND	ND	ND	ND	92
Total Volatile Organic Compounds	UG/KG	ND	ND	ND	ND	143
Semivolatile Organic Compounds						
1,1'-Biphenyl	UG/KG	360 U	350 U	1,700 U	1,700 U	12,000
2,2'-oxybis(2-Chloropropane)	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
2,4,5-Trichlorophenol	UG/KG	880 U	850 U	4,200 U	4,100 U	28,000 U
2,4,6-Trichlorophenol	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
2,4-Dichlorophenol	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
2,4-Dimethylphenol	UG/KG	360 U	350 U	1,700 U	1,700 U	3,600 J
2,4-Dinitrophenol	UG/KG	1,800 U	1,700 U	8,400 U	8,200 U	55,000 U
2,4-Dinitrotoluene	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
2,6-Dinitrotoluene	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
2-Chloronaphthalene	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
2-Chlorophenol	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
2-Methylnaphthalene	UG/KG	360 U	350 U	1,700 U	1,700 U	52,000
2-Methylphenol (o-cresol)	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
2-Nitroaniline	UG/KG	1,800 U	1,700 U	8,400 U	8,200 U	55,000 U
2-Nitrophenol	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
3,3'-Dichlorobenzidine	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
3-Nitroaniline	UG/KG	1,800 U	1,700 U	8,400 U	8,200 U	55,000 U
4,6-Dinitro-2-methylphenol	UG/KG	1,800 U	1,700 U	8,400 U	8,200 U	55,000 U

Flags assigned during chemistry validation are shown.

Made By _JJL 12/29/05_

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Detection Limits shown are PQL

Advanced Selection: Soil Boring:
N:\11174305.00000\DB\Program\EDMS.mdr

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[LOGDATE] >= #11/9/2005# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SB

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID		SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled		11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
4-Bromophenyl-phenylether	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
4-Chloro-3-methylphenol	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
4-Chloroaniline	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
4-Chlorophenyl-phenylether	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
4-Methylphenol (p-cresol)	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
4-Nitroaniline	UG/KG	1,800 U	1,700 U	8,400 U	8,200 U	55,000 U
4-Nitrophenol	UG/KG	1,800 U	1,700 U	8,400 U	8,200 U	55,000 U
Acenaphthene	UG/KG	360 U	350 U	1,700 U	1,700 U	60,000
Acenaphthylene	UG/KG	360 U	350 U	130 J	120 J	28,000
Acetophenone	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
Anthracene	UG/KG	360 U	350 U	250 J	180 J	110,000
Atrazine	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
Benzaldehyde	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
Benzo(a)anthracene	UG/KG	360 U	350 U	1,400 J	1,200 J	160,000
Benzo(a)pyrene	UG/KG	360 U	350 U	1,100 J	1,100 J	120,000
Benzo(b)fluoranthene	UG/KG	360 U	350 U	1,200 J	1,200 J	130,000
Benzo(g,h,i)perylene	UG/KG	360 U	350 U	620 J	560 J	72,000
Benzo(k)fluoranthene	UG/KG	360 U	350 U	650 J	630 J	55,000
bis(2-Chloroethoxy)methane	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
bis(2-Chloroethyl)ether	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
bis(2-Ethylhexyl)phthalate	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
Butylbenzylphthalate	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
Caprolactam	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U

Flags assigned during chemistry validation are shown.

Made By _JJL 12/29/05_

Checked By _AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID		SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled		11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
Carbazole	UG/KG	360 U	350 U	1,700 U	1,700 U	73,000
Chrysene	UG/KG	360 U	350 U	1,200 J	1,000 J	150,000
Dibenzo(a,h)anthracene	UG/KG	360 U	350 U	170 J	210 J	22,000
Dibenzofuran	UG/KG	360 U	350 U	1,700 U	1,700 U	74,000
Diethylphthalate	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
Dimethylphthalate	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
Di-n-butylphthalate	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
Di-n-octylphthalate	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
Fluoranthene	UG/KG	360 U	350 U	2,100	1,600 J	520,000 D
Fluorene	UG/KG	360 U	350 U	1,700 U	1,700 U	100,000
Hexachlorobenzene	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
Hexachlorobutadiene	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
Hexachlorocyclopentadiene	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
Hexachloroethane	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
Indeno(1,2,3-cd)pyrene	UG/KG	360 U	350 U	590 J	530 J	67,000
Isophorone	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
Naphthalene	UG/KG	360 U	350 U	1,700 U	1,700 U	160,000
Nitrobenzene	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
N-Nitroso-di-n-propylamine	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
N-Nitrosodiphenylamine	UG/KG	360 U	350 U	1,700 U	1,700 U	11,000 U
Pentachlorophenol	UG/KG	1,800 U	1,700 U	8,400 U	8,200 U	55,000 U
Phenanthrene	UG/KG	360 U	350 U	620 J	360 J	680,000 D
Phenol	UG/KG	360 U	350 U	1,700 U	1,700 U	55,000 U

Flags assigned during chemistry validation are shown.

Made By _JJL 12/29/05_

Checked By _AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID		SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled		11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
Pyrene	UG/KG	360 U	350 U	1,900	1,500 J	420,000 D
Total Polycyclic Aromatic Hydrocarbons	UG/KG	ND	ND	11,930	10,190	2,854,000
Total Semivolatile Organic Compounds	UG/KG	ND	ND	11,930	10,190	3,068,600
Metals						
Aluminum	MG/KG	6,230 J	6,070 J	10,300 J	10,100 J	9,790 J
Antimony	MG/KG	17.4 UJ	17.5 UJ	15.3 UJ	17.1 UJ	28.4 UJ
Arsenic	MG/KG	3.7	2.3	5.2	5.3	12.2
Barium	MG/KG	31.3 J	28.6 J	45.6 J	51.3 J	51.5 J
Beryllium	MG/KG	0.31	0.25	0.42	0.42	0.54
Cadmium	MG/KG	0.23 U	0.23 U	0.33	0.29	0.38 U
Calcium	MG/KG	61,400	27,600	2,590 J	23,200 J	72,400
Chromium	MG/KG	8.5	7.9	13.4	12.8	13.5
Cobalt	MG/KG	5.7	4.9	8.9	8.3	7.8
Copper	MG/KG	21.8	7.3	16.8	22.2	29.2
Iron	MG/KG	14,200 J	13,700 J	30,000 J	23,100 J	19,300 J
Lead	MG/KG	8.7	3.6	13.5	12.0	390
Magnesium	MG/KG	15,700 J	5,560 J	3,090 J	8,810 J	22,200 J
Manganese	MG/KG	484 J	290 J	829 J	989 J	403 J
Mercury	MG/KG	0.018 U	0.019 U	0.051	0.041	0.140
Nickel	MG/KG	14.2	11.3	19.4	19.8	20.9
Potassium	MG/KG	786	593	502	791	1,020
Selenium	MG/KG	4.6 U	4.7 U	4.1 U	4.6 U	7.6 U
Silver	MG/KG	0.50 U	0.57 U	0.56 U	0.49 U	0.92 U

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

Checked By_AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-01	SB-03	SB-04	SB-04	SB-05
Sample ID		SB01-10-12	SB03-15-17	DUP-01	SB04-12-13.5	SB05-11-12
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		10.0-12.0	15.0-17.0	12.0-13.5	12.0-13.5	11.0-12.0
Date Sampled		11/10/05	11/10/05	11/10/05	11/10/05	11/10/05
Parameter	Units			Field Duplicate (1-1)		
Metals						
Sodium	MG/KG	163 U	164 U	142 U	160 U	316
Thallium	MG/KG	7.0 U	7.0 U	6.1 U	6.8 U	11.3 U
Vanadium	MG/KG	9.2	8.3	16.4	14.6	23.7
Zinc	MG/KG	67.2	31.1	59.3	58.3	89.8
Miscellaneous Parameters						
Cyanide	MG/KG	1.1 U	0.85 U	1.0 U	0.97 U	1.8 U
Cyanide, Amenable To Chlorination	MG/KG	0.98 U	1.1 U	0.84 U	1.1 U	1.4 U
Phenolics, Total Recoverable	MG/KG	5.4 U	4.7 U	5.5 U	4.7 U	7.7 U
Total Organic Carbon (TOC)	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

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Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID		SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled		11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	Units					
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	UG/KG	5 U	5 U	5 U	NA	5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	5 U	5 U	5 U	NA	5 U
1,1,2-Trichloroethane	UG/KG	5 U	5 U	5 U	NA	5 U
1,1-Dichloroethane	UG/KG	5 U	5 U	5 U	NA	5 U
1,1-Dichloroethene	UG/KG	5 U	5 U	5 U	NA	5 U
1,2,4-Trichlorobenzene	UG/KG	5 U	5 U	5 U	NA	5 U
1,2-Dibromo-3-chloropropane	UG/KG	5 U	5 U	5 U	NA	5 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	5 U	5 U	5 U	NA	5 U
1,2-Dichlorobenzene	UG/KG	5 U	5 U	5 U	NA	5 U
1,2-Dichloroethane	UG/KG	5 U	5 U	5 U	NA	5 U
1,2-Dichloroethene (cis)	UG/KG	5 U	5 U	5 U	NA	5 U
1,2-Dichloroethene (trans)	UG/KG	5 U	5 U	5 U	NA	5 U
1,2-Dichloropropane	UG/KG	5 U	5 U	5 U	NA	5 U
1,3-Dichlorobenzene	UG/KG	5 U	5 U	5 U	NA	5 U
1,3-Dichloropropene (cis)	UG/KG	5 U	5 U	5 U	NA	5 U
1,3-Dichloropropene (trans)	UG/KG	5 U	5 U	5 U	NA	5 U
1,4-Dichlorobenzene	UG/KG	5 U	5 U	5 U	NA	5 U
2-Hexanone	UG/KG	26 U	25 U	27 U	NA	27 U
4-Methyl-2-pentanone	UG/KG	26 U	25 U	27 U	NA	27 U
Acetone	UG/KG	26 U	25 U	27 U	NA	27 U
Benzene	UG/KG	5 U	5 U	5 U	NA	5 U
Bromodichloromethane	UG/KG	5 U	5 U	5 U	NA	5 U
Bromoform	UG/KG	5 U	5 U	5 U	NA	5 U

Flags assigned during chemistry validation are shown.

Made By _JLL 12/29/05_

Checked By _AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID		SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled		11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	Units					
Volatile Organic Compounds						
Bromomethane	UG/KG	5 U	5 U	5 U	NA	5 U
Carbon disulfide	UG/KG	5 U	5 U	5 U	NA	5 U
Carbon tetrachloride	UG/KG	5 U	5 U	5 U	NA	5 U
Chlorobenzene	UG/KG	5 U	5 U	5 U	NA	5 U
Chloroethane	UG/KG	5 U	5 U	5 U	NA	5 U
Chloroform	UG/KG	5 U	5 U	5 U	NA	5 U
Chloromethane	UG/KG	5 U	5 U	5 U	NA	5 U
Cyclohexane	UG/KG	5 U	5 U	5 U	NA	5 U
Dibromochloromethane	UG/KG	5 U	5 U	5 U	NA	5 U
Dichlorodifluoromethane	UG/KG	5 U	5 U	5 U	NA	5 U
Ethylbenzene	UG/KG	5 U	5 U	5 U	NA	5 U
Isopropylbenzene (Cumene)	UG/KG	5 U	5 U	5 U	NA	5 U
Methyl acetate	UG/KG	5 U	5 U	5 U	NA	5 U
Methyl ethyl ketone (2-Butanone)	UG/KG	26 U	25 U	27 U	NA	27 U
Methyl tert-butyl ether	UG/KG	5 U	5 U	5 U	NA	5 U
Methylcyclohexane	UG/KG	5 U	5 U	5 U	NA	5 U
Methylene chloride	UG/KG	5 U	5 U	5 U	NA	5 U
Styrene	UG/KG	5 U	5 U	5 U	NA	5 U
Tetrachloroethene	UG/KG	5 U	5 U	2 J	NA	5 U
Toluene	UG/KG	5 U	5 U	5 U	NA	5 U
Trichloroethane	UG/KG	5 U	5 U	5 U	NA	5 U
Trichloroethene	UG/KG	5 U	5 U	5 U	NA	5 U
Trichlorofluoromethane	UG/KG	5 U	5 U	5 U	NA	5 U

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

Checked By_AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID		SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled		11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	Units					
Volatile Organic Compounds						
Vinyl chloride	UG/KG	10 U	10 U	11 U	NA	11 U
Xylene (total)	UG/KG	16 U	15 U	16 U	NA	16 U
Total BTEX	UG/KG	ND	ND	ND	NA	ND
Total Volatile Organic Compounds	UG/KG	ND	ND	2	NA	ND
Semivolatile Organic Compounds						
1,1'-Biphenyl	UG/KG	1,800 U	340 U	360 U	NA	350 U
2,2'-oxybis(2-Chloropropane)	UG/KG	1,800 U	340 U	360 U	NA	350 U
2,4,5-Trichlorophenol	UG/KG	4,400 U	820 U	870 U	NA	850 U
2,4,6-Trichlorophenol	UG/KG	1,800 U	340 U	360 U	NA	350 U
2,4-Dichlorophenol	UG/KG	1,800 U	340 U	360 U	NA	350 U
2,4-Dimethylphenol	UG/KG	1,800 U	340 U	360 U	NA	350 U
2,4-Dinitrophenol	UG/KG	8,700 U	1,600 U	1,700 U	NA	1,700 U
2,4-Dinitrotoluene	UG/KG	1,800 U	340 U	360 U	NA	350 U
2,6-Dinitrotoluene	UG/KG	1,800 U	340 U	360 U	NA	350 U
2-Chloronaphthalene	UG/KG	1,800 U	340 U	360 U	NA	350 U
2-Chlorophenol	UG/KG	1,800 U	340 U	360 U	NA	350 U
2-Methylnaphthalene	UG/KG	810 J	340 U	360 U	NA	350 U
2-Methylphenol (o-cresol)	UG/KG	1,800 U	340 U	360 U	NA	350 U
2-Nitroaniline	UG/KG	8,700 U	1,600 U	1,700 U	NA	1,700 U
2-Nitrophenol	UG/KG	1,800 U	340 U	360 U	NA	350 U
3,3'-Dichlorobenzidine	UG/KG	1,800 U	340 U	360 U	NA	350 U
3-Nitroaniline	UG/KG	8,700 U	1,600 U	1,700 U	NA	1,700 U
4,6-Dinitro-2-methylphenol	UG/KG	8,700 U	1,600 U	1,700 U	NA	1,700 U

Flags assigned during chemistry validation are shown.

Made By _JJL 12/29/05_

Checked By _AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID		SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled		11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	Units					
Semivolatile Organic Compounds						
4-Bromophenyl-phenylether	UG/KG	1,800 U	340 U	360 U	NA	350 U
4-Chloro-3-methylphenol	UG/KG	1,800 U	340 U	360 U	NA	350 U
4-Chloroaniline	UG/KG	1,800 U	340 U	360 U	NA	350 U
4-Chlorophenyl-phenylether	UG/KG	1,800 U	340 U	360 U	NA	350 U
4-Methylphenol (p-cresol)	UG/KG	1,800 U	340 U	360 U	NA	350 U
4-Nitroaniline	UG/KG	8,700 U	1,600 U	1,700 U	NA	1,700 U
4-Nitrophenol	UG/KG	8,700 U	1,600 U	1,700 U	NA	1,700 U
Acenaphthene	UG/KG	750 J	340 U	360 U	NA	350 U
Acenaphthylene	UG/KG	780 J	340 U	360 U	NA	350 U
Acetophenone	UG/KG	1,800 U	340 U	360 U	NA	350 U
Anthracene	UG/KG	1,800	340 U	360 U	NA	350 U
Atrazine	UG/KG	1,800 U	340 U	360 U	NA	350 U
Benzaldehyde	UG/KG	1,800 U	340 U	360 U	NA	350 U
Benzo(a)anthracene	UG/KG	3,100	30 J	360 U	NA	52 J
Benzo(a)pyrene	UG/KG	2,500	19 J	360 U	NA	44 J
Benzo(b)fluoranthene	UG/KG	4,100	28 J	360 U	NA	67 J
Benzo(g,h,i)perylene	UG/KG	1,600 J	340 U	360 U	NA	26 J
Benzo(k)fluoranthene	UG/KG	4,300	340 U	360 U	NA	72 J
bis(2-Chloroethoxy)methane	UG/KG	1,800 U	340 U	360 U	NA	350 U
bis(2-Chloroethyl)ether	UG/KG	1,800 U	340 U	360 U	NA	350 U
bis(2-Ethylhexyl)phthalate	UG/KG	1,800 U	340 U	360 U	NA	350 U
Butylbenzylphthalate	UG/KG	1,800 U	340 U	360 U	NA	350 U
Caprolactam	UG/KG	1,800 U	340 U	360 U	NA	350 U

Flags assigned during chemistry validation are shown.

Made By _JJL 12/29/05_

Checked By _AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID		SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled		11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	Units					
Semivolatile Organic Compounds						
Carbazole	UG/KG	1,000 J	340 U	360 U	NA	350 U
Chrysene	UG/KG	3,000	26 J	360 U	NA	42 J
Dibenzo(a,h)anthracene	UG/KG	440 J	340 U	360 U	NA	350 U
Dibenzofuran	UG/KG	1,200 J	340 U	360 U	NA	350 U
Diethylphthalate	UG/KG	1,800 U	340 U	360 U	NA	350 U
Dimethylphthalate	UG/KG	1,800 U	340 U	360 U	NA	350 U
Di-n-butylphthalate	UG/KG	1,800 U	340 U	360 U	NA	350 U
Di-n-octylphthalate	UG/KG	1,800 U	340 U	360 U	NA	350 U
Fluoranthene	UG/KG	8,600	45 J	360 U	NA	76 J
Fluorene	UG/KG	1,800	340 U	360 U	NA	350 U
Hexachlorobenzene	UG/KG	1,800 U	340 U	360 U	NA	350 U
Hexachlorobutadiene	UG/KG	1,800 U	340 U	360 U	NA	350 U
Hexachlorocyclopentadiene	UG/KG	1,800 U	340 U	360 U	NA	350 U
Hexachloroethane	UG/KG	1,800 U	340 U	360 U	NA	350 U
Indeno(1,2,3-cd)pyrene	UG/KG	1,400 J	340 U	360 U	NA	22 J
Isophorone	UG/KG	1,800 U	340 U	360 U	NA	350 U
Naphthalene	UG/KG	1,400 J	34 J	360 U	NA	350 U
Nitrobenzene	UG/KG	1,800 U	340 U	360 U	NA	350 U
N-Nitroso-di-n-propylamine	UG/KG	1,800 U	340 U	360 U	NA	350 U
N-Nitrosodiphenylamine	UG/KG	1,800 U	340 U	360 U	NA	350 U
Pentachlorophenol	UG/KG	8,700 U	1,600 U	1,700 U	NA	1,700 U
Phenanthrene	UG/KG	9,800	26 J	360 U	NA	30 J
Phenol	UG/KG	1,800 U	340 U	360 U	NA	350 U

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

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Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID		SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled		11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	Units					
Semivolatile Organic Compounds						
Pyrene	UG/KG	6,300	340 U	360 U	NA	350 U
Total Polycyclic Aromatic Hydrocarbons	UG/KG	51,670	208	ND	NA	431
Total Semivolatile Organic Compounds	UG/KG	54,680	208	ND	NA	431
Metals						
Aluminum	MG/KG	6,020 J	4,970 J	4,270 J	NA	8,580 J
Antimony	MG/KG	16.6 UJ	13.4 UJ	14.7 UJ	NA	15.7 UJ
Arsenic	MG/KG	4.8	2.6	2.8	NA	3.6
Barium	MG/KG	34.7 J	25.8 J	24.2 J	NA	38.0 J
Beryllium	MG/KG	0.31	0.24	0.30	NA	0.33
Cadmium	MG/KG	0.24	0.18 U	0.20 U	NA	0.23
Calcium	MG/KG	76,800	33,900	199,000	NA	39,400
Chromium	MG/KG	9.3	6.2	5.8	NA	12.4
Cobalt	MG/KG	5.3	4.0	3.6	NA	7.2
Copper	MG/KG	16.3	8.2	12.1	NA	22.7
Iron	MG/KG	13,400 J	11,500 J	9,090 J	NA	19,500 J
Lead	MG/KG	68.2	5.2	3.9	NA	10.7
Magnesium	MG/KG	15,300 J	4,130 J	11,000 J	NA	9,770 J
Manganese	MG/KG	426 J	639 J	414 J	NA	515 J
Mercury	MG/KG	0.026	0.038	0.017 U	NA	0.016 U
Nickel	MG/KG	12.7	10.8	9.0	NA	17.7
Potassium	MG/KG	756	460	694	NA	813
Selenium	MG/KG	4.4 U	3.6 U	3.9 U	NA	4.2 U
Silver	MG/KG	0.59 U	0.52 U	0.54 U	NA	0.51 U

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

Checked By_AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-05	SB-06	SB-06	SB-07	SB-07
Sample ID		SB05-15-16	SB06-14-16	SB06-16-18	SB07-13-15	SB07-15-16
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		15.0-16.0	14.0-16.0	16.0-18.0	13.0-15.0	15.0-16.0
Date Sampled		11/10/05	11/11/05	11/11/05	11/11/05	11/11/05
Parameter	Units					
Metals						
Sodium	MG/KG	155 U	125 U	159	NA	147 U
Thallium	MG/KG	6.6 U	5.3 U	5.9 U	NA	6.3 U
Vanadium	MG/KG	10.2	6.8	6.1	NA	12.2
Zinc	MG/KG	53.5	30.5	27.2	NA	65.8
Miscellaneous Parameters						
Cyanide	MG/KG	1.1 U	0.82 U	1.1 U	NA	1.0 U
Cyanide, Amenable To Chlorination	MG/KG	1.0 U	0.93 U	0.81 U	NA	0.82 U
Phenolics, Total Recoverable	MG/KG	4.4 U	4.1 U	5.1 U	NA	4.6 U
Total Organic Carbon (TOC)	MG/KG	NA	NA	NA	920	NA

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

Checked By_AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID		SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled		11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	Units					
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	UG/KG	6 U	6 U	5 U	5 U	6 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	6 U	6 U	5 U	5 U	6 U
1,1,2-Trichloroethane	UG/KG	6 U	6 U	5 U	5 U	6 U
1,1-Dichloroethane	UG/KG	6 U	6 U	5 U	5 U	6 U
1,1-Dichloroethene	UG/KG	6 U	6 U	5 U	5 U	6 U
1,2,4-Trichlorobenzene	UG/KG	6 U	6 U	5 U	5 U	6 U
1,2-Dibromo-3-chloropropane	UG/KG	6 U	6 U	5 U	5 U	6 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	6 U	6 U	5 U	5 U	6 U
1,2-Dichlorobenzene	UG/KG	6 U	6 U	5 U	5 U	6 U
1,2-Dichloroethane	UG/KG	6 U	6 U	5 U	5 U	6 U
1,2-Dichloroethene (cis)	UG/KG	6 U	6 U	5 U	5 U	6 U
1,2-Dichloroethene (trans)	UG/KG	6 U	6 U	5 U	5 U	6 U
1,2-Dichloropropane	UG/KG	6 U	6 U	5 U	5 U	6 U
1,3-Dichlorobenzene	UG/KG	6 U	6 U	5 U	5 U	6 U
1,3-Dichloropropene (cis)	UG/KG	6 U	6 U	5 U	5 U	6 U
1,3-Dichloropropene (trans)	UG/KG	6 U	6 U	5 U	5 U	6 U
1,4-Dichlorobenzene	UG/KG	6 U	6 U	5 U	5 U	6 U
2-Hexanone	UG/KG	28 U	30 U	26 U	26 U	28 U
4-Methyl-2-pentanone	UG/KG	28 U	30 U	26 U	26 U	28 U
Acetone	UG/KG	28 U	30	26 U	26 U	28 U
Benzene	UG/KG	6 U	15	5 U	5 U	6 U
Bromodichloromethane	UG/KG	6 U	6 U	5 U	5 U	6 U
Bromoform	UG/KG	6 U	6 U	5 U	5 U	6 U

Flags assigned during chemistry validation are shown.

Made By _JL 12/29/05_

Checked By _AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID		SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled		11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	Units					
Volatile Organic Compounds						
Bromomethane	UG/KG	6 U	6 U	5 U	5 U	6 U
Carbon disulfide	UG/KG	6 U	3 J	5 U	5 U	6 U
Carbon tetrachloride	UG/KG	6 U	6 U	5 U	5 U	6 U
Chlorobenzene	UG/KG	6 U	6 U	5 U	5 U	6 U
Chloroethane	UG/KG	6 U	6 U	5 U	5 U	6 U
Chloroform	UG/KG	6 U	6 U	5 U	5 U	6 U
Chloromethane	UG/KG	6 U	6 U	5 U	5 U	6 U
Cyclohexane	UG/KG	6 U	6 U	5 U	5 U	6 U
Dibromochloromethane	UG/KG	6 U	6 U	5 U	5 U	6 U
Dichlorodifluoromethane	UG/KG	6 U	6 U	5 U	5 U	6 U
Ethylbenzene	UG/KG	6 U	24	5 U	5 U	6 U
Isopropylbenzene (Cumene)	UG/KG	6 U	6	5 U	5 U	6 U
Methyl acetate	UG/KG	6 U	6 U	5 U	5 U	6 U
Methyl ethyl ketone (2-Butanone)	UG/KG	28 U	30 U	26 U	26 U	28 U
Methyl tert-butyl ether	UG/KG	6 U	6 U	5 U	5 U	6 U
Methylcyclohexane	UG/KG	6 U	6 U	5 U	5 U	6 U
Methylene chloride	UG/KG	6 U	8 U	6 U	7 U	8 U
Styrene	UG/KG	6 U	9	5 U	5 U	6 U
Tetrachloroethene	UG/KG	6 U	6 U	5 U	5 U	6 U
Toluene	UG/KG	6 U	19	5 U	5 U	6 U
Trichloroethane	UG/KG	6 U	6 U	5 U	5 U	6 U
Trichloroethene	UG/KG	6 U	6 U	5 U	5 U	6 U
Trichlorofluoromethane	UG/KG	6 U	6 U	5 U	5 U	6 U

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

Checked By_AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID		SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled		11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	Units					
Volatile Organic Compounds						
Vinyl chloride	UG/KG	11 U	12 U	11 U	10 U	11 U
Xylene (total)	UG/KG	17 U	98	16 U	16 U	16 U
Total BTEX	UG/KG	ND	156	ND	ND	ND
Total Volatile Organic Compounds	UG/KG	ND	204	ND	ND	ND
Semivolatile Organic Compounds						
1,1'-Biphenyl	UG/KG	380 U	13,000	350 U	350 U	370 U
2,2'-oxybis(2-Chloropropane)	UG/KG	380 U	8,000 U	350 U	350 U	370 U
2,4,5-Trichlorophenol	UG/KG	910 U	19,000 U	860 U	840 U	890 U
2,4,6-Trichlorophenol	UG/KG	380 U	8,000 U	350 U	350 U	370 U
2,4-Dichlorophenol	UG/KG	380 U	8,000 U	350 U	350 U	370 U
2,4-Dimethylphenol	UG/KG	380 U	1,100 J	350 U	350 U	370 U
2,4-Dinitrophenol	UG/KG	1,800 U	39,000 U	1,700 U	1,700 U	1,800 U
2,4-Dinitrotoluene	UG/KG	380 U	8,000 U	350 U	350 U	370 U
2,6-Dinitrotoluene	UG/KG	380 U	8,000 U	350 U	350 U	370 U
2-Chloronaphthalene	UG/KG	380 U	8,000 U	350 U	350 U	370 U
2-Chlorophenol	UG/KG	380 U	8,000 U	350 U	350 U	370 U
2-Methylnaphthalene	UG/KG	380 U	53,000	350 U	350 U	370 U
2-Methylphenol (o-cresol)	UG/KG	380 U	920 J	350 U	350 U	370 U
2-Nitroaniline	UG/KG	1,800 U	39,000 U	1,700 U	1,700 U	1,800 U
2-Nitrophenol	UG/KG	380 U	8,000 U	350 U	350 U	370 U
3,3'-Dichlorobenzidine	UG/KG	380 U	8,000 U	350 U	350 U	370 U
3-Nitroaniline	UG/KG	1,800 U	39,000 U	1,700 U	1,700 U	1,800 U
4,6-Dinitro-2-methylphenol	UG/KG	1,800 U	39,000 U	1,700 U	1,700 U	1,800 U

Flags assigned during chemistry validation are shown.

Made By _JL 12/29/05_

Checked By _AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID		SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled		11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	Units					
Semivolatile Organic Compounds						
4-Bromophenyl-phenylether	UG/KG	380 U	8,000 U	350 U	350 U	370 U
4-Chloro-3-methylphenol	UG/KG	380 U	8,000 U	350 U	350 U	370 U
4-Chloroaniline	UG/KG	380 U	8,000 U	350 U	350 U	370 U
4-Chlorophenyl-phenylether	UG/KG	380 U	8,000 U	350 U	350 U	370 U
4-Methylphenol (p-cresol)	UG/KG	380 U	2,800 J	350 U	350 U	370 U
4-Nitroaniline	UG/KG	1,800 U	39,000 U	1,700 U	1,700 U	1,800 U
4-Nitrophenol	UG/KG	1,800 U	39,000 U	1,700 U	1,700 U	1,800 U
Acenaphthene	UG/KG	380 U	54,000	350 U	350 U	370 U
Acenaphthylene	UG/KG	380 U	39,000	24 J	350 U	370 U
Acetophenone	UG/KG	380 U	8,000 U	350 U	350 U	370 U
Anthracene	UG/KG	380 U	90,000	31 J	350 U	370 U
Atrazine	UG/KG	380 U	8,000 U	350 U	350 U	370 U
Benzaldehyde	UG/KG	380 U	8,000 U	350 U	350 U	370 U
Benzo(a)anthracene	UG/KG	22 J	230,000 D	59 J	350 U	370 U
Benzo(a)pyrene	UG/KG	380 U	220,000 D	48 J	350 U	370 U
Benzo(b)fluoranthene	UG/KG	19 J	240,000 D	60 J	350 U	370 U
Benzo(g,h,i)perylene	UG/KG	380 U	73,000	24 J	350 U	370 U
Benzo(k)fluoranthene	UG/KG	380 U	72,000	350 U	350 U	370 U
bis(2-Chloroethoxy)methane	UG/KG	380 U	8,000 U	350 U	350 U	370 U
bis(2-Chloroethyl)ether	UG/KG	380 U	8,000 U	350 U	350 U	370 U
bis(2-Ethylhexyl)phthalate	UG/KG	380 U	8,000 U	350 U	350 U	370 U
Butylbenzylphthalate	UG/KG	380 U	8,000 U	350 U	350 U	370 U
Caprolactam	UG/KG	380 U	8,000 U	350 U	350 U	370 U

Flags assigned during chemistry validation are shown.

Made By _JJL 12/29/05_

Checked By _AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID		SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled		11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	Units					
Semivolatile Organic Compounds						
Carbazole	UG/KG	380 U	45,000	350 U	350 U	370 U
Chrysene	UG/KG	380 U	270,000 D	57 J	350 U	370 U
Dibenzo(a,h)anthracene	UG/KG	380 U	20,000	350 U	350 U	370 U
Dibenzofuran	UG/KG	380 U	52,000	350 U	350 U	370 U
Diethylphthalate	UG/KG	380 U	8,000 U	350 U	350 U	370 U
Dimethylphthalate	UG/KG	380 U	8,000 U	350 U	350 U	370 U
Di-n-butylphthalate	UG/KG	380 U	8,000 U	350 U	350 U	370 U
Di-n-octylphthalate	UG/KG	380 U	8,000 U	350 U	350 U	370 U
Fluoranthene	UG/KG	29 J	700,000 D	140 J	350 U	370 U
Fluorene	UG/KG	380 U	90,000	25 J	350 U	370 U
Hexachlorobenzene	UG/KG	380 U	8,000 U	350 U	350 U	370 U
Hexachlorobutadiene	UG/KG	380 U	8,000 U	350 U	350 U	370 U
Hexachlorocyclopentadiene	UG/KG	380 U	8,000 U	350 U	350 U	370 U
Hexachloroethane	UG/KG	380 U	8,000 U	350 U	350 U	370 U
Indeno(1,2,3-cd)pyrene	UG/KG	380 U	66,000	21 J	350 U	370 U
Isophorone	UG/KG	380 U	8,000 U	350 U	350 U	370 U
Naphthalene	UG/KG	380 U	120,000	350 U	350 U	370 U
Nitrobenzene	UG/KG	380 U	8,000 U	350 U	350 U	370 U
N-Nitroso-di-n-propylamine	UG/KG	380 U	8,000 U	350 U	350 U	370 U
N-Nitrosodiphenylamine	UG/KG	380 U	8,000 U	350 U	350 U	370 U
Pentachlorophenol	UG/KG	1,800 U	39,000 U	1,700 U	1,700 U	1,800 U
Phenanthrene	UG/KG	380 U	860,000 D	150 J	350 U	370 U
Phenol	UG/KG	380 U	1,800 J	350 U	350 U	370 U

Flags assigned during chemistry validation are shown.

Made By _JJL 12/29/05_

Checked By _AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID		SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled		11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	Units					
Semivolatile Organic Compounds						
Pyrene	UG/KG	380 U	670,000 D	130 J	350 U	370 U
Total Polycyclic Aromatic Hydrocarbons	UG/KG	70	3,814,000	769	ND	ND
Total Semivolatile Organic Compounds	UG/KG	70	3,983,620	769	ND	ND
Metals						
Aluminum	MG/KG	6,040 J	4,550 J	6,280 J	7,550 J	7,570 J
Antimony	MG/KG	15.4 UJ	20.2 UJ	16.8 UJ	15.2 UJ	15.3 UJ
Arsenic	MG/KG	2.8	5.2	4.2	3.1	3.1
Barium	MG/KG	27.6 J	40.1 J	44.5 J	39.4 J	28.8 J
Beryllium	MG/KG	0.30	0.33	0.28	0.32	0.29
Cadmium	MG/KG	0.20 U	0.27 U	0.22 U	0.20 U	0.20 U
Calcium	MG/KG	66,400	11,500 J	62,100 J	59,200 J	46,000 J
Chromium	MG/KG	8.0	6.1	7.3	8.7	9.3
Cobalt	MG/KG	5.2	3.8	5.1	5.2	5.9
Copper	MG/KG	15.0	20.9	22.5	16.2	17.3
Iron	MG/KG	13,800 J	13,200 J	18,200 J	14,600 J	15,100 J
Lead	MG/KG	6.5	749	9.3	5.8	11.4
Magnesium	MG/KG	6,110 J	2,780	4,590	9,170	7,610
Manganese	MG/KG	523 J	214 J	618 J	423 J	443 J
Mercury	MG/KG	0.019 U	0.065	0.016 U	0.016 U	0.020 U
Nickel	MG/KG	13.0	10.0	12.3	14.3	14.9
Potassium	MG/KG	591	348	557	742	675
Selenium	MG/KG	4.1 U	5.4 U	4.5 U	4.1 U	4.1 U
Silver	MG/KG	0.53 U	0.67 U	0.56 U	0.51 U	0.51 U

Flags assigned during chemistry validation are shown.

Made By _JJL 12/29/05_

Checked By _AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-07	SB-08	SB-08	SB-09	SB-09
Sample ID		SB07-22-24	SB08-10-12	SB08-18-20	SB09-14-16	SB09-18-20
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		22.0-24.0	10.0-12.0	18.0-20.0	14.0-16.0	18.0-20.0
Date Sampled		11/11/05	11/14/05	11/14/05	11/14/05	11/14/05
Parameter	Units					
Metals						
Sodium	MG/KG	143 U	189 U	157 U	142 U	143 U
Thallium	MG/KG	6.1 U	8.1 U	6.7 U	6.1 U	6.1 U
Vanadium	MG/KG	8.0	15.2	9.8	9.7	9.6
Zinc	MG/KG	43.8	350	38.6	41.9	47.9
Miscellaneous Parameters						
Cyanide	MG/KG	1.1 U	1.0	0.92 U	1.0 U	1.0 U
Cyanide, Amenable To Chlorination	MG/KG	1.1 U	1.1 U	1.0 U	0.95 U	1.0 U
Phenolics, Total Recoverable	MG/KG	5.6 U	5.6 U	4.9 U	4.6 U	5.6 U
Total Organic Carbon (TOC)	MG/KG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

Checked By_AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-10	SB-10	SB-11-1	SB-11-1
Sample ID		SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11
Matrix		Soil	Soil	Soil	Soil
Depth Interval (ft)		14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0
Date Sampled		11/14/05	11/14/05	11/14/05	11/14/05
Parameter	Units				
Volatile Organic Compounds					
1,1,2,2-Tetrachloroethane	UG/KG	5 U	5 U	5 U	6 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/KG	5 U	5 U	5 U	6 U
1,1,2-Trichloroethane	UG/KG	5 U	5 U	5 U	6 U
1,1-Dichloroethane	UG/KG	5 U	5 U	5 U	6 U
1,1-Dichloroethene	UG/KG	5 U	5 U	5 U	6 U
1,2,4-Trichlorobenzene	UG/KG	5 U	5 U	5 U	6 U
1,2-Dibromo-3-chloropropane	UG/KG	5 U	5 U	5 U	6 U
1,2-Dibromoethane (Ethylene dibromide)	UG/KG	5 U	5 U	5 U	6 U
1,2-Dichlorobenzene	UG/KG	5 U	5 U	5 U	6 U
1,2-Dichloroethane	UG/KG	5 U	5 U	5 U	6 U
1,2-Dichloroethene (cis)	UG/KG	5 U	5 U	5 U	6 U
1,2-Dichloroethene (trans)	UG/KG	5 U	5 U	5 U	6 U
1,2-Dichloropropane	UG/KG	5 U	5 U	5 U	6 U
1,3-Dichlorobenzene	UG/KG	5 U	5 U	5 U	6 U
1,3-Dichloropropene (cis)	UG/KG	5 U	5 U	5 U	6 U
1,3-Dichloropropene (trans)	UG/KG	5 U	5 U	5 U	6 U
1,4-Dichlorobenzene	UG/KG	5 U	5 U	5 U	6 U
2-Hexanone	UG/KG	26 U	26 U	26 U	30 U
4-Methyl-2-pentanone	UG/KG	26 U	26 U	26 U	30 U
Acetone	UG/KG	26 U	26 U	26 U	88
Benzene	UG/KG	5 U	5 U	5 U	22
Bromodichloromethane	UG/KG	5 U	5 U	5 U	6 U
Bromoform	UG/KG	5 U	5 U	5 U	6 U

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

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Detection Limits shown are PQL

Advanced Selection: Soil Boring:
N:\11174305.00000\DB\Program\EDMS.mdr
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[LOGDATE] >= #11/9/2005# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'SB'

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-10	SB-10	SB-11-1	SB-11-1
Sample ID		SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11
Matrix		Soil	Soil	Soil	Soil
Depth Interval (ft)		14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0
Date Sampled		11/14/05	11/14/05	11/14/05	11/14/05
Parameter	Units				
Volatile Organic Compounds					
Bromomethane	UG/KG	5 U	5 U	5 U	6 U
Carbon disulfide	UG/KG	5 U	5 U	5 U	7
Carbon tetrachloride	UG/KG	5 U	5 U	5 U	6 U
Chlorobenzene	UG/KG	5 U	5 U	5 U	6 U
Chloroethane	UG/KG	5 U	5 U	5 U	6 U
Chloroform	UG/KG	5 U	5 U	5 U	6 U
Chloromethane	UG/KG	5 U	5 U	5 U	6 U
Cyclohexane	UG/KG	5 U	5 U	5 U	6 U
Dibromochloromethane	UG/KG	5 U	5 U	5 U	6 U
Dichlorodifluoromethane	UG/KG	5 U	5 U	5 U	6 U
Ethylbenzene	UG/KG	5 U	5 U	5 U	22
Isopropylbenzene (Cumene)	UG/KG	5 U	5 U	5 U	3 J
Methyl acetate	UG/KG	5 U	5 U	5 U	6 U
Methyl ethyl ketone (2-Butanone)	UG/KG	26 U	26 U	26 U	22 J
Methyl tert-butyl ether	UG/KG	5 U	5 U	5 U	6 U
Methylcyclohexane	UG/KG	5 U	5 U	5 U	6 U
Methylene chloride	UG/KG	7 U	8 U	7 U	7 U
Styrene	UG/KG	5 U	5 U	5 U	4 J
Tetrachloroethene	UG/KG	5 U	5 U	5 U	6 U
Toluene	UG/KG	5 U	5 U	5 U	10
Trichloroethane	UG/KG	5 U	5 U	5 U	6 U
Trichloroethene	UG/KG	5 U	5 U	5 U	6 U
Trichlorofluoromethane	UG/KG	5 U	5 U	5 U	6 U

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

Checked By_AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-10	SB-10	SB-11-1	SB-11-1
Sample ID		SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11
Matrix		Soil	Soil	Soil	Soil
Depth Interval (ft)		14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0
Date Sampled		11/14/05	11/14/05	11/14/05	11/14/05
Parameter	Units				
Volatile Organic Compounds					
Vinyl chloride	UG/KG	10 U	10 U	11 U	12 U
Xylene (total)	UG/KG	16 U	16 U	16 U	60
Total BTEX	UG/KG	ND	ND	ND	114
Total Volatile Organic Compounds	UG/KG	ND	ND	ND	238
Semivolatile Organic Compounds					
1,1'-Biphenyl	UG/KG	340 U	360 U	350 U	4,000 J
2,2'-oxybis(2-Chloropropane)	UG/KG	340 U	360 U	350 U	8,100 U
2,4,5-Trichlorophenol	UG/KG	840 U	870 U	860 U	20,000 U
2,4,6-Trichlorophenol	UG/KG	340 U	360 U	350 U	8,100 U
2,4-Dichlorophenol	UG/KG	340 U	360 U	350 U	8,100 U
2,4-Dimethylphenol	UG/KG	340 U	360 U	350 U	8,100 U
2,4-Dinitrophenol	UG/KG	1,700 U	1,700 U	1,700 U	39,000 U
2,4-Dinitrotoluene	UG/KG	340 U	360 U	350 U	8,100 U
2,6-Dinitrotoluene	UG/KG	340 U	360 U	350 U	8,100 U
2-Chloronaphthalene	UG/KG	340 U	360 U	350 U	8,100 U
2-Chlorophenol	UG/KG	340 U	360 U	350 U	8,100 U
2-Methylnaphthalene	UG/KG	340 U	360 U	18 J	19,000
2-Methylphenol (o-cresol)	UG/KG	340 U	360 U	350 U	8,100 U
2-Nitroaniline	UG/KG	1,700 U	1,700 U	1,700 U	39,000 U
2-Nitrophenol	UG/KG	340 U	360 U	350 U	8,100 U
3,3'-Dichlorobenzidine	UG/KG	340 U	360 U	350 U	8,100 U
3-Nitroaniline	UG/KG	1,700 U	1,700 U	1,700 U	39,000 U
4,6-Dinitro-2-methylphenol	UG/KG	1,700 U	1,700 U	1,700 U	39,000 U

Flags assigned during chemistry validation are shown.

Made By _JL 12/29/05_

Checked By _AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-10	SB-10	SB-11-1	SB-11-1
Sample ID		SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11
Matrix		Soil	Soil	Soil	Soil
Depth Interval (ft)		14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0
Date Sampled		11/14/05	11/14/05	11/14/05	11/14/05
Parameter	Units				
Semivolatile Organic Compounds					
4-Bromophenyl-phenylether	UG/KG	340 U	360 U	350 U	8,100 U
4-Chloro-3-methylphenol	UG/KG	340 U	360 U	350 U	8,100 U
4-Chloroaniline	UG/KG	340 U	360 U	350 U	8,100 U
4-Chlorophenyl-phenylether	UG/KG	340 U	360 U	350 U	8,100 U
4-Methylphenol (p-cresol)	UG/KG	340 U	360 U	350 U	1,800 J
4-Nitroaniline	UG/KG	1,700 U	1,700 U	1,700 U	39,000 U
4-Nitrophenol	UG/KG	1,700 U	1,700 U	1,700 U	39,000 U
Acenaphthene	UG/KG	340 U	360 U	350 U	6,400 J
Acenaphthylene	UG/KG	340 U	360 U	32 J	14,000
Acetophenone	UG/KG	340 U	360 U	350 U	8,100 U
Anthracene	UG/KG	340 U	360 U	37 J	23,000
Atrazine	UG/KG	340 U	360 U	350 U	8,100 U
Benzaldehyde	UG/KG	340 U	360 U	350 U	8,100 U
Benzo(a)anthracene	UG/KG	340 U	360 U	160 J	35,000
Benzo(a)pyrene	UG/KG	340 U	360 U	180 J	22,000
Benzo(b)fluoranthene	UG/KG	340 U	360 U	220 J	28,000
Benzo(g,h,i)perylene	UG/KG	340 U	360 U	130 J	7,800 J
Benzo(k)fluoranthene	UG/KG	340 U	360 U	63 J	8,800
bis(2-Chloroethoxy)methane	UG/KG	340 U	360 U	350 U	8,100 U
bis(2-Chloroethyl)ether	UG/KG	340 U	360 U	350 U	8,100 U
bis(2-Ethylhexyl)phthalate	UG/KG	340 U	360 U	350 U	8,100 U
Butylbenzylphthalate	UG/KG	340 U	360 U	350 U	8,100 U
Caprolactam	UG/KG	340 U	360 U	350 U	8,100 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-10	SB-10	SB-11-1	SB-11-1
Sample ID		SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11
Matrix		Soil	Soil	Soil	Soil
Depth Interval (ft)		14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0
Date Sampled		11/14/05	11/14/05	11/14/05	11/14/05
Parameter	Units				
Semivolatile Organic Compounds					
Carbazole	UG/KG	340 U	360 U	36 J	8,800
Chrysene	UG/KG	340 U	360 U	180 J	31,000
Dibenzo(a,h)anthracene	UG/KG	340 U	360 U	28 J	2,500 J
Dibenzofuran	UG/KG	340 U	360 U	19 J	18,000
Diethylphthalate	UG/KG	340 U	360 U	350 U	8,100 U
Dimethylphthalate	UG/KG	340 U	360 U	350 U	8,100 U
Di-n-butylphthalate	UG/KG	340 U	360 U	350 U	8,100 U
Di-n-octylphthalate	UG/KG	340 U	360 U	350 U	8,100 U
Fluoranthene	UG/KG	340 U	360 U	370	92,000
Fluorene	UG/KG	340 U	360 U	22 J	27,000
Hexachlorobenzene	UG/KG	340 U	360 U	350 U	8,100 U
Hexachlorobutadiene	UG/KG	340 U	360 U	350 U	8,100 U
Hexachlorocyclopentadiene	UG/KG	340 U	360 U	350 U	8,100 U
Hexachloroethane	UG/KG	340 U	360 U	350 U	8,100 U
Indeno(1,2,3-cd)pyrene	UG/KG	340 U	360 U	120 J	7,900 J
Isophorone	UG/KG	340 U	360 U	350 U	8,100 U
Naphthalene	UG/KG	340 U	360 U	350 U	28,000
Nitrobenzene	UG/KG	340 U	360 U	350 U	8,100 U
N-Nitroso-di-n-propylamine	UG/KG	340 U	360 U	350 U	8,100 U
N-Nitrosodiphenylamine	UG/KG	340 U	360 U	350 U	8,100 U
Pentachlorophenol	UG/KG	1,700 U	1,700 U	1,700 U	39,000 U
Phenanthrene	UG/KG	340 U	360 U	240 J	110,000
Phenol	UG/KG	340 U	360 U	350 U	8,100 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-10	SB-10	SB-11-1	SB-11-1
Sample ID		SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11
Matrix		Soil	Soil	Soil	Soil
Depth Interval (ft)		14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0
Date Sampled		11/14/05	11/14/05	11/14/05	11/14/05
Parameter	Units				
Semivolatile Organic Compounds					
Pyrene	UG/KG	340 U	360 U	320 J	69,000
Total Polycyclic Aromatic Hydrocarbons	UG/KG	ND	ND	2,102	512,400
Total Semivolatile Organic Compounds	UG/KG	ND	ND	2,175	564,000
Metals					
Aluminum	MG/KG	7,810 J	4,310 J	5,740 J	6,340 J
Antimony	MG/KG	16.1 UJ	14.6 UJ	16.9 UJ	17.6 UJ
Arsenic	MG/KG	2.9	25.0	8.9	10.9
Barium	MG/KG	32.3 J	23.9 J	328 J	48.2 J
Beryllium	MG/KG	0.32	0.25	0.44	0.52
Cadmium	MG/KG	0.21 U	0.19 U	0.23 U	0.23 U
Calcium	MG/KG	59,400 J	120,000 J	18,300 J	75,600 J
Chromium	MG/KG	9.7	6.3	10.1	7.5
Cobalt	MG/KG	5.6	5.7	9.2	6.0
Copper	MG/KG	18.2	7.4	72.9	26.2
Iron	MG/KG	15,600 J	12,100 J	16,100 J	17,200 J
Lead	MG/KG	7.3	10.6	2,110	168
Magnesium	MG/KG	4,180	42,400	2,630	5,490
Manganese	MG/KG	808 J	334 J	265 J	484 J
Mercury	MG/KG	0.018 U	0.016 U	0.227	0.058
Nickel	MG/KG	15.0	13.9	12.0	14.3
Potassium	MG/KG	771	523	750	589
Selenium	MG/KG	4.3 U	3.9 U	4.5 U	4.7 U
Silver	MG/KG	0.54 U	0.49 U	0.56 U	0.59 U

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TABLE H-3
VALIDATED SOIL BORING SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-10	SB-10	SB-11-1	SB-11-1
Sample ID		SB10-14-16	SB10-18-20	SB11-1-6-8	SB11-1-9-11
Matrix		Soil	Soil	Soil	Soil
Depth Interval (ft)		14.0-16.0	18.0-20.0	6.0-8.0	9.0-11.0
Date Sampled		11/14/05	11/14/05	11/14/05	11/14/05
Parameter	Units				
Metals					
Sodium	MG/KG	150 U	137	497	257
Thallium	MG/KG	6.4 U	5.8 U	6.8 U	7.0 U
Vanadium	MG/KG	10.5	6.5	18.6	21.0
Zinc	MG/KG	40.9	22.8	121	64.7
Miscellaneous Parameters					
Cyanide	MG/KG	1.0 U	0.94 U	1.0 U	1.2
Cyanide, Amenable To Chlorination	MG/KG	0.92 U	1.0 U	0.99 U	1.1
Phenolics, Total Recoverable	MG/KG	4.6 U	5.4 U	4.8 U	5.4 U
Total Organic Carbon (TOC)	MG/KG	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

TABLE H-4
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		PZ-01	PZ-02	PZ-02	PZ-03	PZ-04
Sample ID		PZ-01	DUP-11-16-05	PZ-02	PZ-03	PZ-04
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/16/05	11/16/05	11/16/05	11/16/05	11/16/05
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

TABLE H-4
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		PZ-01	PZ-02	PZ-02	PZ-03	PZ-04
Sample ID		PZ-01	DUP-11-16-05	PZ-02	PZ-03	PZ-04
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/16/05	11/16/05	11/16/05	11/16/05	11/16/05
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

TABLE H-4
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		PZ-01	PZ-02	PZ-02	PZ-03	PZ-04
Sample ID		PZ-01	DUP-11-16-05	PZ-02	PZ-03	PZ-04
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/16/05	11/16/05	11/16/05	11/16/05	11/16/05
Parameter	Units		Field Duplicate (1-1)			
Volatile Organic Compounds						
Vinyl chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Total BTEX	UG/L	ND	ND	ND	ND	ND
Total Volatile Organic Compounds	UG/L	ND	ND	ND	ND	ND
Semivolatile Organic Compounds						
1,1'-Biphenyl	UG/L	10 U	9 U	9 U	10 U	10 U
2,2'-oxybis(2-Chloropropane)	UG/L	10 U	9 U	9 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	9 U	9 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	9 U	9 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	9 U	9 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	9 U	9 U	10 U	10 U
2,4-Dinitrophenol	UG/L	48 U	47 U	47 U	50 U	48 U
2,4-Dinitrotoluene	UG/L	10 U	9 U	9 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	9 U	9 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	9 U	9 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	9 U	9 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	9 U	9 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	9 U	9 U	10 U	10 U
2-Nitroaniline	UG/L	48 U	47 U	47 U	50 U	48 U
2-Nitrophenol	UG/L	10 U	9 U	9 U	10 U	10 U
3,3'-Dichlorobenzidine	UG/L	19 U	19 U	19 U	20 U	19 U
3-Nitroaniline	UG/L	48 U	47 U	47 U	50 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	48 U	47 U	47 U	50 U	48 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

TABLE H-4
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		PZ-01	PZ-02	PZ-02	PZ-03	PZ-04
Sample ID		PZ-01	DUP-11-16-05	PZ-02	PZ-03	PZ-04
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/16/05	11/16/05	11/16/05	11/16/05	11/16/05
Parameter	Units		Field Duplicate (1-1)			
Semivolatile Organic Compounds						
4-Bromophenyl-phenylether	UG/L	10 U	9 U	9 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	9 U	9 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	9 U	9 U	10 U	10 U
4-Chlorophenyl-phenylether	UG/L	10 U	9 U	9 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	9 U	9 U	10 U	10 U
4-Nitroaniline	UG/L	48 U	47 U	47 U	50 U	48 U
4-Nitrophenol	UG/L	48 U	47 U	47 U	50 U	48 U
Acenaphthene	UG/L	10 U	9 U	9 U	10 U	10 U
Acenaphthylene	UG/L	10 U	9 U	9 U	10 U	10 U
Acetophenone	UG/L	10 U	9 U	9 U	10 U	10 U
Anthracene	UG/L	10 U	9 U	9 U	10 U	10 U
Atrazine	UG/L	10 U	9 U	9 U	10 U	10 U
Benzaldehyde	UG/L	48 U	47 U	47 U	50 U	48 U
Benzo(a)anthracene	UG/L	10 U	9 U	9 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	9 U	9 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	9 U	9 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	9 U	9 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	9 U	9 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	9 U	9 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	9 U	9 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	9 U	9 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	9 U	9 U	10 U	10 U
Caprolactam	UG/L	10 U	9 U	9 U	10 U	10 U

Flags assigned during chemistry validation are shown.

Made By _JJL 12/30/05_

Checked By _AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-4
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		PZ-01	PZ-02	PZ-02	PZ-03	PZ-04
Sample ID		PZ-01	DUP-11-16-05	PZ-02	PZ-03	PZ-04
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/16/05	11/16/05	11/16/05	11/16/05	11/16/05
Parameter	Units		Field Duplicate (1-1)			
Semivolatile Organic Compounds						
Carbazole	UG/L	10 U	9 U	9 U	10 U	10 U
Chrysene	UG/L	10 U	9 U	9 U	10 U	10 U
Dibenzo(a,h)anthracene	UG/L	10 U	9 U	9 U	10 U	10 U
Dibenzofuran	UG/L	10 U	9 U	9 U	10 U	10 U
Diethylphthalate	UG/L	10 U	9 U	9 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	9 U	9 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	9 U	23 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	9 U	9 U	10 U	10 U
Fluoranthene	UG/L	10 U	9 U	9 U	10 U	10 U
Fluorene	UG/L	10 U	9 U	9 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	9 U	9 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	9 U	9 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	43 U	43 U	42 U	45 U	43 U
Hexachloroethane	UG/L	10 U	9 U	9 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	9 U	9 U	10 U	10 U
Isophorone	UG/L	10 U	9 U	9 U	10 U	10 U
Naphthalene	UG/L	10 U	9 U	9 U	10 U	10 U
Nitrobenzene	UG/L	10 U	9 U	9 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	9 U	9 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	9 U	9 U	10 U	10 U
Pentachlorophenol	UG/L	48 U	47 U	47 U	50 U	48 U
Phenanthrene	UG/L	10 U	9 U	9 U	10 U	10 U
Phenol	UG/L	10 U	9 U	9 U	10 U	10 U

Flags assigned during chemistry validation are shown.

Made By_JJL 12/30/05_

Checked By_AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-4
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		PZ-01	PZ-02	PZ-02	PZ-03	PZ-04
Sample ID		PZ-01	DUP-11-16-05	PZ-02	PZ-03	PZ-04
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/16/05	11/16/05	11/16/05	11/16/05	11/16/05
Parameter	Units		Field Duplicate (1-1)			
Semivolatile Organic Compounds						
Pyrene	UG/L	10 U	9 U	9 U	10 U	10 U
Total Polycyclic Aromatic Hydrocarbons	UG/L	ND	ND	ND	ND	ND
Total Semivolatile Organic Compounds	UG/L	ND	ND	ND	ND	ND
Metals						
Aluminum	UG/L	20.9 B	200 U	200 U	1,600	434
Antimony	UG/L	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Barium	UG/L	49.6	50.0	50.7	61.6	53.0
Beryllium	UG/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	83,400	86,800	87,500	87,200	87,400
Chromium	UG/L	0.92 B	4.0 U	4.0 U	2.8 B	1.1 B
Cobalt	UG/L	4.0 U	4.0 U	4.0 U	0.59 B	4.0 U
Copper	UG/L	0.78 B	1.7 B	1.6 B	2.7 B	1.7 B
Iron	UG/L	30.8 B	50.0 U	50.0 U	1,200	324
Lead	UG/L	5.0 U	5.0 U	5.0 U	2.0 B	5.0 U
Magnesium	UG/L	15,700	16,000	16,100	16,700	16,500
Manganese	UG/L	2.3 B	0.95 B	1.3 B	22.6	8.0
Mercury	UG/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	UG/L	10.0 U	10.0 U	10.0 U	1.6 B	10.0 U
Potassium	UG/L	1,550	1,840	1,880	2,240	1,900
Selenium	UG/L	15.0 U	15.0 U	15.0 U	15.0 U	15.0 U
Silver	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

TABLE H-4
VALIDATED GROUNDWATER SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		PZ-01	PZ-02	PZ-02	PZ-03	PZ-04
Sample ID		PZ-01	DUP-11-16-05	PZ-02	PZ-03	PZ-04
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/16/05	11/16/05	11/16/05	11/16/05	11/16/05
Parameter	Units		Field Duplicate (1-1)			
Metals						
Sodium	UG/L	56,500	67,900	68,500	61,500	64,600
Thallium	UG/L	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U
Vanadium	UG/L	5.0 U	5.0 U	5.0 U	2.9 B	0.56 B
Zinc	UG/L	1.3 B	1.1 B	1.3 B	6.3 B	2.1 B
Dissolved Metals						
Iron	UG/L	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
Miscellaneous Parameters						
Cyanide	MG/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Cyanide, Amenable To Chlorination	MG/L	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Phenolics, Total Recoverable	MG/L	R	R	R	R	R

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

TABLE H-5
VALIDATED FIELD QC SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		RB-01	RB-02	RB11-16-05	TB11-16-05
Matrix		Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-	-
Date Sampled		11/09/05	11/10/05	11/16/05	11/16/05
Parameter	Units	Rinse Blank (1-1)	Rinse Blank (1-1)	Rinse Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds					
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

TABLE H-5
VALIDATED FIELD QC SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		RB-01	RB-02	RB11-16-05	TB11-16-05
Matrix		Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-	-
Date Sampled		11/09/05	11/10/05	11/16/05	11/16/05
Parameter	Units	Rinse Blank (1-1)	Rinse Blank (1-1)	Rinse Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds					
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.1	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

TABLE H-5
VALIDATED FIELD QC SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		RB-01	RB-02	RB11-16-05	TB11-16-05
Matrix		Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-	-
Date Sampled		11/09/05	11/10/05	11/16/05	11/16/05
Parameter	Units	Rinse Blank (1-1)	Rinse Blank (1-1)	Rinse Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds					
Vinyl chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	3.0 U	3.0 U	3.0 U	3.0 U
Total BTEX	UG/L	ND	ND	ND	ND
Total Volatile Organic Compounds	UG/L	1.1	ND	ND	ND
Semivolatile Organic Compounds					
1,1'-Biphenyl	UG/L	10 U	10 U	10 U	NA
2,2'-oxybis(2-Chloropropane)	UG/L	10 U	10 U	10 U	NA
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	NA
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	NA
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	NA
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	NA
2,4-Dinitrophenol	UG/L	51 U	50 U	48 U	NA
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	NA
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	NA
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	NA
2-Chlorophenol	UG/L	10 U	10 U	10 U	NA
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	NA
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	NA
2-Nitroaniline	UG/L	51 U	50 U	48 U	NA
2-Nitrophenol	UG/L	10 U	10 U	10 U	NA
3,3'-Dichlorobenzidine	UG/L	20 U	20 U	19 U	NA
3-Nitroaniline	UG/L	51 U	50 U	48 U	NA
4,6-Dinitro-2-methylphenol	UG/L	51 U	50 U	48 U	NA

Flags assigned during chemistry validation are shown.

Made By _JJL 12/29/05_

Checked By _AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-5
VALIDATED FIELD QC SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		RB-01	RB-02	RB11-16-05	TB11-16-05
Matrix		Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-	-
Date Sampled		11/09/05	11/10/05	11/16/05	11/16/05
Parameter	Units	Rinse Blank (1-1)	Rinse Blank (1-1)	Rinse Blank (1-1)	Trip Blank (1-1)
Semivolatile Organic Compounds					
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	NA
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	NA
4-Chloroaniline	UG/L	10 U	10 U	10 U	NA
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	NA
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	NA
4-Nitroaniline	UG/L	51 U	50 U	48 U	NA
4-Nitrophenol	UG/L	51 U	50 U	48 U	NA
Acenaphthene	UG/L	10 U	0.6 J	10 U	NA
Acenaphthylene	UG/L	10 U	10 U	10 U	NA
Acetophenone	UG/L	10 U	10 U	10 U	NA
Anthracene	UG/L	10 U	10 U	10 U	NA
Atrazine	UG/L	10 U	10 U	10 U	NA
Benzaldehyde	UG/L	51 U	50 U	48 U	NA
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	NA
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	NA
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	NA
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	NA
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	NA
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	NA
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	NA
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	NA
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	NA
Caprolactam	UG/L	10 U	10 U	10 U	NA

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

Checked By_AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-5
VALIDATED FIELD QC SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		RB-01	RB-02	RB11-16-05	TB11-16-05
Matrix		Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-	-
Date Sampled		11/09/05	11/10/05	11/16/05	11/16/05
Parameter	Units	Rinse Blank (1-1)	Rinse Blank (1-1)	Rinse Blank (1-1)	Trip Blank (1-1)
Semivolatile Organic Compounds					
Carbazole	UG/L	10 U	10 U	10 U	NA
Chrysene	UG/L	10 U	10 U	10 U	NA
Dibenzo(a,h)anthracene	UG/L	10 U	10 U	10 U	NA
Dibenzofuran	UG/L	10 U	10 U	10 U	NA
Diethylphthalate	UG/L	10 U	10 U	10 U	NA
Dimethylphthalate	UG/L	10 U	10 U	10 U	NA
Di-n-butylphthalate	UG/L	10 U	10 U	2.5 J	NA
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	NA
Fluoranthene	UG/L	10 U	10 U	10 U	NA
Fluorene	UG/L	10 U	10 U	10 U	NA
Hexachlorobenzene	UG/L	10 U	10 U	10 U	NA
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	NA
Hexachlorocyclopentadiene	UG/L	46 U	44 U	43 U	NA
Hexachloroethane	UG/L	10 U	10 U	10 U	NA
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	NA
Isophorone	UG/L	10 U	10 U	10 U	NA
Naphthalene	UG/L	10 U	10 U	10 U	NA
Nitrobenzene	UG/L	10 U	10 U	10 U	NA
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	NA
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	NA
Pentachlorophenol	UG/L	51 U	50 U	48 U	NA
Phenanthrene	UG/L	10 U	10 U	10 U	NA
Phenol	UG/L	10 U	1 J	10 U	NA

Flags assigned during chemistry validation are shown.

Made By _JL 12/29/05_

Checked By _AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-5
VALIDATED FIELD QC SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		RB-01	RB-02	RB11-16-05	TB11-16-05
Matrix		Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-	-
Date Sampled		11/09/05	11/10/05	11/16/05	11/16/05
Parameter	Units	Rinse Blank (1-1)	Rinse Blank (1-1)	Rinse Blank (1-1)	Trip Blank (1-1)
Semivolatile Organic Compounds					
Pyrene	UG/L	10 U	1 J	10 U	NA
Total Polycyclic Aromatic Hydrocarbons	UG/L	ND	1.6	ND	NA
Total Semivolatile Organic Compounds	UG/L	ND	2.6	2.5	NA
Metals					
Aluminum	UG/L	200 U	200 U	200 U	NA
Antimony	UG/L	20.0 U	20.0 U	20.0 U	NA
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	NA
Barium	UG/L	2.0 U	2.0 U	2.0 U	NA
Beryllium	UG/L	2.0 U	2.0 U	2.0 U	NA
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	NA
Calcium	UG/L	500 U	500 U	12.7 B	NA
Chromium	UG/L	4.0 U	4.0 U	4.0 U	NA
Cobalt	UG/L	10.0 U	4.0 U	4.0 U	NA
Copper	UG/L	10.0 U	10.0 U	1.3 B	NA
Iron	UG/L	50.0 U	50.0 U	50.0 U	NA
Lead	UG/L	5.0 U	5.0 U	5.0 U	NA
Magnesium	UG/L	200 U	200 U	200 U	NA
Manganese	UG/L	3.0 U	3.0 U	0.16 B	NA
Mercury	UG/L	0.20 U	0.20 U	0.20 U	NA
Nickel	UG/L	10.0 U	10.0 U	10.0 U	NA
Potassium	UG/L	500 U	500 U	22.2 B	NA
Selenium	UG/L	15.0 U	15.0 U	15.0 U	NA
Silver	UG/L	3.0 U	3.0 U	3.0 U	NA

Flags assigned during chemistry validation are shown.

Made By _JJL 12/29/05_

Checked By _AMK 1/3/06_

Detection Limits shown are PQL

TABLE H-5
VALIDATED FIELD QC SAMPLE RESULTS
FORMER OFF-SITE GAS HOLDER - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		RB-01	RB-02	RB11-16-05	TB11-16-05
Matrix		Water Quality	Water Quality	Water Quality	Water Quality
Depth Interval (ft)		-	-	-	-
Date Sampled		11/09/05	11/10/05	11/16/05	11/16/05
Parameter	Units	Rinse Blank (1-1)	Rinse Blank (1-1)	Rinse Blank (1-1)	Trip Blank (1-1)
Metals					
Sodium	UG/L	1,000 U	1,000 U	1,000 U	NA
Thallium	UG/L	20.0 U	20.0 U	20.0 U	NA
Vanadium	UG/L	5.0 U	5.0 U	5.0 U	NA
Zinc	UG/L	20.0 U	20.0 U	20.0 U	NA
Dissolved Metals					
Iron	UG/L	NA	NA	12.0 B	NA
Miscellaneous Parameters					
Cyanide	MG/L	0.010 U	0.010 U	0.010 U	NA
Cyanide, Amenable To Chlorination	MG/L	0.010 U	0.010 U	0.010 U	NA
Phenolics, Total Recoverable	MG/L	0.010 U	0.010 U	0.010 U	NA
Total Organic Carbon (TOC)	MG/L	1.0 U	1.0 U	NA	NA

Flags assigned during chemistry validation are shown.

Made By_JJL 12/29/05_

Checked By_AMK 1/3/06_

Detection Limits shown are PQL

Table H-6
Summary of Natural Oxidant Demand Analyses
Former Off-Site Gas Holder - Cortland, New York
New York State Electric and Gas

Location ID	Field Sample ID	Collection Date	Low Dose (g/kg)	Medium Dose (g/kg)	High Dose (g/kg)
Soil sample 48-Hour natural oxidant demand (NOD) for low, medium, and high KMnO₄ doses					
TP-01	TP-01-5.0	11/9/2005	>3.4	15.3	25.4
TP-01	TP-00-1.0 (Field Dup of TP-01-5.0)	11/9/2005	>3.4	15.3	26.1
GB-42	GB-42 8.5'-10.5'	11/9/2005	1.6	2.7	3.4

ATTACHMENT A

LABORATORY REPORT FOR NOD ANALYSES



CARUS CHEMICAL COMPANY

Technology and Quality

Remediation Report

30 November 2005

Customer: URS
282 Delaware Avenue
Buffalo, NY 14202

Cc: M. Dings
K. Frasco
B. Veronda
P. Vella

Attention: Jim Lehen

From: E. Vlastnik

Keywords: Permanganate
Remediation
Soil

TECH # 10031

Subject: RemOx™ S ISCO Reagent Soil Oxidant Demand

Summary

The permanganate soil groundwater oxidant demand (PSOD) of the soil sample SB-07-13-15 feet for the low permanganate dose at 48 hours was determined to be 1.6 g/kg. The PSOD for the medium permanganate dose at 48 hours was determined to be 2.7 g/kg. The PSOD for the high permanganate dose at 48 hours was determined to be 3.4 g/kg.

For the soil samples TP 01-5.0 feet and TP 00-1.0 (field duplicate) the average PSOD for the low permanganate dose at 48 hours was determined to be greater than 3.4 g/kg. The average PSOD for the medium permanganate dose at 48 hours was determined to be 15.3 g/kg. The average PSOD for the high permanganate dose at 48 hours was determined to be 25.8 g/kg. These values are calculated on a mass per dry weight of soil. Due to the range of observed soil demands, a pilot study or additional site characterization prior to full-scale in-situ chemical oxidation with permanganate is recommended.

Background

Three soil samples were received from URS from the NYSEG – Cortland Project (Project No: 11174305) on November 16, 2005. The soil samples were identified as TP 01-5.0 feet, TP 00-1.0 (field duplicate), and SB-07-13-15 feet. The samples were analyzed for permanganate soil oxidant demands. The measurement of the permanganate soil/site groundwater oxidant demand is used to estimate the concentration of permanganate that will be consumed by the natural reducing agents as well as the contaminants of concern in the soil during a given time period.

Experimental

To determine the PSOD of the soil samples TP 01-5.0', TP 00-1.0, a reaction vessel for each sample was filled with 50 grams of the soil. Large rocks (>5 grams) were excluded from the analysis. A total volume of 100 mLs of deionized water and concentrated permanganate dosing solution were added for a 1:2 soil to added water ratio. The average initial permanganate concentrations were 3.4 g/kg (low dose), 16.9 g/kg (medium dose), and 33.9 g/kg (high dose) on a dry soil basis.

For the sample labeled SB-07-13-15', the soil volume was decreased from the 50 grams typically used to 10 grams due to the limited soil volume after removal of large rocks. A total volume of 20 mLs of deionized water and concentrated permanganate dosing solution were added for a 1:2 soil to added water ratio. The initial permanganate concentrations were 2.9 g/kg (low dose), 14.4 g/kg (medium dose), and 28.9 g/kg (high dose) on a dry soil basis

The reaction vessels were inverted twice per day during the 48-hour reaction time. Residual permanganate (MnO_4^-) was determined at 48 hours. The moisture content for each soil sample was determined using ASTM Method D 2216-98 and the demands were calculated on a dry weight basis.

Results

The permanganate demand is the amount of permanganate consumed in a given amount of time. It should be noted that in a soil or groundwater sample, the oxidation of any compound by permanganate is dependent on the initial dose of permanganate and the reaction time available. As the permanganate dose is increased, the reaction rate and oxidant consumption may also increase. Some compounds that are not typically oxidized by permanganate under low doses can become reactive with permanganate at higher concentrations. Therefore, increasing the permanganate dose to extreme excess could be disadvantageous to a remediation project (e.g., inefficient chemical usage, higher costs, etc.).

The 48-hour PSOD results of the soil for the low, medium, and high oxidant doses can be seen in Table 1 (dry soil basis).

Table 1: Soil 48-Hour PSOD* for the Low, Medium, and High Permanganate Doses

Sample ID Soil	Low Dose (g/kg)	Medium Dose (g/kg)	High Dose (g/kg)	Moisture (%)
TP 01-5.0'	>3.4	15.3	25.4	21.06
TP 00-1.0 (Field Duplicate)	>3.4	15.3	26.1	20.92
SB-07 – 13-15'	1.6	2.7	3.4	7.46

* All demands were calculated on a dry weight basis. To convert the demand results from a dry basis to an as received basis, multiply the dry value by 1 minus the moisture. For example, for SB-07 13-15 feet demand from the high dose is $3.4 \text{ g/kg (dry)} \times (1 - 0.0746) = 3.1 \text{ g/kg (as received)}$.

Conclusions

For this application the amount of permanganate needed will be dependent on the reaction time allowed. The soil sample SB-07 – 13-15 feet had a low demand with the 48-hour permanganate demand value of 3.4 g/kg for the high permanganate dose. The soil samples TP 01-5.0 feet and TP 00-1.0 (field duplicate) had a moderate demands with an average demand value of 25.8 g/kg. Generally, remediation sites with a soil demand of less than 35.0 g/kg at 48 hours for the high permanganate dose are favorable for in-situ chemical oxidation with permanganate (see Table 2 for additional information). A pilot study or additional site characterization is recommended to confirm laboratory results and determine the parameters for a full-scale trial.

Table 2: Correlation of Soil Groundwater Oxidant Demand Results*

PSOD (g/kg)	Rank	Comment
<15	Low	ISCO with MnO_4^- is recommended, PSOD contribution to MnO_4^- demand is low
15-35	Moderate	ISCO with MnO_4^- is recommended
35-50	Moderately High	ISCO with MnO_4^- is recommended but PSOD will contribute significantly to MnO_4^- demand. Pilot testing may help define these demands.
>50	High	Pilot testing is highly recommended to determine effective PSOD at the site.

*Dry Weight Basis

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ATTACHMENT B

**DOCUMENTATION SUPPORTING QUALIFICATION OF
DATA**

STL JOB NUMBERS A05-C888/A05-C903

NON-CONFORMANCE SUMMARY

Job#: A05-C888STL Project#: NY5A9403.3Site Name: URS NYSEG SITES- CortlandGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-C888

Sample Cooler(s) were received at the following temperature(s); 6@2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

The Method Blank VBLK39 (A5B1782206) had a hit for Methylene Chloride that was above the reporting limit. The aqueous, field generated, Quality Control samples were associated with soil samples. Therefore, all aqueous samples were analyzed as soils and evaluated using soil Quality Control Limits.

Tentatively Identified Compounds (TIC) were not detected in VBLK39 (A5B1782203) and VBLK40 (A5B1782204). However, a TIC form could not be provided for either VBLK39 or VBLK40.

The sample RB-01 had a pH of less than 2.

Initial calibration standard curve A5I0002286-1 exhibited the %RSD of the compounds 1,1-dichloroethane, Vinyl Acetate, and Methylcyclohexane as greater than 15%. However, the mean RSD of all compounds is 7.31%.

Initial calibration standard curve A5I0002287-1 exhibited the %RSD of the compounds 1,1-Dichloroethane, Vinyl Acetate, and Bromoform as greater than 15%. However, the mean RSD of all compounds is 7.44%.

GC/MS Semivolatile Data

Linear regression was used to calibrate all analytes that were greater than 15% RSD in the initial calibration A5I0002316.

The relative percent difference between the Matrix Spike TP-01-2.5 and the Matrix Spike Duplicate TP-01-2.5 exceed quality control limits for Pyrene, though all individual analyte recoveries are compliant.

Metals Data

The CCB, analyzed at (20:00), exhibited results above the detection limit for Silver. However, the samples were bracketed by compliant CCB's, therefore, no corrective action was necessary.

The recovery of sample TP-01-2.5 Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Aluminum, Iron, and Manganese. The sample result is more than four times greater than the spike added. The LCS is acceptable.

The recovery of sample TP-01-2.5 Matrix Spike and Matrix Spike Duplicate exhibited results above the quality control limits for Calcium(MS) and below the quality control limits for Antimony, Barium and Zinc(MS). Sample matrix is suspect. The RPD of sample TP-01-2.5 Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Calcium. However, the LCS was acceptable.

The recovery of sample TP-01-2.5 Post Spike exhibited results below the quality control limits for Aluminum, Barium, Iron, Lead, Magnesium, Manganese, and Zinc. However, the LCS is acceptable.

The Serial Dilution of sample TP-01-2.5 exceeded quality control limits for Aluminum, Barium, Calcium, Iron, Lead, Magnesium, Manganese, and Zinc. However, the LCS is acceptable.

Wet Chemistry Data

The LCS recovery for Total and Amenable Cyanide was above quality control limits. However, since target analytes were non-detect in the samples and the high recoveries would yield a high bias, no further corrective action was necessary.

The LCS, ERA Lot P121-205, recovery for Total Recoverable Phenolics fell outside of the quality control limits, however, the value was within the manufacturer's recommended acceptance limits. No corrective action was taken.

The requested reporting limit for Total Recoverable Phenolics is below STL's standard reporting limit. It must be noted that results reported below STL's standard reporting limit may result in false positive/false negative results, less accurate quantitation and potential misidentification at the lower concentrations. Therefore, no corrective action has been taken for any detections between the requested reporting limit and STL's standard reporting limit.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

203/1912

CHAIN OF CUSTODY RECORD

TESTS

URS

PROJECT NO.

1117#305

SITE NAME

NYSEG-CORPUS

SAMPLERS (PRINT/SIGNATURE)

LOB MURPHY / P. Murphy

DELIVERY SERVICE:

SIN
Courier

AIRBILL NO.:

—

TOTAL NO. # OF
CONTAINERS

BOTTLE TYPE AND PRESERVATIVE

LAB STL-BUFFALOCOOLER 1+2 of 2PAGE 2 of 2

REMARKS

SAMPLE TYPE

BEGINNING
DEPTH (IN FEET)ENDING
DEPTH (IN FEET)FIELD LOT NO. #
(CRPIMS)LOCATION
IDENTIFIER

DATE

TIME

COMP/
GRAB

SAMPLE ID

MATRIX

11

8oz Glass
Amber HSOY16oz P
HNO₃1 Lb
Cristal40ml vial
HCL8oz plastic
NaOH40ml vial
HCL8oz plastic
NaOH

RB-01

11/9/05

1330

G

RB-01

WQ

1

1

2

2

1

3

1

RB₁

MATRIX CODES

AA - AMBIENT AIR
SE - SEDIMENT
SH - HAZARDOUS SOLID WASTESL - SLUDGE
WP - DRINKING WATER
WW - WASTE WATERWG - GROUND WATER
SO - SOIL
DC - DRILL CUTTINGSWL - LEACHATE
GS - SOIL GAS
WC - DRILLING WATERWO - OCEAN WATER
WS - SURFACE WATER
WQ - WATER FIELD QCLH - HAZARDOUS LIQUID WASTE
LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES

TB# - TRIP BLANK
SD# - MATRIX SPIKE DUPLICATERB# - RINSE BLANK
FR# - FIELD REPLICATEN# - NORMAL ENVIRONMENTAL SAMPLE
MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)

DATE

TIME

RECEIVED BY (SIGNATURE)

DATE

TIME

SPECIAL INSTRUCTIONS

RELINQUISHED BY (SIGNATURE)

DATE

TIME

RECEIVED FOR LAB BY (SIGNATURE)

DATE

TIME

Distribution: Original accompanies shipment, copy to coordinator field files

U R S Corporation

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

TP-01-2.5L

Contract: NY04-599

Lab Code: STLBFL0

Case No.:

SAS No.:

SDG NO.: A05-C888

Matrix (soil/water): SOIL

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ- ence	Q	M
Aluminum	117055.10		132599.20		13.3	E	P
Antimony	150.00	U	750.00	U			P
Arsenic	64.65		100.00	U	100.0		P
Barium	712.13		804.65		13.0	E	P
Beryllium	4.69		10.00	U	100.0		P
Cadmium	3.93		10.00	U	100.0		P
Calcium	27251.39		30560.75		12.1	E	P
Chromium	143.24		163.60		14.2		P
Cobalt	89.21		101.40		13.7		P
Copper	229.71		252.40		9.9		P
Iron	217449.50		244370.80		12.4	E	P
Lead	700.18		793.55		13.3	E	P
Magnesium	34187.64		38527.40		12.7	E	P
Manganese	9024.09		10308.90		14.2	E	P
Nickel	195.07		219.30		12.4		P
Potassium	8261.57		9714.35		17.6		P
Selenium	15.69		200.00	U	100.0		P
Silver	5.00	U	25.00	U			P
Sodium	382.51		7000.00	U	100.0		P
Thallium	60.00	U	300.00	U			P
Vanadium	187.19		211.35		12.9		P
Zinc	1220.67		1374.65		12.6	E	P

12/13/05m

Comments:

STL BUFFALO

U R S Corporation

-10-

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Contract: NY04-599Lab Code: STLBFLO

Case No.: _____

SAS No.: _____

SDG NO.: A05-C888ICP ID Number: SUPERTRACEDate: 9/8/2005

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	EQL (ug/L)	IDL (ug/L)	M
Aluminum	308.215		100	100	P
Antimony	206.838		150	150	P
Arsenic	189.042		20	20	P
Barium	493.409		5	5	P
Beryllium	313.042		2	2	P
Cadmium	226.502		2	2	P
Calcium	317.933		500	500	P
Chromium	267.716		5	5	P
Cobalt	228.616		5	5	P
Copper	324.753		10	10	P
Iron	271.441		100	100	P
Lead	220.353		10	10	P
Magnesium	279.078		200	200	P
Manganese	257.610		2	2	P
Nickel	231.604		5	5	P
Potassium	766.491		300	300	P
Selenium	296.026		40	40	P
Silver	328.068		5	5	P
Sodium	330.232		1400	1400	P
Thallium	190.864		60	60	P
Vanadium	292.402		5	5	P
Zinc	206.200		20	20	P

Comments: _____

U R S Corporation

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

TP-01-2.5\MS

Contract: NY04-599

Lab Code: STLBFL0

Case No.:

SAS No.:

SDG NO.: A05-C888

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 84.9

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		13779.5303		12467.4805		2169.42	60.5		P
Antimony	75 - 125	16.2706	U	16.2706	U	43.39	30.7	N	P
Arsenic	75 - 125	43.2062		6.8858		43.39	83.7		P
Barium	75 - 125	104.4099		75.8486		43.39	65.8	N	P
Beryllium	75 - 125	37.2023		0.4995		43.39	84.6		P
Cadmium	75 - 125	37.4116		0.4186		43.39	85.3		P
Calcium	75 - 125	10900.6396		2902.5320		2169.42	368.7	N	P
Chromium	75 - 125	51.6637		15.2564		43.39	83.9		P
Cobalt	75 - 125	45.2161		9.5017		43.39	82.3		P
Copper	75 - 125	61.3100		24.4663		43.39	84.9		P
Iron		24216.6309		23160.4395		2169.42	48.7		P
Lead	75 - 125	113.2839		74.5758		43.39	89.2		P
Magnesium	75 - 125	5768.7290		3641.3091		2169.42	98.1		P
Manganese		871.0243		961.1514		43.39	-207.7		P
Nickel	75 - 125	57.1924		20.7768		43.39	83.9		P
Potassium	75 - 125	2679.8450		879.9357		2169.42	83.0		P
Selenium	75 - 125	37.6145		4.3388	U	43.39	86.7		P
Silver	75 - 125	9.6333		0.5424	U	10.85	88.8		P
Mercury	75 - 125	0.4724		0.1569		0.39	80.9		CV
Sodium	75 - 125	1922.0699		151.8594	U	2169.42	88.6		P
Thallium	75 - 125	37.1643		6.5083	U	43.39	85.7		P
Vanadium	75 - 125	55.7302		19.9375		43.39	82.5		P
Zinc	75 - 125	153.4203		130.0130		43.39	53.9	N	P

Comments:

STL BUFFALO

U R S Corporation

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

TP-01-2.5\SD

Contract: NY04-599

Lab Code: STLBFL0

Case No.:

SAS No.:

SDG NO.: A05-C888

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 84.9

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

MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		13851.9805		12467.4805		2189.58	63.2		P
Antimony	75 - 125	16.4219	U	16.4219	U	43.79	26.4	N	P
Arsenic	75 - 125	44.7321		6.8858		43.79	86.4		P
Barium	75 - 125	108.1588		75.8486		43.79	73.8	N	P
Beryllium	75 - 125	38.8487		0.4995		43.79	87.6		P
Cadmium	75 - 125	39.3829		0.4186		43.79	89.0		P
Calcium		4553.4409		2902.5320		2189.58	75.4		P
Chromium	75 - 125	52.6846		15.2564		43.79	85.5		P
Cobalt	75 - 125	46.5111		9.5017		43.79	84.5		P
Copper	75 - 125	61.9969		24.4663		43.79	85.7		P
Iron		24172.4805		23160.4395		2189.58	46.2		P
Lead	75 - 125	113.1083		74.5758		43.79	88.0		P
Magnesium	75 - 125	5395.2080		3641.3091		2189.58	80.1		P
Manganese		883.3157		961.1514		43.79	-177.7		P
Nickel	75 - 125	58.5921		20.7768		43.79	86.4		P
Potassium	75 - 125	2700.5430		879.9357		2189.58	83.1		P
Selenium	75 - 125	39.2329		4.3792	U	43.79	89.6		P
Silver	75 - 125	9.9681		0.5474	U	10.95	91.0		P
Mercury	75 - 125	0.4658		0.1569		0.36	85.8		CV
Sodium	75 - 125	1958.9530		153.2707	U	2189.58	89.5		P
Thallium	75 - 125	38.9494		6.5687	U	43.79	88.9		P
Vanadium	75 - 125	57.4076		19.9375		43.79	85.6		P
Zinc	75 - 125	163.6899		130.0130		43.79	76.9		P

12/15/05

Comments:



1/72
STL[®]

STL Buffalo

10 Hazelwood Drive, Suite 106
Amherst, NY 14228

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

ANALYTICAL REPORT

Job#: A05-C903

STL Project#: NY5A9403.3

Site Name: URS NYSEG SITES- Cortland

Task: NYSEG Cortland Former MGP Site Test Pit Excavation

Mr. Jim Lehn
URS Corporation
77 Goodell Street
Buffalo, NY 14203

STL Buffalo

A handwritten signature in black ink, appearing to read "Paul K. Morrow", written over a horizontal line.

Paul K. Morrow
Project Manager

12/20/2005

NON-CONFORMANCE SUMMARY

Job#: A05-C903STL Project#: NY5A9403.3Site Name: URS NYSEG SITES- CortlandGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-C903

Sample Cooler(s) were received at the following temperature(s); 6@2.0 °C

All samples were received in good condition.

Wet Chemistry Data

Total Organic Carbon was subcontracted to STL Chicago. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Total Organic Carbon may be found within the comment summary of the subcontract report.

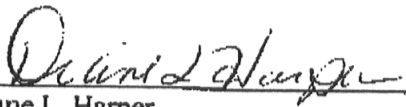
The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

STL Chicago
Wet Chemistry Case Narrative

Client: STL Amherst
Job #: 241988

Date Rec'd: 11/12/05

1. This narrative covers the analysis of the soil samples in the above Job # for **Total Organic Carbon** by the Lloyd Kahn Method. The samples were analyzed by furnace combustion and non-dispersive infrared detection on a Dohrmann Phocnix 8000 TOC analyzer, after acidification to remove inorganic carbon, and low-temperature drying. All analysis was done in duplicate with the average reported. Since the samples were dried prior to analysis, no correction was made for moisture content.
2. The method-recommended holding time of 2 weeks from collection was met.
3. The standard curve and the initial and continuing calibration verification standards were all within acceptance limits. The blanks were less than the reporting limit.
4. The LCS recoveries were within the statistical control limits of 53-140% recovery. See the Quality Control Results page and the raw data for details. Please note further that the analyst did four LCSs in the second batch. One 2 of them were averaged for reporting, but all were within the acceptance limits.
5. The matrix spikes were done on sample 1 and were within limits.


Diane L. Harper
Wet Chemistry Section Manager

11-25-05
Date

STL JOB NUMBERS A05-C927/A05-C945

NON-CONFORMANCE SUMMARY

Job#: A05-C927STL Project#: NY5A9403.3Site Name: URS NYSEG SITES- CortlandGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-C927

Sample Cooler(s) were received at the following temperature(s); 4.0 °C
All samples were received in good condition.

GC/MS Volatile Data

The analyte 1,2,4-Trichlorobenzene was detected in Method Blank VBLK85 (A5B1807802) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

Water sample RB-02 was preserved to a PH less than 2.

Initial calibration standard curve A5I0002286-1 exhibited the %RSD of the compounds 1,1-Dichloroethane, Vinyl Acetate and Methylcyclohexane as greater than 15%. However, the mean RSD of all compounds is 7.31%.

Initial calibration standard curve A5I0002282-1 exhibited the %RSD of the compounds Carbon Disulfide, Bromoform, 1,2-Dibromo-3-chloropropane and Styrene as greater than 15%. However, the mean RSD of all compounds is 8.59%.

GC/MS Semivolatile Data

All surrogate recoveries were diluted out of range in sample SB-05-11-12 DL.

12/5/05

Metals Data

The CCV, analyzed at (18:11), exhibited results below the quality control limits for Manganese. However, the samples were bracketed by compliant CCV's, therefore, no corrective action was necessary.

The analytes Potassium and Sodium was detected in the Method Blank at a level above the project established reporting limit. All samples were non-detect for this analyte, therefore, no corrective action was necessary. *Agrees* (RB-02 only)

The recovery of sample SB-06-16-18 Matrix Spike and Matrix Spike Duplicate exhibited results above the quality control limits for Aluminum and below the quality control limits for Antimony. Sample matrix is suspect. The RPD of sample SB-06-16-18 Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Antimony. However, the LCS was acceptable.

The recovery of sample SB-06-16-18 Matrix Spike and Matrix Spike Duplicate exhibited results above the quality control limits for Iron and below the quality control limits for Calcium, Magnesium, and Manganese. The sample result is more than four times greater than the spike added. The RPD of sample SB-06-16-18 Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Calcium and Magnesium. The LCS is acceptable.

The recovery of sample SB-06-16-18 Post Spike exhibited results above the quality control limits for Calcium and below the quality control limits for Iron, Magnesium, and Manganese. However, the LCS is acceptable.

The Serial Dilution of sample SB-06-16-18 exceeded quality control limits for Aluminum, Barium, Iron, Magnesium, and Manganese. However, the LCS is acceptable.

Wet Chemistry Data

The recovery of sample SB-06-16-18 Matrix Spike and Matrix Spike Duplicate exhibited results above the quality control limits for Total Cyanide. However, the LCS was acceptable.

The recovery of sample SB-06-16-18 Matrix Spike Duplicate exhibited results below the quality control limits for Amenable Cyanide. However, the LCS was acceptable.

The LCS, ERA Lot D036-541, recovery for Cyanide fell outside of the quality control limits, however, the value was within the manufacturer's recommended acceptance limits. No corrective action was taken.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

CHAIN OF CUSTODY RECORD							TESTS										URS			
PROJECT NO. <div style="font-size: 1.1em;">11174305</div>			SITE NAME <div style="font-size: 1.1em;">NYSEG - CORLEAND</div>				<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;">TEL VOAS</div> <div style="width: 15%;">TEL 5 VOAS</div> <div style="width: 15%;">TEL 5 VOAS</div> <div style="width: 15%;">TEL 5 VOAS</div> <div style="width: 15%;">TEL 5 VOAS</div> <div style="width: 15%;">TEL 5 VOAS</div> <div style="width: 15%;">TEL 5 VOAS</div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 15%;">TEL 5 VOAS</div> <div style="width: 15%;">TEL 5 VOAS</div> <div style="width: 15%;">TEL 5 VOAS</div> <div style="width: 15%;">TEL 5 VOAS</div> <div style="width: 15%;">TEL 5 VOAS</div> <div style="width: 15%;">TEL 5 VOAS</div> <div style="width: 15%;">TEL 5 VOAS</div> </div>										LAB <div style="font-size: 1.1em;">STL - BUFFALO</div>			
SAMPLERS (PRINT/SIGNATURE) <div style="font-size: 1.1em;">ROB MURPHY / R. Murphy</div>																	BOTTLE TYPE AND PRESERVATIVE			
DELIVERY SERVICE: <div style="font-size: 1.1em;">DROP OFF</div> AIRBILL NO.: <div style="font-size: 1.1em;">—</div>							<div style="display: flex; justify-content: space-between;"> <div style="width: 15%;">2oz wide glass</div> <div style="width: 15%;">16oz wide glass</div> <div style="width: 15%;">4oz glass</div> <div style="width: 15%;">wide amber</div> <div style="width: 15%;">—</div> <div style="width: 15%;">—</div> <div style="width: 15%;">—</div> </div>										PAGE <div style="font-size: 1.1em;">1</div> of <div style="font-size: 1.1em;">2</div>			
LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS											REMARKS			
SB-01	11/10/05	1135	G	SB-01-10-12	SO	3														
SB-03	11/10/05	1320	G	SB-03-15-17	SO	3											N ₁	15	17	
SB-04	11/10/05	1410	G	SB-04-12-13.5	SO	3											N ₁	12	13.5	
DUP-01	11/10/05	—	G	DUP-01	SO	3											FR ₁	—	—	
SB-05	11/10/05	1500	G	SB-05-11-12	SO	3											N ₁	11	12	
SB-05	11/10/05	1505	G	SB-05-15-16	SO	3											N ₁	15	16	
SB-06	11/11/05	1120	G	SB-06-14-16	SO	3											N ₁	14	16	
SB-06	11/11/05	1125	G	SB-06-16-18	SO	3											N ₁	16	18	
SB-06	11/11/05	1125	G	SB-06-16-18ms/mid	SO	3											N ₁	16	18	
SB-07	11/11/05	1345	G	SB-07-13-15	SO	3											N ₁	13	15	
SB-07	11/11/05	1350	G	SB-07-15-16	SO	3	N ₁	15	16											
SB-07	11/11/05	1355	G	SB-07-22-24	SO	3	N ₁	22	24											

MATRIX CODES	AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	SL - SLUDGE WP - DRINKING WATER WW - WASTE WATER	WG - GROUND WATER SO - SOIL DC - DRILL CUTTINGS	WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER	WO - OCEAN WATER WS - SURFACE WATER WQ - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE
SAMPLE TYPE CODES	TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK FR# - FIELD REPLICATE	N# - NORMAL ENVIRONMENTAL SAMPLE MS# - MATRIX SPIKE (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)			

RELINQUISHED BY (SIGNATURE) <div style="font-size: 1.1em;">R. Murphy</div>	DATE <div style="font-size: 1.1em;">11/10/05</div>	TIME <div style="font-size: 1.1em;">1010</div>	RECEIVED BY (SIGNATURE) <div style="font-size: 1.1em;">J. B.</div>	DATE <div style="font-size: 1.1em;">11-12-05</div>	TIME <div style="font-size: 1.1em;">1010</div>	SPECIAL INSTRUCTIONS <div style="font-size: 1.1em;">Any Questions contact Jim Lehen 716-856-5636</div> <div style="font-size: 1.5em; margin-top: 20px;">4.06</div>
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME	

Distribution: Original accompanies shipment, copy to coordinator field files

CHAIN OF CUSTODY RECORD

PROJECT NO.

11174305

SITE NAME

NYSRB CORTLAND

SAMPLERS (PRINT/SIGNATURE)

ROB MURPHY / R. Murphy

DELIVERY SERVICE:

Drop off

AIRBILL NO.:

TOTAL NO. # OF CONTAINERS

11

TESTS

T Phenols
Tol Metals
TL SVOCs
TOC
T CN (ME)
TL VOCs
Amen CN

BOTTLE TYPE AND PRESERVATIVE

8oz Glass Amber to Gray
16oz Plastic H₂O₂
1L Glass Amber to Gray
40ml vial HCL
8oz plastic NaOH
40ml vial HCL
8oz plastic NaOH

URS

LAB STL - BUFFALO

COOLER 1 of 1

PAGE 2 of 2

REMARKS

SAMPLE TYPE

BEGINNING DEPTH (IN FEET)

ENDING DEPTH (IN FEET)

FIELD LOT NO. # (EPIMS)

LOCATION IDENTIFIER

DATE

TIME

COMP/ GRAB

SAMPLE ID

MATRIX

RB-02

11/10/05

1050

G

RB-02

HQ

MATRIX CODES

AA - AMBIENT AIR
SE - SEDIMENT
SH - HAZARDOUS SOLID WASTE

SL - SLUDGE
WP - DRINKING WATER
WW - WASTE WATER

WG - GROUND WATER
SO - SOIL
DC - DRILL CUTTINGS

WL - LEACHATE
GS - SOIL GAS
WC - DRILLING WATER

WO - OCEAN WATER
WS - SURFACE WATER
WQ - WATER FIELD QC

LH - HAZARDOUS LIQUID WASTE
LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES

TB# - TRIP BLANK
SD# - MATRIX SPIKE DUPLICATE

RB# - RINSE BLANK
FR# - FIELD REPLICATE

N# - NORMAL ENVIRONMENTAL SAMPLE
MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)

R. Murphy

DATE

TIME

11/10/05

1010

RECEIVED BY (SIGNATURE)

J. B.

DATE

TIME

11/12/05

1010

RELINQUISHED BY (SIGNATURE)

DATE

TIME

RECEIVED FOR LAB BY (SIGNATURE)

DATE

TIME

SPECIAL INSTRUCTIONS

Any Questions contact Jim Cehnen

716-850-5636

4.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

U R S Corporation
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

SB-06-16-18\MS

Contract: NY04-599

Lab Code: STLBFLO

Case No.:

SAS No.:

SDG NO.: A05-C927

Matrix (soil/water): SOIL

Level (low/med): LOW

Solids for Sample: 91.2

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75 - 125	9146.4814		4701.0151		2248.29	197.7	N	P
Antimony	75 - 125	32.2326		16.8622	U	44.97	71.7	N	P
Arsenic	75 - 125	42.9570		3.1095		44.97	88.6		P
Barium	75 - 125	75.2244		26.6058		44.97	108.1		P
Beryllium	75 - 125	41.3427		0.3252		44.97	91.2		P
Cadmium	75 - 125	41.6192		0.2248	U	44.97	92.5		P
Calcium		34031.1484		142524.2969		2248.29	-4825.6		P
Chromium	75 - 125	50.3235		6.4299		44.97	97.6		P
Cobalt	75 - 125	46.5036		3.9267		44.97	94.7		P
Copper	75 - 125	56.8458		13.3605		44.97	96.7		P
Iron		17420.1602		10011.4404		2248.29	329.5		P
Lead	75 - 125	47.1242		4.3100		44.97	95.2		P
Magnesium		12256.3301		12083.2598		2248.29	7.7		P
Manganese		323.2682		455.9850		44.97	-295.1		P
Nickel	75 - 125	54.8583		9.9335		44.97	99.9		P
Potassium	75 - 125	2762.9690		764.0911		2248.29	88.9		P
Selenium	75 - 125	42.7366		4.4966	U	44.97	95.0		P
Silver	75 - 125	9.4199		0.5795	U	11.59	81.3		P
Mercury	75 - 125	0.3564		0.0176	U	0.35	101.8		CV
Sodium	75 - 125	2237.7520		174.7302		2248.29	91.8		P
Thallium	75 - 125	39.9667		6.7449	U	44.97	88.9		P
Vanadium	75 - 125	50.4505		6.7659		44.97	97.1		P
Zinc	75 - 125	82.3931		29.9296		44.97	116.7		P

12/2/05
m

Comments:

U R S Corporation

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

SB-06-16-18\SD

Contract: NY04-599

Lab Code: STLBFLO

Case No.:

SAS No.:

SDG NO.: A05-C927

Matrix (soil/water): SOIL

Level (low/med): LOW

Solids for Sample: 91.2

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75 - 125	10003.1904		4701.0151		2429.63	218.2	N	P
Antimony	75 - 125	28.0294		18.2222	U	48.59	57.7	N	P
Arsenic	75 - 125	46.8007		3.1095		48.59	89.9		P
Barium	75 - 125	74.7706		26.6058		48.59	99.1		P
Beryllium	75 - 125	42.8963		0.3252		48.59	87.6		P
Cadmium	75 - 125	42.9376		0.2430	U	48.59	88.4		P
Calcium		63580.8203		142524.2969		2429.63	-3249.2		P
Chromium	75 - 125	53.8308		6.4299		48.59	97.6		P
Cobalt	75 - 125	50.5472		3.9267		48.59	95.9		P
Copper	75 - 125	56.5763		13.3605		48.59	88.9		P
Iron		19685.5293		10011.4404		2429.63	398.2		P
Lead	75 - 125	50.8752		4.3100		48.59	95.8		P
Magnesium		9552.9473		12083.2598		2429.63	-104.1		P
Manganese		339.7835		455.9850		48.59	-239.1		P
Nickel	75 - 125	59.0837		9.9335		48.59	101.2		P
Potassium	75 - 125	3051.1780		764.0911		2429.63	94.1		P
Selenium	75 - 125	44.1816		4.8593	U	48.59	90.9		P
Silver	75 - 125	8.6010		0.5375	U	10.75	80.0		P
Mercury	75 - 125	0.3937		0.0199	U	0.40	98.4		CV
Sodium	75 - 125	2355.5620		174.7302		2429.63	89.8		P
Thallium	75 - 125	40.5250		7.2889	U	48.59	83.4		P
Vanadium	75 - 125	53.4020		6.7659		48.59	96.0		P
Zinc	75 - 125	84.3336		29.9296		48.59	112.0		P

12/28/05

Comments:

U R S Corporation

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

SB-06-16-18L

Contract: NY04-599

Lab Code: STLBFLO

Case No.:

SAS No.:

SDG NO.: A05-C927

Matrix (soil/water): SOIL

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ- ence	Q	M
Aluminum	43662.11		48820.30		11.8	E	P
Antimony	20.00	U	100.00	U			P
Arsenic	28.88		50.00	U	100.0		P
Barium	247.11		279.50		13.1	E	P
Beryllium	3.02		10.00	U	100.0		P
Cadmium	1.55		5.00	U	100.0		P
Calcium	2036349.00		2076665.00		2.0		P
Chromium	59.72		70.65		18.3		P
Cobalt	36.47		44.15		21.1		P
Copper	124.09		141.95		14.4		P
Iron	92984.27		111219.50		19.6	E	P
Lead	40.03		42.95		7.3		P
Magnesium	112227.00		129104.60		15.0	E	P
Manganese	4235.10		5032.20		18.8	E	P
Nickel	92.26		110.70		20.0		P
Potassium	7096.73		6636.20		6.5		P
Selenium	15.00	U	75.00	U			P
Silver	3.00	U	15.00	U			P
Sodium	1622.86		5000.00	U	100.0		P
Thallium	20.00	U	100.00	U			P
Vanadium	62.84		73.80		17.4		P
Zinc	277.98		335.65		20.7		P

12/28/05

Comments:

NON-CONFORMANCE SUMMARY

Job#: A05-C945STL Project#: NY5A9403.3Site Name: URS NYSEG SITES- CortlandGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-C945

Sample Cooler(s) were received at the following temperature(s); 4.0 °C
All samples were received in good condition.

Wet Chemistry Data

Total Organic Carbon was subcontracted to STL Chicago. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Total Organic Carbon may be found within the comment summary of the subcontract report.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

**STL**[®]

STL Chicago
2417 Bond Street
University Park, IL 60466

Tel: 708 534 5200 Fax: 708 534 5211
www.stl-inc.com

January 9, 2006

Mr. Paul Morrow
Severn Trent Laboratories
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

RE: Revised Analytical Report
Job# 242166

Dear Mr. Morrow:

The enclosed report is for the project and job number listed above. Per your request, the deliverable has been changed to a Level IV. If you have any questions, please contact me at 708-534-5200.

Sincerely,

Severn Trent Laboratories

A handwritten signature in cursive script that reads "Bonnie Stadlmann".

Bonnie Stadlmann
Project Manager

pmb

Enclosure

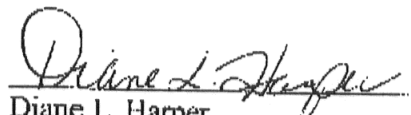
The results presented in this report relate only to the analytical testing and conditions of sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

STL Chicago
Wet Chemistry Case Narrative

Client: STL Amherst
Job #: 242166

Date Rec'd: 11/18/05

1. This narrative covers the analysis of the soil sample in the above Job # for **Total Organic Carbon** by the Lloyd Kahn Method. The sample was analyzed by furnace combustion and non-dispersive infrared detection on a Dohrmann Phoenix 8000 TOC analyzer, after acidification to remove inorganic carbon, followed by low-temperature drying. Since the sample was dried prior to analysis, no correction was made for moisture content.
2. The holding time was met.
3. The standard curve for this test is run monthly or more frequently if necessary. The initial and continuing calibration verification standards were all within acceptance limits. The blanks were less than the reporting limit.
4. The LCS recoveries were within the statistical control limits of 53-140% recovery.
5. The matrix spikes were done on an alternate sample.


Diane L. Harper
Wet Chemistry Section Manager

1-9-06
Date

STL JOB NUMBER A05-D077

NON-CONFORMANCE SUMMARY

Job#: A05-D077STL Project#: NY5A9403.3Site Name: URS NYSEG SITES- CortlandGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-D077

Sample Cooler(s) were received at the following temperature(s); 3@2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

Initial calibration standard curve A5I0002286-1 exhibited the %RSD of the compounds 1,1-Dichloroethane, Vinyl Acetate, and Methylcyclohexane as greater than 15%. However, the mean RSD of all compounds is 7.31%.

GC/MS Semivolatile Data

The analytes Di-n-butyl phthalate and Naphthalene were detected in the Method Blank A5B1792703 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

All surrogate recoveries were diluted out of range in sample SB-08-10-12 DL.

Metals Data

The recovery of sample SB-09-14-16 Matrix Spike and Matrix Spike Duplicate exhibited results above the quality control limits for Aluminum and below the quality control limits for Antimony. Sample matrix is suspect. However, the LCS was acceptable.

The recovery of sample SB-09-14-16 Matrix Spike and Matrix Spike Duplicate exhibited results above the quality control limits for Iron, Magnesium(MS), Manganese and below the quality control limits for Calcium and Magnesium(MSD). The sample result is more than four times greater than the spike added. The RPD of sample SB-09-14-16 Matrix Spike and Matrix Spike Duplicate exceeded quality control limits for Magnesium. The LCS is acceptable.

The recovery of sample SB-09-14-16 Post Spike exhibited results below the quality control limits for Calcium, Iron, Magnesium, and Manganese. However, the LCS is acceptable.

The Serial Dilution of sample SB-09-14-16 exceeded quality control limits for Barium, Calcium, Iron, and Manganese. However, the LCS is acceptable.

Wet Chemistry Data

The LCS, ERA Lot D036-541, recovery for Total and Amenable Cyanide fell outside of the quality control limits, however, the value was within the manufacturer's recommended acceptance limits. No corrective action was taken.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

CHAIN OF CUSTODY RECORD

TESTS

URS

PROJECT NO.

11174305

SITE NAME

NYSEG - CORTLAND

SAMPLERS (PRINT/SIGNATURE)

ROB MURPHY / Rob Murphy

DELIVERY SERVICE:

STL COURIER

AIRBILL NO.:

—

TOTAL NO. # OF
CONTAINERS

TLL VOAS

TLL SVAS
Phenols, TCH
Ammonia, HSE, ME

BOTTLE TYPE AND PRESERVATIVE

2oz Glass
wide None

16oz Glass
wide None

LAB STL - BUFFALO

COOLER 1 of 1

PAGE 1 of 1

REMARKS

SAMPLE TYPE

BEGINNING
DEPTH (IN FEET)

ENDING
DEPTH (IN FEET)

FIELD LOT NO. #
(ERPIMS)

LOCATION
IDENTIFIER

DATE

TIME

COMP/
GRAB

SAMPLE ID

MATRIX

SB-08

11/14/05

1025

G

SB-08-10-12

SO

3

2

1

SB-08

11/14/05

1030

G

SB-08-18-20

SO

3

2

1

SB-09

11/14/05

1235

G

SB-09-14-16

SO

3

2

1

SB-09

11/14/05

1240

G

SB-09-18-20

SO

3

2

1

SB-10

11/14/05

1425

G

SB-10-14-16

SO

3

2

1

SB-10

11/14/05

1430

G

SB-10-18-20

SO

3

2

1

SB-11

11/14/05

1615

G

SB-11-6-8

SO

3

2

1

SB-11

11/14/05

1620

G

SB-11-9-11

SO

3

2

1

N₁

10

12

N₁

18

20

N₁

14

16

N₁

18

20

N₁

14

16

N₁

18

20

N₁

6

8

N₁

9

11

MATRIX
CODES

AA - AMBIENT AIR

SE - SEDIMENT

SH - HAZARDOUS SOLID WASTE

SL - SLUDGE

WP - DRINKING WATER

WW - WASTE WATER

WG - GROUND WATER

SO - SOIL

DC - DRILL CUTTINGS

WL - LEACHATE

GS - SOIL GAS

WC - DRILLING WATER

WO - OCEAN WATER

WS - SURFACE WATER

WQ - WATER FIELD QC

LH - HAZARDOUS LIQUID WASTE

LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE
TYPE CODES

TB# - TRIP BLANK

SD# - MATRIX SPIKE DUPLICATE

RB# - RINSE BLANK

FR# - FIELD REPLICATE

N# - NORMAL ENVIRONMENTAL SAMPLE

MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)

R. Murphy

DATE

11/15/05

TIME

0900

RECEIVED BY (SIGNATURE)

R. English

DATE

11/15/05

TIME

0900

SPECIAL INSTRUCTIONS

RELINQUISHED BY (SIGNATURE)

R. English

DATE

11/15/05

TIME

1800

RECEIVED FOR LAB BY (SIGNATURE)

J. W. Smith

DATE

11/16/05

TIME

1100

30200

Distribution: Original accompanies shipment, copy to coordinator field files

METHOD 8260 - TCL VOLATILE ORGANICS
METHOD BLANK SUMMARY

140/1438

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

VBLK44

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Lab File ID: F7219.RR

Lab Sample ID: A5B1807502

Date Analyzed: 11/17/2005

Time Analyzed: 13:09

GC Column: DB-624 ID: 0.53 (mm)

Heated Purge: (Y/N) Y

Instrument ID: HP5973F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
1	MSB44	A5B1807501	F7217.RR	12:34
2	SB-08-10-12	A5D07701	F7222.RR	14:27
3	SB-08-18-20	A5D07702	F7223.RR	14:56
4	SB-09-14-16	A5D07703	F7224.RR	15:26
5	SB-09-18-20	A5D07704	F7225.RR	15:55
6	SB-10-14-16	A5D07705	F7226.RR	16:25
7	SB-10-18-20	A5D07706	F7227.RR	16:54
8	SB-11-6-8	A5D07707	F7228.RR	17:23
9	SB-11-9-11	A5D07708	F7229.RR	17:53

Comments: _____

METHOD 8260 - TCL VOLATILE ORGANICS
ANALYSIS DATA SHEET

320/1438

Client No.

VBLK44

Lab Name: STL Buffalo

Contract: 97863 US

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A5B1807502

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: F7219.RR

Level: (low/med) LOW

Date Samp/Recv: _____

% Moisture: not dec. _____ Heated Purge: Y

Date Analyzed: 11/17/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
67-64-1	Acetone		25	U
71-43-2	Benzene		5	U
75-27-4	Bromodichloromethane		5	U
75-25-2	Bromoform		5	U
74-83-9	Bromomethane		5	U
78-93-3	2-Butanone		25	U
75-15-0	Carbon Disulfide		5	U
56-23-5	Carbon Tetrachloride		5	U
108-90-7	Chlorobenzene		5	U
75-00-3	Chloroethane		5	U
67-66-3	Chloroform		5	U
74-87-3	Chloromethane		5	U
110-82-7	Cyclohexane		5	U
106-93-4	1,2-Dibromoethane		5	U
124-48-1	Dibromochloromethane		5	U
96-12-8	1,2-Dibromo-3-chloropropane		5	U
95-50-1	1,2-Dichlorobenzene		5	U
541-73-1	1,3-Dichlorobenzene		5	U
106-46-7	1,4-Dichlorobenzene		5	U
75-71-8	Dichlorodifluoromethane		5	U
75-34-3	1,1-Dichloroethane		5	U
107-06-2	1,2-Dichloroethane		5	U
75-35-4	1,1-Dichloroethene		5	U
156-59-2	cis-1,2-Dichloroethene		5	U
156-60-5	trans-1,2-Dichloroethene		5	U
78-87-5	1,2-Dichloropropane		5	U
10061-01-5	cis-1,3-Dichloropropene		5	U
10061-02-6	trans-1,3-Dichloropropene		5	U
100-41-4	Ethylbenzene		5	U
591-78-6	2-Hexanone		25	U
98-82-8	Isopropylbenzene		5	U
79-20-9	Methyl acetate		5	U
108-87-2	Methylcyclohexane		5	U
75-09-2	Methylene chloride		53	U-T

12/10/05

METHOD 8260 - TCL VOLATILE ORGANICS
ANALYSIS DATA SHEET

321/1438

Client No.

VBLK44

Lab Name: STL Buffalo Contract: 97863 US

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

Matrix: (soil/water) SOIL Lab Sample ID: A5B1807502

Sample wt/vol: 5.00 (g/mL) G Lab File ID: F7219.RR

Level: (low/med) LOW Date Samp/Recv: _____

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 11/17/2005

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

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

CONCENTRATION UNITS:

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

108-10-1-----	4-Methyl-2-pentanone	25	U
1634-04-4-----	Methyl-t-Butyl Ether (MTBE)	5	U
100-42-5-----	Styrene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
127-18-4-----	Tetrachloroethene	5	U
108-88-3-----	Toluene	5	U
120-82-1-----	1,2,4-Trichlorobenzene	5	U
71-55-6-----	1,1,1-Trichloroethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
76-13-1-----	1,1,2-Trichloro-1,2,2-trifluoroethane	5	U
75-69-4-----	Trichlorofluoromethane	5	U
79-01-6-----	Trichloroethene	5	U
108-05-4-----	Vinyl acetate	25	U
75-01-4-----	Vinyl chloride	10	U
1330-20-7-----	Total Xylenes	15	U

Data File : C:\MSDCHEM\1\DATA\111705\F7219.D

Acq On : 17 Nov 2005 13:09

Sample : VBLK44 E1

Misc :

MS Integration Params: RTEINT.P

Quant Time: Nov 17 13:28 2005

Vial: 8

Operator: JLG

Inst : HP5973 F

Multiplr: 1.00

Quant Results File: A5I02286_E1.RE

Quant Method : C:\MSDCHEM\1...\A5I02286_E1.M (RTE Integrator)

Title : 8260 SOILS ENCON

Last Update : Thu Nov 17 12:01:18 2005

Response via : Initial Calibration

DataAcq Meth : VOA

IS QA File : C:\MSDCHEM\1\DATA\111705\F7215.D (17 Nov 2005 11:43)

Internal Standards		R.T.	QIon	Response	Conc	Units	Dev (Min)
							Rcv (Ar)
1)	CI10 1,4-Difluorobenzene	4.22	114	870997	250.00	ng	0.00
							102.35%
43)	CI20 Chlorobenzene-D5	6.80	82	403236	250.00	ng	0.00
							101.92%
63)	CI30 1,4-Dichlorobenzene-	9.25	152	387338	250.00	ng	0.00
							93.49%

System Monitoring Compounds

27)	CS87 Dibromofluoromethane	3.65	111	272777	254.93	ng	0.00
	Spiked Amount	250.000	Range	70 - 130	Recovery	=	101.97%
32)	CS15 1,2-Dichloroethane-D	3.90	65	293975	219.91	ng	0.00
	Spiked Amount	250.000	Range	61 - 136	Recovery	=	87.96%
44)	CS05 Toluene-D8	5.45	98	966555	275.28	ng	0.00
	Spiked Amount	250.000	Range	71 - 125	Recovery	=	110.11%
62)	CS10 p-Bromofluorobenzene	8.01	174	294666	255.48	ng	0.00
	Spiked Amount	250.000	Range	68 - 124	Recovery	=	102.19%

Target Compounds

							Qvalue
2)	C290 Dichlorodifluorometh	0.00	85	0	N.D.		
3)	C010 Chloromethane	1.36	50	129	N.D.		
4)	C020 Vinyl chloride	0.00	62	0	N.D.		
5)	C015 Bromomethane	1.66	94	128	N.D.		
6)	C025 Chloroethane	0.00	64	0	N.D.		
7)	C275 Trichlorofluorometha	0.00	101	0	N.D.		
8)	C291 1,1,2-Trichloro-1,2,	0.00	101	0	N.D.		
9)	C045 1,1-Dichloroethene	0.00	96	0	N.D.		
10)	C030 Methylene chloride	2.48	84	10893	14.62	ng	76
11)	C040 Carbon disulfide	2.34	76	608	N.D.		
12)	C036 Acrolein	0.00	56	0	N.D.		
13)	C038 Acrylonitrile	2.62	53	988	N.D.		
14)	C035 Acetone	2.22	43	5531	N.D.		
15)	C300 Acetonitrile	2.38	41	3034	N.D.		
16)	C276 Iodomethane	0.00	142	0	N.D.		
17)	C255 Methyl Acetate	2.42	43	1032	N.D.		
18)	C962 T-butyl Methyl Ether	0.00	73	0	N.D.		
19)	C057 trans-1,2-Dichloroet	0.00	96	0	N.D.		
20)	C050 1,1-Dichloroethane	0.00	63	0	N.D.		
21)	C125 Vinyl Acetate	2.94	43	1206	N.D.		
22)	C051 2,2-Dichloropropane	0.00	77	0	N.D.		

(#)= qualifier out of range (m) = manual integration

F7219.D A5I02286_E1.M

Thu Nov 17 13:28:16 2005

HP5973P Page 1

Data File : C:\MSDCHEM\1\DATA\111705\F7219.D

Acq On : 17 Nov 2005 13:09

Sample : VBLK44 E1

Misc :

MS Integration Params: RTEINT.P

Quant Time: Nov 17 13:28 2005

Vial: 8

Operator: JLG

Inst : HP5973 F

Multiplr: 1.00

Quant Results File: A5I02286_E1.RE

Quant Method : C:\MSDCHEM\1...\A5I02286_E1.M (RTE Integrator)

Title : 8260 SOILS ENCON

Last Update : Thu Nov 17 12:01:18 2005

Response via : Initial Calibration

DataAcq Meth : VOA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
23)	C056 cis-1,2-Dichloroethe	0.00	96	0	N.D.		
24)	C272 Tetrahydrofuran	0.00	42	0	N.D.		
25)	C222 Bromochloromethane	0.00	128	0	N.D.		
26)	C060 Chloroform	0.00	83	0	N.D.		
28)	C256 Cyclohexane	3.72	56	342	N.D.		
29)	C115 1,1,1-Trichloroethan	0.00	97	0	N.D.		
30)	C120 Carbon tetrachloride	0.00	117	0	N.D.		
31)	C116 1,1-Dichloropropene	0.00	75	0	N.D.		
33)	C165 Benzene	3.96	78	1042	N.D.		
34)	C065 1,2-Dichloroethane	0.00	62	0	N.D.		
35)	C110 2-Butanone	3.32	43	2488	N.D.		
36)	C150 Trichloroethene	0.00	95	0	N.D.		
37)	C161 2-Chloroethylvinyl Et	0.00	63	0	N.D.		
38)	C012 Methylcyclohexane	0.00	83	0	N.D.		
39)	C140 1,2-Dichloropropane	0.00	63	0	N.D.		
40)	C278 Dibromomethane	0.00	93	0	N.D.		
41)	C130 Bromodichloromethane	0.00	83	0	N.D.		
42)	C145 cis-1,3-Dichloroprop	0.00	75	0	N.D.		
45)	C230 Toluene	5.51	92	2385	N.D.		
46)	C170 trans-1,3-Dichloropr	0.00	75	0	N.D.		
47)	C284 Ethyl Methacrylate	0.00	69	0	N.D.		
48)	C160 1,1,2-Trichloroethan	0.00	83	0	N.D.		
49)	C210 4-Methyl-2-pentanone	5.35	43	712	N.D.		
50)	C220 Tetrachloroethene	6.02	166	157	N.D.		
51)	C221 1,3-Dichloropropane	0.00	76	0	N.D.		
52)	C155 Dibromochloromethane	0.00	129	0	N.D.		
53)	C163 1,2-Dibromoethane	0.00	107	0	N.D.		
54)	C215 2-Hexanone	6.10	43	794	N.D.		
55)	C235 Chlorobenzene	6.83	112	1421	N.D.		
56)	C281 1,1,1,2-Tetrachloroe	0.00	131	0	N.D.		
57)	C240 Ethylbenzene	6.95	91	2132	N.D.		
58)	C246 m,p-Xylene	7.05	106	3472	N.D.		
59)	C247 o-Xylene	7.46	106	380	N.D.		
60)	C245 Styrene	0.00	104	0	N.D.		
61)	C180 Bromoform	0.00	173	0	N.D.		
64)	C966 Isopropylbenzene	8.01	105	453	N.D.		
65)	C301 Bromobenzene	0.00	156	0	N.D.		
66)	C225 1,1,2,2-Tetrachloroe	0.00	83	0	N.D.		
67)	C282 1,2,3-Trichloropropa	0.00	110	0	N.D.		
68)	C283 t-1,4-Dichloro-2-But	0.00	53	0	N.D.		
69)	C302 n-Propylbenzene	8.28	91	1247	N.D.		

(#)= qualifier out of range (m)= manual integration

F7219.D A5I02286_E1.M

Thu Nov 17 13:28:17 2005

HP5973P

Page 2

Any
12/1/05

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
METHOD BLANK SUMMARY

347/1438

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

S Blank

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Lab File ID: W06611.RR

Lab Sample ID: A5B1792703

Instrument ID: HP5973W

Date Extracted: 11/17/2005

Matrix: (soil/water) SOIL

Date Analyzed: 11/21/2005

Level: (low/med) LOW

Time Analyzed: 17:38

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	=====	=====	=====	=====
1	Matrix Spike Blank	A5B1792701	W06609.RR	11/21/2005
2	Matrix Spike Blk Dup	A5B1792702	W06610.RR	11/21/2005
3	SB-08-10-12	A5D07701	W06614.RR	11/21/2005
4	SB-08-10-12 DL	A5D07701DL	W06676.RR	11/23/2005
5	SB-08-18-20	A5D07702	W06615.RR	11/21/2005
6	SB-09-14-16	A5D07703	W06616.RR	11/21/2005
7	SB-09-18-20	A5D07704	W06617.RR	11/21/2005
8	SB-10-14-16	A5D07705	W06618.RR	11/21/2005
9	SB-10-18-20	A5D07706	W06619.RR	11/21/2005
10	SB-11-6-8	A5D07707	W06677.RR	11/23/2005
11	SB-11-9-11	A5D07708	W06621.RR	11/21/2005

Comments: _____

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

671/1438

Client No.

S Blank

Lab Name: STL Buffalo

Contract: 97863 US

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

Matrix: (soil/water) SOIL

Lab Sample ID: A5B1792703

Sample wt/vol: 30.38 (g/mL) G

Lab File ID: W06611.RR

Level: (low/med) LOW

Date Samp/Recv: _____

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 11/17/2005

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/21/2005

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

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

CONCENTRATION UNITS:

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

83-32-9-----	Acenaphthene	320	U
208-96-8-----	Acenaphthylene	320	U
98-86-2-----	Acetophenone	320	U
120-12-7-----	Anthracene	320	U
1912-24-9-----	Atrazine	320	U
100-52-7-----	Benzaldehyde	320	U
56-55-3-----	Benzo(a)anthracene	320	U
205-99-2-----	Benzo(b)fluoranthene	320	U
207-08-9-----	Benzo(k)fluoranthene	320	U
191-24-2-----	Benzo(ghi)perylene	320	U
50-32-8-----	Benzo(a)pyrene	320	U
92-52-4-----	Biphenyl	320	U
111-91-1-----	Bis(2-chloroethoxy) methane	320	U
111-44-4-----	Bis(2-chloroethyl) ether	320	U
108-60-1-----	2,2'-Oxybis(1-Chloropropane)	320	U
117-81-7-----	Bis(2-ethylhexyl) phthalate	320	U
101-55-3-----	4-Bromophenyl phenyl ether	320	U
85-68-7-----	Butyl benzyl phthalate	320	U
105-60-2-----	Caprolactam	320	U
106-47-8-----	4-Chloroaniline	320	U
59-50-7-----	4-Chloro-3-methylphenol	320	U
91-58-7-----	2-Chloronaphthalene	320	U
95-57-8-----	2-Chlorophenol	320	U
7005-72-3-----	4-Chlorophenyl phenyl ether	320	U
86-74-8-----	Carbazole	320	U
218-01-9-----	Chrysene	320	U
53-70-3-----	Dibenzo(a,h)anthracene	320	U
132-64-9-----	Dibenzofuran	320	U
84-74-2-----	Di-n-butyl phthalate	38	J
91-94-1-----	3,3'-Dichlorobenzidine	320	U
120-83-2-----	2,4-Dichlorophenol	320	U
84-66-2-----	Diethyl phthalate	320	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

672/1438

Client No.

S Blank

Lab Name: STL Buffalo

Contract: 97863 US

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

Matrix: (soil/water) SOIL

Lab Sample ID: A5B1792703

Sample wt/vol: 30.38 (g/mL) G

Lab File ID: W06611.RR

Level: (low/med) LOW

Date Samp/Recv: _____

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 11/17/2005

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/21/2005

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

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

CONCENTRATION UNITS:

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

105-67-9-----	2,4-Dimethylphenol	320	U
131-11-3-----	Dimethyl phthalate	320	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1600	U
51-28-5-----	2,4-Dinitrophenol	1600	U
121-14-2-----	2,4-Dinitrotoluene	320	U
606-20-2-----	2,6-Dinitrotoluene	320	U
117-84-0-----	Di-n-octyl phthalate	320	U
206-44-0-----	Fluoranthene	320	U
86-73-7-----	Fluorene	320	U
118-74-1-----	Hexachlorobenzene	320	U
87-68-3-----	Hexachlorobutadiene	320	U
77-47-4-----	Hexachlorocyclopentadiene	320	U
67-72-1-----	Hexachloroethane	320	U
193-39-5-----	Indeno (1,2,3-cd) pyrene	320	U
78-59-1-----	Isophorone	320	U
91-57-6-----	2-Methylnaphthalene	320	U
95-48-7-----	2-Methylphenol	320	U
106-44-5-----	4-Methylphenol	320	U
91-20-3-----	Naphthalene	18	J
88-74-4-----	2-Nitroaniline	1600	U
99-09-2-----	3-Nitroaniline	1600	U
100-01-6-----	4-Nitroaniline	1600	U
98-95-3-----	Nitrobenzene	320	U
88-75-5-----	2-Nitrophenol	320	U
100-02-7-----	4-Nitrophenol	1600	U
86-30-6-----	N-nitrosodiphenylamine	320	U
621-64-7-----	N-Nitroso-Di-n-propylamine	320	U
87-86-5-----	Pentachlorophenol	1600	U
85-01-8-----	Phenanthrene	320	U
108-95-2-----	Phenol	320	U
129-00-0-----	Pyrene	320	U
95-95-4-----	2,4,5-Trichlorophenol	790	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

673/1438

Client No.

S Blank

Lab Name: STL Buffalo Contract: 97863 US

Lab Code: RECN Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A5B1792703

Sample wt/vol: 30.38 (g/mL) G

Lab File ID: W06611.RR

Level: (low/med) LOW

Date Samp/Recv: _____

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 11/17/2005

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/21/2005

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO. COMPOUND

(ug/L or ug/Kg)

UG/KG

Q

88-06-2-----2,4,6-Trichlorophenol

320

U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
TENTATIVELY IDENTIFIED COMPOUNDS

674/1438

Client No.

S Blank

Lab Name: STL Buffalo Contract: 97863 US

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

Matrix: (soil/water) SOIL

Lab Sample ID: A5B1792703

Sample wt/vol: 30.38 (g/mL) G

Lab File ID: W06611.RR

Level: (low/med) LOW

Date Samp/Recv: _____

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 11/17/2005

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 11/21/2005

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

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

Number TICs found: 2

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

CAS NO.	Compound Name	RT	Est. Conc.	Q
1. 79-34-5	1,1,2,2-TETRACHLOROETHANE	5.50	450	JN
2. 84-64-0	1,2-BENZENEDICARBOXYLIC ACID	13.44	210	JN

U R S Corporation
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

SB-09-14-16\MS

Contract: NY04-599

Lab Code: STLBFL0

Case No.:

SAS No.:

SDG NO.: A05-D077

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 92.7

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

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum	75 - 125	9977.8174	7545.1240	1923.17	126.5	N	P
Antimony	75 - 125	19.5875	14.4238 U	38.46	50.9	N	P
Arsenic	75 - 125	37.4317	3.0622	38.46	89.4		P
Barium	75 - 125	77.4568	39.3507	38.46	99.1		P
Beryllium	75 - 125	32.0805	0.3217	38.46	82.6		P
Cadmium	75 - 125	29.5496	0.1923 U	38.46	76.8		P
Calcium		46206.0195	59211.2305	1923.17	-676.2		P
Chromium	75 - 125	40.5136	8.6578	38.46	82.8		P
Cobalt	75 - 125	36.7346	5.2403	38.46	81.9		P
Copper	75 - 125	53.1710	16.1787	38.46	96.2		P
Iron		17359.5703	14596.4404	1923.17	143.7		P
Lead	75 - 125	41.1280	5.7833	38.46	91.9		P
Magnesium		14994.7197	9168.3340	1923.17	303.0		P
Manganese		518.9983	423.1069	38.46	249.3		P
Nickel	75 - 125	47.7351	14.2635	38.46	87.0		P
Potassium	75 - 125	2498.4121	742.1004	1923.17	91.3		P
Selenium	75 - 125	32.3257	3.8463 U	38.46	84.1		P
Silver	75 - 125	8.8908	0.4808 U	9.62	92.4		P
Mercury	75 - 125	0.3295	0.0163 U	0.33	99.8		CV
Sodium	75 - 125	1820.5081	134.6222 U	1923.17	94.7		P
Thallium	75 - 125	30.9092	5.7695 U	38.46	80.4		P
Vanadium	75 - 125	43.9051	9.6930	38.46	89.0		P
Zinc	75 - 125	81.4993	41.9480	38.46	102.8		P

Comments:

U R S Corporation
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

SB-09-14-16\SD

Contract: NY04-599

Lab Code: STLBFL0

Case No.:

SAS No.:

SDG NO.: A05-D077

Matrix (soil/water):

SOIL

Level (low/med): LOW

% Solids for Sample:

92.7

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

Analyte	Control Limit	%R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum			10163.8203		7545.1240		2012.91	130.1	N	P
Antimony	75 - 125		23.2853		15.0968	U	40.26	57.8	N	P
Arsenic	75 - 125		40.4846		3.0622		40.26	93.0		P
Barium	75 - 125		78.8617		39.3507		40.26	98.1		P
Beryllium	75 - 125		35.6063		0.3217		40.26	87.6		P
Cadmium	75 - 125		33.0459		0.2013	U	40.26	82.1		P
Calcium			52083.3008		59211.2305		2012.91	-354.1		P
Chromium	75 - 125		43.8894		8.6578		40.26	87.5		P
Cobalt	75 - 125		40.1082		5.2403		40.26	86.6		P
Copper	75 - 125		55.8954		16.1787		40.26	98.7		P
Iron			18045.4805		14596.4404		2012.91	171.3		P
Lead	75 - 125		42.9887		5.7833		40.26	92.4		P
Magnesium			10237.4805		9168.3340		2012.91	53.1		P
Manganese			457.6155		423.1069		40.26	85.7		P
Nickel	75 - 125		51.1309		14.2635		40.26	91.6		P
Potassium	75 - 125		2579.9609		742.1004		2012.91	91.3		P
Selenium	75 - 125		35.9596		4.0258	U	40.26	89.3		P
Silver	75 - 125		9.6046		0.5032	U	10.06	95.5		P
Mercury	75 - 125		0.3053		0.0153	U	0.31	98.5		CV
Sodium	75 - 125		1969.9139		140.9035	U	2012.91	97.9		P
Thallium	75 - 125		34.6039		6.0387	U	40.26	86.0		P
Vanadium	75 - 125		46.9410		9.6930		40.26	92.5		P
Zinc	75 - 125		77.9458		41.9480		40.26	89.4		P

Comments:

U R S Corporation
-9-
ICP SERIAL DILUTIONS

SAMPLE NO.

SB-09-14-16L

Contract: NY04-599

Lab Code: STLBFLO

Case No.:

SAS No.:

SDG NO.: A05-D077

Matrix (soil/water): SOIL

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Differ- ence	Q	M
Aluminum	74337.78	81449.10	9.6		P
Antimony	150.00 U	750.00 U			P
Arsenic	30.17	100.00 U	100.0		P
Barium	387.70	431.95	11.4	(E)	P
Beryllium	3.17	10.00 U	100.0		P
Cadmium	2.00 U	10.00 U			P
Calcium	583374.38	671399.81	15.1	(E)	P
Chromium	85.30	96.75	13.4		P
Cobalt	51.63	56.45	9.3		P
Copper	159.40	158.55	0.5		P
Iron	143810.41	159416.50	10.9	(E)	P
Lead	56.98	65.85	15.6		P
Magnesium	90330.35	96582.55	6.9		P
Manganese	4168.63	4609.70	10.6	(E)	P
Nickel	140.53	153.70	9.4		P
Potassium	7311.49	8391.30	14.8		P
Selenium	40.00 U	200.00 U			P
Silver	5.00 U	25.00 U			P
Sodium	550.88	7000.00 U	100.0		P
Thallium	60.00 U	300.00 U			P
Vanadium	95.50	109.10	14.2		P
Zinc	413.29	467.20	13.0		P

Comments:

STL JOB NUMBER A05-D150

NON-CONFORMANCE SUMMARY

Job#: A05-D150STL Project#: NY5A9403.3Site Name: URS NYSEG SITES- CortlandGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-D150

Sample Cooler(s) were received at the following temperature(s); 4@2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

The Matrix Spike Blank MSB78 (A5B1821201) was above control limits for the analyte Trichloroethene. However, since all target analytes were non-detect in the samples and the high recovery would yield a high bias, no corrective action was done.

The spike recovery of the analytes Trichloroethene, Benzene, Toluene and Chlorobenzene in the Matrix Spike and the Matrix Spike Duplicate of sample PZ-03 exceeded quality control limits.

All samples were preserved to a pH less than 2.

Initial calibration standard curve A5I0002301-1 exhibited the %RSD of several compounds as greater than 15%. However, the mean RSD of all compounds is 11.72%.

GC/MS Semivolatile Data

Linear regression was used to calibrate analytes Hexachlorocyclopentadiene and 2,4-Dinitrophenol that were greater than 15% RSD in the initial calibration A5I0002340.

Metals Data

The recovery of sample PZ-03 Post Spike exhibited results below the quality control limits for Calcium. However, the LFB is acceptable.

Wet Chemistry Data

The recoveries of sample PZ-03 Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Total Recoverable Phenolics. However, the LCS was acceptable.

The recovery of sample PZ-03 Matrix Spike exhibited results above the quality control limits for Amenable Cyanide. However, the LCS was acceptable.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

TESTS

URS

SITE NAME
NYSEG - LOOTLAND

SAMPLERS (PRINT/SIGNATURE)

PLERS (PRINT/SIGNATURE)
ROB MURPHY / R. Murphy

DELIVERY SERVICE: DROP - off AIRBILL NO.: —

BOTTLE TYPE AND PRESERVATIVE

LAB STL-BUFFALO

COOLER 1-4 of 4

PAGE 1 of 1

REMARKS

SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. (SERIALS)
-------------	------------------------------	---------------------------	----------------------------

[illegible]

MATRIX CODES	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES	TS# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE	

RELINQUISHED BY (SIGNATURE) <i>[Signature]</i>	DATE 11/17/05	TIME 0958	RECEIVED BY (SIGNATURE) <i>[Signature]</i>	DATE 11/17/05	TIME 0958	SPECIAL INSTRUCTIONS <i>He 2.0°C</i>
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME	

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

129/926

Data File : C:\MSDCHEM\1\DATA\112805\W06742.D

Vial: 20

Acq On : 29 Nov 2005 2:00

Operator: MRF

Sample : ASD15006 AW50028432

Inst : HP5973W

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Nov 29 12:01:07 2005

Results File: 8270EQ.RES

Quant Method : C:\MSDCHEM\1\METHODS\8270EQ.M (RTE Integrator)

Title : 8270 BNA Calibration with EPC

Last Update : Mon Nov 28 17:47:48 2005

Response via : Initial Calibration

DataAcq Meth : 8270

IS QA File : C:\MSDCHEM\1\DATA\112805\W06723.D (28 Nov 2005 17:21)

Internal Standards		R.T. QIon		Response	Conc	Units	Dev(Min)
							Rcv(Ar)
27	C435 bis(2-Chloroethoxy)	0.00	93	0		N.D.	
28	C440 2,4-Dichlorophenol	0.00	162	0		N.D.	
29	C445 1,2,4-Trichlorobenz	0.00	180	0		N.D.	
30	C450 Naphthalene	8.51	128	165		N.D.	
31	C455 4-Chloroaniline	0.00	127	0		N.D.	
32	C460 Hexachlorobutadiene	0.00	225	0		N.D.	
33	C465 4-Chloro-3-methylph	0.00	107	0		N.D.	
34	C470 2-Methylnaphthalene	0.00	142	0		N.D.	
36	C510 Hexachlorocyclopent	0.00	237	0		N.D.	
37	C515 2,4,6-Trichlorophen	0.00	196	0		N.D.	
38	C520 2,4,5-Trichlorophen	0.00	196	0		N.D.	
40	C525 2-Chloronaphthalene	0.00	162	0		N.D.	
41	C530 2-Nitroaniline	0.00	65	0		N.D.	
42	C540 Acenaphthylene	0.00	152	0		N.D.	
43	C535 Dimethylphthalate	0.00	163	0		N.D.	
44	C542 2,6-Dinitrotoluene	0.00	165	0		N.D.	
45	C550 Acenaphthene	0.00	153	0		N.D.	
46	C545 3-Nitroaniline	0.00	138	0		N.D.	
47	C555 2,4-Dinitrophenol	0.00	184	0		N.D.	
48	C565 Dibenzofuran	11.32	168	172		N.D.	
49	C570 2,4-Dinitrotoluene	0.00	165	0		N.D.	
50	C560 4-Nitrophenol	0.00	109	0		N.D.	
51	C590 Fluorene	0.00	166	0		N.D.	
52	C585 4-Chlorophenyl-phen	0.00	204	0		N.D.	
53	C580 Diethylphthalate	0.00	149	0		N.D.	
54	C620 1,2-diphenylhydraz	0.00	77	0		N.D.	
55	C595 4-Nitroaniline	0.00	138	0		N.D.	
57	C610 4,6-Dinitro-2-methy	0.00	198	0		N.D.	
58	C615 n-Nitrosodiphenylam	0.00	169	0		N.D.	
60	C625 4-Bromophenyl-phen	0.00	248	0		N.D.	
61	C630 Hexachlorobenzene	0.00	284	0		N.D.	
62	C635 Pentachlorophenol	0.00	266	0		N.D.	
63	C640 Phenanthrene	0.00	178	0		N.D.	
64	C645 Anthracene	0.00	178	0		N.D.	
65	C647 carbazole	0.00	167	0		N.D.	
66	C650 Di-n-butylphthalate	13.83	149	36970	2.65	ng	99
67	C655 Fluoranthene	0.00	202	0		N.D.	
69	C715 Pyrene	14.65	202	391		N.D.	
70	C710 benzidine	0.00	184	0		N.D.	
72	C720 Butylbenzylphthalat	15.28	149	229		N.D.	
73	C725 3,3'-Dichlorobenzid	0.00	252	0		N.D.	
74	C730 Benzo[a]anthracene	15.78	228	597		N.D.	
75	C735 Chrysene	15.78	228	597		N.D.	
76	C740 bis(2-Ethylhexyl)phth	15.80	149	9335	1.09	ng	90
77	C760 Di-n-octylphthalate	16.41	149	1163		N.D.	
79	C765 Benzo[b]fluoranthene	17.08	252	1343		N.D.	
80	C770 Benzo[k]fluoranthene	0.00	252	0		N.D.	
81	C775 Benzo[a]pyrene	17.08	252	1343		N.D.	
82	C780 Indeno[1,2,3-cd]pyr	0.00	276	0		N.D.	
83	C785 Dibenz[a,h]anthracene	0.00	278	0		N.D.	
84	C790 Benzo[g,h,i]perylene	0.00	276	0		N.D.	

5000
Rinse Blank

4/10/05

2.5 ug/L

Date : 12/06/2005 15:58:14

SAMPLE DATE 11/16/2005

Rept: AN0364

Client Sample ID: PZ-03
Lab Sample ID: A5D15004PZ-03
A5D15004MSPZ-03
A5D15004SD

Analyte	Units of Measure	Sample	Concentration		Spike Amount		% Recovery			% RPD	QC LIMITS	
			Matrix Spike	Spike Duplicate	MS	MSD	MS	MSD	Avg		RPD	REC.
WET CHEMISTRY ANALYSIS												
AMENABLE CYANIDE - METHOD 9012A	MG/L	0	0.117	0.113	0.100	0.100	117 *	113	115	3	15.0	85-115
METHOD 420.1 - TOTAL RECOVERABLE PHENO	MG/L	0	0	0	0.100	0.100	0 *	0 *	0	0	20.0	60-143
TOTAL CYANIDE	UG/L	0	85.30	91.60	100.0	100.0	85	92	89	8	15.0	85-115

12/11/05

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

882/926

**DATA ASSESSMENT SUMMARY
SOIL SAMPLING AT THE FORMER OFFSITE GAS HOLDER
ASSOCIATED WITH THE HOMER
FORMER MGP SITE - CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS**

This data assessment summary addresses quality control deficiencies resulting in qualification of the data for the 10 subsurface soil samples, six surface soil samples, two field duplicate (FD) samples (one subsurface soil and one surface soil), two matrix spike/matrix spike duplicate (MS/MSD) pairs (one subsurface soil and one surface soil), and one equipment rinsate blank collected on April 26, 2006 at the Former Offsite Gas Holder associated with the Homer Former MGP Site, Cortland, New York. The samples were sent to Severn Trent Laboratories (STL, Amherst, NY) for analysis. The analytical results were reported in STL report number A06-4536.

All of the samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) by USEPA Method 8260B, polynuclear aromatic hydrocarbons (PAHs) by USEPA Method SW8270C, and total cyanide by USEPA Method SW9012A.

Data validation was limited to a review of holding times, surrogate spike recoveries, MS/MSD recoveries, internal standard (IS) recoveries, FD results, and blanks (method and rinsate). Qualification of data was made following the procedures outlined in the following USEPA region II documents:

- *Standard Operating Procedure for the Validation of Organic Data Acquired using SW-846 Method 8260B*, SOP No. HW-24, Revision 1, June 1999; and
- *Standard Operating Procedure for the Validation of Organic Data Acquired using SW-846 Method 8270C*, SOP No. HW-22, Revision 2, June 2001.

The validated analytical results are presented on Tables 1 and 2. Definitions of data qualifiers are presented at the end of this data assessment summary. Chain-of-custody (COC) records, laboratory report case narratives, and documentation supporting the qualification of data (when applicable) is provided in Attachment A. Copies of the validated laboratory data (Form 1s) are presented in Attachment B.

BTEX (USEPA Method 8260B)

No data qualifications were made, and all data are usable as reported. It should be noted that the BTEX results reported by STL for sample SB12 10-12 were inconsistent with the FD results for this sample, and with the field observations made at this location during sample collection (including visual observations and screening with photoionization detector). The laboratory reported elevated BTEX concentrations in sample SB12 10-12, but BTEX was not detected in the FD collected at this location (DUP-042606). Observations recorded during field activities also indicate that there was no contamination present. URS believes that the results reported by the laboratory for SB12 10-12 do not accurately represent the current conditions at this location, and may have resulted from the wrong sample being analyzed. Using professional judgment and the observations made during sample collection, the results reported by the laboratory for DUP-042606 are presented on Table 2 as the results for parent sample SB12 10-12. Therefore, there are no BTEX results reported on Table 2 for DUP-042606.

It is not believed that the concentrations reported by the laboratory for sample SB12 10-12 are the result of this sample mistakenly being switched with another site sample during collection or laboratory analysis. Sample identifications (IDs) were recorded on the lids of the sample collection containers, as well as on the labels affixed to the containers. No discrepancies were noted upon receipt at the laboratory, and the laboratory has confirmed that the IDs on the container lids match those on the labels. As previously indicated, it is possible that the laboratory used the wrong sample when performing the analysis of SB12 10-12. However, all other site samples were analyzed on a different day and different instrument than SB12 10-12. Therefore, it is unlikely that this sample was switched with another site sample during analysis, and it is believed that the results reported by the laboratory for the remaining site samples are representative of the current conditions at those sampling locations.

PAHs (USEPA Method 8270C)

The concentration of fluorene in samples SS-01, SS-04, SS-05, SS-06, and SS-FD-042606 was less than five times the concentration detected in the associated method blank. The results for fluorene in these samples were raised to the quantitation limit and qualified 'U'.

The concentration of dibenzofuran in sample SS-01 was less than five times the concentration detected in the associated method blank. The result for dibenzofuran in this sample was raised to the quantitation limit and qualified 'U'.

The concentration of phenanthrene in samples SS-03 was less than five times the concentration detected in the associated method blank. The result for phenanthrene in this sample was raised to the quantitation limit and qualified 'U'.

The concentration of acenaphthylene in samples SS-05 and SS-06 was less than five times the concentration detected in the associated method blank. The results for acenaphthylene in these samples were raised to the quantitation limit and qualified 'U'.

The concentration of 2-methylnaphthalene in sample SS-05 was less than five times the concentration detected in the associated method blank. The result for 2-methylnaphthalene in this sample was raised to the quantitation limit and qualified 'U'.

Total Cyanide (USEPA Method 9012A)

The recoveries of total cyanide in both the surface and subsurface soil MS/MSD analyses were below quality control limits. The results for total cyanide were qualified 'J' or 'UJ' in all surface and subsurface soil samples.

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

- U - The analyte was analyzed for, but was not detected above the reported sample quantitation 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 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.
- N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
- NJ - The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.
- B - The analyte was detected in the sample at a concentration greater than the method detection limit, but less than the quantitation limit (used for metals only).
- R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- D - The concentration reported is from a secondary dilution analysis.

N:\1174305.000\00\01\Program\EDMS.mde
Printed: 7/18/2006 1:36:14 PM
[LOGDATE] = #4/26/2006# AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 1
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-12	SB-12	SB-12	SB-13	SB-13
Sample ID		DUP-042806	SB12 10-12	SB12 14-15	SB13 10-12	13 14-15.7
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		10.0-12.0	10.0-12.0	14.0-15.0	10.0-12.0	14.0-15.7
Date Sampled		04/28/06	04/28/06	04/28/06	04/28/06	04/28/06
Parameter	Units	Field Duplicate (1-1)				
Semivolatile Organic Compounds						
Pyrene	UG/KG	810	330 J	350 U	340 U	340 U
Total Polycyclic Aromatic Hydrocarbons	UG/KG	7,687	2,928	126	323	190
Miscellaneous Parameters						
Cyanide	MG/KG	1.0 UJ	0.98 UJ	1.0 J	1.0 UJ	0.97 UJ

Flags assigned during chemistry validation are shown.

Made By_JJL 6/23/06_

Checked By_GEK 6/23/06_

Detection Limits shown are PQL

N:\11174305.00000\DB\Program\EDMS.mde
Printed: 7/18/2006 1:36:14 PM
[LOGDATE] = #4/28/2006 AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 1
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-14	SB-14	SB-15	SB-16	SB-17
Sample ID		SB14 11-12	SB14 14-15	SB15 12-14	SB16 10-12	SB17 9-11
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		11.0-12.0	14.0-15.0	12.0-14.0	10.0-12.0	9.0-11.0
Date Sampled		04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	Units					
Volatile Organic Compounds						
Benzene	UG/KG	7,500 U	2 J	5 U	34	12
Ethylbenzene	UG/KG	53,000	2 J	5 U	2 J	7
Toluene	UG/KG	14,000	8	3 J	20	11
Xylene (total)	UG/KG	640,000	28	16 U	15 J	36
Total BTEX	UG/KG	707,000	40	3	71	66
Semivolatile Organic Compounds						
2-Methylnaphthalene	UG/KG	19,000	980 J	250 J	67 J	460 J
Acenaphthene	UG/KG	4,800 J	2,000 J	140 J	38 J	210 J
Acenaphthylene	UG/KG	18,000	5,800	590	440 U	2,000 U
Anthracene	UG/KG	29,000	8,800	1,000	440 U	150 J
Benzo(a)anthracene	UG/KG	35,000	31,000	2,300	440 U	200 J
Benzo(a)pyrene	UG/KG	28,000	24,000	1,700	440 U	120 J
Benzo(b)fluoranthene	UG/KG	31,000	27,000	2,700	440 U	160 J
Benzo(g,h,i)perylene	UG/KG	13,000	12,000	800	440 U	2,000 U
Benzo(k)fluoranthene	UG/KG	10,000	10,000	2,800	440 U	100 J
Chrysene	UG/KG	27,000	22,000	2,200	440 U	150 J
Dibenzo(a,h)anthracene	UG/KG	4,900 J	4,400	310 J	440 U	2,000 U
Dibenzofuran	UG/KG	16,000	1,400 J	460	440 U	340 J
Fluoranthene	UG/KG	66,000	54,000	5,400	28 J	400 J
Fluorene	UG/KG	23,000	3,500 J	780	440 U	430 J
Indeno(1,2,3-cd)pyrene	UG/KG	14,000	12,000	840	440 U	2,000 U
Naphthalene	UG/KG	24,000	2,500 J	260 J	130 J	370 J
Phenanthrene	UG/KG	66,000	18,000	4,400	45 J	860 J

Flags assigned during chemistry validation are shown.

Made By_JJL 6/23/06_

Checked By_GEK 6/23/06_

Detection Limits shown are PQL

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[LOGDATE] = 04/25/2006 AND [MATRIX] = 'SO' AND ([SACODE] = 'N' OR [SACODE] = 'FD')

TABLE 1
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-14	SB-14	SB-15	SB-16	SB-17
Sample ID		SB14 11-12	SB14 14-15	SB15 12-14	SB16 10-12	SB17 9-11
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		11.0-12.0	14.0-15.0	12.0-14.0	10.0-12.0	9.0-11.0
Date Sampled		04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	Units					
Semivolatile Organic Compounds						
Pyrene	UG/KG	48,000	40,000	4,000	440 U	310 J
Total Polycyclic Aromatic Hydrocarbons	UG/KG	439,700	277,000	30,220	241	3,460
Miscellaneous Parameters						
Cyanide	MG/KG	1.2 UJ	0.98 UJ	1.0 UJ	1.2 UJ	4.0 J

Flags assigned during chemistry validation are shown.

Made By_JJL 6/23/06_

Checked By_GEK 6/23/06_

Detection Limits shown are PQL

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[LOGDATE] = 4/26/2006 AND [MATRIX] = 'SO' AND ([SACODE] = 'Y' OR [SACODE] = 'FD')

TABLE 1
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-17	SS-01	SS-02	SS-02	SS-03
Sample ID		SB17 12-14	SS-01	SS-02	SS-FD-042806	SS-03
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		12.0-14.0	-	-	-	-
Date Sampled		04/28/06	04/28/06	04/28/06	04/28/06	04/28/06
Parameter	Units				Field Duplicate (1-1)	
Volatile Organic Compounds						
Benzene	UG/KG	4 J	NA	NA	NA	NA
Ethylbenzene	UG/KG	6 U	NA	NA	NA	NA
Toluene	UG/KG	4 J	NA	NA	NA	NA
Xylene (total)	UG/KG	3 J	NA	NA	NA	NA
Total BTEX	UG/KG	11	NA	NA	NA	NA
Semivolatile Organic Compounds						
2-Methylnaphthalene	UG/KG	460	4,300 U	4,500 U	9,000 U	4,600 U
Acenaphthene	UG/KG	160 J	900 J	4,500 U	9,000 U	4,600 U
Acenaphthylene	UG/KG	330 J	4,300 U	4,500 U	9,000 U	4,600 U
Anthracene	UG/KG	990	2,400 J	660 J	1,300 J	290 J
Benzo(a)anthracene	UG/KG	1,000	7,400	3,000 J	5,200 J	1,900 J
Benzo(a)pyrene	UG/KG	730	6,600	2,900 J	4,600 J	1,800 J
Benzo(b)fluoranthene	UG/KG	1,100	8,800	4,200 J	6,600 J	2,100 J
Benzo(g,h,i)perylene	UG/KG	350	4,000 J	1,300 J	2,200 J	780 J
Benzo(k)fluoranthene	UG/KG	1,200	2,300 J	1,000 J	1,500 J	860 J
Chrysene	UG/KG	840	7,300	3,100 J	5,200 J	1,800 J
Dibenzo(a,h)anthracene	UG/KG	120 J	1,200 J	430 J	740 J	270 J
Dibenzofuran	UG/KG	560	4,300 U	4,500 U	9,000 U	4,600 U
Fluoranthene	UG/KG	2,400	16,000	6,800	11,000	3,200 J
Fluorene	UG/KG	900	4,300 U	4,500 U	9,000 U	4,600 U
Indeno(1,2,3-cd)pyrene	UG/KG	350	3,700 J	1,300 J	2,100 J	780 J
Naphthalene	UG/KG	460	4,300 U	4,500 U	9,000 U	4,600 U
Phenanthrene	UG/KG	3,500	11,000	2,800 J	5,400 J	4,600 U

Flags assigned during chemistry validation are shown.

Made By_JJL 6/23/06_

Checked By_GEK 6/23/06_

Detection Limits shown are PQL

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 [LOADDATE] = 04/28/2006 AND [MATRIX] = 'SO' AND ([SACODE] = 'Y' OR [SACODE] = 'FD')

TABLE 1
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID		SB-17	SS-01	SS-02	SS-02	SS-03
Sample ID		SB17 12-14	SS-01	SS-02	SS-FD-042606	SS-03
Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		12.0-14.0	-	-	-	-
Date Sampled		04/26/06	04/26/06	04/26/06	04/26/06	04/26/06
Parameter	Units				Field Duplicate (1-1)	
Semivolatile Organic Compounds						
Pyrene	UG/KG	1,800	12,000	4,900	7,800 J	2,500 J
Total Polycyclic Aromatic Hydrocarbons	UG/KG	16,230	83,600	32,390	53,640	16,280
Miscellaneous Parameters						
Cyanide	MG/KG	0.97 UJ	1.1 UJ	0.17 UJ	1.8 J	1.3 UJ

Flags assigned during chemistry validation are shown.

Made By_JJL 6/23/06_
 Checked By_GEK 6/23/06_

Detection Limits shown are PQL

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 [LOGDATE] = 04/26/2006 AND [MATRIX] = 'SQ' AND ([SACODE] = 'N' OR [SACODE] = 'Y')

TABLE 1
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID		SS-04	SS-05	SS-06
Sample ID		SS-04	SS-05	SS-06
Matrix		Soil	Soil	Soil
Depth Interval (ft)		-	-	-
Date Sampled		04/26/06	04/26/06	04/26/06
Parameter	Units			
Volatile Organic Compounds				
Benzene	UG/KG	NA	NA	NA
Ethylbenzene	UG/KG	NA	NA	NA
Toluene	UG/KG	NA	NA	NA
Xylene (total)	UG/KG	NA	NA	NA
Total BTEX	UG/KG	NA	NA	NA
Semivolatile Organic Compounds				
2-Methylnaphthalene	UG/KG	4,200 U	440 U	4,400 U
Acenaphthene	UG/KG	370 J	24 J	290 J
Acenaphthylene	UG/KG	4,200 U	440 U	4,400 U
Anthracene	UG/KG	1,200 J	64 J	880 J
Benzo(a)anthracene	UG/KG	3,600 J	280 J	3,100 J
Benzo(a)pyrene	UG/KG	3,200 J	280 J	2,800 J
Benzo(b)fluoranthene	UG/KG	4,000 J	400 J	4,000 J
Benzo(g,h,i)perylene	UG/KG	1,400 J	130 J	1,400 J
Benzo(k)fluoranthene	UG/KG	1,600 J	110 J	1,100 J
Chrysene	UG/KG	3,600 J	300 J	3,000 J
Dibenzo(a,h)anthracene	UG/KG	450 J	42 J	420 J
Dibenzofuran	UG/KG	4,200 U	440 U	4,400 U
Fluoranthene	UG/KG	8,800	620	6,900
Fluorene	UG/KG	4,200 U	440 U	4,400 U
Indeno(1,2,3-cd)pyrene	UG/KG	1,400 J	130 J	1,300 J
Naphthalene	UG/KG	4,200 U	440 U	4,400 U
Phenanthrene	UG/KG	5,600	320 J	4,300 J

Flags assigned during chemistry validation are shown.

Made By_JJL 6/23/06_

Checked By_GEK 6/23/06_

Detection Limits shown are PQL

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Printed: 7/19/2006 1:38:16 PM
[LOGDATE] = 6/26/2006 AND [MATRIX] = 'SO' AND ([SACODE] = 'Y' OR [SACODE] = 'FD')

TABLE 1
VALIDATED SOIL SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID		SS-04	SS-05	SS-06
Sample ID		SS-04	SS-05	SS-06
Matrix		Soil	Soil	Soil
Depth Interval (ft)		-	-	-
Date Sampled		04/26/06	04/26/06	04/26/06
Parameter	Units			
Semivolatile Organic Compounds				
Pyrene	UG/KG	6,100	490	5,200
Total Polycyclic Aromatic Hydrocarbons	UG/KG	41,420	3,200	34,690
Miscellaneous Parameters				
Cyanide	MG/KG	1.2 UJ	1.2 UJ	1.3 UJ

Flags assigned during chemistry validation are shown.

Made By_JJL 6/23/06_

Checked By_GEK 6/23/06_

Detection Limits shown are PQL

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Printed: 7/18/2006 1:35:16 PM
[LOGDATE] = 04/26/2006# AND [MATRIX] = 'SO' AND ([SACODE] = 'Y' OR [SACODE] = 'F')

TABLE 2
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID		FIELDQC
Sample ID		RB-042606
Matrix		Water Quality
Depth Interval (ft)		-
Date Sampled		04/26/06
Parameter	Units	Rinse Blank (1-1)
Volatile Organic Compounds		
Benzene	UG/L	5.0 U
Ethylbenzene	UG/L	5.0 U
Toluene	UG/L	5.0 U
Xylene (total)	UG/L	15 U
Total BTEX	UG/L	ND
Semivolatile Organic Compounds		
2-Methylnaphthalene	UG/L	10 U
Acenaphthene	UG/L	10 U
Acenaphthylene	UG/L	10 U
Anthracene	UG/L	10 U
Benzo(a)anthracene	UG/L	10 U
Benzo(a)pyrene	UG/L	10 U
Benzo(b)fluoranthene	UG/L	10 U
Benzo(g,h,i)perylene	UG/L	10 U
Benzo(k)fluoranthene	UG/L	10 U
Chrysene	UG/L	10 U
Dibenzo(a,h)anthracene	UG/L	10 U
Dibenzofuran	UG/L	10 U
Fluoranthene	UG/L	10 U
Fluorene	UG/L	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U
Naphthalene	UG/L	10 U
Phenanthrene	UG/L	10 U

Flags assigned during chemistry validation are shown.

Made By_JJL 6/23/06

Checked By_GEK 6/23/06

Detection Limits shown are PQL

TABLE 2
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID		FIELDQC
Sample ID		RB-042606
Matrix		Water Quality
Depth Interval (ft)		-
Date Sampled		04/26/06
Parameter	Units	Rinse Blank (1-1)
Semivolatile Organic Compounds		
Pyrene	UG/L	10 U
Total Polycyclic Aromatic Hydrocarbons	UG/L	ND
Miscellaneous Parameters		
Cyanide	MG/L	0.01 U

Flags assigned during chemistry validation are shown.

Made By_JJL 6/23/06_

Checked By_GEK 6/23/06_

Detection Limits shown are PQL

ATTACHMENT A

**CHAIN-OF-CUSTODY RECORDS, LABORATORY
REPORT CASE NARRATIVES, AND DOCUMENTATION
SUPPORTING QUALIFICATION OF DATA**

CHAIN OF CUSTODY RECORD

 PROJECT NO
 11174305

 SITE NAME
 Nth SEC - COASTLAND

 SAMPLERS (PRINT/SIGNATURE)
 ROB MURPHY / Robert Murphy

 DELIVERY SERVICE: SPZ - FEDEX AIRBILL NO.: _____

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX
SB-12	4/26/06	1005	G	SB-12-10-12	SO
SB-12	4/26/06	1015	G	SB-12-14-15	SO
SB-FD-1	4/26/06	—	G	SB-DUP-042606	SO
SB-13	4/26/06	1045	G	SB-13-10-12	SO
SB-13	4/26/06	1050	G	SB-13-14-15.7	SO
SB-13	4/26/06	1050	G	SB-13-H-15.7' MS	SO
SB-13	4/26/06	1050	G	SB-13-H-15.7' MSD	SO
SB-13	4/26/06	1050	G	SB-13-14-15.7 MS/MSD	SO
SB-14	4/26/06	1135	G	SB-H-11-12	SO
SB-14	4/26/06	1140	G	SB-14-14-15	SO
SB-15	4/26/06	1230	G	SB-15-12-14	SO
SB-16	4/26/06	1300	G	SB-16-10-12	SO
SB-17	4/26/06	1330	G	SB-17-9-11	SO

MATRIX CODES	AA - AMBIENT AIR	SE - SEDIMENT	SH - HAZARDOUS SOLID WASTE	SL - SLOGE	WP - DRINKING WATER	WG - GROUND WATER	WL - LEACHATE	WS - SOIL GAS	WC - DRILLING WATER	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE	LF - FLOATING/FREE PRODUCT ON GW TABLE
SAMPLE TYPE CODES	TBM - TRIP BLANK	SDM - MATRIX SPIKE DUPLICATE	FBM - RINSE BLANK	FRM - FIELD REPLICATE	NM - NORMAL ENVIRONMENTAL SAMPLE	NMS - MATRIX SPIKE	WS - SURFACE WATER	WG - WATER FIELD DC	WO - WATER FIELD DC	WO - WATER FIELD DC	WO - WATER FIELD DC	WO - WATER FIELD DC

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
<i>Robert Murphy</i>	4/26/06	1840	<i>[Signature]</i>	4/26/06	1940
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
<i>[Signature]</i>	4/26/06	1855	<i>[Signature]</i>	4/26/06	1945

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1063/1063M

TESTS

 BTEX
 PAHs
 202 glass
 202 glass

BOTTLE TYPE AND PRESERVATIVE

 202 glass
 202 glass

URS

 LAB SPZ
 COOLER 1 of 2
 PAGE 1 of 1

REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (CRPIMS)
	N ₁	10	12	
	N ₁	14	15	
	N ₁	—	—	
	N ₁	10	12	
	N ₁	14	15.7	
	N ₁	14	15.7	
	SP ₁	14	15.7	
	N ₁	14	15.7	
	N ₁	11	12	
	N ₁	14	15	
	N ₁	12	14	
	N ₁	10	12	
	N ₁	9	11	

SPECIAL INSTRUCTIONS

 Samples shipped once
 Contact Jim Lehnen 760-886-5836
 w/ any questions. 2.00

CHAIN OF CUSTODY RECORD

PROJECT NO.

11174305

SITE NAME

NYSE-607-607-607

SAMPLERS (PRINT/SIGNATURE)

ROB MURPHY / Dept / Wash.

DELIVERY SERVICE: STL - Fedex AIRBILL NO: 6

AIRBILL NO.:

[illegible]

MATRIX CODES	SAMPLE TYPE CODES
AA - AMBIENT AIR	WL - LEACHATE
SE - SEDIMENT	WG - GROUND WATER
SH - HAZARDOUS SOLID WASTE	WS - DRINKING WATER
	WW - WASTE WATER
	WC - DRIILL CUTTINGS
	WO - OCEAN WATER
	WS - SURFACE WATER
	WO - WATER FIELD QC
	NS# - NORMAL ENVIRONMENTAL SAMPLE
IB# - TRIP BLANK	RB# - RINSE BLANK
SU# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE
	NS# - MATRIX SPIKE
	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)
	LH - HAZARDOUS LIQUID WASTE
	LF - FLOATING/FREE PRODUCT ON GW TABLE

SPECIAL INSTRUCTIONS

Samples Shipped on ice

Conf. Tim Loh

1572

Distribution: Original accompanies shipment. copy to coordinator field files

[illegible]

NON-CONFORMANCE SUMMARY

Job#: A06-4536STL Project#: NY5A9403.3Site Name: URS NYSEG SITES- CortlandGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A06-4536

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

Initial calibration standard curve A6I0001440 exhibited a %RSD of compound Toluene as greater than 15%. However, the mean RSD of all compounds is 9.04%.

Samples SB-12 10-12 and SB-14 11-12 were analyzed using medium level techniques due to high concentrations of target analytes.

GC/MS Semivolatile Data

The analytes Acenaphthylene, Dibenzofuran, Fluorene, and Phenanthrene were detected in the Method Blank SBLK32 (A6B1817502) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The analytes Naphthalene and 2-Methylnaphthalene were detected in the Method Blank SBLK32 (A6B1817502) at a level above the project established reporting limit. All samples with the exception of sample SS-05 were non-detect for these analytes. The concentration of 2-Methylnaphthalene in sample SS-05 has been flagged accordingly. Since the concentration of 2-Methylnaphthalene was below the Estimated Quantitation Limit (EQL), no further corrective action was necessary.

All surrogate recoveries were below laboratory quality control limits in sample SB-17 10-11 due to the presence of a precipitate in the extract.

9

6/7/06

The surrogate recovery for 2,4,6-Tribromophenol was below the laboratory quality control limits for samples SB-14 11-12 and SS-06. As per the laboratory SOP, one surrogate from each fraction may be outside of control limits with no corrective action necessary.

The surrogate recoveries for 2,4,6-Tribromophenol and p-Terphenyl were below the laboratory quality control limits for samples SS-02 and SS-04. As per the laboratory SOP, one surrogate from each fraction may be outside of control limits with no corrective action necessary.

The spike recoveries for Pyrene were below the laboratory quality control limits in the Matrix Spike SS-01 and Matrix Spike Duplicate SS-01 due to elevated detections for this analyte in the parent sample SS-01. Since the Matrix Spike Blank SMSB32 (A6B1817501) recoveries were compliant, no corrective action was required.

The relative percent difference between the Matrix Spike SS-01 and the Matrix Spike Duplicate SS-01 exceeded quality control criteria for Pyrene.

Wet Chemistry Data

The recovery of sample SS-01 Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Total Cyanide. However, the LCS was acceptable.

The recovery of sample SB-13 14-15.7 Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Total Cyanide. However, the LCS was acceptable.

The relative percent difference between the Matrix Spike and Matrix Spike Duplicate exceed quality control limits for Total Cyanide on sample SB-13 14-15.7. This is due to sample matrix.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED		RECEIVED	
			DATE	TIME	DATE	TIME
A6453619	RB-042606	WATER	04/26/2006	13:50	04/27/2006	09:15
A6453601	SB-12 10-12	SOIL	04/26/2006	10:05	04/27/2006	09:15
A6453602	SB-12 14-15	SOIL	04/26/2006	10:15	04/27/2006	09:15
A6453604	SB-13 10-12	SOIL	04/26/2006	10:45	04/27/2006	09:15
A6453605	SB-13 14-15.7	SOIL	04/26/2006	10:50	04/27/2006	09:15
A6453605MS	SB-13 14-15.7	SOIL	04/26/2006	10:50	04/27/2006	09:15
A6453605SD	SB-13 14-15.7	SOIL	04/26/2006	10:50	04/27/2006	09:15
A6453606	SB-14 11-12	SOIL	04/26/2006	11:35	04/27/2006	09:15
A6453607	SB-14 14-15	SOIL	04/26/2006	11:40	04/27/2006	09:15
A6453608	SB-15 12-14	SOIL	04/26/2006	12:30	04/27/2006	09:15
A6453609	SB-16 10-12	SOIL	04/26/2006	13:00	04/27/2006	09:15
A6453611	SB-17 12-14	SOIL	04/26/2006	13:35	04/27/2006	09:15
A6453610	SB-17 9-11	SOIL	04/26/2006	13:30	04/27/2006	09:15
A6453603	SB-DUP-042606	SOIL	04/26/2006		04/27/2006	09:15
A6453612	SS-01	SOIL	04/26/2006	12:07	04/27/2006	09:15
A6453612MS	SS-01	SOIL	04/26/2006	12:07	04/27/2006	09:15
A6453612SD	SS-01	SOIL	04/26/2006	12:07	04/27/2006	09:15
A6453614	SS-02	SOIL	04/26/2006	11:48	04/27/2006	09:15
A6453615	SS-03	SOIL	04/26/2006	11:50	04/27/2006	09:15
A6453616	SS-04	SOIL	04/26/2006	12:32	04/27/2006	09:15
A6453617	SS-05	SOIL	04/26/2006	12:12	04/27/2006	09:15
A6453618	SS-06	SOIL	04/26/2006	12:21	04/27/2006	09:15
A6453613	SS-FD-042606	SOIL	04/26/2006	12:07	04/27/2006	09:15

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
METHOD BLANK SUMMARY

466/1063

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

SBLK32

Lab Code: RECN

Case No.: _____

SAS No.: _____

SDG No.: _____

Lab File ID: W09041.RR

Lab Sample ID: A6B1817502

Instrument ID: HP5973W

Date Extracted: 05/03/2006

Matrix: (soil/water) SOIL

Date Analyzed: 05/05/2006

Level: (low/med) LOW

Time Analyzed: 00:04

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	SMSB32	A6B1817501	W09089.RR	05/08/2006
2	SS-01	A6453612	W09042.RR	05/05/2006
3	SS-01	A6453612MS	W09043.RR	05/05/2006
4	SS-01	A6453612SD	W09044.RR	05/05/2006
5	SS-02	A6453614	W09046.RR	05/05/2006
6	SS-03	A6453615	W09047.RR	05/05/2006
7	SS-04	A6453616	W09048.RR	05/05/2006
8	SS-05	A6453617	W09090.RR	05/08/2006
9	SS-06	A6453618	W09091.RR	05/08/2006
10	SS-FD-042606	A6453613	W09045.RR	05/05/2006

Comments:

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

933/1063

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

SBLK32

Lab Code: RECONY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6B1817502

Sample wt/vol: 30.14 (g/mL) G

Lab File ID: W09041.RR

Level: (low/med) LOW

Date Samp/Recv: _____

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 05/03/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/05/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9	Acenaphthene	330		U
208-96-8	Acenaphthylene	60		J
120-12-7	Anthracene	330		U
56-55-3	Benzo (a) anthracene	330		U
205-99-2	Benzo (b) fluoranthene	330		U
207-08-9	Benzo (k) fluoranthene	330		U
191-24-2	Benzo (ghi) perylene	330		U
50-32-8	Benzo (a) pyrene	330		U
218-01-9	Chrysene	330		U
53-70-3	Dibenzo (a, h) anthracene	330		U
206-44-0	Fluoranthene	330		U
86-73-7	Fluorene	48		J
193-39-5	Indeno (1, 2, 3-cd) pyrene	330		U
91-57-6	2-Methylnaphthalene	490		
91-20-3	Naphthalene	3100		
85-01-8	Phenanthrene	31		J
129-00-0	Pyrene	330		U
132-64-9	Dibenzofuran	64		J

Date : 05/12/2006 14:24:56

SAMPLE DATE 04/26/2006

Rept: AN0364

Client Sample ID: SB-13 14-15.7
Lab Sample ID: A6453605

SB-13 14-15.7
A6453605MS

SB-13 14-15.7
A6453605SD

Analyte	Units of Measure	Sample	Concentration			Spike Amount		% Recovery			% RPD	QC LIMITS	
			Matrix Spike	Spike Duplicate	MS	MSD	MSD	MS	MSD	Avg		RPD	REC.
WET CHEMISTRY ANALYSIS METHOD 9012 - TOTAL CYANIDE	UG/G	0.00070	2.72	1.80	10.10	9.00		27	20	24	30	15.0	85-115

6/7/06

1028/1063

STL Buffalo

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Date : 05/12/2006 14:24:56

SAMPLE DATE 04/26/2006

Rept: AN0364

Client Sample ID: SS-01
Lab Sample ID: A6453612SS-01
A6453612MSSS-01
A6453612SD

Analyte	Units of Measure	Sample	Concentration			Spike Amount		% Recovery		% RPD	QC LIMITS	
			Matrix Spike	Spike Duplicate	MS	MSD	MSD	MS	MSD		RPD	REC.
WET CHEMISTRY ANALYSIS METHOD 9012 - TOTAL CYANIDE	UG/G	0.00880	8.48	9.82	11.60	12.20		73	80 *	9	15.0	85-115

6/7/06

1029/1063

* Indicates Result is outside QC Limits
MS = Not Calculated ND = Not Detected

STL Buffalo

ATTACHMENT B

VALIDATED LABORATORY DATA (FORM 1s)

METHOD 8260 -BTEX ONLY
ANALYSIS DATA SHEET

10/1063

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

RB-042606

Lab Code: RECN Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: A6453619

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: 01832.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: not dec. _____ Heated Purge: N

Date Analyzed: 05/03/2006

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

METHOD 8260 - BTEX
ANALYSIS DATA SHEET

11/1063

Client No.

SB-12 10-12

Lab Name: STL Buffalo

Contract: 97863 US

Lab Code: RECONY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453601

Sample wt/vol: 4.09 (g/mL) G

Lab File ID: R8956.RR

Level: (low/med) MED

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: not dec. 5 Heated Purge: N

Date Analyzed: 04/29/2006

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 4.00

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100.00 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
71-43-2-----	Benzene		350	J
100-41-4-----	Ethylbenzene		10000	
108-88-3-----	Toluene		7200	
1330-20-7-----	Total Xylenes		100000	

not used - data is
suspect

6/23/06m

METHOD 8260 - BTEX
ANALYSIS DATA SHEET

12/1063

Client No.

SB-12 14-15

Lab Name: STL Buffalo

Contract: 97863 US

Lab Code: RECNV

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453602

Sample wt/vol: 4.93 (g/mL) G

Lab File ID: Q1815.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: not dec. 5 Heated Purge: N

Date Analyzed: 05/02/2006

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
71-43-2-----	Benzene	5	U
100-41-4-----	Ethylbenzene	1	J
108-88-3-----	Toluene	3	J
1330-20-7-----	Total Xylenes	3	J

METHOD 8260 - BTEX
ANALYSIS DATA SHEET

13/1063

Client No.

SB-13 10-12

Lab Name: STL Buffalo

Contract: 97863 US

Lab Code: RECNV

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453604

Sample wt/vol: 5.05 (g/mL) G

Lab File ID: Q1817.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: not dec. 5 Heated Purge: Y

Date Analyzed: 05/02/2006

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
71-43-2-----	Benzene	5	U
100-41-4-----	Ethylbenzene	5	U
108-88-3-----	Toluene	5	U
1330-20-7-----	Total Xylenes	16	U

METHOD 8260 - BTEX
ANALYSIS DATA SHEET

14/1063

Client No.

SB-13 14-15.7

Lab Name: STL Buffalo

Contract: 97863 US

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453605

Sample wt/vol: 5.10 (g/mL) G

Lab File ID: Q1818.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: not dec. 6 Heated Purge: Y

Date Analyzed: 05/02/2006

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/KG

Q

71-43-2-----	Benzene	5	U
100-41-4-----	Ethylbenzene	5	U
108-88-3-----	Toluene	3	J
1330-20-7-----	Total Xylenes	4	J

METHOD 8260 - BTEX
ANALYSIS DATA SHEET

15/1063

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

SB-14 11-12

Lab Code: RECONY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453606

Sample wt/vol: 4.00 (g/mL) G

Lab File ID: N6430.RR

Level: (low/med) MED

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: not dec. 17 Heated Purge: N

Date Analyzed: 05/02/2006

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 50.00

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100.00 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
71-43-2-----	Benzene	7500	U
100-41-4-----	Ethylbenzene	53000	
108-88-3-----	Toluene	14000	
1330-20-7-----	Total Xylenes	640000	

METHOD 8260 - BTEX
ANALYSIS DATA SHEET

16/1063

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

SB-14 14-15

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453607

Sample wt/vol: 5.13 (g/mL) G

Lab File ID: Q1819.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: not dec. 9 Heated Purge: Y

Date Analyzed: 05/02/2006

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
71-43-2-----	Benzene	2	J
100-41-4-----	Ethylbenzene	2	J
108-88-3-----	Toluene	8	
1330-20-7-----	Total Xylenes	28	

METHOD 8260 - BTEX
ANALYSIS DATA SHEET

17/1063

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

SB-15 12-14

Lab Code: RECONY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453608

Sample wt/vol: 5.12 (g/mL) G

Lab File ID: Q1820.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: not dec. 7 Heated Purge: Y

Date Analyzed: 05/02/2006

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/KG

Q

71-43-2-----Benzene	5	U
100-41-4-----Ethylbenzene	5	U
108-88-3-----Toluene	3	J
1330-20-7-----Total Xylenes	16	U

METHOD 8260 - BTEX
ANALYSIS DATA SHEET

18/1063

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

SB-16 10-12

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453609

Sample wt/vol: 4.98 (g/mL) G

Lab File ID: Q1821.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: not dec. 15 Heated Purge: Y

Date Analyzed: 05/02/2006

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/KG

Q

71-43-2-----	Benzene	34	
100-41-4-----	Ethylbenzene	2	J
108-88-3-----	Toluene	20	
1330-20-7-----	Total Xylenes	15	J

METHOD 8260 - BTEX
ANALYSIS DATA SHEET

19/1063

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

SB-17 12-14

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453611

Sample wt/vol: 5.04 (g/mL) G

Lab File ID: Q1823.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: not dec. 12 Heated Purge: Y

Date Analyzed: 05/02/2006

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/KG

Q

71-43-2-----	Benzene	4	J
100-41-4-----	Ethylbenzene	6	U
108-88-3-----	Toluene	4	U
1330-20-7-----	Total Xylenes	3	U

METHOD 8260 - BTEX
ANALYSIS DATA SHEET

20/1063

Client No.

SB-17 9-11

Lab Name: STL Buffalo

Contract: 97863 US

Lab Code: RECONY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453610

Sample wt/vol: 5.07 (g/mL) G

Lab File ID: Q1822.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: not dec. 19 Heated Purge: Y

Date Analyzed: 05/02/2006

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
71-43-2-----	Benzene		12	
100-41-4-----	Ethylbenzene		7	
108-88-3-----	Toluene		11	
1330-20-7-----	Total Xylenes		36	

METHOD 8260 - BTEX
ANALYSIS DATA SHEET

21/1063

6/23/06
m

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

~~SB-DUP-042606~~

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

SB/2 10-12

Matrix: (soil/water) SOIL

Lab Sample ID: A6453603

Sample wt/vol: 5.03 (g/mL) G

Lab File ID: Q1816.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: not dec. 4 Heated Purge: Y

Date Analyzed: 05/02/2006

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

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

UG/KG

Q

71-43-2-----	Benzene	5	U
100-41-4-----	Ethylbenzene	5	U
108-88-3-----	Toluene	5	U
1330-20-7-----	Total Xylenes	15	U

METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

22/1063

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

RB-042606

Lab Code: RECNV

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: A6453619

Sample wt/vol: 1030.0 (g/mL) ML

Lab File ID: V14448.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 05/01/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/03/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
83-32-9-----	Acenaphthene	10	U
208-96-8-----	Acenaphthylene	10	U
120-12-7-----	Anthracene	10	U
56-55-3-----	Benzo (a) anthracene	10	U
205-99-2-----	Benzo (b) fluoranthene	10	U
207-08-9-----	Benzo (k) fluoranthene	10	U
191-24-2-----	Benzo (ghi) perylene	10	U
50-32-8-----	Benzo (a) pyrene	10	U
218-01-9-----	Chrysene	10	U
53-70-3-----	Dibenzo (a, h) anthracene	10	U
206-44-0-----	Fluoranthene	10	U
86-73-7-----	Fluorene	10	U
193-39-5-----	Indeno (1,2,3-cd) pyrene	10	U
91-57-6-----	2-Methylnaphthalene	10	U
91-20-3-----	Naphthalene	10	U
85-01-8-----	Phenanthrene	10	U
129-00-0-----	Pyrene	10	U
132-64-9-----	Dibenzofuran	10	U

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

23/1063

Client No.

SB-12 10-12

Lab Name: STL Buffalo

Contract: 97863 US

Lab Code: RECONY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453601

Sample wt/vol: 30.12 (g/mL) G

Lab File ID: W08958.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: 5 decanted: (Y/N) N

Date Extracted: 04/28/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/01/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
83-32-9-----	Acenaphthene	340	U
208-96-8-----	Acenaphthylene	120	J
120-12-7-----	Anthracene	34	J
56-55-3-----	Benzo(a)anthracene	180	J
205-99-2-----	Benzo(b)fluoranthene	350	
207-08-9-----	Benzo(k)fluoranthene	120	J
191-24-2-----	Benzo(ghi)perylene	380	
50-32-8-----	Benzo(a)pyrene	240	J
218-01-9-----	Chrysene	230	J
53-70-3-----	Dibenzo(a,h)anthracene	80	J
206-44-0-----	Fluoranthene	400	
86-73-7-----	Fluorene	340	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	290	J
91-57-6-----	2-Methylnaphthalene	340	U
91-20-3-----	Naphthalene	24	J
85-01-8-----	Phenanthrene	150	J
129-00-0-----	Pyrene	330	J
132-64-9-----	Dibenzofuran	340	U

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

24/1063

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

SB-12 14-15

Lab Code: RECNV

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453602

Sample wt/vol: 30.27 (g/mL) G

Lab File ID: W08959.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: 7 decanted: (Y/N) N

Date Extracted: 04/28/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/01/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/KG	Q
83-32-9-----	Acenaphthene		350	U
208-96-8-----	Acenaphthylene		350	U
120-12-7-----	Anthracene		350	U
56-55-3-----	Benzo (a) anthracene		350	U
205-99-2-----	Benzo (b) fluoranthene		31	U
207-08-9-----	Benzo (k) fluoranthene		350	J
191-24-2-----	Benzo (ghi) perylene		42	J
50-32-8-----	Benzo (a) pyrene		350	U
218-01-9-----	Chrysene		350	U
53-70-3-----	Dibenzo (a, h) anthracene		350	U
206-44-0-----	Fluoranthene		21	J
86-73-7-----	Fluorene		350	U
193-39-5-----	Indeno (1, 2, 3-cd) pyrene		32	J
91-57-6-----	2-Methylnaphthalene		22	J
91-20-3-----	Naphthalene		350	U
85-01-8-----	Phenanthrene		350	U
129-00-0-----	Pyrene		350	U
132-64-9-----	Dibenzofuran		350	U

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

25/1063

Client No.

SB-13 10-12

Lab Name: STL Buffalo Contract: 97863 US

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

Matrix: (soil/water) SOIL Lab Sample ID: A6453604

Sample wt/vol: 30.33 (g/mL) G Lab File ID: W08968.RR

Level: (low/med) LOW Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: 5 decanted: (Y/N) N Date Extracted: 04/28/2006

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/02/2006

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

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

CAS NO.	COMPOUND	UG/KG	Q
83-32-9-----	Acenaphthene	71	J
208-96-8-----	Acenaphthylene	340	U
120-12-7-----	Anthracene	340	U
56-55-3-----	Benzo (a) anthracene	340	U
205-99-2-----	Benzo (b) fluoranthene	340	U
207-08-9-----	Benzo (k) fluoranthene	340	U
191-24-2-----	Benzo (ghi) perylene	340	U
50-32-8-----	Benzo (a) pyrene	340	U
218-01-9-----	Chrysene	340	U
53-70-3-----	Dibenzo (a, h) anthracene	340	U
206-44-0-----	Fluoranthene	340	U
86-73-7-----	Fluorene	340	U
193-39-5-----	Indeno (1,2,3-cd) pyrene	340	U
91-57-6-----	2-Methylnaphthalene	98	J
91-20-3-----	Naphthalene	180	J
85-01-8-----	Phenanthrene	72	J
129-00-0-----	Pyrene	340	U
132-64-9-----	Dibenzofuran	340	U

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

26/1063

Client No.

SB-13 14-15.7

Lab Name: STL Buffalo

Contract: 97863 US

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453605

Sample wt/vol: 30.70 (g/mL) G

Lab File ID: W08970.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: 5 decanted: (Y/N) N

Date Extracted: 04/28/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/02/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
83-32-9-----	Acenaphthene	36	J
208-96-8-----	Acenaphthylene	340	U
120-12-7-----	Anthracene	340	U
56-55-3-----	Benzo (a) anthracene	340	U
205-99-2-----	Benzo (b) fluoranthene	340	U
207-08-9-----	Benzo (k) fluoranthene	340	U
191-24-2-----	Benzo (ghi) perylene	340	U
50-32-8-----	Benzo (a) pyrene	340	U
218-01-9-----	Chrysene	340	U
53-70-3-----	Dibenzo (a, h) anthracene	340	U
206-44-0-----	Fluoranthene	340	U
86-73-7-----	Fluorene	340	U
193-39-5-----	Indeno (1, 2, 3-cd) pyrene	340	U
91-57-6-----	2-Methylnaphthalene	60	J
91-20-3-----	Naphthalene	110	J
85-01-8-----	Phenanthrene	44	J
129-00-0-----	Pyrene	340	U
132-64-9-----	Dibenzofuran	20	J

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

27/1063

Client No.

SB-14 11-12

Lab Name: STL Buffalo

Contract: 97863 US

Lab Code: RECONY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453606

Sample wt/vol: 30.36 (g/mL) G

Lab File ID: W08972.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 04/28/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/02/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 20.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9-----	Acenaphthene	4800		J
208-96-8-----	Acenaphthylene	18000		
120-12-7-----	Anthracene	29000		
56-55-3-----	Benzo (a) anthracene	35000		
205-99-2-----	Benzo (b) fluoranthene	31000		
207-08-9-----	Benzo (k) fluoranthene	10000		
191-24-2-----	Benzo (ghi) perylene	13000		
50-32-8-----	Benzo (a) pyrene	28000		
218-01-9-----	Chrysene	27000		
53-70-3-----	Dibenzo (a,h) anthracene	4900		J
206-44-0-----	Fluoranthene	66000		
86-73-7-----	Fluorene	23000		
193-39-5-----	Indeno (1,2,3-cd) pyrene	14000		
91-57-6-----	2-Methylnaphthalene	19000		
91-20-3-----	Naphthalene	24000		
85-01-8-----	Phenanthrene	66000		
129-00-0-----	Pyrene	46000		
132-64-9-----	Dibenzofuran	16000		

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

28/1063

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

SB-14 14-15

Lab Code: REONY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453607

Sample wt/vol: 30.13 (g/mL) G

Lab File ID: W08973.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 04/28/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/02/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
83-32-9	Acenaphthene		2000	J
208-96-8	Acenaphthylene		5800	
120-12-7	Anthracene		8800	
56-55-3	Benzo (a) anthracene		31000	
205-99-2	Benzo (b) fluoranthene		27000	
207-08-9	Benzo (k) fluoranthene		10000	
191-24-2	Benzo (ghi) perylene		12000	
50-32-8	Benzo (a) pyrene		24000	
218-01-9	Chrysene		22000	
53-70-3	Dibenzo (a,h) anthracene		4400	
206-44-0	Fluoranthene		54000	J
86-73-7	Fluorene		3500	
193-39-5	Indeno (1,2,3-cd) pyrene		12000	
91-57-6	2-Methylnaphthalene		980	
91-20-3	Naphthalene		2500	
85-01-8	Phenanthrene		18000	
129-00-0	Pyrene		40000	
132-64-9	Dibenzofuran		1400	J

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

29/1063

Client No.

SB-15 12-14

Lab Name: STL Buffalo

Contract: 97863 US

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453608

Sample wt/vol: 30.12 (g/mL) G

Lab File ID: W08974.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: 8 decanted: (Y/N) N

Date Extracted: 04/28/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/02/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
83-32-9-----	Acenaphthene		140	J
208-96-8-----	Acenaphthylene		590	
120-12-7-----	Anthracene		1000	
56-55-3-----	Benzo (a) anthracene		2300	
205-99-2-----	Benzo (b) fluoranthene		2700	
207-08-9-----	Benzo (k) fluoranthene		2800	
191-24-2-----	Benzo (ghi) perylene		800	
50-32-8-----	Benzo (a) pyrene		1700	
218-01-9-----	Chrysene		2200	
53-70-3-----	Dibenzo (a, h) anthracene		310	J
206-44-0-----	Fluoranthene		5400	
86-73-7-----	Fluorene		780	J
193-39-5-----	Indeno (1,2,3-cd) pyrene		840	
91-57-6-----	2-Methylnaphthalene		250	
91-20-3-----	Naphthalene		260	
85-01-8-----	Phenanthrene		4400	
129-00-0-----	Pyrene		4000	J
132-64-9-----	Dibenzofuran		460	

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

30/1063

Client No.

SB-16 10-12

Lab Name: STL Buffalo

Contract: 97863 US

Lab Code: RECONY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453609

Sample wt/vol: 30.17 (g/mL) G

Lab File ID: W08975.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 04/28/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/02/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
83-32-9-----	Acenaphthene	38	J
208-96-8-----	Acenaphthylene	440	U
120-12-7-----	Anthracene	440	U
56-55-3-----	Benzo (a) anthracene	440	U
205-99-2-----	Benzo (b) fluoranthene	440	U
207-08-9-----	Benzo (k) fluoranthene	440	U
191-24-2-----	Benzo (ghi) perylene	440	U
50-32-8-----	Benzo (a) pyrene	440	U
218-01-9-----	Chrysene	440	U
53-70-3-----	Dibenzo (a, h) anthracene	440	U
206-44-0-----	Fluoranthene	28	J
86-73-7-----	Fluorene	440	U
193-39-5-----	Indeno (1, 2, 3-cd) pyrene	440	U
91-57-6-----	2-Methylnaphthalene	67	J
91-20-3-----	Naphthalene	130	J
85-01-8-----	Phenanthrene	45	J
129-00-0-----	Pyrene	440	U
132-64-9-----	Dibenzofuran	440	U

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

31/1063

Client No.

SB-17 12-14

Lab Name: STL Buffalo

Contract: 97863 US

Lab Code: REONY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453611

Sample wt/vol: 30.85 (g/mL) G

Lab File ID: W08977.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: 7 decanted: (Y/N) N

Date Extracted: 04/28/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/02/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

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

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

CAS NO.	COMPOUND	Q
83-32-9-----	Acenaphthene	160 J
208-96-8-----	Acenaphthylene	330 J
120-12-7-----	Anthracene	990
56-55-3-----	Benzo (a) anthracene	1000
205-99-2-----	Benzo (b) fluoranthene	1100
207-08-9-----	Benzo (k) fluoranthene	1200
191-24-2-----	Benzo (ghi) perylene	350
50-32-8-----	Benzo (a) pyrene	730
218-01-9-----	Chrysene	840
53-70-3-----	Dibenzo (a,h) anthracene	120 J
206-44-0-----	Fluoranthene	2400
86-73-7-----	Fluorene	900
193-39-5-----	Indeno (1,2,3-cd) pyrene	350
91-57-6-----	2-Methylnaphthalene	460
91-20-3-----	Naphthalene	460
85-01-8-----	Phenanthrene	3500
129-00-0-----	Pyrene	1800
132-64-9-----	Dibenzofuran	560

32/1063

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

33/1063

Client No.

SB-DUP-042606

Lab Name: SIL Buffalo

Contract: 97863 US

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453603

Sample wt/vol: 30.73 (g/mL) G

Lab File ID: W08960.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 04/28/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/01/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9-----	Acenaphthene	38		J
208-96-8-----	Acenaphthylene	310		J
120-12-7-----	Anthracene	120		J
56-55-3-----	Benzo(a)anthracene	510		
205-99-2-----	Benzo(b)fluoranthene	940		
207-08-9-----	Benzo(k)fluoranthene	240		J
191-24-2-----	Benzo(ghi)perylene	920		
50-32-8-----	Benzo(a)pyrene	660		
218-01-9-----	Chrysene	610		
53-70-3-----	Dibenzo(a,h)anthracene	210		J
206-44-0-----	Fluoranthene	1100		
86-73-7-----	Fluorene	340		U
193-39-5-----	Indeno(1,2,3-cd)pyrene	740		
91-57-6-----	2-Methylnaphthalene	58		J
91-20-3-----	Naphthalene	99		J
85-01-8-----	Phenanthrene	380		
129-00-0-----	Pyrene	810		
132-64-9-----	Dibenzofuran	19		J

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

34/1063

Client No.

SS-01

Lab Name: STL Buffalo

Contract: 97863 US

Lab Code: RECNV

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453612

Sample wt/vol: 30.13 (g/mL) G

Lab File ID: W09042.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: 23 decanted: (Y/N) N

Date Extracted: 05/03/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/05/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 10.00

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

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/KG

Q

CAS NO.	COMPOUND		
83-32-9-----	Acenaphthene	900	J
208-96-8-----	Acenaphthylene	4300	U
120-12-7-----	Anthracene	2400	J
56-55-3-----	Benzo (a) anthracene	7400	
205-99-2-----	Benzo (b) fluoranthene	8800	
207-08-9-----	Benzo (k) fluoranthene	2300	J
191-24-2-----	Benzo (ghi) perylene	4000	J
50-32-8-----	Benzo (a) pyrene	6600	
218-01-9-----	Chrysene	7300	
53-70-3-----	Dibenzo (a,h) anthracene	1200	J
206-44-0-----	Fluoranthene	16000	
86-73-7-----	Fluorene	1100	BT
193-39-5-----	Indeno (1,2,3-cd) pyrene	3700	J
91-57-6-----	2-Methylnaphthalene	4300	U
91-20-3-----	Naphthalene	4300	U
85-01-8-----	Phenanthrene	11000	B
129-00-0-----	Pyrene	12000	
132-64-9-----	Dibenzofuran	430	BT

6/7/06

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

35/1063

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

SS-02

Lab Code: REONY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453614

Sample wt/vol: 30.36 (g/mL) G

Lab File ID: W09046.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: 28 decanted: (Y/N) N

Date Extracted: 05/03/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/05/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 10.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9-----	Acenaphthene	4500		U
208-96-8-----	Acenaphthylene	4500		U
120-12-7-----	Anthracene	660		J
56-55-3-----	Benzo (a) anthracene	3000		J
205-99-2-----	Benzo (b) fluoranthene	4200		J
207-08-9-----	Benzo (k) fluoranthene	1000		J
191-24-2-----	Benzo (ghi) perylene	1300		J
50-32-8-----	Benzo (a) pyrene	2900		J
218-01-9-----	Chrysene	3100		J
53-70-3-----	Dibenzo (a, h) anthracene	430		J
206-44-0-----	Fluoranthene	6800		
86-73-7-----	Fluorene	4500		U
193-39-5-----	Indeno (1,2,3-cd) pyrene	1300		J
91-57-6-----	2-Methylnaphthalene	4500		U
91-20-3-----	Naphthalene	4500		U
85-01-8-----	Phenanthrene	2800		U
129-00-0-----	Pyrene	4900		
132-64-9-----	Dibenzofuran	4500		U

6/7/06

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

36/1063

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

SS-03

Lab Code: RECONY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453615

Sample wt/vol: 30.42 (g/mL) G

Lab File ID: W09047.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: 29 decanted: (Y/N) N

Date Extracted: 05/03/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/05/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
83-32-9	Acenaphthene		4600	U
208-96-8	Acenaphthylene		4600	U
120-12-7	Anthracene		290	J
56-55-3	Benzo (a) anthracene		1900	J
205-99-2	Benzo (b) fluoranthene		2100	J
207-08-9	Benzo (k) fluoranthene		860	J
191-24-2	Benzo (ghi) perylene		780	J
50-32-8	Benzo (a) pyrene		1800	J
218-01-9	Chrysene		1800	J
53-70-3	Dibenzo (a,h) anthracene		270	J
206-44-0	Fluoranthene		3200	J
86-73-7	Fluorene		4600	U
193-39-5	Indeno (1,2,3-cd) pyrene		780	J
91-57-6	2-Methylnaphthalene		4600	U
91-20-3	Naphthalene		4600	U
85-01-8	Phenanthrene		4600	U
129-00-0	Pyrene		2500	J
132-64-9	Dibenzofuran		4600	U

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

37/1063

Client No.

SS-04

Lab Name: STL Buffalo

Contract: 97863 US

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453616

Sample wt/vol: 30.95 (g/mL) G

Lab File ID: W09048.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 05/03/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/05/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 10.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9	Acenaphthene	370	J	
208-96-8	Acenaphthylene	4200	U	
120-12-7	Anthracene	1200	J	
56-55-3	Benzo (a) anthracene	3600	J	
205-99-2	Benzo (b) fluoranthene	4000	J	
207-08-9	Benzo (k) fluoranthene	1600	J	
191-24-2	Benzo (ghi) perylene	1400	J	
50-32-8	Benzo (a) pyrene	3200	J	
218-01-9	Chrysene	3600	J	
53-70-3	Dibenzo (a, h) anthracene	450	J	
206-44-0	Fluoranthene	8900		
86-73-7	Fluorene	500 4200	B	
193-39-5	Indeno (1, 2, 3-cd) pyrene	1400	J	
91-57-6	2-Methylnaphthalene	4200	U	
91-20-3	Naphthalene	4200	U	
85-01-8	Phenanthrene	5600	B	
129-00-0	Pyrene	6100		
132-64-9	Dibenzofuran	4200	U	

6/7/06

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

38/1063

Client No.

SS-05

Lab Name: STL Buffalo

Contract: 97863 US

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453617

Sample wt/vol: 30.63 (g/mL) G

Lab File ID: W09090.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: 26 decanted: (Y/N) N

Date Extracted: 05/03/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/08/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9	Acenaphthene	24	J	
208-96-8	Acenaphthylene	34 440	BT	
120-12-7	Anthracene	64	J	
56-55-3	Benzo (a) anthracene	290	J	
205-99-2	Benzo (b) fluoranthene	400	J	
207-08-9	Benzo (k) fluoranthene	110	J	
191-24-2	Benzo (ghi) perylene	130	J	
50-32-8	Benzo (a) pyrene	280	J	
218-01-9	Chrysene	300	J	
53-70-3	Dibenzo (a,h) anthracene	42	J	
206-44-0	Fluoranthene	620		
86-73-7	Fluorene	25 440	BT	
193-39-5	Indeno (1,2,3-cd) pyrene	130	J	
91-57-6	2-Methylnaphthalene	38 440	BT	
91-20-3	Naphthalene	440	U	
85-01-8	Phenanthrene	320	BT	
129-00-0	Pyrene	490		
132-64-9	Dibenzofuran	440	U	

6/7/06

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

39/1063

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

SS-06

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453618

Sample wt/vol: 30.57 (g/mL) G

Lab File ID: W09091.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 05/03/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/08/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 10.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
83-32-9-----	Acenaphthene	290	J	U
208-96-8-----	Acenaphthylene	240 4400	BT	
120-12-7-----	Anthracene	880	J	U
56-55-3-----	Benzo (a) anthracene	3100	J	
205-99-2-----	Benzo (b) fluoranthene	4000	J	
207-08-9-----	Benzo (k) fluoranthene	1100	J	
191-24-2-----	Benzo (ghi) perylene	1400	J	
50-32-8-----	Benzo (a) pyrene	2800	J	
218-01-9-----	Chrysene	3000	J	
53-70-3-----	Dibenzo (a,h) anthracene	420	J	
206-44-0-----	Fluoranthene	6900	J	
86-73-7-----	Fluorene	410 4400	BT	
193-39-5-----	Indeno (1,2,3-cd) pyrene	1300	J	
91-57-6-----	2-Methylnaphthalene	4400	U	
91-20-3-----	Naphthalene	4400	U	
85-01-8-----	Phenanthrene	4300	BT	
129-00-0-----	Pyrene	5200		
132-64-9-----	Dibenzofuran	4400	U	

6/7/06

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

40/1063

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

SS-FD-042606

Lab Code: REONY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6453613

Sample wt/vol: 30.30 (g/mL) G

Lab File ID: W09045.RR

Level: (low/med) LOW

Date Samp/Recv: 04/26/2006 04/27/2006

% Moisture: 28 decanted: (Y/N) N

Date Extracted: 05/03/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/05/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 20.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
83-32-9	Acenaphthene		9000	U
208-96-8	Acenaphthylene		9000	U
120-12-7	Anthracene		1300	U
56-55-3	Benzo (a) anthracene		5200	U
205-99-2	Benzo (b) fluoranthene		6600	U
207-08-9	Benzo (k) fluoranthene		1500	U
191-24-2	Benzo (ghi) perylene		2200	U
50-32-8	Benzo (a) pyrene		4600	U
218-01-9	Chrysene		5200	U
53-70-3	Dibenzo (a, h) anthracene		740	U
206-44-0	Fluoranthene		11000	U
86-73-7	Fluorene		470 <i>9000</i>	<i>9000</i>
193-39-5	Indeno (1,2,3-cd) pyrene		2100	U
91-57-6	2-Methylnaphthalene		9000	U
91-20-3	Naphthalene		9000	U
85-01-8	Phenanthrene		5400	U
129-00-0	Pyrene		7800	U
132-64-9	Dibenzofuran		9000	U

6/1/06

Wet Chemistry Analysis

41/1063

Client Sample No.

Lab Name: STL BuffaloContract: 97863 US

RB-042606

Lab Code: REONY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): WATERLab Sample ID: A6453619% Solids: 0.0Date Samp/Recv: 04/26/2006 04/27/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	UG/L	10	U			9012A	05/03/2006

Comments:

Wet Chemistry Analysis

42/1063

Client Sample No.

Lab Name: STL BuffaloContract: 97863 US

SB-12 10-12

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SOILLab Sample ID: A6453601% Solids: 95.4Date Samp/Recv: 04/26/2006 04/27/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	UG/G	0.98	U	ST		9012A	05/04/2006

Comments:

6/7/06

Wet Chemistry Analysis

43/1063

Client Sample No.

Lab Name: STL BuffaloContract: 97863 US

SB-12 14-15

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SOILLab Sample ID: A6453602% Solids: 92.7Date Samp/Recv: 04/26/2006 04/27/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	UG/G	1.0		✓		9012A	05/04/2006

Comments:

6/17/06

Wet Chemistry Analysis

44/1063

Client Sample No.

SB-13 10-12

Lab Name: STL BuffaloContract: 97863 USLab Code: RECONY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SOILLab Sample ID: A6453604% Solids: 94.7Date Samp/Recv: 04/26/2006 04/27/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	UG/G	1.0	U	ST		9012A	05/04/2006

Comments:

6/7/06rm

Wet Chemistry Analysis

45/1063

Client Sample No.

Lab Name: STL BuffaloContract: 97863 US

SB-13 14-15.7

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SOILLab Sample ID: A6453605% Solids: 95.1Date Samp/Recv: 04/26/2006 04/27/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	UG/G	0.97	U	JS		9012A	05/04/2006

Comments:

c/7/06

Wet Chemistry Analysis

46/1063

Client Sample No.

Lab Name: STL BuffaloContract: 97863 US

SB-14 11-12

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SOILLab Sample ID: A6453606% Solids: 80.9Date Samp/Recv: 04/26/2006 04/27/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	UG/G	1.2	U	ST		9012A	05/04/2006

Comments:

4/27/06

Wet Chemistry Analysis

47/1063

Client Sample No.

SB-14 14-15

Lab Name: STL BuffaloContract: 97863 USLab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SOILLab Sample ID: A6453607% Solids: 90.5Date Samp/Recv: 04/26/2006 04/27/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	UG/G	0.98	U	JA		9012A	05/03/2006

Comments:

4/7/06

Wet Chemistry Analysis

48/1063

Client Sample No.

SB-15 12-14

Lab Name: STL BuffaloContract: 97863 USLab Code: REONY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SOILLab Sample ID: A6453608% Solids: 92.1Date Samp/Recv: 04/26/2006 04/27/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	UG/G	1.0	U	ST		9012A	05/03/2006

Comments:

c/7/06m

Wet Chemistry Analysis

49/1063

Client Sample No.

SB-16 10-12

Lab Name: STL BuffaloContract: 97863 USLab Code: RECONY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SOILLab Sample ID: A6453609% Solids: 75.3Date Samp/Recv: 04/26/2006 04/27/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	UG/G	1.2	U	QA		9012A	05/03/2006

Comments:

6/7/06

Wet Chemistry Analysis

50/1063

Client Sample No.

Lab Name: STL BuffaloContract: 97863 US

SB-17 12-14

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SOILLab Sample ID: A6453611% Solids: 92.7Date Samp/Recv: 04/26/2006 04/27/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	UG/G	0.97	U	✓		9012A	05/03/2006

Comments:

6/7/06m

Wet Chemistry Analysis

51/1063

Client Sample No.

SB-17 9-11

Lab Name: STL BuffaloContract: 97863 USLab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SOILLab Sample ID: A6453610% Solids: 80.9Date Samp/Recv: 04/26/2006 04/27/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	UG/G	4.0		✓		9012A	05/03/2006

Comments:

c/7/06

Wet Chemistry Analysis

52/1063

Client Sample No.

SB-DUP-042606

Lab Name: STL BuffaloContract: 97863 USLab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SOILLab Sample ID: A6453603% Solids: 94.3Date Samp/Recv: 04/26/2006 04/27/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	UG/G	1.0	U	JS		9012A	05/04/2006

Comments:

4/7/06 m

Wet Chemistry Analysis

53/1063

Client Sample No.

Lab Name: STL BuffaloContract: 97863 US

SS-01

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SOILLab Sample ID: A6453612% Solids: 76.9Date Samp/Recv: 04/26/2006 04/27/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	UG/G	1.1	U	JS		9012A	05/03/2006

Comments:

6/7/06

Wet Chemistry Analysis

54/1063

Client Sample No.

Lab Name: STL BuffaloContract: 97863 US

SS-02

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SOILLab Sample ID: A6453614% Solids: 71.7Date Samp/Recv: 04/26/2006 04/27/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	UG/G	1.2	U	35		9012A	05/03/2006

Comments:

6/7/06

Wet Chemistry Analysis

55/1063

Client Sample No.

Lab Name: SIL BuffaloContract: 97863 US

SS-03

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SOILLab Sample ID: A6453615% Solids: 70.7Date Samp/Recv: 04/26/2006 04/27/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	UG/G	1.3	U	✓		9012A	05/03/2006

Comments:

6/7/06

Wet Chemistry Analysis

56/1063

Client Sample No.

Lab Name: STL BuffaloContract: 97863 US

SS-04

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SOILLab Sample ID: A6453616% Solids: 75.4Date Samp/Recv: 04/26/2006 04/27/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	UG/G	1.2	U	✓		9012A	05/03/2006

Comments:

6/7/06

Wet Chemistry Analysis

57/1063

Client Sample No.

SS-05

Lab Name: SIL BuffaloContract: 97863 USLab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SOILLab Sample ID: A6453617% Solids: 73.6Date Samp/Recv: 04/26/2006 04/27/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	UG/G	1.2	U	✓		9012A	05/03/2006

Comments:

6/7/06

Wet Chemistry Analysis

58/1063

Client Sample No.

Lab Name: STL BuffaloContract: 97863 US

SS-06

Lab Code: REONY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SOILLab Sample ID: A6453618% Solids: 72.7Date Samp/Recv: 04/26/2006 04/27/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	UG/G	1.3	U	✓		9012A	05/03/2006

Comments:

6/7/06m

Wet Chemistry Analysis

59/1063

Client Sample No.

SS-FD-042606

Lab Name: STL BuffaloContract: 97863 USLab Code: RECONY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SOILLab Sample ID: A6453613% Solids: 72.4Date Samp/Recv: 04/26/2006 04/27/2006

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Cyanide - Total	UG/G	1.8		5		9012A	05/03/2006

Comments:

6/7/06

**DATA ASSESSMENT SUMMARY
RESIDENTIAL BASEMENT SAMPLING AT THE
FORMER OFFSITE GAS HOLDER ASSOCIATED WITH
THE HOMER FORMER MGP SITE – CORTLAND, NY
NEW YORK STATE ELECTRIC AND GAS**

This data assessment summary addresses quality control deficiencies resulting in qualification of the data for the three scrape samples and one equipment rinsate blank collected on June 12, 2006 from the basement walls of a residence located in the vicinity of the Former Offsite Gas Holder associated with the Homer Former MGP Site, Cortland, New York. The samples were sent to Severn Trent Laboratories (STL, Amherst, NY) and analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) by USEPA Method 8260B and polynuclear aromatic hydrocarbons (PAHs) by USEPA Method SW8270C.

Data validation was limited to a review of holding times, laboratory control sample recoveries, surrogate spike recoveries, internal standard recoveries, and blanks (method and rinsate). Qualification of data was made following the procedures outlined in the following USEPA Region II documents:

- *Standard Operating Procedure for the Validation of Organic Data Acquired using SW-846 Method 8260B*, SOP No. HW-24, Revision 1, June 1999; and
- *Standard Operating Procedure for the Validation of Organic Data Acquired using SW-846 Method 8270C*, SOP No. HW-22, Revision 2, June 2001.

The validated analytical results are presented on Tables 1 and 2. Definitions of data qualifiers are presented at the end of this data assessment summary. The chain-of-custody (COC) record, laboratory report case narrative, and documentation supporting the qualification of data (when applicable) is provided in Attachment A. Copies of the validated laboratory data (Form 1s) are presented in Attachment B.

BTEX (USEPA Method 8260B)

The concentrations of toluene in samples SCRAPE 2 and SCRAPE 3 were less than ten times the concentration in the method and rinsate blanks. The laboratory has indicated that the low concentrations of toluene detected in the blanks are likely residual contamination from within the laboratory resulting from maintenance activities in the days preceding sample analysis. Following USEPA validation guidelines, the result for toluene in sample SCRAPE 2 was qualified 'U' at the reported concentration. Based on EPA validation guidelines, the result for toluene in sample SCRAPE 3 was raised to the quantitation limit (QL) and qualified 'U'.

No other data qualifications were made, and all other data are usable as reported.

PAHs (USEPA Method 8270C)

No data qualifications were made, and all data are usable as reported.

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

- U – The analyte was analyzed for, but was not detected above the reported sample quantitation 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 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.
- N – The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
- NJ – The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.
- B – The analyte was detected in the sample at a concentration greater than the method detection limit, but less than the quantitation limit (used for metals only).
- R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- D – The concentration reported is from a secondary dilution analysis.

TABLE 1
VALIDATED SCRAPE SAMPLE ANALYTICAL RESULTS
FORMER OFFSITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID		SCRAPE-01	SCRAPE-02	SCRAPE-03
Sample ID		SCRAPE 1	SCRAPE 2	SCRAPE 3
Matrix		-	-	-
Depth Interval (ft)		-	-	-
Date Sampled		06/12/06	06/12/06	06/12/06
Parameter	Units			
Volatile Organic Compounds				
Benzene	UG/KG	120	44	1 J
Ethylbenzene	UG/KG	38	22	5 U
Toluene	UG/KG	97	58 U	5 U
Xylene (total)	UG/KG	170	120	16 U
Total BTEX	UG/KG	425	186	1
Semivolatile Organic Compounds				
2-Methylnaphthalene	UG/KG	25,000 J	6,400 J	330 U
Acenaphthene	UG/KG	4,800 J	68,000 U	330 U
Acenaphthylene	UG/KG	150,000	42,000 J	330 U
Anthracene	UG/KG	310,000	130,000	19 J
Benzo(a)anthracene	UG/KG	670,000	240,000	47 J
Benzo(a)pyrene	UG/KG	410,000	140,000	32 J
Benzo(b)fluoranthene	UG/KG	810,000	190,000	47 J
Benzo(g,h,i)perylene	UG/KG	140,000	54,000 J	20 J
Benzo(k)fluoranthene	UG/KG	200,000	65,000 J	330 U
Chrysene	UG/KG	650,000	220,000	44 J
Dibenzo(a,h)anthracene	UG/KG	69,000	22,000 J	330 U
Dibenzofuran	UG/KG	41,000 J	11,000 J	330 U
Fluoranthene	UG/KG	1,600,000 D	490,000	120 J
Fluorene	UG/KG	46,000 J	14,000 J	330 U
Indeno(1,2,3-cd)pyrene	UG/KG	160,000	60,000 J	17 J
Naphthalene	UG/KG	42,000 J	9,700 J	46 J
Phenanthrene	UG/KG	890,000	370,000	110 J

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis.

Made By_JUL 7/18/06_ Checked By_AMK 7/18/06_

Detection Limits shown are PQL

Advanced Selection: Scrape
 H:\11174326\00000000\Programs\EDMS.mxd
 Printed: 7/18/2006 11:03:34 AM
 [LOGDATE] = 06/12/2006# AND [SAC006] = N

TABLE 1
VALIDATED SCRAPE SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID		SCRAPE-01	SCRAPE-02	SCRAPE-03
Sample ID		SCRAPE 1	SCRAPE 2	SCRAPE 3
Matrix		Soil	Soil	Soil
Depth Interval (ft)		-	-	-
Date Sampled		06/12/06	06/12/06	06/12/06
Parameter	Units			
Semivolatile Organic Compounds				
Pyrene	UG/KG	1,000,000	360,000	70 J
Total Polycyclic Aromatic Hydrocarbons	UG/KG	7,051,800	2,406,700	572

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit.

J - The reported concentration is an estimated value.

D - Result reported from a secondary dilution analysis.

Made By_JJL 7/18/06_ Checked By_AMK 7/18/06_

Detection Limits shown are PQL

Advanced Selection: Scrape
 H:\11174305.0000\06\Program\EDMS.m
 Printed: 7/18/2006 11:53:36 AM
 [LOGDATE] = 06/12/2006 AND [BAGCODE] = N

TABLE 2
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
FORMER OFFSITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID		FIELDQC
Sample ID		RB-061206
Matrix		Water Quality
Depth Interval (ft)		-
Date Sampled		06/12/06
Parameter	Units	Rinse Blank (1-1)
Volatile Organic Compounds		
Benzene	UG/L	5.0 U
Ethylbenzene	UG/L	5.0 U
Toluene	UG/L	5.7
Xylene (total)	UG/L	15 U
Total BTEX	UG/L	5.7
Semivolatile Organic Compounds		
2-Methylnaphthalene	UG/L	9 U
Acenaphthene	UG/L	9 U
Acenaphthylene	UG/L	9 U
Anthracene	UG/L	9 U
Benzo(a)anthracene	UG/L	9 U
Benzo(a)pyrene	UG/L	9 U
Benzo(b)fluoranthene	UG/L	9 U
Benzo(g,h,i)perylene	UG/L	9 U
Benzo(k)fluoranthene	UG/L	9 U
Chrysene	UG/L	9 U
Dibenzo(a,h)anthracene	UG/L	9 U
Dibenzofuran	UG/L	9 U
Fluoranthene	UG/L	9 U
Fluorene	UG/L	9 U
Indeno(1,2,3-cd)pyrene	UG/L	9 U
Naphthalene	UG/L	9 U
Phenanthrene	UG/L	9 U

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit.

Made By_JJL 7/18/06_ Checked By_AMK 7/18/06_

Detection Limits shown are PQL

TABLE 2
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
FORMER OFF-SITE GAS HOLDER ASSOCIATED WITH THE HOMER FORMER MGP SITE
NEW YORK STATE ELECTRIC AND GAS

Location ID		FIELDQC
Sample ID		RB-061206
Matrix		Water Quality
Depth Interval (ft)		-
Date Sampled		06/12/06
Parameter	Units	Rinse Blank (1-1)
Semivolatile Organic Compounds		
Pyrene	UGL	9 U
Total Polycyclic Aromatic Hydrocarbons	UGL	ND

Flags assigned during chemistry validation are shown.

U - Not detected above the reported quantitation limit.

Made By_JJL 7/18/06_ Checked By_AMK 7/18/06_

Detection Limits shown are PQL

N:\1174306.000\048\Program\EDMS.mde
Printed: 7/18/2006 11:07:28 AM
[LOGDATE] = 06/12/2006 AND [LOCID] = FIELDQC

ATTACHMENT A

CHAIN-OF-CUSTODY RECORD, LABORATORY REPORT CASE NARRATIVE, AND DOCUMENTATION SUPPORTING QUALIFICATION OF DATA

NON-CONFORMANCE SUMMARY

Job#: A06-6725

STL Project#: NY5A9403.3

Site Name: URS NYSEG SITES- CortlandGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A06-6725

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
Volatiles to get samples first.

GC/MS Volatile Data

The analyte Toluene was detected in the Method Blank VBLK18 (A6B2146502) at a concentration above the project established reporting limit. The sample associated with this Method Blank, SCRAPE 2, had Toluene detected at a concentration above that detected in the Method Blank and is flagged accordingly. No further corrective action was required.

Initial calibration standard curve A6I0001615 exhibited a percent Relative Standard Deviation (%RSD) greater than 15% for the compound Toluene. However, the mean RSD of all compounds is 7.05%.

GC/MS Semivolatile Data

All surrogate concentrations were diluted below the linear range of the calibration curve in sample SCRAPE 1 DL.

The surrogate concentrations for 2,4,6-Tribromophenol, p-Terphenyl-d14 and 2-Fluorobiphenyl were diluted below the linear range of the calibration curve in sample SCRAPE 1.

The surrogate concentrations for 2,4,6-Tribromophenol and p-Terphenyl-d14 were diluted below the linear range of the calibration curve in sample SCRAPE 2.

Samples SCRAPE 1 and SCRAPE 2, 8270 soils, had adjusted final volumes during extraction due to extract matrix and viscosity.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A6672504	RB-061206	WATER	06/12/2006	16:30	06/13/2006	09:00
A6672501	SCRAPE 1	SOIL	06/12/2006	13:40	06/13/2006	09:00
A6672502	SCRAPE 2	SOIL	06/12/2006	13:50	06/13/2006	09:00
A6672503	SCRAPE 3	SOIL	06/12/2006	15:30	06/13/2006	09:00

METHOD 8260 - BTEX
METHOD BLANK SUMMARY

35/483

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

VBLK18

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Lab File ID: Q3226.RR

Lab Sample ID: A6B2146502

Date Analyzed: 06/21/2006

Time Analyzed: 00:05

GC Column: DB-624 ID: 0.25 (mm)

Heated Purge: (Y/N) Y

Instrument ID: HP59730

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	MSB18	A6B2146501	Q3221.RR	21:47
2	SCRAPE 2	A6672502	Q3230.RR	01:54

Comments: _____

METHOD 8260 - BTEX
ANALYSIS DATA SHEET

36/483

Client No.

VBLK18

Lab Name: SIL Buffalo

Contract: 97863 US

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6B2146502

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: Q3226.RR

Level: (low/med) LOW

Date Samp/Recv: _____

% Moisture: not dec. _____ Heated Purge: Y

Date Analyzed: 06/21/2006

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
71-43-2-----	Benzene	5	U	
100-41-4-----	Ethylbenzene	5	U	
108-88-3-----	Toluene	5		
1330-20-7-----	Total Xylenes	15	U	

ATTACHMENT B

VALIDATED LABORATORY DATA (FORM 1s)

METHOD 8260 -BTEX ONLY
ANALYSIS DATA SHEET

10/483

Client No.

RB-061206

Lab Name: STL Buffalo

Contract: 97863 US

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

Matrix: (soil/water) WATER

Lab Sample ID: A6672504

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: F1682.RR

Level: (low/med) LOW

Date Samp/Recv: 06/12/2006 06/13/2006

% Moisture: not dec. _____ Heated Purge: N

Date Analyzed: 06/19/2006

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
71-43-2-----	Benzene		5.0	U
108-88-3-----	Toluene		5.7	
100-41-4-----	Ethylbenzene		5.0	U
1330-20-7-----	Total Xylenes		15	U

METHOD 8260 - BTEX
ANALYSIS DATA SHEET

11/483

Client No.

SCRAPE 1

Lab Name: STL Buffalo

Contract: 97863 US

Lab Code: RECNV

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6672501

Sample wt/vol: 5.01 (g/mL) G

Lab File ID: P1691.RR

Level: (low/med) LOW

Date Samp/Recv: 06/12/2006 06/13/2006

% Moisture: not dec. 4 Heated Purge: Y

Date Analyzed: 06/19/2006

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG Q
71-43-2-----	Benzene	120	
100-41-4-----	Ethylbenzene	38	
108-88-3-----	Toluene	97	
1330-20-7-----	Total Xylenes	170	

7/3/06 *vr*

METHOD 8260 - BTEX
ANALYSIS DATA SHEET

12/483

Client No.

SCRAPE 2

Lab Name: STL Buffalo

Contract: 97863 US

Lab Code: RECNV

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6672502

Sample wt/vol: 5.03 (g/mL) G

Lab File ID: Q3230.RR

Level: (low/med) LOW

Date Samp/Recv: 06/12/2006 06/13/2006

% Moisture: not dec. 21 Heated Purge: Y

Date Analyzed: 06/21/2006

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
71-43-2-----	Benzene		44	
100-41-4-----	Ethylbenzene		22	
108-88-3-----	Toluene		58	
1330-20-7-----	Total Xylenes		120	

7/3/06m

METHOD 8260 - BTEX
ANALYSIS DATA SHEET

13/483

Client No.

SCRAPE 3

Lab Name: STL Buffalo

Contract: 97863 US

Lab Code: REONY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6672503

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: Q3205.RR

Level: (low/med) LOW

Date Samp/Recv: 06/12/2006 06/13/2006

% Moisture: not dec. 1 Heated Purge: Y

Date Analyzed: 06/20/2006

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
71-43-2-----	Benzene	1		J
100-41-4-----	Ethylbenzene	5		U
108-88-3-----	Toluene	25		U
1330-20-7-----	Total Xylenes	15		U

7/3/06

METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDROCARBONS
ANALYSIS DATA SHEET

14/483

Client No.

RB-061206

Lab Name: STL Buffalo

Contract: 97863 US

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: A6672504

Sample wt/vol: 1060.0 (g/mL) ML

Lab File ID: V15429.RR

Level: (low/med) LOW

Date Samp/Recv: 06/12/2006 06/13/2006

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 06/14/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/20/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/L

Q

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

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

15/483

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

SCRAPE 1

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6672501

Sample wt/vol: 30.57 (g/mL) G

Lab File ID: U13641.RR

Level: (low/med) LOW

Date Samp/Recv: 06/12/2006 06/13/2006

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 06/17/2006

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 06/19/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 20.00

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

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/KG

Q

CAS NO.	COMPOUND		
83-32-9	Acenaphthene	4800	J
208-96-8	Acenaphthylene	150000	
120-12-7	Anthracene	310000	
56-55-3	Benzo (a) anthracene	670000	
205-99-2	Benzo (b) fluoranthene	610000	
207-08-9	Benzo (k) fluoranthene	200000	
191-24-2	Benzo (ghi) perylene	140000	
50-32-8	Benzo (a) pyrene	410000	
218-01-9	Chrysene	650000	
53-70-3	Dibenzo (a, h) anthracene	69000	
206-44-0	Fluoranthene	1500000 <u>1,600,000</u>	H
86-73-7	Fluorene	46000	J
193-39-5	Indeno (1,2,3-cd) pyrene	160000	
91-57-6	2-Methylnaphthalene	25000	J
91-20-3	Naphthalene	42000	J
85-01-8	Phenanthrene	990000	
129-00-0	Pyrene	1000000	
132-64-9	Dibenzofuran	41000	J

7/3/06

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

16/483

Client No.

SCRAPE 1 DL

Lab Name: STL Buffalo

Contract: 97863 US

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6672501DL

Sample wt/vol: 30.57 (g/mL) G

Lab File ID: UL3725.RR

Level: (low/med) LOW

Date Samp/Recv: 06/12/2006 06/13/2006

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 06/17/2006

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 06/21/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 80.00

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

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/KG

Q

CAS NO.	COMPOUND		
83-32-9-----	Acenaphthene	270000	U
208-96-8-----	Acenaphthylene	140000	DJ
120-12-7-----	Anthracene	330000	D
56-55-3-----	Benzo (a) anthracene	750000	D
205-99-2-----	Benzo (b) fluoranthene	850000	D
207-08-9-----	Benzo (k) fluoranthene	840000	D
191-24-2-----	Benzo (ghi) perylene	240000	DJ
50-32-8-----	Benzo (a) pyrene	440000	D
218-01-9-----	Chrysene	700000	D
53-70-3-----	Dibenzo (a, h) anthracene	73000	DJ
206-44-0-----	Fluoranthene	1600000	D
86-73-7-----	Fluorene	43000	DJ
193-39-5-----	Indeno (1, 2, 3-cd) pyrene	220000	DJ
91-57-6-----	2-Methylnaphthalene	26000	DJ
91-20-3-----	Naphthalene	43000	DJ
85-01-8-----	Phenanthrene	1000000	D
129-00-0-----	Pyrene	1100000	D
132-64-9-----	Dibenzofuran	44000	DJ

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

17/483

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

SCRAPE 2

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

Matrix: (soil/water) SOIL

Lab Sample ID: A6672502

Sample wt/vol: 30.30 (g/mL) G

Lab File ID: UL3642.RR

Level: (low/med) LOW

Date Samp/Recv: 06/12/2006 06/13/2006

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 06/17/2006

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 06/19/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 20.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
83-32-9-----	Acenaphthene	68000		U
208-96-8-----	Acenaphthylene	42000		J
120-12-7-----	Anthracene	130000		
56-55-3-----	Benzo (a) anthracene	240000		
205-99-2-----	Benzo (b) fluoranthene	190000		
207-08-9-----	Benzo (k) fluoranthene	65000		J
191-24-2-----	Benzo (ghi) perylene	54000		J
50-32-8-----	Benzo (a) pyrene	140000		
218-01-9-----	Chrysene	220000		
53-70-3-----	Dibenzo (a, h) anthracene	22000		J
206-44-0-----	Fluoranthene	490000		
86-73-7-----	Fluorene	14000		J
193-39-5-----	Indeno (1, 2, 3-cd) pyrene	60000		J
91-57-6-----	2-Methylnaphthalene	6400		J
91-20-3-----	Naphthalene	9700		J
85-01-8-----	Phenanthrene	370000		
129-00-0-----	Pyrene	360000		
132-64-9-----	Dibenzofuran	11000		J

METHOD 8270 - HSL PAH SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

18/483

Client No.

Lab Name: STL Buffalo

Contract: 97863 US

SCRAPE 3

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) SOIL

Lab Sample ID: A6672503

Sample wt/vol: 30.02 (g/mL) G

Lab File ID: U13643.RR

Level: (low/med) LOW

Date Samp/Recv: 06/12/2006 06/13/2006

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 06/17/2006

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/19/2006

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

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

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/KG

Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
83-32-9-----	Acenaphthene	330		U
208-96-8-----	Acenaphthylene	330		U
120-12-7-----	Anthracene	19		J
56-55-3-----	Benzo (a) anthracene	47		J
205-99-2-----	Benzo (b) fluoranthene	47		J
207-08-9-----	Benzo (k) fluoranthene	330		U
191-24-2-----	Benzo (ghi) perylene	20		J
50-32-8-----	Benzo (a) pyrene	32		J
218-01-9-----	Chrysene	44		J
53-70-3-----	Dibenzo (a, h) anthracene	330		U
206-44-0-----	Fluoranthene	120		J
86-73-7-----	Fluorene	330		U
193-39-5-----	Indeno (1,2,3-cd) pyrene	17		J
91-57-6-----	2-Methylnaphthalene	330		U
91-20-3-----	Naphthalene	46		J
85-01-8-----	Phenanthrene	110		J
129-00-0-----	Pyrene	70		J
132-64-9-----	Dibenzofuran	330		U

APPENDIX I

NEWFIELDS FORENSIC REPORT



July 24, 2006

Tracy L. Blazicek, CHMM
Environmental Compliance, Team NY
Site Investigation & Remediation
NYSEG
18 Link Drive
Binghamton, NY 13904

Phone: (607)762-8839

Subject: Letter Report for Forensic Cortland Scrape Samples

Dear Mr. Blazicek:

This letter report summarizes our review of selected data provided to NewFields on July 21, 2006. These data included one (1) soil boring sample collected on April 26, 2006 (SB-14 11-12) and three (3) scrape samples collected on June 12, 2006 (Scrape 1, Scrape 2, and Scrape 3) as part of the NYSEG Cortland, NY investigation.

Objective

This review compared the source signature of MGP residuals in the soil sample with three scrape samples of unknown origin collected on rock surfaces in a residential property built in close proximity to a former gas holder. The objective of this review was to determine if tar residues in the samples could have originated from the same source.

Laboratory Data

The sample analyses were performed by STL Buffalo, Amherst, NY. EPA Method 8260B was used for BTEX analysis and EPA Method 8270C was used for PAH analysis. While these standard EPA methods are useful for measuring a wide variety of chemicals, they were not specifically developed for the detailed forensic measurement and analysis. Therefore, this review was intended to identify gross differences among the tar signatures, if present.

Results

The site investigation results yielded the following conclusions:

- Soil Boring, Scrape 1, and Scrape 2 samples contain coal tar.
- Scrape 3 contained concentrations of PAHs that were too low to generate a meaningful source signature.
- Some compositional differences exist, but it was not possible to determine if the tar residues in the soil boring and scrape samples were derived from the MGP gas holder or various other tar sources commonly encountered in residential

properties (e.g., waterproofing sealer, insecticides, tar paper, and others) using the data provided.

Don't hesitate to contact me should you have any questions regarding this report.

Sincerely,

A handwritten signature in blue ink, appearing to read "Gina M. Plantz". The signature is fluid and cursive, with the first name "Gina" and last name "Plantz" being more prominent.

Gina M. Plantz
Senior Scientist

Cc: Stephen Emsbo-Mattingly