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Memorandum

Subject: Pre-Alternatives Analysis Field Investigation, Cohoes (Linden St.) Former MGP Site

Date: May 22, 2012

To: John B. Miller, NYSDEC, Division of Environmental Remediation

From: James Marolda, C.P.G., P.G., Bob O'Neill, C.P.G., P.G., and Keith Bogatch, P.E.

A Pre-Alternatives Analysis Field Investigation (PAAFI) was implemented at the Cohoes (Linden St.) Former Manufactured Gas Plant (MGP) Site (hereafter referred to as 'Site') to obtain data needed to facilitate the preparation of an Alternatives Analysis (AA). Remedial Investigation (RI) activities were also completed as part of the PAAFI; the results of the RI-related activities were previously submitted in the RI Report for the Site (Brown and Caldwell Associates, March 2012). The New York State Department of Environmental Conservation (NYSDEC) approved the RI Report for the Site in a letter dated April 3, 2012 and concurred with National Grid's recommendation to prepare an AA to develop and evaluate remedial alternatives for the Site.

Findings obtained during the PAAFI activities will be used to initiate development of a comprehensive site remedy and will be used to facilitate completion of the AA. This technical memorandum documents the results from the PAAFI and provides a summary of the data that are relevant to the forthcoming AA.

Provided below is: a description of the methods and procedures used during field activities; a discussion of the results and findings of the data; and a summary of the preliminary conclusions associated with the PAAFI data in the context of the development and analysis of remedial alternatives.

Methods and Procedures

As discussed in the PAAFI Work Plan (Brown and Caldwell Associates, September 2010), the specific methods and procedures used during the PAAFI activities were conducted in accordance with the following plans and guidelines:

- Generic Field Sampling Plan for Site Investigations at Non Owned Former MGP Sites (Foster Wheeler, November 2002) (referred to as "FSP").
- Generic Quality Assurance Project Plan for Site Investigations at Non Owned Former MGP Sites (Foster Wheeler, November 2002) (referred to as "QAPP").
- Generic Health & Safety Plan for Site Investigations at Former MGP Sites (Foster Wheeler, November 2002).
- Health and Safety for Remedial Investigation Activities, Cohoes Former MGP Site (Brown and Caldwell, November 2008, revised August 2010). This HASP was prepared to be consistent with the document Generic Health & Safety Plan for Site Investigations at Former MGP Sites (Foster Wheeler, November 2002).
- DER-10/Technical Guidance for Site Investigation and Remediation (NYSDEC, May 2010).
- Reporting Guidelines for RI/PDI Fieldwork (NYSDEC, August 2010).

- Field Descriptions of Samples for Former MGP Sites (National Grid, July 2008).

The methods used to complete the field tasks intended to provide data for performing an analysis or remedial alternatives are discussed below.

Utility Mark-Outs and Clearance

Prior to conducting any intrusive activities, the subsurface investigation locations were marked in the field. New York Dig Safely was contacted to obtain utility clearance for the subscribed underground utilities. The City of Cohoes was contacted to clear utilities that they maintain (e.g., sewer and water).

Adjustment of investigation locations was not necessary to provide adequate clearance from underground and aboveground utilities. The investigation locations are depicted on Figure 1 (Site Plan).

Bedrock Borings

Three bedrock borings (BRB-1, -2, and -3) were advanced along the top of the river bank between existing monitoring well MW-5R and the MW-7 well cluster (locations are shown on Figure 1) to further evaluate the physical characteristics of the upper bedrock in this area of the Site. Additional data regarding the competency of the rock and the potential for NAPL content (if any) within the upper bedrock was collected in order to assess the potential effectiveness and feasibility of installing a barrier (i.e., slurry wall, sheet piling), to prevent migration of NAPL through the overburden soils along the top of bedrock surface. Such a barrier would likely be keyed into the bedrock.

Each bedrock boring was installed using four and one-quarter-inch inside diameter (I.D.) hollow stem augers (HSA) resulting in an 8-inch diameter borehole drilled through the overburden and to a depth of approximately one to two feet into competent bedrock. Continuous sampling of soil from the ground surface to refusal on top of rock was conducted using two–inch ID split-spoon sampler in accordance with ASTM Method D1586, A four-inch diameter steel casing was placed in the borehole extending from the ground surface to the bottom of the borehole (seated one to two feet into competent bedrock as defined by split-spoon refusal on bedrock). The casing was then grouted in place by filling the annular space between the casing and the borehole. Grout extended from the bottom of the borehole to a few feet below ground surface and consisted of a cement/bentonite mixture installed by means of the tremie method or pressure grouting. The cement/bentonite grout in the annular space was allowed to set for a minimum period of 24 hours before resuming drilling activities at the borehole location.

Bedrock drilling resumed by means of conventional coring techniques using a nominal four-inch outside diameter (O.D.) core barrel. Cores were collected in five-foot depth intervals to a depth of approximately 15 feet below the top of rock. Core samples were described in the field to characterize rock type, bedding thickness, texture, fracture type, orientation and spacing, structural features; and other descriptors used to identify the composition and character of the bedrock. The cores were field screened for indications of MGP related or other impacts based on appearance, odor and organic vapor concentrations as measured by a photoionization detector (PID). Rock Quality Designation (RQD) was measured in accordance with ASTM Standard D6032-08 and recorded for each five foot interval as an indicator of bedrock competency. Boring logs are provided in Attachment A. Drilling services were performed by Parratt-Wolff, Inc. of East Syracuse, New York.

Underground Utility Evaluation

The City of Cohoes' Engineering Department was visited to obtain records for the underground utilities and sewage pumping station that exist at the Site. A drawing entitled "Southeast Interceptor, Simmons Island Sewers, pumping Sta. Nos. 9, 10, and 13, Sta. No. 10 – Site Plan and Details"; November, 1972), which was previously provided by the City, was reviewed and information relative to the Site was documented. The locations and depths of the utility lines depicted in the above-referenced drawing will be considered in the development of the Alternatives Analysis. A copy of the drawing is provided in Attachment B.

In addition to the above, research was conducted to acquire information related to the construction of the ten- inch diameter sanitary sewer line that discharges to the eight-foot diameter wet well in the City's sewage pump station. Based on the invert elevation data provided in the City of Cohoes engineering drawing titled "Southeast Interceptor, Simmons Island Sewers, pumping Sta. Nos. 9, 10, and 13, Sta. No. 10 – Site Plan and Details"; November, 1972, and bedrock elevation data collected during the RI, a trench into bedrock may have been excavated along the alignment of the north-south oriented ten-inch sewer during the construction and installation process. Inquiries to the City Engineer were made regarding information that may have been recorded during construction of the sewer; however, no additional information aside from the above drawing was available.

Test Pits

Two (2) test pits (TP-16 and TP-16A) were excavated at the top of the river bank near the MW-7 monitoring well cluster to evaluate the physical characteristics of the upper bedrock and to determine if it is likely to be rippable to the degree necessary to key a barrier wall (e.g., a slurry trench cutoff wall) into bedrock. The test pit locations are shown on Figure 1. Photographic logs documenting the test pits are provided in Attachment C.

During the initial attempt at installing TP-16, a Kobelco 235 excavator was used with standard three-foot wide toothed-edge bucket. The contractor attempted to dewater the excavation using a submersible pump to allow improved observations; however, the dewatering was not successful due to the pump's inability to overcome the rate of groundwater inflow into the excavation In order to meet the task objective, a second test pit (TP-16A), excavated adjacent to TP-16, was completed.

Based on the results of the activities at TP-16, prior to initiating the excavation of TP-16A, alternative equipment was acquired including a Linkbelt 225 excavator, equipped with a ripper tooth attachment, and a trench box to shore the excavation and facilitate attempts to rip and excavate into bedrock. Dewatering of TP-16A was not attempted due to the difficulties documented during the excavation of TP-16.

Excavated material was temporarily stockpiled on polyethylene sheeting adjacent to the test pit. Upon completion of the test pits, excavated material was backfilled into the excavations in the order the material was excavated (last out, first in). The earthwork contractor used for this task was LAND Remediation, Inc. of Averill Park, New York.

Sheet Pile Drive Test (Optional)

Based on the observations made during the completion of the bedrock borings and test pits, it was deemed unnecessary to complete this task. Refer to "Findings" section for further discussion regarding elimination of this task from the PAAFI scope of work.

Surface Soil Samples to Evaluate Background Conditions

During previous investigation activities, surface soil samples were collected from the Site and from potential background areas and analyzed at the laboratory. In order to obtain additional information for evaluating the area of surface soil that may need to be addressed during remedial action (e.g., addressed via engineering controls such as a potential cover system), additional surface soil samples, intended to be representative of background conditions, were collected at five locations during the implementation of the PAAFI work plan to supplement the existing background sample data set collected during the SC (see Figure 1). The samples were collected using field-cleaned stainless steel trowels from the zero to two-inch depth interval. The trowel was decontaminated between sampling stations using Alconox (a mild detergent) followed by a deionized water rinse.

The background condition soils samples were submitted to TestAmerica of Buffalo, New York for Target Compound List (TCL) semi-volatile organic compounds (SVOCs) and total cyanide analyses. Analytical results from these locations were compared to the Soil Cleanup Objectives (SCOs) as set forth in 6NYCRR Sub-part 375-6 and to the existing surface soils data collected on- site.

The results are discussed in the findings section and the laboratory report for the surface soil samples was previously provided in Appendix B of the RI Report. The laboratory data package for the soil samples was forwarded to a data validator for the preparation of a Data Usability Summary Report (DUSR). The DUSR associated with this sample delivery group was previously provided in Appendix J of the RI Report.

Analysis of Groundwater Samples for MNA Parameters

Two (2) rounds of groundwater sampling, water level measurements, and NAPL gauging were conducted as part of the PAAFI activities. The samples were analyzed for constituents associated with typical MGP-related impacts including: benzene, toluene, ethylbenzene, and xylenes (BTEX); polycyclic aromatic hydrocarbon (PAH) compounds; and total cyanide. Additionally, to support the AA, the groundwater samples were also analyzed for parameters that facilitate the assessment of whether or not natural attenuation of site-related constituents is occurring in groundwater (see list below). Such an assessment will be used to evaluate the viability of Monitored Natural Attenuation (MNA) as a component of the remedy for the Site. Groundwater samples were collected according to the United States Environmental Protection Agency (USEPA) low flow sampling protocol and in accordance with procedures outlined in the FSP.

The additional parameters analyzed in support of the MNA evaluation, as listed below, includes parameters used to characterize the biochemical and geochemical environment and assess the potential for natural attenuation of certain constituents to be occurring, such as electron acceptors, electron donors, nutrients, potential degradation products, and indicators of oxidation-reduction state:

- Dissolved oxygen (DO)
- Nitrate
- Dissolve manganese
- Ferric iron
- Sulfate
- Total organic carbon (TOC)
- Dissolved organic carbon (DOC);
- Carbon dioxide
- Methane
- Volatile fatty acids
- Nitrogen
- Phosphorous
- Ammonia
- Nitrogen
- Nitrate
- Total Kjeldahl nitrogen [TKN]
- Oxidation-reduction potential (ORP)
- Specific conductivity
- Temperature
- pH

Analysis of groundwater samples was conducted by TestAmerica of Buffalo, New York and in the field for certain MNA parameters. The results are discussed in the findings section. The laboratory reports associated with the groundwater samples were previously provided in Appendix B of the RI Report. The laboratory data packages for the groundwater samples were forwarded to a data validator for the preparation of a DUSR. The DUSR associated with the groundwater sampling data packages was previously provided in Appendix J of the RI Report.

Investigation Derived Waste

Investigation-derived waste (IDW) generated during the PAAFI activities included soil and rock cuttings, drilling water, development water, equipment decontamination water, purge water, disposable sampling equipment, and personal protective equipment (PPE). The solid waste was containerized in DOT approved, 55-gallon drums, which were properly labeled to identify their contents. Drilling and decontamination water from coring, water removed from test pit excavations, and purge water generated from groundwater sampling activities was containerized in a 1,000 gallon polyethylene storage tanks. Samples of the IDW were analyzed in the laboratory for waste profiling purposes and the appropriate treatment/disposal was arranged. Analysis of the IDW samples was conducted by TestAmerica of Buffalo, New York. Treatment/disposal of the IDW was managed by Clean Harbors Environmental Services, Inc.

Findings

Bedrock Borings

As described in the boring logs for bedrock borings BRB-1, -2, and -3 (see Attachment A), the upper portion of bedrock in the area between MW-5R to the MW-7 has closely-spaced (two-inch to eight-inch) fractures with intervals that are moderately to highly weathered. Based on the RQD values for the upper five feet of rock, calculated from the three bedrock borings (range: 33 to 55%), the rock competency for this interval would be considered poor to fair. In general, the RQD values increase with depth indicating the frequency of fractures decreases and the competency increases with depth.

In previous report deliverables, the upper ±six feet of rock at MW-5R was depicted as containing NAPL/tar. This depiction was based on observations of auger cuttings brought to the surface during the advancement of the hollow-stem augers into the upper rock. Subsequent rock coring at BRB-1, located less than 10 feet from MW-5R and at nearby locations BRB-2 and BRB-3, did not confirm NAPL/tar within this interval. Rather, consistent with observations across the Site, NAPL was identified at the base of the overburden at each location. Indications of NAPL were not apparent in the upper portion of rock. NAPL was, however, observed approximately 12 feet below the top of rock surface at BRB-2. This NAPL observation was described as “a few droplets of NAPL on fracture surface”. The locations of BRB-1 through -3 are depicted on hydrogeologic cross-section A-A’ (Figure 2) as is the vertical position of the NAPL observation at BRB-2. The location of MW-5R is also shown on Figure 2.

Underground Utility Evaluation

Based on the invert elevation data provided in the City of Cohoes engineering drawing titled “Southeast Interceptor, Simmons Island Sewers, pumping Sta. Nos. 9, 10, and 13, Sta. No. 10 – Site Plan and Details” (see Attachment B), and bedrock elevation data collected during the RI, a trench into bedrock may have been excavated along the alignment of the north-south oriented 10-inch sewer during the construction and installation process. However, no additional information was available associated with the construction of the sewer line, or whether or not the bedrock trench in which the sewer is positioned was excavated during sewer installation. It appears that all the information regarding the subsurface sewers and water lines at the Site that is available from the City of Cohoes has been obtained. This information is likely sufficient for conducting the AA. However, prior to or during the design of the remedial action (RA), additional efforts to evaluate and confirm the understanding of subsurface utilities at the Site are recommended.

Test Pits

The data collected during the test pit excavations was used to assess if a barrier wall could potentially be installed at the Site and keyed into the bedrock to a sufficient depth to minimize the migration of NAPL from the Site, along the bedrock surface, to off-site areas (i.e., the Mohawk River). Provided below is a summary of the findings from the excavation of test pits at the top of the bank adjacent to the Mohawk River. The test pit locations (TP-16 and TP-16A) are shown on Figure 1 and are also depicted on hydrogeologic cross-section A-A' (Figure 2). Photographic logs of the test pits are provided in Attachment A.

Bedrock Competency

As observed in these test pits and in previous test pits and borings, there have been no indications of a laterally continuous highly weathered/decomposed bedrock interval at the top of bedrock. Information from location MW-5R, a well drilled during the first phase of bedrock investigation indicated the potential for such a zone to exist. Follow-up evaluations of the upper rock, including boring BRB-1 located directly adjacent to MW-5R, did not support the presence of such a zone. Rather, as demonstrated by the data collected from the bedrock borings, the upper bedrock was found to have some degree of fracturing with localized weathered zones.

Assessment of the rippability of the bedrock along the river was performed using a Linkbelt 225 excavator (50,000 lbs operating weight), equipped with a ripper tooth attachment, followed by removal of spoils from the excavation with standard two-foot wide bucket (see photos for TP-16A in Attachment A). The methods used had limited success penetrating into the highly deformed shale bedrock possibly due in part to the fabric of the rock. High angle cleavage planes may be inhibiting advancement into the bedrock (i.e., potential rock parting planes [cleavage planes] are oriented at a high angle from horizontal). Over the course of approximately 1.5 hours of ripping at the rock surface with the ripper tooth and subsequent removal of spoils, the depth of penetration into rock was approximately 1.5 feet.

NAPL Distribution

Consistent with previous findings from borings and well locations positioned near the river, NAPL was encountered at the base of the overburden deposits and along the top of the bedrock. NAPL was not found in the upper several feet of rock. Specifically, coarse-grained deposits (sand and gravel) located immediately above the top of rock surface are partially coated with NAPL.

Wall Excavation Options

Based on the fairly competent nature of the bedrock, excavation of a barrier wall into rock using conventional methods may not be practical. However, other methods can be considered to excavate rock for the purpose of keying in a barrier wall to address potential migration of the NAPL at the base of the overburden. Examples of these methods include: 1) use of a drill rig to install pilot holes into rock along the alignment of a potential barrier wall followed by excavation using ripper tooth to link pilot holes; 2) overlapping, large diameter (approximately three-foot caissons installed using a rock auger to form a secant wall; and/or 3) use of rock saw attachment for excavator to trench approximately two-feet below the rock surface.

Use of one of the above methods would allow for the barrier wall to be successfully keyed into the upper portion of the bedrock surface (approximately three-feet below the rock surface) to address potential migration of the NAPL at the base of the overburden. Based on the data collected during the RI and PAAFI, there are no indications of a potential NAPL migration pathway in the upper portion of rock in the vicinity of where a barrier wall would be considered to be installed. As described above, the rock is relatively unweathered and there are no indications of laterally continuous open fractures. The cleavage planes in the rock (i.e., potential rock parting planes) are oriented at a high-angle and there are no indications of NAPL in the upper bedrock. Therefore, the shallow bedrock is considered to be a suitable horizon to key the wall into and form a successful barrier to the migration of DNAPL.

Sheet Pile Drive Test

As mentioned above in the "Methods and Procedures" section, this optional task was not completed as part of the PAAFI activities based on the findings of the test pits and bedrock borings. Specifically, due to the degree of competency of the upper bedrock, it is not expected that sheet piles could be driven into rock to form an effective key-in for a barrier wall and thus, driving of sheet piling into the upper bedrock is not considered to be a viable option to consider as part of the site remedy.

Surface Soil Samples to Evaluate Background Conditions

For the purposes of evaluating concentrations and areal distribution of potentially MGP-related constituents in surface soil, and to assess the potential human exposure to constituents in the surface soil 48 surface soil samples from the 0- to 2-inch BGS depth interval were collected throughout the Site during the SC and RI activities. The sample locations are depicted on Figure 1. During the SC, surface soil samples from this depth interval were also collected from potential background areas and analyzed for comparison to concentrations in on-site surface soils (BK-1 through BK-5). Five additional background samples (B-SS-1 through B-SS-5) were collected as part of the PAAFI activities from an off-site property (Ukrainian-American Citizens Club property located on Simmons Island) to further evaluate potential background conditions (see Figure 1). The analytical results from the background soil samples are provided in Table 1. The PAH concentrations in these additional background samples are below applicable SCOs and are similar to or below the concentrations measured in the background samples collected during the SC.

Analytical results for all the on-site samples were compared to the applicable Part 375 SCOs. Concentrations of one or more PAH compounds were detected above their corresponding SCO [Protection of Groundwater, Protection of Ecological Resources, or Protection of Public Health for commercially or residentially zoned properties (depending on sample location)] in 32 out of the 48 surface soil samples (see Figure 3). The comparison is presented in two tables, separated based on their location and zoning: Table 2 provides the data and the SCO comparison for samples located on the northern part of the Site that is zoned for commercial use (C-1 zoning), and Table 3 provides this same information for the samples located on the southern part of the Site that is zoned as "mixed-use" (which includes potential residential use, among others).

The concentrations of PAHs in the on-site samples were generally higher than in the background areas. Although the former MGP operations were a historical source of PAHs, given the setting of the Site, adjacent to roadways and in a commercial/industrial area, some of the PAHs are likely derived from sources unrelated to the former MGP. In general, the highest total PAH concentrations were observed east of the western gas holder and on either side of the north-south alignment of Linden Street, between the MW-2 and MW-7 well clusters.

Given the results of the comparison of the on-site data to the Part 375 SCOs and the on-site data to the background data collected during the PAAFI, a component of the site remedy will likely be required to address the areas of the Site where the concentrations of PAHs in surface soils are above applicable SCOs (e.g., with a cover system).

Preliminary Evaluation of Monitored Natural Attenuation

MNA may be proposed as a component of the overall site remedy to address dissolved-phase constituents of concern. Per NYSDEC's DER-10 Guidance ("Technical Guidance for Site Investigation and Remediation" [NYSDEC, May 2010]), MNA can be implemented once the source of dissolved-phase impacts has been addressed to the extent feasible. Natural attenuation of dissolved-phase constituents typically occurs downgradient of a source area, as the constituents migrate away from the source. Thus, at this Site, assessing the degree to which natural attenuation is occurring is challenging because most of the wells from which groundwater samples indicate impacts are located either within, or directly downgradient of source material (i.e., NAPL). A preliminary review of the data indicates, however, that conditions may be favorable for natural attenuation of site-related organic constituents (e.g., BTEX) to occur. For example: ORP is positive, and some

DO is present (oxygen is the most effective of the electron acceptors for degradation of BTEX and similar compounds); there are indicators that other electron acceptors, e.g., nitrate and sulfate, are depleted as groundwater passes through source areas, indicating they are possibly being used in biodegradation processes; and, potential degradation products are present (e.g., carbon dioxide, which may result from aerobic degradation, and methane which may results from anaerobic degradation).

The laboratory analytical results for the July/August 2011 and November 2011 sampling events are summarized in Table 4; a summary of the parameters analyzed in the field during the two sampling events conducted as part of the PAAFI is provided in Table 5.

Conclusions

With the data collected throughout the PAAFI, development of an alternatives analysis (AA) for the Site can be initiated.

The main conclusions obtained from the PAAFI are as follows:

- Based on the competency of the shallow bedrock, installation of a barrier wall keyed into the underlying bedrock using conventional methods (e.g., ripping and excavating or driving sheet piles) may not be practical. However, other methods can be considered to excavate rock for the purpose of keying in a barrier wall to address potential migration of the NAPL at the base of the overburden (e.g., bedrock drilling followed by excavation, use of a rock saw, etc.).
- NAPL was not encountered in the shallow bedrock near the river bank east of the former MGP structures in the area where the barrier wall is being considered.
- The shallow bedrock is considered to be a suitable horizon in which to key a barrier wall for addressing potential migration of NAPL in the base of the overburden.
- Concentrations of PAHs in surface soil samples from the additional background are similar to, or lower than those measured in surface soils from the background areas sampled during the SC. The concentrations of PAHs in the additional background areas are below applicable SCOs. Given the results of the comparison of the surface soil data to the Part 375 SCOs, a component of the site remedy will likely be required to address the areas of the Site where the concentrations of PAHs in surface soils are above applicable SCOs (e.g., with a cover system), even though some of these PAHs in surface soils at the site are likely derived from sources unrelated to the former MGP.
- A preliminary review of the MNA parameter analyses indicates that conditions may be favorable for natural attenuation of some site-related organic compounds to be occurring.

Schedule

A preliminary schedule for preparing an AA for the Site is presented as Attachment D. Following the NYSDEC's review of the provided schedule, please contact Steve Stucker of National Grid at (315) 428-5652 or Steven.Stucker@us.ngrid.com to discuss any comments associated with the schedule for the AA development.

References

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Tables

TABLE 1
SURFACE SOIL ANALYTICAL RESULTS (0-2") - BACKGROUND SAMPLE LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Units	BK-1 Jul-03	BK-2 Jul-03	BK-3 Jul-03	BK-4 Jul-03	BK-5 Jul-03	B-SS-1 Oct-11	B-SS-2 Oct-11
Polycyclic Aromatic Hydrocarbons (PAHs)								
Acenaphthene	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.027 J	0.0058 J
Acenaphthylene	mg/kg	0.14 J	0.38 U	0.4 U	0.36 U	0.38 U	0.043 J	0.012 J
Anthracene	mg/kg	0.27 J	0.38 U	0.4 U	0.36 U	0.38 U	0.077 J	0.031 J
Benzo(a)anthracene	mg/kg	1.1	0.16 J	0.049 J	0.039 J	0.053 J	0.46	0.21
Benzo(a)pyrene	mg/kg	1.2	0.17 J	0.051 J	0.041 J	0.38 U	0.51	0.25
Benzo(b)fluoranthene	mg/kg	0.97	0.19 J	0.052 J	0.36 U	0.058 J	0.59	0.23
Benzo(g,h,i)perylene	mg/kg	0.53 J	0.081 J	0.4 U	0.36 U	0.38 U	0.19 J	0.087 J
Benzo(k)fluoranthene	mg/kg	0.89	0.19 J	0.048 J	0.36 U	0.048 J	0.38	0.19 J
Chrysene	mg/kg	1.3	0.24 J	0.067 J	0.048 J	0.07 J	0.5	0.18 J
Dibenzo(a,h)anthracene	mg/kg	0.3 J	0.055 J	0.4 U	0.36 U	0.38 U	0.0034 U	0.0025 U
Fluoranthene	mg/kg	2.4	0.47	0.11 J	0.097 J	0.12 J	0.83	0.36
Fluorene	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.026 J	0.0049 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.92	0.16 J	0.048 J	0.039 J	0.056 J	0.29	0.17 J
Naphthalene	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.015 J	0.0062 J
Phenanthrene	mg/kg	1.4	0.31 J	0.048 J	0.069 J	0.06 J	0.46	0.14 J
Pyrene	mg/kg	1.7	0.38	0.084 J	0.082 J	0.092 J	0.9	0.32
2-Methylnaphthalene	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.0089 J	0.0046 J
Total PAHs	mg/kg	13	2.4	0.56	0.42	0.56	5.3	2.2
Other Semi-VOCs								
1,1'-Biphenyl	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.018 U	0.013 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	NA	NA	NA	NA	NA	0.03 U	0.022 U
2,4,5-Trichlorophenol	mg/kg	2 U	0.97 U	1 U	0.89 U	0.96 U	0.062 U	0.046 U
2,4,6-Trichlorophenol	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.019 U	0.014 U
2,4-Dichlorophenol	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.015 U	0.011 U
2,4-Dimethylphenol	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.077 U	0.058 U
2,4-Dinitrophenol	mg/kg	2 U	0.97 U	1 U	0.89 U	0.96 U	0.1 U	0.075 U
2,4-Dinitrotoluene	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.044 U	0.033 U
2,6-Dinitrotoluene	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.07 U	0.052 U
2-Chloronaphthalene	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.019 U	0.014 U
2-Chlorophenol	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.015 U	0.011 U
2-Methylphenol	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.0088 U	0.0065 U
2-Nitroaniline	mg/kg	2 U	0.97 U	1 U	0.89 U	0.96 U	0.092 U	0.068 U
2-Nitrophenol	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.013 U	0.0097 U
3,3'-Dichlorobenzidine	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.25 U	0.19 U

TABLE 1
SURFACE SOIL ANALYTICAL RESULTS (0-2") - BACKGROUND SAMPLE LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Units	BK-1 Jul-03	BK-2 Jul-03	BK-3 Jul-03	BK-4 Jul-03	BK-5 Jul-03	B-SS-1 Oct-11	B-SS-2 Oct-11
3-Nitroaniline	mg/kg	2 U	0.97 U	1 U	0.89 U	0.96 U	0.066 U	0.049 U
4,6-Dinitro-2-methylphenol	mg/kg	2 U	0.97 U	1 U	0.89 U	0.96 U	0.099 U	0.074 U
4-Bromophenyl-phenylether	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.091 U	0.068 U
4-Chloro-3-methylphenol	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.012 U	0.0088 U
4-Chloroaniline	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.084 U	0.062 U
4-Chlorophenyl-phenylether	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.0061 U	0.0045 U
4-Methylphenol	mg/kg	NA	NA	NA	NA	NA	0.016 U	0.0065 U
4-Nitroaniline	mg/kg	2 U	0.97 U	1 U	0.89 U	0.96 U	0.032 U	0.024 U
4-Nitrophenol	mg/kg	2 U	0.97 U	1 U	0.89 U	0.96 U	0.069 U	0.052 U
Acetophenone	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.015 U	0.011 U
Atrazine	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.013 U	0.0095 U
Benzaldehyde	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.031 U	0.023 U
Bis(-2-chloroethoxy)methane	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.016 U	0.012 U
Bis(-2-chloroethyl)ether	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.025 U	0.018 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.12 J	0.38 U	0.061 J	0.36 U	0.066 J	0.092 U	0.069 U
Butyl benzyl phthalate	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.077 U	0.057 U
Caprolactam	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.12 U	0.092 U
Carbazole	mg/kg	0.12 J	0.38 U	0.4 U	0.36 U	0.38 U	0.05 J	0.01 J
Dibenzofuran	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.014 J	0.0022 U
Diethylphthalate	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.0086 U	0.0064 U
Dimethyl phthalate	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.0074 U	0.0056 U
Di-n-butylphthalate	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.099 U	0.074 U
Di-n-octyl phthalate	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.0067 U	0.005 U

TABLE 1
SURFACE SOIL ANALYTICAL RESULTS (0-2") - BACKGROUND SAMPLE LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Units	BK-1 Jul-03	BK-2 Jul-03	BK-3 Jul-03	BK-4 Jul-03	BK-5 Jul-03	B-SS-1 Oct-11	B-SS-2 Oct-11
Hexachlorobenzene	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.014 U	0.011 U
Hexachlorobutadiene	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.015 U	0.011 U
Hexachlorocyclopentadiene	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.086 U	0.064 U
Hexachloroethane	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.022 U	0.016 U
Isophorone	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.014 U	0.011 U
Nitrobenzene	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.023 U	0.094 U
N-Nitroso-di-n-propylamine	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.016 U	0.017 U
N-Nitrosodiphenylamine	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.013 U	0.012 U
Pentachlorophenol	mg/kg	2 U	0.97 U	1 U	0.89 U	0.96 U	0.098 U	0.073 U
Phenol	mg/kg	0.8 U	0.38 U	0.4 U	0.36 U	0.38 U	0.03 U	0.022 U
Inorganic Constituents								
Cyanide, Total	mg/kg	1.21 U	1.16 U	1.22 U	1.08 U	1.16 U	0.079 U	0.06 U
Amenable cyanide	mg/kg	1.21 U	1.16 U	1.22 U	1.08 U	1.16 U	NA	NA
Aluminum	mg/kg	9170	10700	15300	10800	11900	NA	NA
Antimony	mg/kg	1.8	1.49 U	1.55 U	1.41 U	1.44 U	NA	NA
Arsenic	mg/kg	12	7.6	10.7	4.4	5.7	NA	NA
Barium	mg/kg	128	167	170	48.6	74.4	NA	NA
Beryllium	mg/kg	0.25	0.26	0.76	0.2	0.31	NA	NA
Cadmium	mg/kg	0.17	0.45	0.11	0.05 U	0.05 U	NA	NA
Calcium	mg/kg	24600 J	2570 J	5710 J	288 J	287 J	NA	NA
Chromium	mg/kg	23.4	30.1	21.8	12.8	12.6	NA	NA
Cobalt	mg/kg	9.5	10.4	18.8	4.2	5.3	NA	NA
Copper	mg/kg	57.9	32.1	46.8	57	41.4	NA	NA
Iron	mg/kg	39900	19600	33400	16000	18200	NA	NA
Lead	mg/kg	315	243	266	237	138	NA	NA
Magnesium	mg/kg	4690	3680	5260	1950	2130	NA	NA
Manganese	mg/kg	555	506	1250	118	326	NA	NA
Mercury	mg/kg	1.4	0.28	0.21	0.16	0.29	NA	NA
Nickel	mg/kg	23.8	19.7	33.8	12.8	11.9	NA	NA
Potassium	mg/kg	1460	1240	2220	508	413	NA	NA

TABLE 1
SURFACE SOIL ANALYTICAL RESULTS (0-2") - BACKGROUND SAMPLE LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Units	BK-1 Jul-03	BK-2 Jul-03	BK-3 Jul-03	BK-4 Jul-03	BK-5 Jul-03	B-SS-1 Oct-11	B-SS-2 Oct-11
Selenium	mg/kg	1.07 U	1.02 U	1.2 J	0.97 U	0.99 U	NA	NA
Silver	mg/kg	0.87	0.15 U	1	0.14 U	0.15 U	NA	NA
Sodium	mg/kg	128	83.7	70.7	39.7 U	40.7 U	NA	NA
Thallium	mg/kg	0.25 U	0.24 U	0.25 U	0.22 U	0.24 U	NA	NA
Vanadium	mg/kg	42.6	26.7	35.5	29.6	26.9	NA	NA
Zinc	mg/kg	279 J	176 J	136 J	54.4 J	53.7 J	NA	NA
Total organic carbon	mg/kg	57300	17700	59600	32200	28000	NA	NA

TABLE 1
SURFACE SOIL ANALYTICAL RESULTS (0-2") - BACKGROUND SAMPLE LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	B-SS-3 Oct-11	B-SS-4 Oct-11	B-SS-5 Oct-11	B-SS-5 DUP Oct-11
Polycyclic Aromatic Hydrocarbons (PAHs)				
Acenaphthene	0.0023 U	0.0034 J	0.0033 J	0.005 J
Acenaphthylene	0.0016 U	0.01 J	0.03 J	0.026 J
Anthracene	0.005 U	0.02 J	0.037 J	0.032 J
Benzo(a)anthracene	0.021 J	0.15 J	0.4	0.27
Benzo(a)pyrene	0.12 J	0.23	0.38	0.32
Benzo(b)fluoranthene	0.054 J	0.22 J	0.41	0.33
Benzo(g,h,i)perylene	0.012 J	0.065 J	0.11 J	0.1 J
Benzo(k)fluoranthene	0.11 J	0.17 J	0.28	0.24
Chrysene	0.025 J	0.14 J	0.34	0.27
Dibenzo(a,h)anthracene	0.023 U	0.0027 U	0.0028 U	0.0027 U
Fluoranthene	0.12 J	0.3	0.52	0.44
Fluorene	0.0045 U	0.0054 U	0.0055 U	0.0076 J
Indeno(1,2,3-cd)pyrene	0.11 J	0.16 J	0.21 J	0.2 J
Naphthalene	0.0032 U	0.0039 U	0.011 U	0.0038 U
Phenanthrene	0.012 J	0.093 J	0.15 J	0.15 J
Pyrene	0.03 J	0.25	0.5	0.41
2-Methylnaphthalene	0.0023 U	0.0028 U	0.0029 U	0.0028 U
Total PAHs	0.61	1.8	3.4	2.8
Other Semi-VOCs				
1,1'-Biphenyl	0.012 U	0.014 U	0.015 U	0.014 U
2,2'-Oxybis(1-Chloropropane)	0.02 U	0.024 U	0.025 U	0.024 U
2,4,5-Trichlorophenol	0.042 U	0.051 U	0.052 U	0.05 U
2,4,6-Trichlorophenol	0.013 U	0.015 U	0.016 U	0.015 U
2,4-Dichlorophenol	0.01 U	0.012 U	0.013 U	0.012 U
2,4-Dimethylphenol	0.052 U	0.063 U	0.065 U	0.062 U
2,4-Dinitrophenol	0.068 U	0.081 U	0.084 U	0.081 U
2,4-Dinitrotoluene	0.03 U	0.036 U	0.037 U	0.036 U
2,6-Dinitrotoluene	0.047 U	0.057 U	0.059 U	0.056 U
2-Chloronaphthalene	0.013 U	0.016 U	0.016 U	0.015 U
2-Chlorophenol	0.0099 U	0.012 U	0.012 U	0.012 U
2-Methylphenol	0.006 U	0.0072 U	0.0074 U	0.0071 U
2-Nitroaniline	0.062 U	0.075 U	0.077 U	0.074 U
2-Nitrophenol	0.0089 U	0.011 U	0.011 U	0.011 U
3,3'-Dichlorobenzidine	0.17 U	0.2 U	0.21 U	0.2 U

TABLE 1
SURFACE SOIL ANALYTICAL RESULTS (0-2") - BACKGROUND SAMPLE LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	B-SS-3 Oct-11	B-SS-4 Oct-11	B-SS-5 Oct-11	B-SS-5 DUP Oct-11
3-Nitroaniline	0.045 U	0.053 U	0.055 U	0.053 U
4,6-Dinitro-2-methylphenol	0.067 U	0.08 U	0.083 U	0.08 U
4-Bromophenyl-phenylether	0.062 U	0.074 U	0.076 U	0.073 U
4-Chloro-3-methylphenol	0.008 U	0.0096 U	0.0098 U	0.095 U
4-Chloroaniline	0.057 U	0.068 U	0.07 U	0.068 U
4-Chlorophenyl-phenylether	0.0041 U	0.005 U	0.0051 U	0.0049 U
4-Methylphenol	0.011 U	0.013 U	0.013 U	0.013 U
4-Nitroaniline	0.022 U	0.026 U	0.027 U	0.026 U
4-Nitrophenol	0.047 U	0.056 U	0.058 U	0.056 U
Acetophenone	0.01 U	0.012 U	0.012 U	0.012 U
Atrazine	0.0086 U	0.01 U	0.011 U	0.01 U
Benzaldehyde	0.021 U	0.026 U	0.026 U	0.025 U
Bis(-2-chloroethoxy)methane	0.011 U	0.013 U	0.013 U	0.013 U
Bis(-2-chloroethyl)ether	0.017 U	0.02 U	0.021 U	0.02 U
Bis(2-ethylhexyl)phthalate	0.1 J	0.075 U	0.16 J	0.074 U
Butyl benzyl phthalate	0.052 U	0.062 U	0.064 U	0.062 U
Caprolactam	0.084 U	0.1 U	0.1 U	0.01 U
Carbazole	0.0022 U	0.0092 J	0.01 J	0.012 J
Dibenzofuran	0.002 U	0.0024 U	0.0025 U	0.0045 J
Diethylphthalate	0.0059 U	0.007 U	0.0076 J	0.007 U
Dimethyl phthalate	0.0051 U	0.0061 U	0.0062 U	0.006 U
Di-n-butylphthalate	0.067 U	0.08 U	0.083 U	0.08 U
Di-n-octyl phthalate	0.0045 U	0.0054 U	0.0056 U	0.0054 U

TABLE 1
SURFACE SOIL ANALYTICAL RESULTS (0-2") - BACKGROUND SAMPLE LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	B-SS-3 Oct-11	B-SS-4 Oct-11	B-SS-5 Oct-11	B-SS-5 DUP Oct-11
Hexachlorobenzene	0.0096 U	0.012 U	0.012 U	0.011 U
Hexachlorobutadiene	0.0099 U	0.012 U	0.012 U	0.012 U
Hexachlorocyclopentadiene	0.059 U	0.07 U	0.072 U	0.07 U
Hexachloroethane	0.015 U	0.018 U	0.019 U	0.018 U
Isophorone	0.0097 U	0.012 U	0.012 U	0.012 U
Nitrobenzene	0.015 U	0.018 U	0.019 U	0.018 U
N-Nitroso-di-n-propylamine	0.011 U	0.013 U	0.013 U	0.013 U
N-Nitrosodiphenylamine	0.0086 U	0.01 U	0.004 U	0.01 U
Pentachlorophenol	0.067 U	0.08 U	0.082 U	0.079 U
Phenol	0.02 U	0.024 U	0.025 U	0.024 U
Inorganic Constituents				
Cyanide, Total	0.055 U	0.67 U	0.067 U	0.066 U
Amenable cyanide	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA
Antimony	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA
Barium	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA
Calcium	NA	NA	NA	NA
Chromium	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA
Copper	NA	NA	NA	NA
Iron	NA	NA	NA	NA
Lead	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA
Manganese	NA	NA	NA	NA
Mercury	NA	NA	NA	NA
Nickel	NA	NA	NA	NA
Potassium	NA	NA	NA	NA

TABLE 1
SURFACE SOIL ANALYTICAL RESULTS (0-2") - BACKGROUND SAMPLE LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	B-SS-3 Oct-11	B-SS-4 Oct-11	B-SS-5 Oct-11	B-SS-5 DUP Oct-11
Selenium	NA	NA	NA	NA
Silver	NA	NA	NA	NA
Sodium	NA	NA	NA	NA
Thallium	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA
Zinc	NA	NA	NA	NA
Total organic carbon	NA	NA	NA	NA

Notes:
U - The analyte was analyzed for, but was not detected.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
NA- Not analyzed.

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-1 6/23/2003	SS-2 6/23/2003	SS-3 6/23/2003	SS-4 6/23/2003	SS-5 6/23/2003	SS-6 6/23/2003
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	500	20	98	mg/kg	0.86 UD	0.069 J	0.42 U	14 UD	14 UD	0.39 U
Acenaphthylene	500	NE	107	mg/kg	0.35 JD	0.15 J	0.14 J	7.6 JD	14 UD	0.062 J
Anthracene	500	NE	1000	mg/kg	0.23 JD	0.29 J	0.14 J	4.2 JD	14 UD	0.11 J
Benzo(a)anthracene	5.6	NE	1	mg/kg	**2.1 D**	**1.6**	0.78	**15 D**	**9.1 JD**	0.48
Benzo(a)pyrene	1	2.6	22	mg/kg	**1.8 D**	**1.6**	0.82	**19 D**	**12 JD**	0.38 J
Benzo(b)fluoranthene	5.6	NE	1.7	mg/kg	**2.1 D**	**1.7**	0.89	**15 D**	**18 D**	0.49
Benzo(g,h,i)perylene	500	NE	1000	mg/kg	1.2 D	1	0.6	16 D	6.6 JD	0.3 J
Benzo(k)fluoranthene	56	NE	1.7	mg/kg	**1.7 D**	1.1	0.68	**14 JD**	**8.8 JD**	0.33 J
Chrysene	56	NE	1	mg/kg	**2.7 D**	**1.7**	0.88	**23 D**	**15 D**	0.53
Dibenzo(a,h)anthracene	0.56	NE	1000	mg/kg	0.53 JD	0.41 J	0.26 J	**6.1 JD**	**2.6 JD**	0.12 J
Fluoranthene	500	NE	1000	mg/kg	2.5 D	3.5	1.1	20 D	22 D	0.84
Fluorene	500	30	386	mg/kg	0.86 UD	0.075 J	0.42 U	14 UD	14 UD	0.39 U
Indeno(1,2,3-cd)pyrene	5.6	NE	8.2	mg/kg	1.7 D	1.3	0.84	**19 D**	**9.6 JD**	0.39 J
Naphthalene	500	NE	12	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
Phenanthrene	500	NE	1000	mg/kg	0.86 JD	1.5	0.4 J	8.9 JD	4.4 JD	0.33 J
Pyrene	500	NE	1000	mg/kg	3.5 D	2.9	1.2	41 D	18 D	0.84
2-Methylnaphthalene	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
Total PAHs	NE	NE	NE	mg/kg	21	19	8.7	209	126	5.2
Other Semi-VOCs										
1,1'-Biphenyl	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
2,2'-Oxybis(1-Chloropropane)	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	2.2 UD	1.1 U	1.1 U	36 UD	34 UD	0.99 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	2.2 UD	1.1 U	1.1 U	36 UD	34 UD	0.99 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
2-Chloronaphthalene	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
2-Chlorophenol	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
2-Methylphenol	500	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
2-Nitroaniline	NE	NE	NE	mg/kg	2.2 UD	1.1 U	1.1 U	36 UD	34 UD	0.99 U

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-1 6/23/2003	SS-2 6/23/2003	SS-3 6/23/2003	SS-4 6/23/2003	SS-5 6/23/2003	SS-6 6/23/2003
2-Nitrophenol	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
3-Nitroaniline	NE	NE	NE	mg/kg	2.2 UD	1.1 U	1.1 U	36 UD	34 UD	0.99 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	2.2 UD	1.1 U	1.1 U	36 UD	34 UD	0.99 U
4-Bromophenyl-phenylether	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
4-Chloroaniline	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
4-Chlorophenyl-phenylether	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
4-Methylphenol	NE	NE	NE	mg/kg						
4-Nitroaniline	NE	NE	NE	mg/kg	2.2 UD	1.1 U	1.1 U	36 UD	34 UD	0.99 U
4-Nitrophenol	NE	NE	NE	mg/kg	2.2 UD	1.1 U	1.1 U	36 UD	34 UD	0.99 U
Acetophenone	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
Atrazine	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
Benzaldehyde	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
Bis(-2-chloroethoxy)methane	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
Bis(-2-chloroethyl)ether	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
Bis(2-ethylhexyl)phthalate	NE	NE	NE	mg/kg	0.1 JD	0.06 J	0.086 J	14 UD	14 UD	0.14 J
Butyl benzyl phthalate	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
Caprolactam	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
Carbazole	NE	NE	NE	mg/kg	0.86 UD	0.11 J	0.046 J	14 UD	14 UD	0.39 U
Dibenzofuran	350	NE	210	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
Diethylphthalate	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
Dimethyl phthalate	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
Di-n-butylphthalate	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
Di-n-octyl phthalate	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
Hexachlorobenzene	6	NE	3.2	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
Hexachlorobutadiene	NE	NE	NE	mg/kg						
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
Hexachloroethane	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
Isophorone	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
Nitrobenzene	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-1 6/23/2003	SS-2 6/23/2003	SS-3 6/23/2003	SS-4 6/23/2003	SS-5 6/23/2003	SS-6 6/23/2003
Pentachlorophenol	6.7	0.8	0.8	mg/kg	2.2 UD	1.1 U	1.1 U	36 UD	34 UD	0.99 U
Phenol	500	30	0.33	mg/kg	0.86 UD	0.44 U	0.42 U	14 UD	14 UD	0.39 U
Inorganic Constituents										
Cyanide, Total	27	NE	40	mg/kg	1.3 U	1.33 U	1.28 U	1.46 U	1.38 U	1.2 U
Cyanide, Free	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	NE	mg/kg	14200	12400	9140	12200	10500	10800
Antimony	NE	NE	NE	mg/kg	1.66 UN	1.74 UN	1.67 UN	2.6 BN	1.75 UN	1.55 UN
Arsenic	16	13	16	mg/kg	**13.2**	**13.8**	8.9	**15.1**	7.8	7
Barium	400	433	820	mg/kg	161	155	108	140	87.2	72.8
Beryllium	590	10	47	mg/kg	0.44 B	0.24 B	0.15 B	0.1 B	0.2 B	0.32 B
Cadmium	9.3	4	7.5	mg/kg	0.81 B	0.65 B	0.33 B	0.71 B	0.53 B	0.22 B
Calcium	NE	NE	NE	mg/kg	5310	3840	3030	7330	10300	1790
Chromium	1500	41	NE	mg/kg	26	22.7	18.2	23.8	21.7	16.7
Cobalt	NE	NE	NE	mg/kg	16.7	13.1 B	9.8 B	13 B	9.5 B	13.4
Copper	270	50	1720	mg/kg	**65.5**	**70.2**	36.8	**79**	38.4	33.1
Iron	NE	NE	NE	mg/kg	31200	29500	20500	29100	26700	24100
Lead	1000	63	450	mg/kg	**262**	**508**	**148**	**393**	60.5	38.3
Magnesium	NE	NE	NE	mg/kg	5670 *	4320 *	3750 *	4500 *	7550 *	4720 *
Manganese	10000	1600	2000	mg/kg	935	633	472	656	760	609
Mercury	2.8	0.18	0.73	mg/kg	**1.5**	**0.98**	**0.65**	**0.88**	0.16	0.08 B
Nickel	310	30	130	mg/kg	**32.4**	27.6	20.6	28.6	24.1	23.3
Potassium	NE	NE	NE	mg/kg	2420	2070	1620	2180	1420	1260
Selenium	1500	3.9	4	mg/kg	0.7 B	1 B	0.64 B	1.7 S	0.7 B	0.51 B

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-1 6/23/2003	SS-2 6/23/2003	SS-3 6/23/2003	SS-4 6/23/2003	SS-5 6/23/2003	SS-6 6/23/2003
Silver	1500	2	8.3	mg/kg	0.25 B	0.34 B	0.17 U	0.29 B	0.18 U	0.17 B
Sodium	NE	NE	NE	mg/kg	134 B	125 B	82.7 B	133 B	77.1 B	45.8 B
Vanadium	NE	NE	NE	mg/kg	38.8	40.5	27.5	39.2	28.6	23.5
Zinc	10000	109	2480	mg/kg	**293**	**279**	**126**	**301**	**164**	88.6
Total Organic Carbon	NE	NE	NE	mg/kg	56700	59700	20000	108000	23600	26900

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-7 6/23/2003	SS-8 6/23/2003	SS-9 6/23/2003	SS-10 6/23/2003	SS-11 6/23/2003
Polycyclic Aromatic Hydrocarbons (PAHs)									
Acenaphthene	500	20	98	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
Acenaphthylene	500	NE	107	mg/kg	0.11 J	0.39 U	0.044 J	0.47 JD	0.37 U
Anthracene	500	NE	1000	mg/kg	0.11 J	0.39 U	0.053 J	0.78 JD	0.37 U
Benzo(a)anthracene	5.6	NE	1	mg/kg	0.31 J	0.12 J	0.2 J	**2.3 D**	0.37 U
Benzo(a)pyrene	1	2.6	22	mg/kg	0.29 J	0.13 J	0.23 J	**2.1 D**	0.37 U
Benzo(b)fluoranthene	5.6	NE	1.7	mg/kg	0.34 J	0.18 J	0.25 J	**2.3 D**	0.37 U
Benzo(g,h,i)perylene	500	NE	1000	mg/kg	0.18 J	0.1 J	0.24 J	1.2 JD	0.37 U
Benzo(k)fluoranthene	56	NE	1.7	mg/kg	0.28 J	0.1 J	0.16 J	1.2 JD	0.37 U
Chrysene	56	NE	1	mg/kg	0.43	0.18 J	0.25 J	**3.3 D**	0.37 U
Dibenzo(a,h)anthracene	0.56	NE	1000	mg/kg	0.088 J	0.39 U	0.077 J	0.55 JD	0.37 U
Fluoranthene	500	NE	1000	mg/kg	0.53	0.21 J	0.25 J	3.3 D	0.37 U
Fluorene	500	30	386	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
Indeno(1,2,3-cd)pyrene	5.6	NE	8.2	mg/kg	0.25 J	0.13 J	0.25 J	1.5 JD	0.37 U
Naphthalene	500	NE	12	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
Phenanthrene	500	NE	1000	mg/kg	0.25 J	0.069 J	0.1 J	3.4 D	0.37 U
Pyrene	500	NE	1000	mg/kg	0.6	0.21 J	0.33 J	4.7 D	0.37 U
2-Methylnaphthalene	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	0.25 JD	0.37 U
Total PAHs	NE	NE	NE	mg/kg	3.8	1.4	2.4	27	ND
Other Semi-VOCs									
1,1'-Biphenyl	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
2,2'-Oxybis(1-Chloropropane)	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	1 U	0.98 U	1 U	4.8 UD	0.93 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	1 U	0.98 U	1 U	4.8 UD	0.93 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
2-Chloronaphthalene	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
2-Chlorophenol	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
2-Methylphenol	500	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
2-Nitroaniline	NE	NE	NE	mg/kg	1 U	0.98 U	1 U	4.8 UD	0.93 U

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-7 6/23/2003	SS-8 6/23/2003	SS-9 6/23/2003	SS-10 6/23/2003	SS-11 6/23/2003
2-Nitrophenol	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
3-Nitroaniline	NE	NE	NE	mg/kg	1 U	0.98 U	1 U	4.8 UD	0.93 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	1 U	0.98 U	1 U	4.8 UD	0.93 U
4-Bromophenyl-phenylether	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
4-Chloroaniline	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
4-Chlorophenyl-phenylether	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
4-Methylphenol	NE	NE	NE	mg/kg					
4-Nitroaniline	NE	NE	NE	mg/kg	1 U	0.98 U	1 U	4.8 UD	0.93 U
4-Nitrophenol	NE	NE	NE	mg/kg	1 U	0.98 U	1 U	4.8 UD	0.93 U
Acetophenone	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
Atrazine	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
Benzaldehyde	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
Bis(-2-chloroethoxy)methane	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
Bis(-2-chloroethyl)ether	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
Bis(2-ethylhexyl)phthalate	NE	NE	NE	mg/kg	0.4 U	0.052 J	0.074 J	1.9 UD	0.37 U
Butyl benzyl phthalate	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
Caprolactam	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
Carbazole	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
Dibenzofuran	350	NE	210	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
Diethylphthalate	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
Dimethyl phthalate	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
Di-n-butylphthalate	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.044 J	1.9 UD	0.37 U
Di-n-octyl phthalate	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
Hexachlorobenzene	6	NE	3.2	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
Hexachlorobutadiene	NE	NE	NE	mg/kg					
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
Hexachloroethane	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
Isophorone	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
Nitrobenzene	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]								
Constituent	Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-7 6/23/2003	SS-8 6/23/2003	SS-9 6/23/2003	SS-10 6/23/2003	SS-11 6/23/2003
Pentachlorophenol	6.7	0.8	0.8	mg/kg	1 U	0.98 U	1 U	4.8 UD	0.93 U
Phenol	500	30	0.33	mg/kg	0.4 U	0.39 U	0.42 U	1.9 UD	0.37 U
Inorganic Constituents									
Cyanide, Total	27	NE	40	mg/kg	1.2 U	1.18 U	1.26 U	1.17 U	1.11 U
Cyanide, Free	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Aluminum	NE	NE	NE	mg/kg	7060	10700	8090	7820	9870
Antimony	NE	NE	NE	mg/kg	1.52 UN	1.54 UN	1.57 UN	1.47 UN	1.41 UN
Arsenic	16	13	16	mg/kg	3.6	7	6.2	9	6.8
Barium	400	433	820	mg/kg	31.3 B	106	42.4 B	159	114
Beryllium	590	10	47	mg/kg	0.02 U	0.33 B	0.15 B	0.09 B	0.4 B
Cadmium	9.3	4	7.5	mg/kg	0.16 B	0.3 B	0.24 B	0.53 B	0.22 B
Calcium	NE	NE	NE	mg/kg	1870	5290	8860	12800	6960
Chromium	1500	41	NE	mg/kg	7.8	15.1	12.8	13.3	13.3
Cobalt	NE	NE	NE	mg/kg	5.1 B	10.6 B	8.1 B	7 B	10.6
Copper	270	50	1720	mg/kg	12.5	26.3	21	28.3	25.1
Iron	NE	NE	NE	mg/kg	14100	25900	19500	21500	23400
Lead	1000	63	450	mg/kg	14.2	34.5	28.9	**126**	13.8
Magnesium	NE	NE	NE	mg/kg	2300 *	6230 *	5760 *	5810 *	5960 *
Manganese	10000	1600	2000	mg/kg	267	702	360	539	766
Mercury	2.8	0.18	0.73	mg/kg	0.02 B	0.1 B	0.04 B	0.1 B	0.02 B
Nickel	310	30	130	mg/kg	10.7	21.7	20.2	20.3	20.6
Potassium	NE	NE	NE	mg/kg	696 B	1160 B	974 B	965 B	955 B
Selenium	1500	3.9	4	mg/kg	0.34 U	0.55 B	0.59 B	0.76 B	0.32 UW

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-7 6/23/2003	SS-8 6/23/2003	SS-9 6/23/2003	SS-10 6/23/2003	SS-11 6/23/2003
Silver	1500	2	8.3	mg/kg	0.15 U	0.16 B	0.16 U	0.15 U	0.14 U
Sodium	NE	NE	NE	mg/kg	53 B	83.3 B	68.5 B	76.3 B	48.4 B
Vanadium	NE	NE	NE	mg/kg	15.7	21.5	19.8	20.7	17.5
Zinc	10000	109	2480	mg/kg	45.3	**141**	71.4	**122**	73.4
Total Organic Carbon	NE	NE	NE	mg/kg	7560	27300	11500	38700	6580

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-12 6/23/2003	SS-13 6/23/2003	SS-14 6/17/2003	SS-15 6/17/2003	SS-16 6/17/2003
Polycyclic Aromatic Hydrocarbons (PAHs)									
Acenaphthene	500	20	98	mg/kg	0.4 U	0.23 JD	0.42 U	4.9 UD	4.5 UD
Acenaphthylene	500	NE	107	mg/kg	0.29 J	0.37 JD	0.075 J	19 D	2 JD
Anthracene	500	NE	1000	mg/kg	0.25 J	0.73 JD	0.13 J	11 D	2.4 JD
Benzo(a)anthracene	5.6	NE	1	mg/kg	**1.1**	**2.8 D**	0.49	**21 D**	**8.5 D**
Benzo(a)pyrene	1	2.6	22	mg/kg	**1.1**	**2.7 D**	0.45	**11 D**	**8.8 D**
Benzo(b)fluoranthene	5.6	NE	1.7	mg/kg	1.5	**2.7 D**	0.56	**27 D**	**9.2 D**
Benzo(g,h,i)perylene	500	NE	1000	mg/kg	1.5	1.6 D	0.19 J	7.1 D	5.7 D
Benzo(k)fluoranthene	56	NE	1.7	mg/kg	0.93	**2.1 D**	0.31 J	**21 D**	**5.9 D**
Chrysene	56	NE	1	mg/kg	**1.6**	**3 D**	0.51	**37 D**	**8.8 D**
Dibenzo(a,h)anthracene	0.56	NE	1000	mg/kg	0.46	**0.64 JD**	0.12 J	**6.2 D**	**2.4 JD**
Fluoranthene	500	NE	1000	mg/kg	1.6	4.8 D	0.86	24 D	13 D
Fluorene	500	30	386	mg/kg	0.4 U	0.19 JD	0.42 U	0.68 JD	4.5 UD
Indeno(1,2,3-cd)pyrene	5.6	NE	8.2	mg/kg	1.5	2 D	0.38 J	**16 D**	**7.6 D**
Naphthalene	500	NE	12	mg/kg	0.087 J	0.25 JD	0.052 J	0.77 JD	4.5 UD
Phenanthrene	500	NE	1000	mg/kg	0.74	2.8 D	0.31 J	7.5 D	5.1 D
Pyrene	500	NE	1000	mg/kg	1.9	4.5 D	0.69	25 D	15 D
2-Methylnaphthalene	NE	NE	NE	mg/kg	0.07 J	0.24 JD	0.42 U	4.9 UD	4.5 UD
Total PAHs	NE	NE	NE	mg/kg	15	32	5.1	234	94
Other Semi-VOCs									
1,1'-Biphenyl	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
2,2'-Oxybis(1-Chloropropane)	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	1 U	3.1 UD	1.1 U	12 UD	11 UD
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
2,4-Dichlorophenol	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
2,4-Dimethylphenol	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
2,4-Dinitrophenol	NE	NE	NE	mg/kg	1 U	3.1 UD	1.1 U	12 UD	11 UD
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
2-Chloronaphthalene	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
2-Chlorophenol	NE	NE	NE	mg/kg	0.4 U	1.3 UD	2	4.9 UD	4.5 UD
2-Methylphenol	500	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
2-Nitroaniline	NE	NE	NE	mg/kg	1 U	3.1 UD	1.1 U	12 UD	11 UD

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]								
Constituent	Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-12 6/23/2003	SS-13 6/23/2003	SS-14 6/17/2003	SS-15 6/17/2003	SS-16 6/17/2003
2-Nitrophenol	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
3-Nitroaniline	NE	NE	NE	mg/kg	1 U	3.1 UD	1.1 U	12 UD	11 UD
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	1 U	3.1 UD	1.1 U	12 UD	11 UD
4-Bromophenyl-phenylether	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
4-Chloroaniline	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
4-Chlorophenyl-phenylether	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
4-Methylphenol	NE	NE	NE	mg/kg					
4-Nitroaniline	NE	NE	NE	mg/kg	1 U	3.1 UD	1.1 U	12 UD	11 UD
4-Nitrophenol	NE	NE	NE	mg/kg	1 U	3.1 UD	1.1 U	12 UD	11 UD
Acetophenone	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
Atrazine	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
Benzaldehyde	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
Bis(-2-chloroethoxy)methane	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
Bis(-2-chloroethyl)ether	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
Bis(2-ethylhexyl)phthalate	NE	NE	NE	mg/kg	0.05 J	0.13 JD	0.11 JB	0.8 JD	4.5 UD
Butyl benzyl phthalate	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
Caprolactam	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
Carbazole	NE	NE	NE	mg/kg	0.057 J	0.2 JD	0.42 U	0.9 JD	4.5 UD
Dibenzofuran	350	NE	210	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
Diethylphthalate	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
Dimethyl phthalate	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
Di-n-butylphthalate	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
Di-n-octyl phthalate	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
Hexachlorobenzene	6	NE	3.2	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
Hexachlorobutadiene	NE	NE	NE	mg/kg					
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
Hexachloroethane	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
Isophorone	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
Nitrobenzene	NE	NE	NE	mg/kg	0.4 U	1.3 UD	1.2	4.9 UD	4.5 UD
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]								
Constituent	Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-12 6/23/2003	SS-13 6/23/2003	SS-14 6/17/2003	SS-15 6/17/2003	SS-16 6/17/2003
Pentachlorophenol	6.7	0.8	0.8	mg/kg	1 U	3.1 UD	1.1 U	12 UD	11 UD
Phenol	500	30	0.33	mg/kg	0.4 U	1.3 UD	0.42 U	4.9 UD	4.5 UD
Inorganic Constituents									
Cyanide, Total	27	NE	40	mg/kg	1.21 U	1.26 U	1.28 U	1.55	1.35 U
Cyanide, Free	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Aluminum	NE	NE	NE	mg/kg	9400	8740	13300	6030	9580
Antimony	NE	NE	NE	mg/kg	1.57 UN	1.62 UN	79.1 N	1.93 UN	1.73 UN
Arsenic	16	13	16	mg/kg	9	6.6	9.2	**40.7**	11.1
Barium	400	433	820	mg/kg	117	95.6	115	169	132
Beryllium	590	10	47	mg/kg	0.02 U	0.11 B	0.4 B	0.03 U	0.03 B
Cadmium	9.3	4	7.5	mg/kg	0.37 B	0.39 B	0.27 B	0.65 B	0.63 B
Calcium	NE	NE	NE	mg/kg	3030	4720	5950	7180	46600
Chromium	1500	41	NE	mg/kg	18	15.2	22.4	33.1	20.7
Cobalt	NE	NE	NE	mg/kg	9.6 B	9.2 B	13.8	10.2 B	9.8 B
Copper	270	50	1720	mg/kg	30.6	33.2	**53.6 ***	**58.2 ***	**58 ***
Iron	NE	NE	NE	mg/kg	24400	21600	29200	36300	25800
Lead	1000	63	450	mg/kg	**105**	**170**	**13100 ***	**365 ***	**387 ***
Magnesium	NE	NE	NE	mg/kg	4530 *	4080 *	6630	2620	4600
Manganese	10000	1600	2000	mg/kg	482	511	986 N*	447 N*	471 N*
Mercury	2.8	0.18	0.73	mg/kg	**0.45**	0.16	**0.18**	**0.43**	**0.92**
Nickel	310	30	130	mg/kg	23.2	20.1	**32.3**	28.6	23.5
Potassium	NE	NE	NE	mg/kg	1260	1220 B	1510 E	1480 E	1330 E
Selenium	1500	3.9	4	mg/kg	0.86 B	0.93 BW	0.73 B	2.1	0.8 B

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-12 6/23/2003	SS-13 6/23/2003	SS-14 6/17/2003	SS-15 6/17/2003	SS-16 6/17/2003
Silver	1500	2	8.3	mg/kg	0.16 U	0.16 U	1.8 B	0.76 B	0.17 U
Sodium	NE	NE	NE	mg/kg	115 B	68.1 B	197 B	210 B	210 B
Vanadium	NE	NE	NE	mg/kg	28.4	23.9	30.3	44.1	27.7
Zinc	10000	109	2480	mg/kg	**145**	**127**	**157 *E**	**185 *E**	**239 *E**
Total Organic Carbon	NE	NE	NE	mg/kg	36600	38500	44300	100000	44000

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-17 10/29/2003	SS-18 10/29/2003	SS-21 10/29/2003	SS-22 10/29/2003	SS-23 10/29/2003
Polycyclic Aromatic Hydrocarbons (PAHs)									
Acenaphthene	500	20	98	mg/kg	0.56 JD	23 UD	5.4 JD	23 UD	0.37 JD
Acenaphthylene	500	NE	107	mg/kg	2.2 JD	21 JD	1.1 JD	12 JD	1.1 JD
Anthracene	500	NE	1000	mg/kg	2.4 JD	6.9 JD	17 D	14 JD	1.4 JD
Benzo(a)anthracene	5.6	NE	1	mg/kg	**7.9 D**	**19 JD**	**39 D**	**48 D**	**4.8 D**
Benzo(a)pyrene	1	2.6	22	mg/kg	**10 D**	**12 JD**	**35 D**	**56 D**	**5 D**
Benzo(b)fluoranthene	5.6	NE	1.7	mg/kg	**7 D**	**13 JD**	**27 D**	**49 D**	**4.3 D**
Benzo(g,h,i)perylene	500	NE	1000	mg/kg	9.4 D	12 JD	19 D	55 D	3.5 D
Benzo(k)fluoranthene	56	NE	1.7	mg/kg	**7.8 D**	**18 JD**	**28 D**	**53 D**	**4.3 D**
Chrysene	56	NE	1	mg/kg	**8.7 D**	**29 D**	**39 D**	**53 D**	**5.5 D**
Dibenzo(a,h)anthracene	0.56	NE	1000	mg/kg	**2.8 JD**	**4.2 JD**	**6.8 JD**	**16 JD**	**1.2 JD**
Fluoranthene	500	NE	1000	mg/kg	12 D	19 JD	100 D	75 D	9.3 D
Fluorene	500	30	386	mg/kg	0.51 JD	23 UD	4.8 JD	2.4 JD	0.4 JD
Indeno(1,2,3-cd)pyrene	5.6	NE	8.2	mg/kg	**8 D**	**11 JD**	**18 D**	**47 D**	3.1 D
Naphthalene	500	NE	12	mg/kg	0.56 JD	23 UD	3 JD	23 UD	2.4 UD
Phenanthrene	500	NE	1000	mg/kg	7.5 D	7.3 JD	72 D	38 D	5.7 D
Pyrene	500	NE	1000	mg/kg	12 D	33 D	69 D	63 D	7.8 D
2-Methylnaphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Total PAHs	NE	NE	NE	mg/kg	99	205	484	581	58
Other Semi-VOCs									
1,1'-Biphenyl	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,4-Dimethylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2-Chloronaphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2-Chlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2-Methylphenol	500	NE	NE	mg/kg	NA	NA	NA	NA	NA
2-Nitroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]								
Constituent	Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-17 10/29/2003	SS-18 10/29/2003	SS-21 10/29/2003	SS-22 10/29/2003	SS-23 10/29/2003
2-Nitrophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
3-Nitroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Chloroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Methylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Nitroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Nitrophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Acetophenone	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Atrazine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Bis(-2-chloroethoxy)methane	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Bis(-2-chloroethyl)ether	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Carbazole	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Dibenzofuran	350	NE	210	mg/kg	NA	NA	NA	NA	NA
Diethylphthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Di-n-butylphthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Hexachlorobenzene	6	NE	3.2	mg/kg	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Isophorone	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-17 10/29/2003	SS-18 10/29/2003	SS-21 10/29/2003	SS-22 10/29/2003	SS-23 10/29/2003
Pentachlorophenol	6.7	0.8	0.8	mg/kg	NA	NA	NA	NA	NA
Phenol	500	30	0.33	mg/kg	NA	NA	NA	NA	NA
Inorganic Constituents									
Cyanide, Total	27	NE	40	mg/kg	NA	NA	NA	NA	NA
Cyanide, Free	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Aluminum	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Antimony	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Arsenic	16	13	16	mg/kg	NA	NA	NA	NA	NA
Barium	400	433	820	mg/kg	NA	NA	NA	NA	NA
Beryllium	590	10	47	mg/kg	NA	NA	NA	NA	NA
Cadmium	9.3	4	7.5	mg/kg	NA	NA	NA	NA	NA
Calcium	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Chromium	1500	41	NE	mg/kg	NA	NA	NA	NA	NA
Cobalt	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Copper	270	50	1720	mg/kg	NA	NA	NA	NA	NA
Iron	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Lead	1000	63	450	mg/kg	NA	NA	NA	NA	NA
Magnesium	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Manganese	10000	1600	2000	mg/kg	NA	NA	NA	NA	NA
Mercury	2.8	0.18	0.73	mg/kg	NA	NA	NA	NA	NA
Nickel	310	30	130	mg/kg	NA	NA	NA	NA	NA
Potassium	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Selenium	1500	3.9	4	mg/kg	NA	NA	NA	NA	NA

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-17 10/29/2003	SS-18 10/29/2003	SS-21 10/29/2003	SS-22 10/29/2003	SS-23 10/29/2003
Silver	1500	2	8.3	mg/kg	NA	NA	NA	NA	NA
Sodium	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Vanadium	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Zinc	10000	109	2480	mg/kg	NA	NA	NA	NA	NA
Total Organic Carbon	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-24 10/29/2003	SS-25 10/29/2003	SS-26 10/29/2003	SS-27 10/29/2003	SS-28 10/29/2003	SS-29 10/29/2003
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	500	20	98	mg/kg	2.4 UD	0.88 UD	2.4 UD	0.12 JD	25 UD	28 UD
Acenaphthylene	500	NE	107	mg/kg	1.4 JD	0.44 JD	2.6 D	0.87 JD	25 UD	28 UD
Anthracene	500	NE	1000	mg/kg	0.52 JD	0.19 JD	1.3 JD	0.68 JD	25 UD	28 UD
Benzo(a)anthracene	5.6	NE	1	mg/kg	**2 JD**	0.78 JD	**2.6 D**	**2.6 D**	**9.3 JD**	**8 JD**
Benzo(a)pyrene	1	2.6	22	mg/kg	**2.1 JD**	0.81 JD	**2.7 D**	**2.8 D**	**12 JD**	**12 JD**
Benzo(b)fluoranthene	5.6	NE	1.7	mg/kg	**1.8 JD**	0.82 JD	**2.4 D**	**2.1 D**	**13 JD**	**13 JD**
Benzo(g,h,i)perylene	500	NE	1000	mg/kg	1.9 JD	1.1 D	2.7 D	2 D	10 JD	15 JD
Benzo(k)fluoranthene	56	NE	1.7	mg/kg	**2 JD**	0.9 D	**2.5 D**	**2.3 D**	**12 JD**	**13 JD**
Chrysene	56	NE	1	mg/kg	**2.6 D**	**1.1 D**	**3.6 D**	**3.3 D**	**14 JD**	**16 JD**
Dibenzo(a,h)anthracene	0.56	NE	1000	mg/kg	**0.59 JD**	0.29 JD	**0.8 JD**	**0.59 JD**	**2.7 JD**	**4 JD**
Fluoranthene	500	NE	1000	mg/kg	2.8 D	0.95 D	3.3 D	4.9 D	24 JD	21 JD
Fluorene	500	30	386	mg/kg	2.4 UD	0.88 UD	2.4 UD	0.12 JD	25 UD	28 UD
Indeno(1,2,3-cd)pyrene	5.6	NE	8.2	mg/kg	1.6 JD	0.85 JD	2.2 JD	1.7 D	**8.7 JD**	**12 JD**
Naphthalene	500	NE	12	mg/kg	2.4 UD	0.15 JD	0.26 JD	0.14 JD	25 UD	28 UD
Phenanthrene	500	NE	1000	mg/kg	1.2 JD	0.46 JD	2 JD	2.8 D	4.5 JD	4.2 JD
Pyrene	500	NE	1000	mg/kg	3.1 D	1.2 D	4.5 D	5.1 D	15 JD	19 JD
2-Methylnaphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Total PAHs	NE	NE	NE	mg/kg	24	10	33	32	125	137
Other Semi-VOCs										
1,1'-Biphenyl	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2-Methylphenol	500	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2-Nitroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]									
Constituent	Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-24 10/29/2003	SS-25 10/29/2003	SS-26 10/29/2003	SS-27 10/29/2003	SS-28 10/29/2003	SS-29 10/29/2003
2-Nitrophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Methylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Acetophenone	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Bis(-2-chloroethoxy)methane	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Bis(-2-chloroethyl)ether	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Dibenzofuran	350	NE	210	mg/kg	NA	NA	NA	NA	NA	NA
Diethylphthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	6	NE	3.2	mg/kg	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-24 10/29/2003	SS-25 10/29/2003	SS-26 10/29/2003	SS-27 10/29/2003	SS-28 10/29/2003	SS-29 10/29/2003
Pentachlorophenol	6.7	0.8	0.8	mg/kg	NA	NA	NA	NA	NA	NA
Phenol	500	30	0.33	mg/kg	NA	NA	NA	NA	NA	NA
Inorganic Constituents										
Cyanide, Total	27	NE	40	mg/kg	NA	NA	NA	NA	NA	NA
Cyanide, Free	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	16	13	16	mg/kg	NA	NA	NA	NA	NA	NA
Barium	400	433	820	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	590	10	47	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	9.3	4	7.5	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	1500	41	NE	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Copper	270	50	1720	mg/kg	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1000	63	450	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	10000	1600	2000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	2.8	0.18	0.73	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	310	30	130	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	1500	3.9	4	mg/kg	NA	NA	NA	NA	NA	NA

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]									
Constituent	Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-24 10/29/2003	SS-25 10/29/2003	SS-26 10/29/2003	SS-27 10/29/2003	SS-28 10/29/2003	SS-29 10/29/2003
Silver	1500	2	8.3	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	10000	109	2480	mg/kg	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-30 10/29/2003	SS-31 10/29/2003	SS-32 10/29/2003	SS-33 10/29/2003	SS-34 10/29/2003	SS-35 10/29/2003
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	500	20	98	mg/kg	4.5 UD	0.41 U	0.041 J	3.9 UD	3.6 UD	4.1 UD
Acenaphthylene	500	NE	107	mg/kg	4.5 UD	0.41 U	0.092 J	3.9 UD	3.6 UD	4.1 UD
Anthracene	500	NE	1000	mg/kg	4.5 UD	0.41 U	0.22 J	3.9 UD	3.6 UD	4.1 UD
Benzo(a)anthracene	5.6	NE	1	mg/kg	0.94 JD	0.13 J	0.72	**1 JD**	3.6 UD	0.98 JD
Benzo(a)pyrene	1	2.6	22	mg/kg	**1.2 JD**	0.13 J	0.66	**1.1 JD**	0.39 JD	**1.1 JD**
Benzo(b)fluoranthene	5.6	NE	1.7	mg/kg	1.3 JD	0.13 J	0.56	1.2 JD	0.42 JD	1.1 JD
Benzo(g,h,i)perylene	500	NE	1000	mg/kg	1.2 JD	0.12 J	0.47	1.1 JD	3.6 UD	0.85 JD
Benzo(k)fluoranthene	56	NE	1.7	mg/kg	1.1 JD	0.12 J	0.59	0.98 JD	0.37 JD	1.1 JD
Chrysene	56	NE	1	mg/kg	**1.5 JD**	0.16 J	0.76	**1.2 JD**	0.44 JD	**1.3 JD**
Dibenzo(a,h)anthracene	0.56	NE	1000	mg/kg	4.5 UD	0.41 U	0.15 J	3.9 UD	3.6 UD	4.1 UD
Fluoranthene	500	NE	1000	mg/kg	2.3 JD	0.27 J	1.5	1.9 JD	0.65 JD	2 JD
Fluorene	500	30	386	mg/kg	4.5 UD	0.41 U	0.041 J	3.9 UD	3.6 UD	4.1 UD
Indeno(1,2,3-cd)pyrene	5.6	NE	8.2	mg/kg	0.98 JD	0.095 J	0.42	0.88 JD	3.6 UD	0.72 JD
Naphthalene	500	NE	12	mg/kg	4.5 UD	0.41 U	0.4 U	3.9 UD	3.6 UD	4.1 UD
Phenanthrene	500	NE	1000	mg/kg	0.64 JD	0.12 J	0.78	0.72 JD	3.6 UD	0.5 JD
Pyrene	500	NE	1000	mg/kg	1.8 JD	0.21 J	1.3	1.9 JD	0.45 JD	1.4 JD
2-Methylnaphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Total PAHs	NE	NE	NE	mg/kg	13	1.5	8.3	12	2.7	11
Other Semi-VOCs										
1,1'-Biphenyl	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2-Methylphenol	500	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2-Nitroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-30 10/29/2003	SS-31 10/29/2003	SS-32 10/29/2003	SS-33 10/29/2003	SS-34 10/29/2003	SS-35 10/29/2003
2-Nitrophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Methylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Acetophenone	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Bis(-2-chloroethoxy)methane	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Bis(-2-chloroethyl)ether	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Dibenzofuran	350	NE	210	mg/kg	NA	NA	NA	NA	NA	NA
Diethylphthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	6	NE	3.2	mg/kg	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-30 10/29/2003	SS-31 10/29/2003	SS-32 10/29/2003	SS-33 10/29/2003	SS-34 10/29/2003	SS-35 10/29/2003
Pentachlorophenol	6.7	0.8	0.8	mg/kg	NA	NA	NA	NA	NA	NA
Phenol	500	30	0.33	mg/kg	NA	NA	NA	NA	NA	NA
Inorganic Constituents										
Cyanide, Total	27	NE	40	mg/kg	NA	NA	NA	NA	NA	NA
Cyanide, Free	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	16	13	16	mg/kg	NA	NA	NA	NA	NA	NA
Barium	400	433	820	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	590	10	47	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	9.3	4	7.5	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	1500	41	NE	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Copper	270	50	1720	mg/kg	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1000	63	450	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	10000	1600	2000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	2.8	0.18	0.73	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	310	30	130	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	1500	3.9	4	mg/kg	NA	NA	NA	NA	NA	NA

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]									
Constituent	Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-30 10/29/2003	SS-31 10/29/2003	SS-32 10/29/2003	SS-33 10/29/2003	SS-34 10/29/2003	SS-35 10/29/2003
Silver	1500	2	8.3	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	10000	109	2480	mg/kg	NA	NA	NA	NA	NA	NA
Total Organic Carbon	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	RI-SS-1 5/12/2005	RI-SS-2 5/12/2005	RI-SS-3 5/12/2005	RI-SS-4 5/12/2005	RI-SS-5 5/12/2005
Polycyclic Aromatic Hydrocarbons (PAHs)									
Acenaphthene	500	20	98	mg/kg	0.33 U	9.4 U	0.35 U	0.28 J	1.2 U
Acenaphthylene	500	NE	107	mg/kg	0.072 J	17	0.35 U	0.49 J	0.52 J
Anthracene	500	NE	1000	mg/kg	0.046 J	7.1 J	0.35 U	0.74 J	0.71 J
Benzo(a)anthracene	5.6	NE	1	mg/kg	0.3 J	**18**	0.058 J	**2.5**	**2.7**
Benzo(a)pyrene	1	2.6	22	mg/kg	0.34	**8.8 J**	0.062 J	**2.7**	**2.5**
Benzo(b)fluoranthene	5.6	NE	1.7	mg/kg	0.28 J	**26**	0.052 J	**2.2**	**2.2**
Benzo(g,h,i)perylene	500	NE	1000	mg/kg	0.38	30	0.059 J	2.1	1.7
Benzo(k)fluoranthene	56	NE	1.7	mg/kg	0.34	**27**	0.06 J	**2.4**	**2.1**
Chrysene	56	NE	1	mg/kg	0.38	**31**	0.069 J	**2.9**	**2.6**
Dibenzo(a,h)anthracene	0.56	NE	1000	mg/kg	0.074 J	**6.5 J**	0.35 U	0.53 J	0.5 J
Fluoranthene	500	NE	1000	mg/kg	0.42	19	0.092 J	5.3	4.6
Fluorene	500	30	386	mg/kg	0.33 U	9.4 U	0.35 U	0.26 J	0.13 J
Indeno(1,2,3-cd)pyrene	5.6	NE	8.2	mg/kg	0.28 J	**23**	0.045 J	1.7	1.5
Naphthalene	500	NE	12	mg/kg	0.33 U	3 J	0.35 U	0.12 J	1.2 U
Phenanthrene	500	NE	1000	mg/kg	0.17 J	8.9 J	0.038 J	3.7	2.5
Pyrene	500	NE	1000	mg/kg	0.58	35	0.11 J	5.4	3.9
2-Methylnaphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Total PAHs	NE	NE	NE	mg/kg	3.7	260	0.65	33	28
Other Semi-VOCs									
1,1'-Biphenyl	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,4-Dimethylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2-Chloronaphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2-Chlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2-Methylphenol	500	NE	NE	mg/kg	NA	NA	NA	NA	NA
2-Nitroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]								
Constituent	Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	RI-SS-1 5/12/2005	RI-SS-2 5/12/2005	RI-SS-3 5/12/2005	RI-SS-4 5/12/2005	RI-SS-5 5/12/2005
2-Nitrophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
3-Nitroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Chloroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Methylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Nitroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Nitrophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Acetophenone	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Atrazine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Bis(-2-chloroethoxy)methane	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Bis(-2-chloroethyl)ether	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Carbazole	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Dibenzofuran	350	NE	210	mg/kg	NA	NA	NA	NA	NA
Diethylphthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Di-n-butylphthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Hexachlorobenzene	6	NE	3.2	mg/kg	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Isophorone	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	RI-SS-1 5/12/2005	RI-SS-2 5/12/2005	RI-SS-3 5/12/2005	RI-SS-4 5/12/2005	RI-SS-5 5/12/2005
Pentachlorophenol	6.7	0.8	0.8	mg/kg	NA	NA	NA	NA	NA
Phenol	500	30	0.33	mg/kg	NA	NA	NA	NA	NA
Inorganic Constituents									
Cyanide, Total	27	NE	40	mg/kg	1.01 U	2.44	1.05 U	1.12 U	1.19 U
Cyanide, Free	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Aluminum	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Antimony	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Arsenic	16	13	16	mg/kg	NA	NA	NA	NA	NA
Barium	400	433	820	mg/kg	NA	NA	NA	NA	NA
Beryllium	590	10	47	mg/kg	NA	NA	NA	NA	NA
Cadmium	9.3	4	7.5	mg/kg	NA	NA	NA	NA	NA
Calcium	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Chromium	1500	41	NE	mg/kg	NA	NA	NA	NA	NA
Cobalt	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Copper	270	50	1720	mg/kg	NA	NA	NA	NA	NA
Iron	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Lead	1000	63	450	mg/kg	NA	NA	NA	NA	NA
Magnesium	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Manganese	10000	1600	2000	mg/kg	NA	NA	NA	NA	NA
Mercury	2.8	0.18	0.73	mg/kg	NA	NA	NA	NA	NA
Nickel	310	30	130	mg/kg	NA	NA	NA	NA	NA
Potassium	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Selenium	1500	3.9	4	mg/kg	NA	NA	NA	NA	NA

TABLE 2
SURFACE SOIL ANALYTICAL RESULTS (0-2") - C-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Commercial Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	RI-SS-1 5/12/2005	RI-SS-2 5/12/2005	RI-SS-3 5/12/2005	RI-SS-4 5/12/2005	RI-SS-5 5/12/2005
Silver	1500	2	8.3	mg/kg	NA	NA	NA	NA	NA
Sodium	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Vanadium	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Zinc	10000	109	2480	mg/kg	NA	NA	NA	NA	NA
Total Organic Carbon	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA

Notes:
U - The analyte was analyzed for, but was not detected.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was not detected above the reported sample quantitation limit. However, based on data validation, the reported method detection limit is approximate and may or may not represent the actual limit of the quantitation necessary to accurately and precisely measure the analyte in the sample.
D - Result was obtained from the analysis of a dilution.
B - Method Blank Contamination. The associated method blank contains the target analyte at a reportable level.
E - The reported value is estimated because of the presence of interference.
N - Spiked sample rcovery not within control limits.
S - The reported value was determined by the Method of Standard Additions (MSA).
* - Analytes associated with quality control parameter that exceeds laboratory limits.
NE - Not established.
NA - Not analyzed.
ND - Not detected.
(a) - C-1 Zoning Classification (office/retail commercial) per city of Cohoes Assessment Department.

Boxed concentrations are above one or more of the following New York State Subpart 375 Soil Cleanup Objectives for: Commercial Zoning, Protection of Ecological Resources, or Protection of Groundwater.

TABLE 3
SURFACE SOIL ANALYTICAL RESULTS (0-2") - MU-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Residential Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-19 10/29/2003	SS-20 10/29/2003	RI-SS-6 5/12/2005	RI-SS-7 5/12/2005	RI3-SS-1 12/17/2008
Polycyclic Aromatic Hydrocarbons (PAHs)									
Acenaphthene	100	20	98	mg/kg	5.5 UD	3 UD	8.2 U	2.4 U	0.05 U
Acenaphthylene	100	NE	107	mg/kg	9.7 D	1.2 JD	7 J	0.47 J	0.14 J
Anthracene	100	NE	1000	mg/kg	3.4 JD	0.5 JD	3.4 J	0.26 J	0.17 J
Benzo(a)anthracene	1	NE	1	mg/kg	**9.2 D**	**1.8 JD**	**14**	0.66 J	0.36
Benzo(a)pyrene	1	2.6	22	mg/kg	**9.9 D**	**1.8 JD**	**13**	0.82 J	0.38
Benzo(b)fluoranthene	1	NE	1.7	mg/kg	**8.4 D**	**1.5 JD**	**9.8**	0.61 J	0.57
Benzo(g,h,i)perylene	100	NE	1000	mg/kg	13 D	1.6 JD	11	1.3 J	0.34
Benzo(k)fluoranthene	1	NE	1.7	mg/kg	**10 D**	**1.8 JD**	**8.4**	0.65 J	0.23 J
Chrysene	1	NE	1	mg/kg	**13 D**	**2.4 JD**	**24**	0.81 J	0.51
Dibenzo(a,h)anthracene	0.33	NE	1000	mg/kg	**3.4 JD**	**0.43 JD**	**2.9 J**	2.4 U	0.056 J
Fluoranthene	100	NE	1000	mg/kg	11 D	2.8 JD	6.2 J	0.84 J	0.84
Fluorene	100	30	386	mg/kg	5.5 UD	3 UD	2.2 J	2.4 U	0.095 J
Indeno(1,2,3-cd)pyrene	0.5	NE	8.2	mg/kg	**9.1 D**	**1.3 JD**	**7.1 J**	**0.63 J**	0.26
Naphthalene	100	NE	12	mg/kg	5.5 UD	3 UD	8.2 U	2.4 U	0.05 U
Phenanthrene	100	NE	1000	mg/kg	5.1 JD	1.3 JD	8.2 U	0.39 J	0.94
Pyrene	100	NE	1000	mg/kg	17 D	3.2 D	29	1 J	0.98
2-Methylnaphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Total PAHs	NE	NE	NE	mg/kg	122	22	138	8.4	5.9
Other Semi-VOCs									
1,1'-Biphenyl	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,4-Dimethylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2-Chloronaphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2-Chlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA

TABLE 3
SURFACE SOIL ANALYTICAL RESULTS (0-2") - MU-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]								
Constituent	Protection of Public Health - Residential Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-19 10/29/2003	SS-20 10/29/2003	RI-SS-6 5/12/2005	RI-SS-7 5/12/2005	RI3-SS-1 12/17/2008
2-Methylphenol	100	NE	NE	mg/kg	NA	NA	NA	NA	NA
2-Nitroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
2-Nitrophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	34	NE	NE	mg/kg	NA	NA	NA	NA	NA
3-Nitroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Chloroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Methylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Nitroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
4-Nitrophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Acetophenone	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Atrazine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Bis(-2-chloroethoxy)methane	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Bis(-2-chloroethyl)ether	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Carbazole	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Dibenzofuran	14	NE	210	mg/kg	NA	NA	NA	NA	NA
Diethylphthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA

TABLE 3
SURFACE SOIL ANALYTICAL RESULTS (0-2") - MU-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]								
Constituent	Protection of Public Health - Residential Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	SS-19 10/29/2003	SS-20 10/29/2003	RI-SS-6 5/12/2005	RI-SS-7 5/12/2005	RI3-SS-1 12/17/2008
Di-n-butylphthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	NE	3.2	mg/kg	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Isophorone	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA
Pentachlorophenol	2.4	0.8	0.8	mg/kg	NA	NA	NA	NA	NA
Phenol	100	30	0.33	mg/kg	NA	NA	NA	NA	NA
Inorganic Constituents									
Cyanide, Total	27	NE	40	mg/kg	NA	NA	1.82	1.43 U	0.28 J
Cyanide, Free	NE	NE	NE	mg/kg	NA	NA	NA	NA	0.0099 U

TABLE 3
SURFACE SOIL ANALYTICAL RESULTS (0-2") - MU-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Residential Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	RI3-SS-2 12/17/2008	RI3-SS-3 12/17/2008	RI3-SS-4 12/17/2008	RI3-SS-4 DUP 12/17/2008	RI3-SS-5 12/17/2008	RI3-SS-6 12/17/2008
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	100	20	98	mg/kg	0.041 U	0.22 U	0.062 J	0.064 J	0.046 U	0.049 J
Acenaphthylene	100	NE	107	mg/kg	0.51	0.54 J	0.081 J	0.049 J	0.1 J	0.068 J
Anthracene	100	NE	1000	mg/kg	0.32	0.46 J	0.18 J	0.17 J	0.096 J	0.24 J
Benzo(a)anthracene	1	NE	1	mg/kg	**2.2**	**1.5**	0.54	0.54	0.29	0.5 J
Benzo(a)pyrene	1	2.6	22	mg/kg	**2.3**	**1.6**	0.46	0.44	0.28	0.46 J
Benzo(b)fluoranthene	1	NE	1.7	mg/kg	**3.4**	**2**	0.62	0.61	0.38	0.6 J
Benzo(g,h,i)perylene	100	NE	1000	mg/kg	1.4	1.2	0.35	0.3	0.23	0.33 J
Benzo(k)fluoranthene	1	NE	1.7	mg/kg	**1.2**	0.8 J	0.24	0.24	0.13 J	0.24 J
Chrysene	1	NE	1	mg/kg	**2.3**	**1.5**	0.54	0.54	0.33	0.49 J
Dibenzo(a,h)anthracene	0.33	NE	1000	mg/kg	**0.35**	0.25 J	0.089 J	0.094 J	0.059 J	0.082 J
Fluoranthene	100	NE	1000	mg/kg	3.7	2.4	0.89	1.1	0.47	1 J
Fluorene	100	30	386	mg/kg	0.088 J	0.22 U	0.072 J	0.076 J	0.046 U	0.057 J
Indeno(1,2,3-cd)pyrene	0.5	NE	8.2	mg/kg	**1.4**	**1 J**	0.3	0.25	0.17 J	0.27 J
Naphthalene	100	NE	12	mg/kg	0.041 U	0.22 U	0.044 U	0.044 U	0.046 U	0.048 UJ
Phenanthrene	100	NE	1000	mg/kg	1.8	1.5	0.68	0.89	0.25	0.69 J
Pyrene	100	NE	1000	mg/kg	4.7	2.8	1	1.1	0.54	1.1 J
2-Methylnaphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Total PAHs	NE	NE	NE	mg/kg	26	18	6.1	6.5	3.3	6.2
Other Semi-VOCs										
1,1'-Biphenyl	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA

TABLE 3
SURFACE SOIL ANALYTICAL RESULTS (0-2") - MU-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Residential Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	RI3-SS-2 12/17/2008	RI3-SS-3 12/17/2008	RI3-SS-4 12/17/2008	RI3-SS-4 DUP 12/17/2008	RI3-SS-5 12/17/2008	RI3-SS-6 12/17/2008
2-Methylphenol	100	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2-Nitroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	34	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Methylphenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Acetophenone	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Atrazine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Benzaldehyde	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Bis(-2-chloroethoxy)methane	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Bis(-2-chloroethyl)ether	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Caprolactam	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Carbazole	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Dibenzofuran	14	NE	210	mg/kg	NA	NA	NA	NA	NA	NA
Diethylphthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA

TABLE 3
SURFACE SOIL ANALYTICAL RESULTS (0-2") - MU-1 ZONED LOCATIONS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Residential Zoning(a)	Protection of Ecological Resources	Protection of Groundwater	Units	RI3-SS-2 12/17/2008	RI3-SS-3 12/17/2008	RI3-SS-4 12/17/2008	RI3-SS-4 DUP 12/17/2008	RI3-SS-5 12/17/2008	RI3-SS-6 12/17/2008
Di-n-butylphthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.33	NE	3.2	mg/kg	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Hexachloroethane	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Isophorone	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Nitrobenzene	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	NA	NA	NA	NA	NA	NA
Pentachlorophenol	2.4	0.8	0.8	mg/kg	NA	NA	NA	NA	NA	NA
Phenol	100	30	0.33	mg/kg	NA	NA	NA	NA	NA	NA
Inorganic Constituents										
Cyanide, Total	27	NE	40	mg/kg	0.22 U	0.78	0.25 J	0.25 J	0.24 U	0.25 U
Cyanide, Free	NE	NE	NE	mg/kg	0.0078 U	0.0085 U	0.008 U	0.0081 U	0.0085 U	0.0087 U

Notes:
U - The analyte was analyzed for, but was not detected.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was not detected above the reported sample quantitation limit. However, based on data validation, the reported method detection limit is approximate and may or may not represent the actual limit of the quantitation necessary to accurately and precisely measure the analyte in the sample.
D - Result was obtained from the analysis of a dilution.
NE - Not established.
NA - Not analyzed.
ND - Not detected.
(a) - MU-1 (Mixed-Use) Zoning Classification per city of Cohoes Assessment Department.

Boxed concentrations are above one or more of the following New York State Subpart 375 Soil Cleanup Objectives for: Residential Zoning, Protection of Ecological Resources, or Protection of Groundwater.

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria												
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-1S	MW-1S	MW-2S	MW-2S	MW-2R1	MW-2R1	MW-2R1 DUP	MW-2R2	MW-2R2
Constituent	Guidance	Standard	Units	Date	7/27/2011	11/8/2011	8/9/2011	11/15/2011	8/9/2011[(2)]	11/16/2011	11/16/2011	8/9/2011[(2)]	11/15/2011
Volitile Organic Compounds													
BTEX													
Benzene	NE	1	µg/L		0.41 U	0.41 U	**3.9**	**4.7**	**270**	**280**	**280**	**210**	**210**
Toluene	NE	5	µg/L		0.51 U	0.51 U	0.51 U	0.51 U	**9.3**	**11**	**11**	4.7	4.3
Ethylbenzene	NE	5	µg/L		0.74 U	0.74 U	0.74 U	0.74 U	**280**	**370**	**360**	**250**	**230**
m&p-Xylenes	NE	5	µg/L		0.66 U	0.66 U	0.66 U	0.66 U	**64**	**81**	**83**	**20**	**19**
o-Xylene	NE	5	µg/L		0.76 U	0.76 U	1	1.4	**120**	**150**	**150**	**92**	**91**
Xylenes, Total	NE	NE	µg/L		0.66 U	0.66 U	1 J	1.4 J	180	230	230	120	110
Total BTEX	NE	NE	µg/L		ND	ND	4.9	6.1	743	892	884	577	554
Semi-Volatile Organic Compounds (SVOCs)													
Polycyclic Aromatic Hydrocarbons (PAHs)													
Acenaphthene	20	NE	µg/L		0.39 U	0.39 U	7.1	15	**140**	**150 J**	**200 J**	**190**	**190**
Acenaphthylene	NE	NE	µg/L		0.36 U	0.36 U	0.71 J	1.4 J	3.3 J	5.4	5.6	3 J	4.1 J
Anthracene	50	NE	µg/L		0.27 U	0.26 U	0.32 J	0.39	9.5	9.1	10	9.3	6.7
Benzo(a)anthracene	0.002	NE	µg/L		0.34 U	0.34 U	0.34 U	0.34 U	3.4 U	0.35 U	0.35 U	0.34 U	0.34 U
Benzo(a)pyrene	NE	0	µg/L		0.45 U	0.44 U	0.44 U	0.45 U	0.44 U	0.46 U	0.45 U	4.4 U	0.44 U
Benzo(b)fluoranthene	0.002	NE	µg/L		0.32 U	0.32 U	0.32 U	0.32 U	0.32 UJ	0.33 U	0.33 U	3.2 UJ	0.32 U
Benzo(g,h,i)perylene	NE	NE	µg/L		0.33 U	0.33 U	0.33 UJ	0.33 U	3.3 UJ	0.34 U	0.34 U	3.3 UJ	0.33 U
Benzo(k)fluoranthene	0.002	NE	µg/L		0.69 U	0.69 U	0.69 U	0.69 U	6.9 U	0.72 U	0.7 U	6.9 U	0.69 U
Chrysene	0.002	NE	µg/L		0.31 U	0.31 U	0.31 U	0.31 U	3.1 U	0.32 U	0.32 U	3.1 U	0.31 U
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.4 U	0.4 U	0.4 UJ	0.4 U	4 UJ	0.41 U	0.4 U	4 UJ	0.4 U
Fluoranthene	50	NE	µg/L		0.38 U	0.38 U	0.38 U	0.38 U	3.8 U	2.5 J	2.5 J	3.8 U	3.9 J
Fluorene	50	NE	µg/L		0.34 U	0.34 U	0.82 J	3.3 J	47	45	48	41 J	33
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.45 U	0.45 U	0.44 UJ	0.45 U	4.4 UJ	0.46 U	0.45 U	4.4 UJ	0.44 U
Naphthalene	10	NE	µg/L		0.79 J	0.72 U	1 J	0.72 J	**1300**	**1400 J**	**1700**	**950**	**1200**
Phenanthrene	50	NE	µg/L		0.42 U	0.42 U	0.42 U	1.4 J	**55**	**52**	**57**	46 J	37
Pyrene	50	NE	µg/L		0.32 U	0.32 U	0.32 U	0.32 U	3.2 U	2.9 J	3 J	3.2 U	2.7 J
2-Methylnaphthalene	NE	NE	µg/L		NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	NE	NE	µg/L		0.79	ND	10.0	22.2	1555	1667	2026	1239	1477
Inorganic Constituents													
Cyanide, Total	NE	200	µg/L		5 U	5 U	6.9 J	9.2 J	5 U	13 J	9.5 J	11	11 J
Ammonia (as N)	NE	2000	µg/L		40	9 U	66	62	1200	1400	1400	800	920
Carbon dioxide	NE	NE	µg/L		12000	13000	11000	15000	11000	3900 J	14000 J	5000	9900
Methane	NE	NE	µg/L		5	2.3	86	180	2200	2300	2200	2000	2200
Nitrate (as N)	NE	10000	µg/L		140	290 J	11 U	11 U	11 U	11 U	11 U	11 U	11 U
Sulfate	NE	250000	µg/L		118000	121000	19900	3700 J	1500 U	3100 J	3200 J	1500 UJ	4300 J
Ferric iron	NE	300	µg/L		**2100**	**1500 J**	**3100**	**2100 J**	**760**	**610 J**	**800 J**	**840**	**1300 J**
Manganese	NE	300	µg/L		110	49	100	210	**1400**	**1500**	**1500**	**740**	**830**
Phosphorous, total	NE	NE	µg/L		120	220	72	820	300	76	5 U	250	680
Total Kjeldahl nitrogen	NE	NE	µg/L		340	220	440	580	1500	1600	1700	1100	1300

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria												
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-1S	MW-1S	MW-2S	MW-2S	MW-2R1	MW-2R1	MW-2R1 DUP	MW-2R2	MW-2R2
Constituent	Guidance	Standard	Units	Date	7/27/2011	11/8/2011	8/9/2011	11/15/2011	8/9/2011[(2)]	11/16/2011	11/16/2011	8/9/2011[(2)]	11/15/2011
Other Constituents													
Total organic carbon	NE	NE	µg/L		1500	2300	4400	4700	2500	3000	3000	3300	3300
Volatile Fatty Acids													
Acetic acid	NE	NE	µg/L		150 U	150 UJ	150 U	150 U	150 U	150 U	150 U	150 U	150 UR
Butanoic acid	NE	NE	µg/L		160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 UJ	160 UR
Formic acid	NE	NE	µg/L		110 U	110 UJ	110 U	110 U	110 U	110 U	110 U	110 U	110 UJ
Lactic acid	NE	NE	µg/L		140 U	140 UJ	140 U	140 U	140 U	990 J	900 J	140 U	140 U
Propionic acid	NE	NE	µg/L		170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 UR
Pyruvic acid	NE	NE	µg/L		80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 UJ	80 UJ

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria												
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-3S	MW-3S	MW-4S	MW-4S DUP	MW-4S	MW-4R2	MW-4R2	MW-5R	MW-5R
Constituent	Guidance	Standard	Units	Date	7/27/2011	11/8/2011	8/9/2011	8/9/2011	11/16/2011	8/9/2011	11/16/2011	8/8/2011	11/15/2011
Volitile Organic Compounds													
BTEX													
Benzene	NE	1	µg/L		0.41 U	0.41 U	**1.1**	**1.2**	0.41 U	0.62 J	**56**	**760**	**1200**
Toluene	NE	5	µg/L		0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	**41**	**56**
Ethylbenzene	NE	5	µg/L		0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	**12**	**320**	**410**
m&p-Xylenes	NE	5	µg/L		0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.74 J	**110**	**140**
o-Xylene	NE	5	µg/L		0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.84 J	**120**	**150**
Xylenes, Total	NE	NE	µg/L		0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	1.6 J	230	310
Total BTEX	NE	NE	µg/L		ND	ND	1.1	1.2	ND	0.62	70	1351	1956
Semi-Volatile Organic Compounds (SVOCs)													
Polycyclic Aromatic Hydrocarbons (PAHs)													
Acenaphthene	20	NE	µg/L		0.39 U	0.39 U	5.8	4.9	5	6	12	**140**	**110**
Acenaphthylene	NE	NE	µg/L		0.37 U	0.36 U	1.4 J	1 J	1.3 J	3.7 J	2.7 J	10	7.1
Anthracene	50	NE	µg/L		0.27 U	0.27 U	0.26 U	0.29 J	0.26 U	4.5 J	2 J	13	6.2
Benzo(a)anthracene	0.002	NE	µg/L		0.35 U	0.34 U	0.34 U	0.34 U	**0.42 J**	0.34 U	0.34 U	0.34 U	**0.34 J**
Benzo(a)pyrene	NE	0	µg/L		0.45 U	0.45 U	0.44 U	0.44 U	0.44 U	0.45 U	0.45 U	4.4 U	0.45 U
Benzo(b)fluoranthene	0.002	NE	µg/L		0.33 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	3.2 U	0.32 U
Benzo(g,h,i)perylene	NE	NE	µg/L		0.34 U	0.33 U	0.33 UJ	0.33 UJ	0.33 U	0.33 UJ	0.33 U	3.3 UJ	0.33 U
Benzo(k)fluoranthene	0.002	NE	µg/L		0.7 U	0.7 U	0.69 U	0.69 U	0.69 U	0.7 U	0.7 U	6.9 U	0.69 U
Chrysene	0.002	NE	µg/L		0.32 U	0.31 U	0.31 U	0.31 U	**0.34 J**	0.31 U	0.31 U	3.1 U	0.31 U
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.4 U	0.4 U	0.4 UJ	0.4 UJ	0.4 U	0.4 UJ	0.4 U	4 UJ	0.4 U
Fluoranthene	50	NE	µg/L		0.38 U	0.38 U	1.3 J	1.2 J	0.78 J	2.3 J	0.38 J	3.9 J	4.4 J
Fluorene	50	NE	µg/L		0.35 U	0.34 U	0.45 J	0.34 U	0.58 J	7.3	3.8	44 J	22
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.45 U	0.45 U	0.44 UJ	0.44 UJ	0.44 U	0.45 UJ	0.45 U	4.4 UJ	0.45 U
Naphthalene	10	NE	µg/L		1.4 J	0.72 U	0.72 U	1.2 J	1.4 J	1.3 J	1.5 J	**640**	**930**
Phenanthrene	50	NE	µg/L		0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	15	2 J	**63**	27
Pyrene	50	NE	µg/L		0.33 U	0.32 U	1 J	0.53 J	0.93 J	2.7 J	0.63 J	4.3 J	3.7 J
2-Methylnaphthalene	NE	NE	µg/L		NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	NE	NE	µg/L		1.4	ND	10	9.1	11	42.8	25	918	1111
Inorganic Constituents													
Cyanide, Total	NE	200	µg/L		5 U	5 U	**470**	5 U	**420**	5 U	5 UJ	13	19 J
Ammonia (as N)	NE	2000	µg/L		11 J	9 U	94	100	120	330	760	830	910
Carbon dioxide	NE	NE	µg/L		22000	50000	2400	3200	5700	8000	6200	1900	1000 U
Methane	NE	NE	µg/L		5.8	0.22 U	38	39	25	81	250	4800	8700
Nitrate (as N)	NE	10000	µg/L		690	400 J	11 UJ	11 UJ	11 U	56 J	11 U	11 UJ	11 U
Sulfate	NE	250000	µg/L		153000	148000	119000	119000	194000	82400	46500	1500 U	1500 J
Ferric iron	NE	300	µg/L		75 U	75 UJ	**640**	**700**	**1100 J**	75 U	300 J	**330**	**350 J**
Manganese	NE	300	µg/L		100	180	250	260	**310**	**2500**	**1500**	160	89
Phosphorous, total	NE	NE	µg/L		7.6 J	76	60	56	120	5 U	5 U	240	580
Total Kjeldahl nitrogen	NE	NE	µg/L		320	210	150 J	360	330	340	830	1000	1100 J

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria												
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-3S	MW-3S	MW-4S	MW-4S DUP	MW-4S	MW-4R2	MW-4R2	MW-5R	MW-5R
Constituent	Guidance	Standard	Units	Date	7/27/2011	11/8/2011	8/9/2011	8/9/2011	11/16/2011	8/9/2011	11/16/2011	8/8/2011	11/15/2011
Other Constituents													
Total organic carbon	NE	NE	µg/L		1700	2800	3200	3300	4900	490 J	1400	3300	3200
Volatile Fatty Acids													
Acetic acid	NE	NE	µg/L		150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
Butanoic acid	NE	NE	µg/L		160 U	160 U	160 U	160 U	160 U	160 UJ	160 U	160 U	160 U
Formic acid	NE	NE	µg/L		110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
Lactic acid	NE	NE	µg/L		140 U	140 U	450 J	140 U	140 U	140 U	140 U	140 U	140 U
Propionic acid	NE	NE	µg/L		170 U	170 U	170 U	170 U	170 U	170 UJ	170 UR	170 U	170 U
Pyruvic acid	NE	NE	µg/L		80 U	80 U	80 U	80 U	80 U	80 R	80 U	80 U	80 U

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria			Loc ID	MW-7S	MW-7S	MW-7R1	MW-7R1	MW-7R2	MW-7R2	MW-8S	MW-8S	MW-8R
	TOGS 1.1.1	NYS Part 703											
Constituent	Guidance	Standard	Units	Date	8/5/2011	11/14/2011	8/8/2011	11/15/2011	8/8/2011	11/15/2011	7/26/2011	11/8/2011	7/26/2011
Volitile Organic Compounds													
BTEX													
Benzene	NE	1	µg/L		1.6 U	0.41 U	**240**	**200**	**80**	**85**	0.41 U	0.41 U	**85**
Toluene	NE	5	µg/L		2 U	0.51 U	2.6 U	0.88 J	3.6	2.9	0.51 U	0.51 U	1.1
Ethylbenzene	NE	5	µg/L		3 U	0.74 U	3.7 U	**7.2**	**21**	**14**	0.74 U	0.74 U	**53**
m&p-Xylenes	NE	5	µg/L		2.6 U	0.66 U	3.3 U	0.66 U	**14**	**12**	0.66 U	0.66 U	**12**
o-Xylene	NE	5	µg/L		3 U	0.76 U	3.8 U	2.1	**13**	**11**	0.76 U	0.76 U	**37**
Xylenes, Total	NE	NE	µg/L		2.6 U	0.66 U	3.3 U	2.1	27	23	0.66 U	0.66 U	49
Total BTEX	NE	NE	µg/L		ND	ND	240	210.2	132	125	ND	ND	188
Semi-Volatile Organic Compounds (SVOCs)													
Polycyclic Aromatic Hydrocarbons (PAHs)													
Acenaphthene	20	NE	µg/L		1 J	0.39 U	2.1 J	3.7 J	**52**	**37**	0.4 U	0.49 J	**63**
Acenaphthylene	NE	NE	µg/L		2.7 J	0.36 U	0.57 J	1.2 J	1.3 J	0.9 J	0.37 U	0.36 U	2.7 J
Anthracene	50	NE	µg/L		0.72 J	0.26 U	0.27 J	0.26 U	7.2	5.9	0.27 U	0.26 U	2.7 J
Benzo(a)anthracene	0.002	NE	µg/L		**0.5 J**	0.34 U	0.34 U	0.34 U	0.35 U	0.34 U	0.35 U	0.34 U	1.7 U
Benzo(a)pyrene	NE	0	µg/L		1.5 J	0.44 U	0.44 U	0.44 U	0.45 U	0.44 U	0.46 U	0.44 U	2.2 U
Benzo(b)fluoranthene	0.002	NE	µg/L		**1.1 J**	0.32 U	0.32 U	0.32 U	0.65 U	0.32 U	0.33 U	0.32 U	1.6 U
Benzo(g,h,i)perylene	NE	NE	µg/L		4.7	0.33 U	0.33 U	0.33 U	0.67 U	0.33 U	0.34 U	0.33 U	1.7 U
Benzo(k)fluoranthene	0.002	NE	µg/L		**0.7 J**	0.69 U	0.69 U	0.69 U	1.4 U	0.69 U	0.72 U	0.69 U	3.5 U
Chrysene	0.002	NE	µg/L		**0.82 J**	0.31 U	0.31 U	0.31 U	0.63 U	0.31 U	0.32 U	0.31 U	1.6 U
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.5 J	0.4 U	0.4 U	0.4 U	0.81 U	0.4 U	0.41 U	0.4 U	2 U
Fluoranthene	50	NE	µg/L		0.38 U	0.38 U	0.45 J	0.38 U	4.6 J	5.8	0.39 U	0.38 U	1.9 U
Fluorene	50	NE	µg/L		0.69 J	0.34 U	0.73 J	0.53 J	22	15	0.35 U	0.34 U	14 J
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		**1.5 J**	0.44 U	0.44 U	0.44 U	0.9 U	0.44 U	0.46 U	0.44 U	2.2 U
Naphthalene	10	NE	µg/L		0.74 J	0.72 U	0.72 U	0.72 U	**150**	**130**	0.75 U	0.72 U	**360**
Phenanthrene	50	NE	µg/L		0.42 U	0.42 U	1.3 J	0.42 U	41	35	0.43 U	0.42 U	15 J
Pyrene	50	NE	µg/L		1.2 J	0.32 U	0.65 J	0.32 U	4.4 J	4.6 J	0.33 U	0.32 U	1.6 U
2-Methylnaphthalene	NE	NE	µg/L		NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	NE	NE	µg/L		18.4	ND	6.07	5.43	283	234	ND	0.49	457
Inorganic Constituents													
Cyanide, Total	NE	200	µg/L		74	42 J	100	170 J	40	33 J	5 U	5 U	5 U
Ammonia (as N)	NE	2000	µg/L		89	35	1600	1100	1400	1600	89	26	1300
Carbon dioxide	NE	NE	µg/L		5000	12000	4300	4500	11000	13000	20000	16000	11000
Methane	NE	NE	µg/L		19	1.7	1000	400	13000	13000	98	140	1400
Nitrate (as N)	NE	10000	µg/L		11 U	11 UJ	11 UJ	180	11 U	11 U	11 UJ	11 U	11 U
Sulfate	NE	250000	µg/L		27300	99400	1500 R	5000	1500 U	1500 U	33900	18400	1500 U
Ferric iron	NE	300	µg/L		**26900**	**2300 J**	**4000**	**1700 J**	**11900**	**10700 J**	**2600**	**400 J**	**350**
Manganese	NE	300	µg/L		**1300**	280	**330**	280	**1500**	**1400**	**2600**	**2400**	**1100**
Phosphorous, total	NE	NE	µg/L		1700	5 U	180	660	290	980	57	140	120
Total Kjeldahl nitrogen	NE	NE	µg/L		1400	470	2000	1400 J	1800	2100 J	380	250	1400

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria												
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-7S	MW-7S	MW-7R1	MW-7R1	MW-7R2	MW-7R2	MW-8S	MW-8S	MW-8R
Constituent	Guidance	Standard	Units	Date	8/5/2011	11/14/2011	8/8/2011	11/15/2011	8/8/2011	11/15/2011	7/26/2011	11/8/2011	7/26/2011
Other Constituents													
Total organic carbon	NE	NE	µg/L		14100	4100	5300	7900	3700	4500	430 U	2400	620 J
Volatile Fatty Acids													
Acetic acid	NE	NE	µg/L		150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
Butanoic acid	NE	NE	µg/L		160 U	160 U	160 UJ	160 U	160 UJ	160 U	160 U	160 U	160 UJ
Formic acid	NE	NE	µg/L		110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
Lactic acid	NE	NE	µg/L		140 U	140 U	140 U	140 U	140 UJ	140 U	140 U	140 U	140 U
Propionic acid	NE	NE	µg/L		170 U	170 U	170 UJ	170 U	170 UJ	170 U	170 U	170 U	170 UJ
Pyruvic acid	NE	NE	µg/L		80 U	80 U	80 U	80 U	80 R	80 U	80 U	80 U	80 R

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria												
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-8R	MW-9R	MW-9R	MW-10S	MW-10S	MW-11S	MW-11S	MW-12S	MW-12S
Constituent	Guidance	Standard	Units	Date	11/8/2011	8/10/2011	11/18/2011	8/5/2011	11/21/2011	8/5/2011	11/16/2011	8/4/2011	11/22/2011
Volitile Organic Compounds													
BTEX													
Benzene	NE	1	µg/L		**110**	**50**	0.41 U	0.41 U	0.41 U	**8.9**	**2.8**	**1.3**	2.1 U
Toluene	NE	5	µg/L		1.3	0.61 J	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	2.6 U
Ethylbenzene	NE	5	µg/L		**67**	**9.6**	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	3.7 U
m&p-Xylenes	NE	5	µg/L		**13**	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	3.3 U
o-Xylene	NE	5	µg/L		**49**	0.76 U	0.76 U	0.76 U	0.74 U	0.76 U	0.76 U	0.76 U	3.8 U
Xylenes, Total	NE	NE	µg/L		62	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	3.3 U
Total BTEX	NE	NE	µg/L		240	60	ND	ND	ND	8.9	2.8	1.3	ND
Semi-Volatile Organic Compounds (SVOCs)													
Polycyclic Aromatic Hydrocarbons (PAHs)													
Acenaphthene	20	NE	µg/L		**42**	9.1	4.6 J	0.39 U	0.39 U	**27**	12	0.81 J	0.39 U
Acenaphthylene	NE	NE	µg/L		1.6 J	2.5 J	3 J	0.36 U	0.36 U	5.9	2.1 J	2 J	0.57 J
Anthracene	50	NE	µg/L		2.1 J	0.29 J	4.1 J	0.26 U	0.26 U	0.49 J	0.27 U	0.26 U	0.29 J
Benzo(a)anthracene	0.002	NE	µg/L		0.34 U	0.34 U	**0.41 J**	0.34 U	0.34 U	**0.35 J**	**0.43 J**	0.34 U	0.34 U
Benzo(a)pyrene	NE	0	µg/L		0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.45 U	0.44 U	0.44 U
Benzo(b)fluoranthene	0.002	NE	µg/L		0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	**0.33 J**	0.32 U
Benzo(g,h,i)perylene	NE	NE	µg/L		0.33 U	0.33 UJ	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.64 J	0.33 U
Benzo(k)fluoranthene	0.002	NE	µg/L		0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.7 U	0.69 U	0.69 U
Chrysene	0.002	NE	µg/L		0.31 U	0.31 U	**0.35 J**	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.4 U	0.4 UJ	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Fluoranthene	50	NE	µg/L		0.72 J	0.38 U	2.2 J	0.38 U	0.38 U	3.8 J	2.3 J	0.38 U	0.38 U
Fluorene	50	NE	µg/L		8.8	2.9 J	5.9	0.34 U	0.34 U	0.34 U	0.43 J	0.34 U	0.34 U
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.44 U	0.44 UJ	0.44 U	0.44 U	0.44 U	0.44 U	0.45 U	0.44 U	0.44 U
Naphthalene	10	NE	µg/L		**260**	1.3 J	0.73 J	0.72 U	0.72 U	0.72 U	1.2 J	0.72 U	0.72 U
Phenanthrene	50	NE	µg/L		9.3	1.2 J	13	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Pyrene	50	NE	µg/L		1 J	0.46 J	2.7 J	0.32 U	0.32 U	5.4	3.6 J	0.32 U	0.4 J
2-Methylnaphthalene	NE	NE	µg/L		NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	NE	NE	µg/L		326	17.8	37.0	ND	ND	42.9	22	3.78	1.26
Inorganic Constituents													
Cyanide, Total	NE	200	µg/L		8.3 J	5 U	5 U	6.9 J	12 J	170	120	15	38
Ammonia (as N)	NE	2000	µg/L		1300	650	370	16 J	9 U	240	270	150	18 J
Carbon dioxide	NE	NE	µg/L		3800	8500	9200	12000	10000	4700	14000	11000	9600
Methane	NE	NE	µg/L		1600	120	150	84	0.26 J	470	70	69	78
Nitrate (as N)	NE	10000	µg/L		11 U	11 U	54	11 UJ	29 J	11 UJ	11 U	11 U	11 U
Sulfate	NE	250000	µg/L		2.4 J	43100	73600	53700	80600	1500 U	85700	31200	52300
Ferric iron	NE	300	µg/L		**620 J**	**2100**	75 UJ	77 J	75 UJ	**2200**	**4600 J**	**21700**	**5100 J**
Manganese	NE	300	µg/L		**1100**	**1400**	**2400**	38	77	**380**	**1100**	**520**	**480**
Phosphorous, total	NE	NE	µg/L		100	230	5 U	5 U	44	170	130	64	66
Total Kjeldahl nitrogen	NE	NE	µg/L		1900	1000	1200 J	230	180 J	680	470	610	470

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria			Loc ID	MW-8R	MW-9R	MW-9R	MW-10S	MW-10S	MW-11S	MW-11S	MW-12S	MW-12S
	TOGS 1.1.1	NYS Part 703											
Constituent	Guidance	Standard	Units	Date	11/8/2011	8/10/2011	11/18/2011	8/5/2011	11/21/2011	8/5/2011	11/16/2011	8/4/2011	11/22/2011
Other Constituents													
Total organic carbon	NE	NE	µg/L		2000	830 J	1700	1600	2500	4500	3400	7400	13100
Volatile Fatty Acids													
Acetic acid	NE	NE	µg/L		150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
Butanoic acid	NE	NE	µg/L		160 U	160 UJ	160 U	160 U	160 U	160 U	160 U	160 U	160 U
Formic acid	NE	NE	µg/L		110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
Lactic acid	NE	NE	µg/L		140 U	140 U	690 J	140 U	890 J	140 U	140 U	450 J	140 U
Propionic acid	NE	NE	µg/L		170 U	170 UJ	170 UJ	170 U	170 U	170 U	170 U	170 U	170 U
Pyruvic acid	NE	NE	µg/L		80 U	80 UJ	80 U	80 U	80 U	80 U	80 U	80 U	80 U

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria												
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-12S DUP	MW-12R	MW-12R	MW-13S	MW-13S	MW-14S	MW-14S	MW-15S	MW-15S
Constituent	Guidance	Standard	Units	Date	11/22/2011	8/4/2011	11/22/2011	8/4/2011	11/21/2011	7/29/2011	11/14/2011	8/3/2011	11/21/2011
Volitile Organic Compounds													
BTEX													
Benzene	NE	1	µg/L		2.1 U	**40**	**46**	0.41 U	0.41 U	**7.2**	**5.7**	**3**	**2.6**
Toluene	NE	5	µg/L		2.6 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Ethylbenzene	NE	5	µg/L		3.7 U	1.2	2	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U
m&p-Xylenes	NE	5	µg/L		3.3 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U
o-Xylene	NE	5	µg/L		3.8 U	0.76 U	0.76 U	0.76 U	0.76 U	0.79 J	0.76 U	0.76 U	0.76 U
Xylenes, Total	NE	NE	µg/L		3.3 U	0.66 U	0.66 U	0.66 U	0.66 U	0.79 J	0.66 U	0.66 U	0.66 U
Total BTEX	NE	NE	µg/L		ND	41	48	ND	ND	8.0	5.7	3.0	2.6
Semi-Volatile Organic Compounds (SVOCs)													
Polycyclic Aromatic Hydrocarbons (PAHs)													
Acenaphthene	20	NE	µg/L		0.39 U	7.9	7.9	0.39 U	0.39 U	10	7.5	**21**	**21**
Acenaphthylene	NE	NE	µg/L		0.49 J	5.3	7.8	0.36 U	0.36 U	0.36 U	0.36 U	26	25
Anthracene	50	NE	µg/L		0.27 U	0.26 U	0.27 U	0.26 U	0.26 U	1.6 J	0.75 J	0.89 J	0.85 J
Benzo(a)anthracene	0.002	NE	µg/L		0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	**0.56 J**	**0.51 J**	**0.41 J**	**0.46 J**
Benzo(a)pyrene	NE	0	µg/L		0.45 U	0.44 U	0.45 U	0.44 U	0.44 U	0.44 U	2.8 J	0.44 U	0.44 U
Benzo(b)fluoranthene	0.002	NE	µg/L		0.33 U	0.32 U	0.32 U	0.32 U	0.32 U	**0.49 J**	0.32 U	0.32 U	0.32 U
Benzo(g,h,i)perylene	NE	NE	µg/L		0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Benzo(k)fluoranthene	0.002	NE	µg/L		0.7 U	0.69 U	0.7 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Chrysene	0.002	NE	µg/L		0.32 U	0.31 U	0.31 U	0.31 U	0.31 U	**0.38 J**	**0.46 J**	0.31 U	0.31 U
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Fluoranthene	50	NE	µg/L		0.38 U	0.76 J	0.79 J	0.38 U	0.38 U	1.9 J	3.2 J	6.2	6.3
Fluorene	50	NE	µg/L		0.34 U	4.7	6.3	0.34 U	0.34 U	4.6 J	3 J	35	35
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.45 U	0.44 U	0.45 U	0.44 U	0.44 U	0.44 U	**2.6 J**	0.44 U	0.44 U
Naphthalene	10	NE	µg/L		0.73 U	0.72 U	0.72 U	0.72 U	0.72 U	0.74 J	0.72 U	0.72 U	0.72 U
Phenanthrene	50	NE	µg/L		0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	6.7	4.6 J	0.73 J	0.56 J
Pyrene	50	NE	µg/L		0.33 U	1.1 J	1.1 J	0.32 U	0.32 U	1.7 J	1.4 J	7	6.9
2-Methylnaphthalene	NE	NE	µg/L		NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	NE	NE	µg/L		0.49	19.8	23.9	ND	ND	28.7	26.8	97.2	96.1
Inorganic Constituents													
Cyanide, Total	NE	200	µg/L		20 J	15	11 J	5 U	5 U	48	47 J	5 U	8.8 J
Ammonia (as N)	NE	2000	µg/L		15 J	620 J	480	170	9 U	880	1000	100	56
Carbon dioxide	NE	NE	µg/L		9700	7600	9000	14000	7100	7700	9700	17000	8200
Methane	NE	NE	µg/L		0.22 U	150	120	2.5	4.1	13000	8100	15	30
Nitrate (as N)	NE	10000	µg/L		11 U	11 UJ	11 U	11 UJ	11 U	11 U	11 UJ	11 UJ	11 U
Sulfate	NE	250000	µg/L		52200	40800	21600 J	60500	48000	1500 U	1500 U	63200	35400
Ferric iron	NE	300	µg/L		**5100 J**	**1400**	**1100 J**	**10600**	**2100 J**	**15200**	**14300 J**	**7400**	**5100 J**
Manganese	NE	300	µg/L		**490**	**1300**	**970**	**450**	110	**1300**	**1000**	**700**	**510**
Phosphorous, total	NE	NE	µg/L		32	5 U	120	200	200	380	360	220	140
Total Kjeldahl nitrogen	NE	NE	µg/L		410	950	1400	460	170 J	1200	830	350	360

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria												
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-12S DUP	MW-12R	MW-12R	MW-13S	MW-13S	MW-14S	MW-14S	MW-15S	MW-15S
Constituent	Guidance	Standard	Units	Date	11/22/2011	8/4/2011	11/22/2011	8/4/2011	11/21/2011	7/29/2011	11/14/2011	8/3/2011	11/21/2011
Other Constituents													
Total organic carbon	NE	NE	µg/L		12900	2100	3700	3100	2800	920 J	3900	3500	4800
Volatile Fatty Acids													
Acetic acid	NE	NE	µg/L		150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
Butanoic acid	NE	NE	µg/L		160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
Formic acid	NE	NE	µg/L		110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
Lactic acid	NE	NE	µg/L		140 U	140 U	530 J	140 U	770 J	740 J	140 U	140 U	590 J
Propionic acid	NE	NE	µg/L		170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 UJ
Pyruvic acid	NE	NE	µg/L		80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria												
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-15R1	MW-15R2	MW-15R2	MW-16S	MW-16S	MW-17R	MW-17R	MW-18S	MW-18S DUP
Constituent	Guidance	Standard	Units	Date	8/4/2011	8/4/2011	11/22/2011	8/8/2011	11/15/2011	8/10/2011	11/17/2011	8/3/2011	8/3/2011
Volitile Organic Compounds													
BTEX													
Benzene	NE	1	µg/L		**52**	**130**	**150**	0.41 U	0.41 U	**240**	**670 J**	0.41 U	0.41 U
Toluene	NE	5	µg/L		2.3	2.2	3.5	0.51 U	0.51 U	3 J	**6.9**	0.51 U	0.51 U
Ethylbenzene	NE	5	µg/L		**44**	**92**	**180**	0.74 U	0.74 U	**23**	**280 J**	0.74 U	0.74 U
m&p-Xylenes	NE	5	µg/L		**11**	**8.9**	**19**	0.66 U	0.66 U	**22**	**65**	0.66 U	0.66 U
o-Xylene	NE	5	µg/L		**17**	**29**	**52**	0.76 U	0.76 U	**21**	**93**	0.76 U	0.76 U
Xylenes, Total	NE	NE	µg/L		28	38	71	0.66 U	0.66 U	41	160	0.66 U	0.66 U
Total BTEX	NE	NE	µg/L		126	262.1	404.5	ND	ND	309	1115	ND	ND
Semi-Volatile Organic Compounds (SVOCs)													
Polycyclic Aromatic Hydrocarbons (PAHs)													
Acenaphthene	20	NE	µg/L		7.4	**23**	**31**	0.39 U	0.39 U	**25**	**49**	5	5.6
Acenaphthylene	NE	NE	µg/L		5.3	5.8	9	0.36 U	0.36 U	0.7 J	1.8	4.7	4.9
Anthracene	50	NE	µg/L		0.91 J	0.38 J	0.81 J	0.27 U	0.27 U	2.1 J	2.4	0.26 U	0.26 U
Benzo(a)anthracene	0.002	NE	µg/L		0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.35 U	0.34 U	0.34 U	0.34 U
Benzo(a)pyrene	NE	0	µg/L		0.44 U	0.45 U	0.44 U	0.45 U	0.45 U	0.45 U	0.44 U	0.44 U	0.44 U
Benzo(b)fluoranthene	0.002	NE	µg/L		0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.33 U	0.32 U	0.32 U	0.32 U
Benzo(g,h,i)perylene	NE	NE	µg/L		0.33 U	0.33 U	0.33 U	0.33 UJ	0.33 U	0.34 UJ	0.33 U	0.33 U	0.33 U
Benzo(k)fluoranthene	0.002	NE	µg/L		0.69 U	0.7 U	0.69 U	0.69 U	0.69 U	0.71 U	0.69 U	0.69 U	**1.2 J**
Chrysene	0.002	NE	µg/L		0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.32 U	0.31 U	0.31 U	0.31 U
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.4 U	0.4 U	0.4 U	0.4 UJ	0.4 U	0.41 UJ	0.4 U	0.4 U	0.4 U
Fluoranthene	50	NE	µg/L		0.6 J	0.38 U	0.38 U	0.38 U	0.38 U	1.6 J	2.7 J	0.47 J	0.55 J
Fluorene	50	NE	µg/L		4 J	6.2	9.9	0.34 U	0.34 U	9.8	15	7.3	8
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.44 U	0.45 U	0.44 U	0.45 UJ	0.45 U	0.45 UJ	0.44 U	0.44 U	0.44 U
Naphthalene	10	NE	µg/L		**72**	3 J	**33**	1.2 J	0.72 U	**75**	**450**	0.72 U	0.72 U
Phenanthrene	50	NE	µg/L		4.3 J	3.9 J	6.8	0.42 U	0.42 U	14	25	0.42 U	0.42 U
Pyrene	50	NE	µg/L		0.74 J	0.32 U	0.32 U	0.32 U	0.32 U	1.6 J	2.6 J	0.74 J	0.86 J
2-Methylnaphthalene	NE	NE	µg/L		NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	NE	NE	µg/L		95.3	42.3	90.5	1.2	ND	129.8	549	18	21
Inorganic Constituents													
Cyanide, Total	NE	200	µg/L		5 UJ	5 U	5 UJ	5 U	21 J	**490**	22	5 U	5 U
Ammonia (as N)	NE	2000	µg/L		330	1100	980	31	9 U	1600	**2300**	70	73
Carbon dioxide	NE	NE	µg/L		9300	10000	5900	4400	2900	8200	7900	11000	11000
Methane	NE	NE	µg/L		200	520	440	0.68 J	0.75 J	15000	7200	25	22
Nitrate (as N)	NE	10000	µg/L		22 J	2400	11 U	11 UJ	70	11 U	11 U	11 U	11 U
Sulfate	NE	250000	µg/L		34700	1500 U	3900 J	29400	41900	1500 U	2400 J	55900	56900
Ferric iron	NE	300	µg/L		**13200**	**2000**	**980 J**	170	81 J	**6400**	**7700**	**4100**	**3900**
Manganese	NE	300	µg/L		**1000**	**600**	**520**	180	33	**980**	**1100**	**380**	**390**
Phosphorous, total	NE	NE	µg/L		5 U	25 U	44	180	110	240	99	110	97
Total Kjeldahl nitrogen	NE	NE	µg/L		940	1700	1200	150 U	150	2400	3200	500	420

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria												
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-15R1	MW-15R2	MW-15R2	MW-16S	MW-16S	MW-17R	MW-17R	MW-18S	MW-18S DUP
Constituent	Guidance	Standard	Units	Date	8/4/2011	8/4/2011	11/22/2011	8/8/2011	11/15/2011	8/10/2011	11/17/2011	8/3/2011	8/3/2011
Other Constituents													
Total organic carbon	NE	NE	µg/L		2700	2000	3300	2100	2300	5200	4700	430 U	440 J
Volatile Fatty Acids													
Acetic acid	NE	NE	µg/L		150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
Butanoic acid	NE	NE	µg/L		160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
Formic acid	NE	NE	µg/L		110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
Lactic acid	NE	NE	µg/L		140 U	770 J	710 J	140 U	140 U	140 U	850 J	140 U	540 J
Propionic acid	NE	NE	µg/L		170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Pyruvic acid	NE	NE	µg/L		80 U	80 U	80 U	80 U	1600	80 U	80 U	80 U	80 U

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria												
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-18S	MW-18R1	MW-18R1	MW-18R2	MW-18R2	MW-19S	MW-19S	MW-19R1	MW-19R1
Constituent	Guidance	Standard	Units	Date	11/17/2011	8/3/2011	11/17/2011	8/3/2011	11/18/2011	7/27/2011	11/9/2011	7/28/2011	11/9/2011
Volitile Organic Compounds													
BTEX													
Benzene	NE	1	µg/L		0.41 U	**19**	**16**	**170**	**160**	0.41 U	0.41 U	0.41 U	0.41 U
Toluene	NE	5	µg/L		0.51 U	0.67 J	0.51 U	2 U	1 U	0.51 U	0.51 U	0.51 U	0.51 U
Ethylbenzene	NE	5	µg/L		0.74 U	**13**	**10**	**6.2**	**6.8**	0.74 U	0.74 U	0.74 U	0.74 U
m&p-Xylenes	NE	5	µg/L		0.66 U	2.8	2.5	1.1 J	1.3 U	0.66 U	0.66 U	0.66 U	0.66 U
o-Xylene	NE	5	µg/L		0.76 U	4.9	4.1	2.9	2.1 U	0.76 U	0.76 U	0.76 U	0.76 U
Xylenes, Total	NE	NE	µg/L		0.66 U	7.7	6.6	2.6 U	2.1 J	0.66 U	0.66 U	0.66 U	0.66 U
Total BTEX	NE	NE	µg/L		ND	40.4	32.6	180	167	ND	ND	ND	ND
Semi-Volatile Organic Compounds (SVOCs)													
Polycyclic Aromatic Hydrocarbons (PAHs)													
Acenaphthene	20	NE	µg/L		3.1 J	**29**	**24**	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Acenaphthylene	NE	NE	µg/L		2.7 J	28	24	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Anthracene	50	NE	µg/L		0.26 U	8.5	7.6	0.26 U	0.26 U	0.27 U	0.26 U	0.27 U	0.26 U
Benzo(a)anthracene	0.002	NE	µg/L		0.34 U	**1 J**	**0.54 J**	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Benzo(a)pyrene	NE	0	µg/L		0.44 U	0.59 J	0.44 U	0.44 U	0.44 U	0.45 U	0.44 U	0.45 U	0.44 U
Benzo(b)fluoranthene	0.002	NE	µg/L		0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Benzo(g,h,i)perylene	NE	NE	µg/L		0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Benzo(k)fluoranthene	0.002	NE	µg/L		0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.7 U	0.69 U	0.7 U	0.69 U
Chrysene	0.002	NE	µg/L		0.31 U	**0.82 J**	**0.55 J**	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Fluoranthene	50	NE	µg/L		0.38 U	6.3	5	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
Fluorene	50	NE	µg/L		3.4 J	27	22	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.45 U	0.44 U	0.45 U	0.44 U
Naphthalene	10	NE	µg/L		0.72 U	3.9 J	6.2	4.7	0.81 J	0.72 U	0.72 U	0.72 U	0.72 U
Phenanthrene	50	NE	µg/L		0.42 U	40	38	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Pyrene	50	NE	µg/L		0.4 J	7.5	6.3	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
2-Methylnaphthalene	NE	NE	µg/L		NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	NE	NE	µg/L		9.6	153	134	4.7	0.81	ND	ND	ND	ND
Inorganic Constituents													
Cyanide, Total	NE	200	µg/L		5 U	26	21 J	5 U	8.4 J	5 U	5 U	5 U	5 U
Ammonia (as N)	NE	2000	µg/L		64	470	500	890	870	140	45	1500	1500
Carbon dioxide	NE	NE	µg/L		9000	11000	7300	1200	2100	8400	20000	10000	2100
Methane	NE	NE	µg/L		35	7.9	60	210	110	24	22	2900	1200
Nitrate (as N)	NE	10000	µg/L		11 U	11 U	11 U	11 UJ	11 U	11 UJ	11 U	11 U	11 U
Sulfate	NE	250000	µg/L		88100	50900	52900	1500 U	2900 J	126000	114000	1500 U	30800
Ferric iron	NE	300	µg/L		**4800**	**1200**	**910 J**	**1200**	**1200 J**	**22900**	**4800 J**	**1600**	130 J
Manganese	NE	300	µg/L		**480**	**590**	**530**	35	51	**1500**	**660**	**730**	**430**
Phosphorous, total	NE	NE	µg/L		30	97	28	83	38	910	290	410	210 UJ
Total Kjeldahl nitrogen	NE	NE	µg/L		320	870	720	1200	1100	400	150 UJ	1900	1900 J

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria												
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-18S	MW-18R1	MW-18R1	MW-18R2	MW-18R2	MW-19S	MW-19S	MW-19R1	MW-19R1
Constituent	Guidance	Standard	Units	Date	11/17/2011	8/3/2011	11/17/2011	8/3/2011	11/18/2011	7/27/2011	11/9/2011	7/28/2011	11/9/2011
Other Constituents													
Total organic carbon	NE	NE	µg/L		3700	430 U	3300	1300	2500	1300	1700	3000	5200
Volatile Fatty Acids													
Acetic acid	NE	NE	µg/L		150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
Butanoic acid	NE	NE	µg/L		160 U	160 UJ	160 U	160 U	160 U	160 U	160 U	160 U	160 U
Formic acid	NE	NE	µg/L		110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
Lactic acid	NE	NE	µg/L		1100	810 J	230 J	140 U	690 J	140 U	140 U	140 U	140 UJ
Propionic acid	NE	NE	µg/L		170 U	170 UJ	170 U	170 U	170 U	170 U	170 U	170 U	170 UJ
Pyruvic acid	NE	NE	µg/L		80 U	80 UJ	80 U	80 U	80 U	80 U	80 U	80 U	80 UJ

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria												
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-19R2	MW-19R2	MW-19R2 DUP	MW-20S	MW-20S	MW-20R1	MW-20R1	MW-20R2	MW-20R2
Constituent	Guidance	Standard	Units	Date	7/28/2011	11/9/2011	11/9/2011	7/28/2011	11/10/2011	7/28/2011	11/10/2011	7/28/2011	11/10/2011
Volitile Organic Compounds													
BTEX													
Benzene	NE	1	µg/L		**190**	**110 J**	**220 J**	0.41 U	0.41 U	0.41 U	0.41 U	**29000**	**26000**
Toluene	NE	5	µg/L		0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	200 U	**610**
Ethylbenzene	NE	5	µg/L		0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	**1800**	**1500**
m&p-Xylenes	NE	5	µg/L		0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	**500 J**	**490**
o-Xylene	NE	5	µg/L		0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	**300 J**	**280**
Xylenes, Total	NE	NE	µg/L		0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	800	770
Total BTEX	NE	NE	µg/L		190	110	220	ND	ND	ND	ND	31600	28880
Semi-Volatile Organic Compounds (SVOCs)													
Polycyclic Aromatic Hydrocarbons (PAHs)													
Acenaphthene	20	NE	µg/L		0.39 U	0.39 U	0.39 U	0.4 U	0.39 U	0.42 U	0.39 U	8.8 J	7.6
Acenaphthylene	NE	NE	µg/L		0.36 U	0.36 U	0.36 U	0.37 U	0.36 U	0.39 U	0.36 U	3.6 U	0.52 J
Anthracene	50	NE	µg/L		0.27 U	0.26 U	0.26 U	0.27 U	0.26 U	0.29 U	0.26 U	2.7 U	0.27 U
Benzo(a)anthracene	0.002	NE	µg/L		0.34 U	0.34 U	0.34 U	0.35 U	0.34 U	0.37 U	0.34 U	3.4 U	0.34 U
Benzo(a)pyrene	NE	0	µg/L		0.45 U	0.44 U	0.44 U	0.45 U	0.44 U	0.48 U	0.44 U	4.5 U	0.45 U
Benzo(b)fluoranthene	0.002	NE	µg/L		0.32 U	0.32 U	0.32 U	0.33 U	0.32 U	0.35 U	0.32 U	3.2 U	0.32 U
Benzo(g,h,i)perylene	NE	NE	µg/L		0.33 U	0.33 U	0.33 U	0.34 U	0.33 U	0.36 U	0.33 U	3.3 U	0.33 U
Benzo(k)fluoranthene	0.002	NE	µg/L		0.7 U	0.69 U	0.69 U	0.71 U	0.69 U	0.75 U	0.69 U	6.9 U	0.7 U
Chrysene	0.002	NE	µg/L		0.31 U	0.31 U	0.31 U	0.32 U	0.31 U	0.34 U	0.31 U	3.1 U	0.31 U
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.4 U	0.4 U	0.4 U	0.41 U	0.4 U	0.43 U	0.4 U	4 U	0.4 U
Fluoranthene	50	NE	µg/L		0.38 U	0.38 U	0.38 U	0.39 U	0.38 U	0.41 U	0.38 U	3.8 U	0.38 U
Fluorene	50	NE	µg/L		0.34 U	0.34 U	0.34 U	0.35 U	0.34 U	0.37 U	0.34 U	3.4 U	0.34 U
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.45 U	0.44 U	0.44 U	0.45 U	0.44 U	0.48 U	0.44 U	4.5 U	0.45 U
Naphthalene	10	NE	µg/L		0.72 U	0.72 U	0.72 U	0.73 U	0.72 U	0.78 U	0.72 U	**670**	**500**
Phenanthrene	50	NE	µg/L		0.42 U	0.42 U	0.42 U	0.43 U	0.42 U	0.45 U	0.42 U	4.2 U	0.42 U
Pyrene	50	NE	µg/L		0.32 U	0.32 U	0.32 U	0.33 U	0.32 U	0.35 U	0.32 U	3.2 U	0.32 U
2-Methylnaphthalene	NE	NE	µg/L		NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	NE	NE	µg/L		ND	ND	ND	ND	ND	ND	ND	679	508
Inorganic Constituents													
Cyanide, Total	NE	200	µg/L		15	14 J	11 J	5 U	5 U	5 U	5 U	5 U	5 U
Ammonia (as N)	NE	2000	µg/L		1900	**2400**	**2400**	300	200	1500	1600	**5800**	**3400**
Carbon dioxide	NE	NE	µg/L		1000 U	1000 U	1000	17000	21000	1000	1000 U	1300	2800
Methane	NE	NE	µg/L		9300	6500	6700	100	190	6800	7900	26000	32000
Nitrate (as N)	NE	10000	µg/L		11 U	11 UJ	11 UJ	11 U	11 U	460	11 U	11 U	11 U
Sulfate	NE	250000	µg/L		1500 U	3700 J	4100 J	43700	43100	1500 U	3800 J	1500 U	14200
Ferric iron	NE	300	µg/L		**1100**	**640 J**	**640 J**	**27700**	**11700 J**	**2500**	**3000 J**	**1800**	**9200 J**
Manganese	NE	300	µg/L		**420**	**510**	**530**	**880**	**1100**	**330**	290	**1400**	**1300**
Phosphorous, total	NE	NE	µg/L		100	72	72	410	320	48 J	110	120	270
Total Kjeldahl nitrogen	NE	NE	µg/L		2300	2600 J	2800 J	410	510 J	1600	1400 J	3900	3400 J

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria												
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-19R2	MW-19R2	MW-19R2 DUP	MW-20S	MW-20S	MW-20R1	MW-20R1	MW-20R2	MW-20R2
Constituent	Guidance	Standard	Units	Date	7/28/2011	11/9/2011	11/9/2011	7/28/2011	11/10/2011	7/28/2011	11/10/2011	7/28/2011	11/10/2011
Other Constituents													
Total organic carbon	NE	NE	µg/L		5000	5600	4600	490 J	3100	430 U	1500	430 U	2300
Volatile Fatty Acids													
Acetic acid	NE	NE	µg/L		150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
Butanoic acid	NE	NE	µg/L		160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
Formic acid	NE	NE	µg/L		110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
Lactic acid	NE	NE	µg/L		140 U	140 U	140 U	140 U	140 U	140 U	140 U	920 J	140 U
Propionic acid	NE	NE	µg/L		170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U
Pyruvic acid	NE	NE	µg/L		80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria												
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-21S	MW-21S	MW-21R1	MW-21R1	MW-21R2	MW-21R2	MW-22S	MW-22S	MW-22R1
Constituent	Guidance	Standard	Units	Date	8/2/2011	11/10/2011	8/1/2011	11/11/2011	8/1/2011	11/11/2011	7/27/2011	11/8/2011	7/27/2011
Volitile Organic Compounds													
BTEX													
Benzene	NE	1	µg/L		0.41 U	0.41 U	0.52 J	0.41 U	**6000**	**9200 J**	0.41 U	0.41 U	0.41 U
Toluene	NE	5	µg/L		0.51 U	0.51 U	0.51 U	0.75 J	**350**	**980 J**	0.51 U	0.51 U	0.51 U
Ethylbenzene	NE	5	µg/L		0.74 U	0.74 U	0.74 U	0.74 U	**92 J**	**370 J**	0.74 U	0.74 U	0.74 U
m&p-Xylenes	NE	5	µg/L		0.66 U	0.66 U	0.66 U	0.66 U	**36 J**	**180**	0.66 U	0.66 U	0.66 U
o-Xylene	NE	5	µg/L		0.76 U	0.76 U	0.76 U	0.76 U	**45**	**180 J**	0.76 U	0.76 U	0.76 U
Xylenes, Total	NE	NE	µg/L		0.66 U	0.66 U	0.66 U	0.66 U	66 U	360 J	0.66 U	0.66 U	0.66 U
Total BTEX	NE	NE	µg/L		ND	ND	0.52	0.75	6523	10910	ND	ND	ND
Semi-Volatile Organic Compounds (SVOCs)													
Polycyclic Aromatic Hydrocarbons (PAHs)													
Acenaphthene	20	NE	µg/L		0.39 U	0.39 U	0.44 U	0.39 U	0.41 U	1.6 J	0.39 U	0.39 U	0.39 U
Acenaphthylene	NE	NE	µg/L		0.36 U	0.36 U	0.41 U	0.36 U	0.38 U	0.37 U	0.36 U	0.36 U	0.36 U
Anthracene	50	NE	µg/L		0.26 U	0.26 U	0.3 U	0.27 U	0.28 U	0.27 U	0.27 U	0.26 U	0.27 U
Benzo(a)anthracene	0.002	NE	µg/L		0.34 U	0.34 U	0.39 U	0.34 U	0.36 U	0.35 U	0.34 U	0.34 U	0.34 U
Benzo(a)pyrene	NE	0	µg/L		0.44 U	0.44 U	0.51 U	0.45 U	0.47 U	0.45 U	0.45 U	0.44 U	0.45 U
Benzo(b)fluoranthene	0.002	NE	µg/L		0.32 U	0.32 U	0.37 U	0.32 U	0.34 U	0.33 U	0.32 U	0.32 U	0.32 U
Benzo(g,h,i)perylene	NE	NE	µg/L		0.33 U	0.33 U	0.38 U	0.33 U	0.35 U	0.34 U	0.33 U	0.33 U	0.33 U
Benzo(k)fluoranthene	0.002	NE	µg/L		0.69 U	0.69 U	**1.4 J**	0.69 U	0.72 U	0.7 U	0.7 U	0.69 U	0.69 U
Chrysene	0.002	NE	µg/L		0.31 U	0.31 U	0.35 U	0.31 U	0.33 U	0.32 U	0.31 U	0.31 U	0.31 U
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.4 U	0.4 U	0.45 U	0.4 U	0.42 U	0.4 U	0.4 U	0.4 U	0.4 U
Fluoranthene	50	NE	µg/L		0.38 U	0.38 U	0.43 U	0.38 U	0.4 U	0.38 U	0.38 U	0.38 U	0.38 U
Fluorene	50	NE	µg/L		0.34 U	0.34 U	0.39 U	0.34 U	0.36 U	0.35 U	0.34 U	0.34 U	0.34 U
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.44 U	0.44 U	0.51 U	0.45 U	0.47 U	0.45 U	0.45 U	0.44 U	0.45 U
Naphthalene	10	NE	µg/L		0.72 U	0.72 U	0.82 U	0.72 U	8.5	**160**	0.72 U	0.72 U	0.72 U
Phenanthrene	50	NE	µg/L		0.42 U	0.42 U	0.47 U	0.42 U	0.44 U	0.42 U	0.42 U	0.42 U	0.42 U
Pyrene	50	NE	µg/L		0.32 U	0.32 U	0.37 U	0.32 U	0.34 U	0.33 U	0.32 U	0.32 U	0.32 U
2-Methylnaphthalene	NE	NE	µg/L		NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	NE	NE	µg/L		ND	ND	1.4	ND	8.5	162	ND	ND	ND
Inorganic Constituents													
Cyanide, Total	NE	200	µg/L		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ammonia (as N)	NE	2000	µg/L		99	9 U	1300	**2300**	**2500**	**3400**	230	270	1400
Carbon dioxide	NE	NE	µg/L		4600	8200 J	1000 U	1000 U	1000 U	1000 U	6900	3600	1000 U
Methane	NE	NE	µg/L		2.8	4.5	320	11000	16000	31000	24	44	160
Nitrate (as N)	NE	10000	µg/L		710	850	11 UJ	11 U	11 UJ	11 U	11 U	11 UJ	11 U
Sulfate	NE	250000	µg/L		31500	47500	122000	78100	22200	4700 J	42100	55400	30000
Ferric iron	NE	300	µg/L		**1500**	**460**	**8500**	**8500 J**	**15600**	**6700 J**	**6000**	**7500 J**	**47800**
Manganese	NE	300	µg/L		**600**	130	120	110	190	180	**680**	**520**	**700**
Phosphorous, total	NE	NE	µg/L		68	50	360	390	180	130	800	660	350
Total Kjeldahl nitrogen	NE	NE	µg/L		270	150 UJ	1600	2900	2300	3200 J	380	370	2300

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria												
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-21S	MW-21S	MW-21R1	MW-21R1	MW-21R2	MW-21R2	MW-22S	MW-22S	MW-22R1
Constituent	Guidance	Standard	Units	Date	8/2/2011	11/10/2011	8/1/2011	11/11/2011	8/1/2011	11/11/2011	7/27/2011	11/8/2011	7/27/2011
Other Constituents													
Total organic carbon	NE	NE	µg/L		820 J	1400	2500	2300	800 J	1700	980 J	1500	1000
Volatile Fatty Acids													
Acetic acid	NE	NE	µg/L		150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U	3000 U
Butanoic acid	NE	NE	µg/L		160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U	3200 U
Formic acid	NE	NE	µg/L		110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	2200 U
Lactic acid	NE	NE	µg/L		620 J	140 U	1400	140 U	140 U	140 U	460 J	140 U	2800 U
Propionic acid	NE	NE	µg/L		170 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	3400 U
Pyruvic acid	NE	NE	µg/L		80 U	80 U	80 U	80 U	80 U	80 U	80 U	80 U	1600 U

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria			Loc ID	MW-22R1	MW-22R2	MW-22R2	MW-23R1	MW-23R1	MW-23R2	MW-23R2	MW-24R1	MW-24R1
	TOGS 1.1.1	NYS Part 703											
Constituent	Guidance	Standard	Units	Date	11/9/2011	8/2/2011	11/9/2011	8/2/2011	11/11/2011	8/2/2011	11/11/2011	7/26/2011	11/7/2011
Volitile Organic Compounds													
BTEX													
Benzene	NE	1	µg/L		0.41 U	**1300**	**48**	0.41 U	0.41 U	**56 J**	**17**	0.41 U	0.41 U
Toluene	NE	5	µg/L		0.51 U	**6.5**	0.51 U	0.51 U	0.51 U	0.51 UJ	0.51 U	0.51 U	0.51 U
Ethylbenzene	NE	5	µg/L		0.74 U	**490**	3.2	0.74 U	0.74 U	0.74 UJ	0.74 U	0.74 U	0.74 U
m&p-Xylenes	NE	5	µg/L		0.66 U	**47**	1.3 J	0.66 U	0.66 U	0.66 UJ	0.66 U	0.66 U	0.66 U
o-Xylene	NE	5	µg/L		0.76 U	**110**	3.7	0.76 U	0.76 U	0.76 UJ	0.76 U	0.76 U	0.76 U
Xylenes, Total	NE	NE	µg/L		0.66 U	160	5	0.66 U	0.66 U	0.66 UJ	0.66 U	0.66 U	0.66 U
Total BTEX	NE	NE	µg/L		ND	1954	56.2	ND	ND	56	17	ND	ND
Semi-Volatile Organic Compounds (SVOCs)													
Polycyclic Aromatic Hydrocarbons (PAHs)													
Acenaphthene	20	NE	µg/L		0.4 U	**95**	2.2 J	0.42 U	0.39 U	0.39 U	0.42 U	0.39 U	0.39 U
Acenaphthylene	NE	NE	µg/L		0.37 U	3.6 U	0.37 U	0.39 U	0.36 U	0.36 U	0.39 U	0.36 U	0.36 U
Anthracene	50	NE	µg/L		0.27 U	2.4 J	0.27 U	0.29 U	0.27 U	0.26 U	0.29 U	0.27 U	0.26 U
Benzo(a)anthracene	0.002	NE	µg/L		0.35 U	0.34 U	0.35 U	0.37 U	0.34 U	0.34 U	0.37 U	0.34 U	0.34 U
Benzo(a)pyrene	NE	0	µg/L		0.46 U	4.4 U	0.46 U	0.48 U	0.45 U	0.44 U	0.48 U	0.45 U	0.44 U
Benzo(b)fluoranthene	0.002	NE	µg/L		0.33 U	3.2 U	0.33 U	0.35 U	0.32 U	0.32 U	0.35 U	0.32 U	0.32 U
Benzo(g,h,i)perylene	NE	NE	µg/L		0.34 U	3.3 U	0.34 U	0.36 U	0.33 U	0.33 U	0.36 U	0.33 U	0.33 U
Benzo(k)fluoranthene	0.002	NE	µg/L		0.71 U	6.9 U	0.71 U	0.75 U	0.69 U	0.69 U	0.74 U	0.69 U	0.69 U
Chrysene	0.002	NE	µg/L		0.32 U	3.1 U	0.32 U	0.34 U	0.31 U	0.31 U	0.34 U	0.31 U	0.31 U
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.41 U	4 U	0.41 U	0.43 U	0.4 U	0.4 U	0.43 U	0.4 U	0.4 U
Fluoranthene	50	NE	µg/L		0.39 U	3.8 U	0.39 U	0.41 U	0.38 U	0.38 U	0.41 U	0.38 U	0.38 U
Fluorene	50	NE	µg/L		0.35 U	19 J	0.35 U	0.37 U	0.34 U	0.34 U	0.37 U	0.34 U	0.34 U
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.46 U	4.4 U	0.46 U	0.48 U	0.45 U	0.44 U	0.48 U	0.45 U	0.44 U
Naphthalene	10	NE	µg/L		0.74 U	**1100**	0.74 U	1.2 J	0.72 U	5.7	2.1 J	0.72 U	0.72 U
Phenanthrene	50	NE	µg/L		0.43 U	17 J	0.43 U	0.45 U	0.42 U	0.42 U	0.45 U	0.42 U	0.42 U
Pyrene	50	NE	µg/L		0.33 U	3.2 U	0.33 U	0.35 U	0.32 U	0.32 U	0.35 U	0.32 U	0.32 U
2-Methylnaphthalene	NE	NE	µg/L		NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	NE	NE	µg/L		ND	1233	2.2	1.2	ND	5.7	2.1	ND	ND
Inorganic Constituents													
Cyanide, Total	NE	200	µg/L		5 U	17	5 U	5 U	5 U	5 R	5 U	5 U	5 U
Ammonia (as N)	NE	2000	µg/L		1400	**2500**	260	**16200**	**2500**	980	**2400**	**2200**	1100
Carbon dioxide	NE	NE	µg/L		1000 U	7400	1300	1000 U	1000 U	1000 U	1000 U	2800	14000
Methane	NE	NE	µg/L		380	15000	570	12000	5300	6300 J	14000	72	160
Nitrate (as N)	NE	10000	µg/L		11 U	11 U	11 U	610	27 J	11 UJ	11 U	11 U	11 UJ
Sulfate	NE	250000	µg/L		23000	1500 U	3800	**345000**	61400	32000 J	15100	168000	46200
Ferric iron	NE	300	µg/L		**14200 J**	**6500**	**2300 J**	**210000**	**220000 J**	**130000**	**134000 J**	**6800**	**2100 J**
Manganese	NE	300	µg/L		220	**910**	190	**2300**	**2500**	**1800**	**1600**	**360**	**1200**
Phosphorous, total	NE	NE	µg/L		150	130	62	1600	8000	1600	2700	180	32
Total Kjeldahl nitrogen	NE	NE	µg/L		1900 J	2500	580	14300	2800	4600	4500	2000	1400

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria			Loc ID	MW-22R1	MW-22R2	MW-22R2	MW-23R1	MW-23R1	MW-23R2	MW-23R2	MW-24R1	MW-24R1
	TOGS 1.1.1	NYS Part 703											
Constituent	Guidance	Standard	Units	Date	11/9/2011	8/2/2011	11/9/2011	8/2/2011	11/11/2011	8/2/2011	11/11/2011	7/26/2011	11/7/2011
Other Constituents													
Total organic carbon	NE	NE	µg/L		1500	3300	4700	430 U	830 J	430 U	1000	430 U	1100
Volatile Fatty Acids													
Acetic acid	NE	NE	µg/L		150 U	150 U	150 U	150 U	150 U	150 UJ	150 U	150 U	150 U
Butanoic acid	NE	NE	µg/L		160 U	160 U	160 U	160 U	160 U	160 UJ	160 U	160 ND	160 U
Formic acid	NE	NE	µg/L		110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
Lactic acid	NE	NE	µg/L		140 U	140 U	140 U	640 J	140 U	790 J	140 U	140 U	140 U
Propionic acid	NE	NE	µg/L		170 U	170 U	170 U	170 U	170 U	170 UJ	170 U	170 ND	170 U
Pyruvic acid	NE	NE	µg/L		80 U	80 U	80 U	80 U	5900	80 UJ	80 U	80 R	80 U

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703 Standard	Units	Loc ID	MW-24R2	MW-24R2 DUP	MW-24R2	MW-25R1	MW-25R1	MW-25R2	MW-25R2
Date					7/26/2011	7/26/2011	11/8/2011	7/29/2011	11/14/2011	7/29/2011	11/14/2011
Volitile Organic Compounds											
BTEX											
Benzene	NE	1	µg/L		0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Toluene	NE	5	µg/L		0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Ethylbenzene	NE	5	µg/L		0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U
m&p-Xylenes	NE	5	µg/L		0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U
o-Xylene	NE	5	µg/L		0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
Xylenes, Total	NE	NE	µg/L		0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U
Total BTEX	NE	NE	µg/L		ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	20	NE	µg/L		0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.4 U	0.39 U
Acenaphthylene	NE	NE	µg/L		0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.37 U	0.36 U
Anthracene	50	NE	µg/L		0.27 U	0.26 U	0.26 U	0.27 U	0.26 U	0.27 U	0.27 U
Benzo(a)anthracene	0.002	NE	µg/L		0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.35 U	0.34 U
Benzo(a)pyrene	NE	0	µg/L		0.45 U	0.44 U	0.44 U	0.45 U	0.44 U	0.46 U	0.45 U
Benzo(b)fluoranthene	0.002	NE	µg/L		0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.33 U	0.32 U
Benzo(g,h,i)perylene	NE	NE	µg/L		0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U	0.33 U
Benzo(k)fluoranthene	0.002	NE	µg/L		0.7 U	0.69 U	0.69 U	0.69 U	0.69 U	0.71 U	0.69 U
Chrysene	0.002	NE	µg/L		0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.32 U	0.31 U
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.41 U	0.4 U
Fluoranthene	50	NE	µg/L		0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.39 U	0.38 U
Fluorene	50	NE	µg/L		0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.35 U	0.34 U
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.45 U	0.44 U	0.44 U	0.45 U	0.44 U	0.46 U	0.45 U
Naphthalene	10	NE	µg/L		0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.74 U	0.72 U
Phenanthrene	50	NE	µg/L		0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.43 U	0.42 U
Pyrene	50	NE	µg/L		0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.33 U	0.32 U
2-Methylnaphthalene	NE	NE	µg/L		NA	NA	NA	NA	NA	NA	NA
Total PAHs	NE	NE	µg/L		ND	ND	ND	ND	ND	ND	ND
Inorganic Constituents											
Cyanide, Total	NE	200	µg/L		5 U	5 U	5 U	5 U	5 UJ	5 U	5 UJ
Ammonia (as N)	NE	2000	µg/L		1700	1600	1500	**2500**	**2200**	1500	1500
Carbon dioxide	NE	NE	µg/L		11000	15000	20000	12000	27000	6700	9700
Methane	NE	NE	µg/L		230	300	500	220	190	24	150
Nitrate (as N)	NE	10000	µg/L		11 U	11 U	11 U	11 U	1100 J	11 U	11 UJ
Sulfate	NE	250000	µg/L		28100	30800	23500	41700	33400	31800	39500
Ferric iron	NE	300	µg/L		**5400**	**4500**	**1100 J**	**5200**	**600 J**	**7600**	**3700 J**
Manganese	NE	300	µg/L		**1200**	**1100**	**1100**	**2300**	**3100**	**2600**	**2500**
Phosphorous, total	NE	NE	µg/L		270 J	150 J	18	33	34	220	72
Total Kjeldahl nitrogen	NE	NE	µg/L		1900	1900	1800	2200	1200	1800	1900

TABLE 4
GROUNDWATER ANALYTICAL RESULTS
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

	Class GA Groundwater Criteria										
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-24R2	MW-24R2 DUP	MW-24R2	MW-25R1	MW-25R1	MW-25R2	MW-25R2
Constituent	Guidance	Standard	Units	Date	7/26/2011	7/26/2011	11/8/2011	7/29/2011	11/14/2011	7/29/2011	11/14/2011
Other Constituents											
Total organic carbon	NE	NE	µg/L		430 U	430 U	1200	660 J	430 U	640 J	430 U
Volatile Fatty Acids											
Acetic acid	NE	NE	µg/L		150 U	150 U	150 U	150 U	150 U	150 U	150 U
Butanoic acid	NE	NE	µg/L		160 ND	160 ND	160 U	160 U	160 U	160 U	160 U
Formic acid	NE	NE	µg/L		110 U	110 U	110 U	110 U	110 U	110 U	110 U
Lactic acid	NE	NE	µg/L		140 U	140 U	140 U	440 J	140 U	720 J	140 U
Propionic acid	NE	NE	µg/L		170 ND	170 ND	170 U	170 U	170 U	170 U	170 U
Pyruvic acid	NE	NE	µg/L		80 ND	80 ND	80 U	80 U	80 U	80 U	80 U

Notes:
D - Result was obtained from the analysis of a dilution.
J - Estimated concentration. The result is below the quantitation limit but above the practical quantitation limit or the method detection limit.
U - The analyte was analyzed for, but was not detected.
µg/L - micrograms per liter
NA - Not analyzed.
ND - Not detected.
NE - Not established.
UJ –The analyte was not detected above the reported sample quantitation limit. However, based on data validation, the reported method detection limit is approximate and may or may not represent the actual limit of the quantitation necessary to accurately and precisely measure the analyte in the sample.
R – Results rejected as determined by data validator.
UR - Tha analyte was not detected, and the data was rejected as determined by data validator.

- - Groundwater Standard or Guidance Value not established.

Boxed concentrations are above New York State Class GA Groundwater Standards or Guidance values.

(1) - Any detected concentration for Benzo(a)pyrene is considered above the Part 703 Standard.
(2) - Based on a review of the groundwater sampling field data sheets, it was apparent that samples from MW-2R1 and MW-2R2 were mislabled. The data in this table are posted under the correct location.

TABLE 5
FIELD PARAMETER MEASUREMENTS FOR GROUNDWATER
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Well	Date	pH	Temperature (°C)	Specific Conductance (S/m)	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
Overburden Monitoring Wells							
MW-1S	7/27/2011	6.76	16.18	3.64	210	0.81	8.0
MW-1S	11/8/2011	8.08	14.5	3.70	210	7.82	57.1
MW-2S	8/9/2011	6.67	15.21	1.53	211	0.98	21.7
MW-2S	11/15/2011	7.82	15.89	0.87	143	4.58	0.0
MW-3S	7/27/2011	6.44	16.75	2.66	362	0.75	5.6
MW-3S	11/8/2011	7.71	13.57	2.38	299	7.79	40.0
MW-4S	8/9/2011	7.08	15.83	0.684	42	0.54	0.0
MW-4S	11/16/2011	7.12	15.94	1.780	86	0	0.0
MW-7S	8/5/2011	7.16	19.22	0.71	240	0.74	191
MW-7S	11/14/2011	7.11	14.75	1.60	126	0	0
MW-8S	7/26/2011	6.82	17.27	1.20	121	0.89	0.0
MW-8S	11/8/2011	7.93	16.91	1.73	114	6.33	0.0
MW-10S	8/5/2011	6.29	15.30	2.09	270	0.90	0.0
MW-10S	11/21/2011	6.62	13.40	1.63	281	0.00	0.0
MW-11S	8/5/2011	7.22	11.81	0.900	65	0.57	0.3
MW-11S	11/16/2011	7	13.22	1.860	102	0	0.0
MW-12S	8/4/2011	6.51	13.02	2.14	93	0.71	182
MW-12S	11/22/2011	6.83	11.24	2.15	127	0	3
MW-13S	8/4/2011	5.87	15.32	1.27	145	0.88	16.9
MW-13S	11/21/2011	6.56	13.33	0.43	167	0	18.7
MW-14S	7/29/2011	7.16	11.90	3.16	19	0.58	0.0
MW-14S	11/14/2011	7.41	11.69	3.29	32	0	0.0
MW-15S	8/3/2011	6.78	15.47	2.12	88	0.73	0.0
MW-15S	11/21/2011	6.82	12.05	1.30	112	0	37.0
MW-16S	8/8/2011	6.61	25.41	0.432	135	0.58	0.0
MW-16S	11/15/2011	7.29	1.71	0.341	223	0.27	0.0
MW-18S	8/3/2011	6.93	14.87	1.07	75	0.60	10.5
MW-18S	11/17/2011	6.97	11.72	0.71	119	0.00	45.5

TABLE 5
FIELD PARAMETER MEASUREMENTS FOR GROUNDWATER
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Well	Date	pH	Temperature (°C)	Specific Conductance (S/m)	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
MW-19S	7/27/2011	6.67	18.08	1.05	99	0.55	25.4
MW-19S	11/9/2011	7.47	15.95	0.99	156	8.22	178.0
MW-20S	7/28/2011	6.85	16.79	0.941	99	3.9	52.6
MW-20S	11/10/2011	7.07	15.26	0.702	105	0	2.4
MW-21S	8/2/2011	6.84	20.43	0.398	306	1.47	35.0
MW-21S	11/10/2011	6.95	16	0.310	309	4.08	39.1
MW-22S	7/27/2011	7.04	14.93	0.558	47	0.64	67.5
MW-22S	11/8/2011	8.19	14.81	0.705	36	7.4	105.0
Bedrock Monitoring Wells							
MW-2R1	8/9/2011	6.79	15.79	2.04	53	0.58	19.2
MW-2R1	11/16/2011	7.08	12.98	2.30	81	0	0.0
MW-2R2	8/9/2011	6.91	15.72	1.03	64	0.57	6.1
MW-2R2	11/15/2011	7.05	15.11	0.95	116	0	0.0
MW-4R2	8/9/2011	6.71	15.81	1.74	89	0.74	20.3
MW-4R2	11/16/2011	6.92	12.32	1.97	119	0	0.0
MW-5R	8/8/2011	7.72	17.91	1.21	49	0.78	2.9
MW-5R	11/15/2011	7.9	13.5	0.81	97	0.21	0.0
MW-7R1	8/8/2011	7.28	14.40	1.49	37	0.56	18.4
MW-7R1	11/15/2011	7.48	13.72	0.79	67	0	0.0
MW-7R2	8/8/2011	7.01	16.62	2.87	28	0.65	0.0
MW-7R2	11/15/2011	8.44	13.91	3.16	13	4.94	0.0
MW-8R	7/26/2011	7.14	15.57	2.17	107	0.97	0.0
MW-8R	11/8/2011	8.26	13.97	2.39	94	7.4	0.0
MW-9R	8/10/2011	6.83	13.07	2.06	140	0.56	12.0
MW-9R	11/18/2011	6.75	11.53	2.22	204	0	0.0
MW-12R	8/4/2011	6.88	16.13	1.93	121	0.66	2.2
MW-12R	11/22/2011	6.97	11.18	1.72	126	0	1.4
MW-15R1	8/4/2011	7.00	12.21	2.05	25	0.56	6.6

TABLE 5
FIELD PARAMETER MEASUREMENTS FOR GROUNDWATER
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Well	Date	pH	Temperature (°C)	Specific Conductance (S/m)	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
MW-15R2	8/4/2011	7.01	12.71	1.69	27	0.67	24.9
MW-15R2	11/22/2011	7.18	10.18	1.46	-8	0	25.0
MW-17R	8/10/2011	7.14	12.44	2.99	41	0.58	98.3
MW-17R	11/17/2011	6.97	11.04	2.85	90	0	19.6
MW-18R1	8/3/2011	6.97	12.91	1.08	79	0.65	20.4
MW-18R1	11/17/2001	6.96	11.78	0.65	114	0	0.0
MW-18R2	8/3/2011	8.37	12.16	1.32	46	0.64	15.7
MW-18R2	11/18/2011	7.89	10.71	1.22	69	0	9.7
MW-19R1	7/28/2011	7.24	13.32	1.07	91	0.72	1.6
MW-19R1	11/9/2011	9.83	13.85	1.15	46	9.21	148.0
MW-19R2	7/28/2011	8.99	13.45	2.28	67	0.78	25.2
MW-19R2	11/9/2011	10.04	13.98	2.49	17	9.48	222.0
MW-20R1	7/28/2011	7.89	15.30	1.77	-41	0.49	84.2
MW-20R1	11/10/2011	7.93	12.77	1.75	-66	0.66	161.0
MW-20R2	7/28/2011	7.65	16.10	4.51	-23	0.48	136
MW-20R2	11/10/2011	8.52	13.66	7.25	32	4.96	123
MW-21R1	8/1/2011	9.76	22.48	0.981	106	0.60	164
MW-21R1	11/11/2011	10.13	12.38	0.881	236	0.11	531
MW-21R2	8/1/2011	9.26	24.74	3.64	46	0.59	315
MW-21R2	11/10/2011	10.72	14.51	5.13	23	5.85	>800
MW-22R1	7/27/2011	8.96	13.41	0.80	148	0.61	294
MW-22R1	11/9/2011	10.2	12.66	0.88	61	6.78	176
MW-22R2	8/2/2011	7.36	13.52	2.20	41	0.62	70.3
MW-22R2	11/9/2011	8.71	12.91	0.46	45	6.82	30.9
MW-23R1	8/2/2011	11.96	16.50	2.42	33	0.89	0.0
MW-23R1	11/11/2011	10.77	13.14	0.62	204	0	>800
MW-23R2	8/2/2011	9.32	14.33	1.07	-26	0.49	>800
MW-23R2	11/11/2011	10.27	12.77	0.92	177	0	>800
MW-24R1	7/26/2011	8.50	14.12	1.87	283	3.36	0.0

TABLE 5
FIELD PARAMETER MEASUREMENTS FOR GROUNDWATER
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

Well	Date	pH	Temperature (°C)	Specific Conductance (S/m)	ORP (mV)	Dissolved Oxygen (mg/l)	Turbidity (NTU)
MW-24R1	11/7/2011	8.13	14.58	2.16	100	5.82	81.3
MW-24R2	7/26/2011	6.99	15.17	1.95	135	1.20	449
MW-24R2	11/8/2011	8.09	13.29	2.20	95	6.73	4
MW-25R1	7/29/2011	6.60	14.81	2.68	130	0.60	9.7
MW-25R1	11/14/2011	6.60	13.39	3.18	159	0.00	0.0
MW-25R2	7/29/2011	6.84	19.21	1.77	122	0.63	8.5
MW-25R2	11/14/2011	7	12.63	2.58	143	0	209.0

Notes:

°C - degrees centigrade
S/m - Siemens per meter
mV - millivolts
mg/l - milligrams per liter
NTU - nephelometric turbidity units

Figures

LEGEND:

MW-10S	MONITORING WELL
SB-42	SOIL BORING
SG-1	STAFF GAUGE
TP-1	TEST PIT
SV-2	SOIL VAPOR PROBE
SW-3/6	SURFACE WATER SAMPLE
R13-SS4	SURFACE SOIL SAMPLE 0-2"
P-SS-6	SURFACE SOIL SAMPLE 0-6"
SED-3	RIVER BANK DEPOSIT SAMPLE
OA-4	OURDOOR AIR SAMPLE LOCATION

PAAFI LOCATIONS:

BRB-2	BEDROCK BORING
TP-1	TEST PIT

FORMER MGP STRUCTURES

BUILDING

ROAD

23 GROUND SURFACE ELEVATION CONTOUR (FT., NGVD)

CROSS-SECTION LINE

BEDROCK OUTCROP (APPROXIMATE)

SOURCE : BASE MAP FROM SURVEY BY VAN DUSEN AND STEVES LLC, 2003 & 2005. REVISED BY M.J. ENGINEERING & LAND SURVEYING. LLC. 2007, 2009 & 2011.

NOTES:

1. * SW-4 TO 6 COLLECTED ON 9/26/05
   SW-1 TO 3 COLLECTED ON 4/01/05 AND 7/30/07
2. ** WELL DESTROYED (REPLACED BY MW-2S AND 7/30/07)
3. # SURFACE WATER SAMPLE COLLECTED FROM LOCATION PRIOR TO DISTURBANCE OF RIVER BANK DEPOSITS.
4. ## SURFACE WATER SAMPLE COLLECTED FOLLOWING DISTURBANCE OF RIVER BANK DEPOSITS.

0 50 100
SCALE IN FEET

FIGURE 1

SITE PLAN

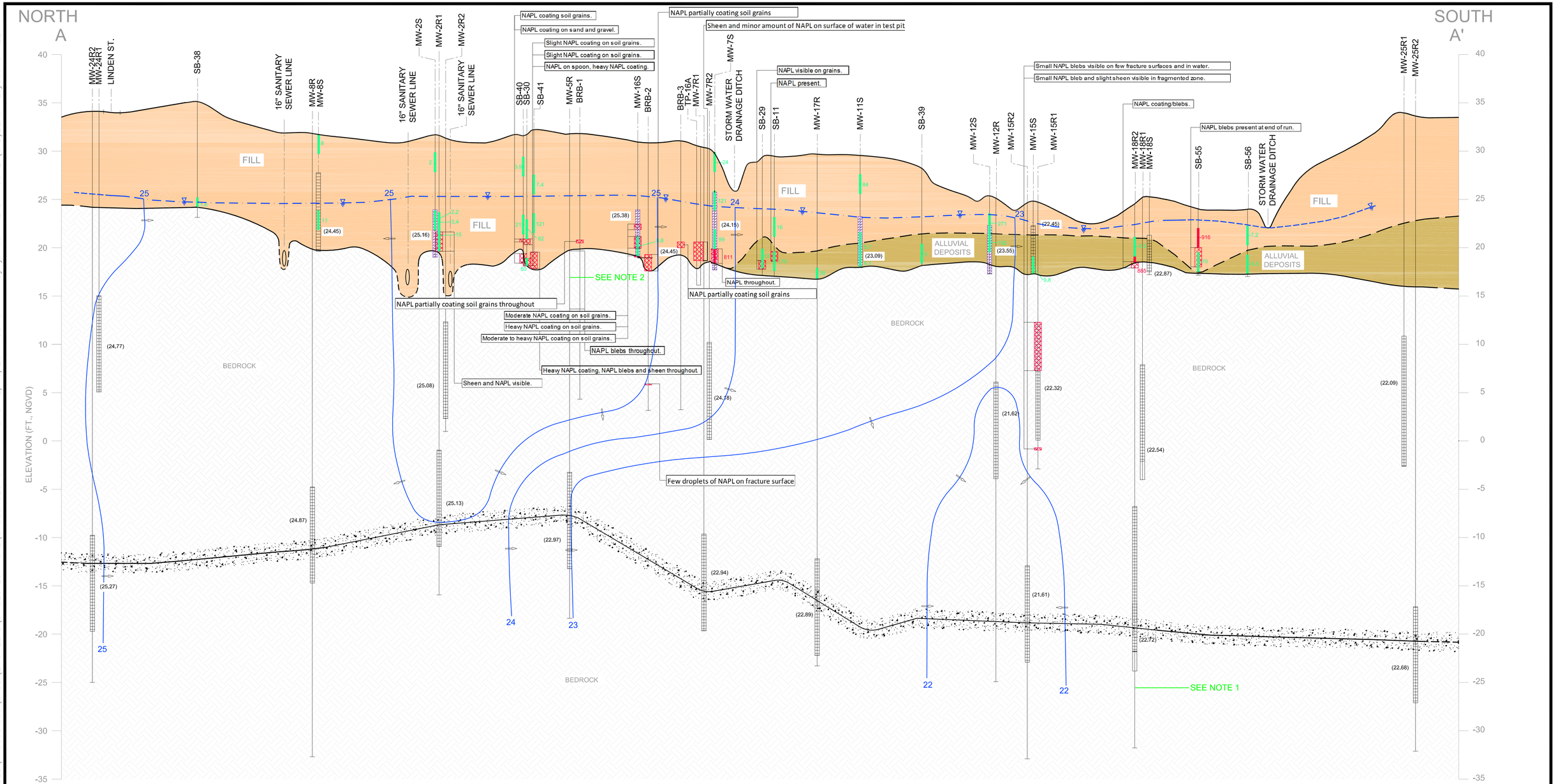
NATIONAL GRID
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

DATE 3/12

PROJECT NUMBER 140993

Brown AND Caldwell

ASSOCIATES - ALLENDALE, NEW JERSEY



MW-7S — MONITORING WELL / SOIL BORING IDENTIFICATION AND APPROXIMATE LOCATION

GENERALIZED GROUND SURFACE

WELL SCREEN INTERVAL

916 — PAHS > 500 mg/kg, WITHIN SAMPLE INTERVAL

138 — PAHS < 500 mg/kg, WITHIN SAMPLE INTERVAL

INTERVAL WHERE NAPL/TAR OBSERVED IN SOIL

TOTAL DEPTH OF BOREHOLE

NAPL coating/blebs. — NAPL OBSERVED WITHIN WELL DURING GAUGING EVENTS

DESCRIPTION OF NAPL/TAR IN SOIL. AT EACH LOCATION DESCRIPTIONS ARE ARRANGED FROM SHALLOWEST TO DEEPEST.

FILL

ALLUVIAL DEPOSITS

BEDROCK

21 — WATER TABLE (10/14/11)

EQUIPOTENTIAL LINE

(20.08) — GROUNDWATER ELEVATION FT., NGVD (10/14/11)

GENERALIZED DIRECTION OF GROUNDWATER FLOW

APPROXIMATE LOCATION OF CONTINUOUS FRACTURE ZONE

0 5 10 — SCALE IN FEET VERTICAL

0 50 100 — SCALE IN FEET HORIZONTAL

ABBREVIATIONS:

BTEX	BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE ISOMERS
PAHS	POLYCYCLIC AROMATIC HYDROCARBONS
CN	TOTAL CYANIDE
ND	NOT DETECTED

NOTES:

1. SHEEN AND SLIGHT NAPL COATING OBSERVED ON PACKER ASSEMBLY AND GEOPHYSICAL TOOLS UPON REMOVAL FROM COREHOLE UNABLE TO DETERMINE DEPTH OF NAPL IN ROCK.
2. IN PREVIOUS DATA SUMMARY REPORTS, THE UPPER ±/-6 FEET OF ROCK AT MW-5R WAS DEPICTED AS CONTAINING NAPL/TAR, BASED ON OBSERVATION OF AUGER CUTTINGS. SUBSEQUENT ROCK CORING AT BRB-1, LOCATED LESS THAN 10 FEET FROM MW-5, AND AT TWO OTHER NEARBY LOCATIONS COR B-2 AND BRB-3), DID NOT CONFIRM NAPL/TAR WITHIN THIS INTERVAL.

FIGURE 2

HYDROGEOLOGIC CROSS-SECTION A-A'

NATIONAL GRID
COHOES (LINDEN ST.) FORMER MGP SITE
COHOES, NEW YORK

DATE 12/11

PROJECT NUMBER 140993.004

Brown AND Caldwell

ASSOCIATES - ALLENDALE, NEW JERSEY

Legend

18 Total PAH Concentration. Reported In Milligrams Per Kilogram (mg/kg)

* Highest Concentration from Original and Duplicate Sample Shown

Not Detected

PAH Concentrations Below NYS Part 375 Soil Cleanup Objectives

Indicates One or More Constituent Concentrations Above NYS Part 375 Soil Cleanup Objectives

Former MGP Stuctures

Site Boundary

NOTES:
C-1 Zoning: Office/Retail Commercial
MU-1 Zoning: Mixed-Use

SOURCE:
Aerial Photo from NYSDOP 2007 Survey

0 50 100 200 Feet

FIGURE 3

TOTAL PAH CONCENTRATIONS IN SURFICIAL SOIL SAMPLES (0-2")

NATIONAL GRID
COHOES (LINDEN ST.)
FORMER MGP SITE
COHOES, N.Y.

DATE 12/11

PROJECT NUMBER 140993.003

Brown AND Caldwell
Associates

P:/GIS/National_Grid/Cohoes/Cohoes_Surficial_Total_PAHs_121211.mxd

Attachment A: Boring Logs

BORING LOG

Brown AND Caldwell	**Project Name:** Cohoes (Linden St.) Former MGP Site **Project Number:** 140993.003 **Project Location:** Cohoes, New York	**Permit Number:** N/A	**Boring No.** **BRB-1** **Page** 1 **of** 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
B. Taylor/Allendale	JLM	8.25"/4"	NA	N/A"	27.4 ft.

Start/Finish Date	Drilling Contractor:	Sampling: SS/Cont. Core	Development Method:
6/28/11 - 6/29/11	Parratt-Wolff, Inc	Hammer Type: 140 lb auto.	N/A

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NYS Plane NAD 1983	Easting: 1435697.2 ft.
Doug Richmond	HSA/Water Rotary	CME 75	Vert Datum: NGVD 1929	Northing: 708044.8 ft.
			Ground Surface Elev: 31.8 ft.	TOC Elev: --

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts RQD (%)	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Backfill	ppm Readings (ppm)	Remarks
		GW	**FILL**	3-5-8-7	1		41.7	*Borehole Backfilled w/ Cement/Bentonite Grout.*
	30	SW GW	Black-Brown mc GRAVEL (Misc. Fill: concrete, asphalt). Dry.					
		ML	Brown mcf SAND, some mf Gravel, trace Silt, trace Organics (root matter). Dry	6-5-7-11	2		12.9	
			Chunks of Asphalt. Dry					
		SW	Light Brown Clayey SILT, little (+) mf Sand, little m Gravel (piece of brick) Moist.	woh-4-6-9	3		0.0	4' BGS: Sulfur/burnt-like odor.
5			Light Brown Clayey SILT, little (+) mf Sand, trace (+) Gravel. Moist.					
	25		Light Brown Clayey SILT and SAND, little (-) Gravel. Moist.	4-5-4-5	4		0.0	
			Dark Brown mc SAND and mf GRAVEL, trace Organics. Moist.	4-3-4-5	5		0.0	
			White-Tan mf SAND, little, Gravel (misc. fill: pieces of coal and white granular material. Damp.					
10				4-3-2-1	6		75	10' BGS: Moderate tar-like odor
			Brown mf GRAVEL, some mf Sand, little Silt. Moist.					11' BGS: Black stained grains, strong tar-like odor
	20	BR	Dark Brown mf SAND, little (+) Gravel, trace Silt. (misc fill: cinders). Moist.	50/3"	7		12.1	11.3' BGS: NAPL partially coating grains, strong tar-like odor
			Organic Material -Roots					*12.3' BGS: Split Spoon Refusal.*
		BR	Dark Brown mf GRAVEL, some mf Sand. Moist.	47.5	8		0-66.5	*14.5': Base of 4" Steel Casing.*
15			Light Brown SILT, some mf Sand, little (-) Gravel. Moist.					
	15		Dark Brown mf SAND, little (+) Gravel, trace Silt, trace Organics (roots). Moist.					
			Dark Brown, mf SAND, little (+) Gravel, trace Silt. Moist.					
			Dark Brown mf SAND, little (+) Gravel, trace Silt. Saturated.					
20		BR	Black stained, mf SAND, some (-) Silt, piece of wood. Saturated.	72	9		0-68.0	
	10		Black Stained SAND and GRAVEL (glass). Saturated.					
			BEDROCK					
			Dark Grey/Black highly weathered Shale. Highly fractured moderately weathered, dark grey shale. Highly deformed throughout. @14.5' to 14.85': Highly fractured, trace calcite and pyrite mineralization. @14.85': High angle fracture, mechanical fracture. @15.0': High angle fracture, slight pyrite mineralization. @15.3': High angle fracture, mechanical fracture. @15.8': High angle fracture, signs of displacement (slickensides), trace calcite and pyrite mineralization. @16.5': High angle fracture, trace calcite and pyrite mineralization.					
25		BR		66	10		0.0	
	5							

P:\National_Grid\Cohoes_Linden_St\140993_PAAF1_Implementation\logs

BORING LOG

Brown AND Caldwell	**Project Name:** Cohoes (Linden St.) Former MGP Site **Project Number:** 140993.003 **Project Location:** Cohoes, New York	**Permit Number:** N/A	**Boring No.** **BRB-1** **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts RQD (%)	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Backfill	ppm Readings (ppm)	Remarks
			@16.5' to 17.5': Highly fractured and fragmented. @17.5', 17.7', 17.8': High angle fracture, signs of displacement (slickensides), calcite and trace pyrite mineralization. @18.4': High angle mechanical fracture. @19.0': High angle fracture, slickensides, trace calcite and pyrite mineralization. Calcite veins throughout (1-2 mm). Moderately fractured, slightly weathered, highly deformed, dark grey Shale. @19.5' to 19.7': Highly fractured and fragmented. @19.7': High angle fracture, trace calcite and pyrite mineralization. @20.05': High angle fracture, signs of displacement (slickensides), calcite and pyrite mineralization. @20.8': High angle fracture, signs of displacement (slickensides), calcite and pyrite mineralization. @21.5': Low angle mechanical fracture. @21.7': High angle fracture, pyrite and trace calcite mineralization, signs of displacement (slickensides) @22.4': High angle mechanical fracture. @23.2', 23.6', 24.1', 24.3': High angle fracture, calcite and pyrite mineralization, signs of displacement (slickensides). Calcite veins (1-2 mm) throughout. Moderately fractured, moderately weathered, highly deformed Dark Grey Shale. @24.5' to 24.9': Highly fractured and fragmented. @24.9': High angle fracture, signs of displacement (slickensides), significant calcite mineralization, trace pyrite mineralization. @25.2', 25.5', 25.8': High angle fracture, signs of displacement, trace calcite and pyrite mineralization @25.8' to 26.2': Highly fractured and fragmented. @26.2': High angle fracture, signs of displacement (slickensides), calcite and pyrite mineralization. @26.7' to 26.9': Intensely fractured. @26.9': Low angle mechanical fracture. @27.3': High angle mechanical fracture. @27.4': High angle fracture, signs of displacement (slickensides), some calcite and pyrite mineralization.							

BORING LOG

Brown AND Caldwell	**Project Name:** Cohoes (Linden St.) Former MGP Site **Project Number:** 140993.003 **Project Location:** Cohoes, New York	**Permit Number:** N/A	**Boring No.** **BRB-2** **Page** 1 **of** 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
B. Taylor/Allendale	JLM	8.25"/4"	NA	N/A"	27.4 ft.

Start/Finish Date	Drilling Contractor:	Sampling: SS/Cont. Core	Development Method:
6/29/11 - 6/30/11	Parratt-Wolff, Inc.	Hammer Type: 140 lb auto.	N/A

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NYS Plane NAD 1983	Easting: 1435628.1 ft.
Doug Richmond	HSA/Water Rotary	CME 75	Vert Datum: NGVD 1929	Northing: 708054.4 ft.
			Ground Surface Elev: 30.6 ft.	TOC Elev: --

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts / RQD (%)	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Backfill	ppm Readings (ppm)	Remarks
	30	SW	**FILL**	3-3-3-3	1		0.0	*Borehole Back Filled w/ Cement/Bentonie Grout.*
		SW GW	Black mf SAND, some Gravel, little (-) Silt, trace Organics (roots). Dry.					
		SW	Light Brown mfc SAND and mf GRAVEL, trace Organics (roots). Dry.	2-2-2-1	2		0.0	
			White-Tan mfc SAND, little (-) Gravel, little (-) Silt. Moist.					
			White-Tan mfc SAND, trace Gravel, trace Silt. Moist.	1-1-1-1	3		0.0	
5	25							
		GW	Black-Tan mf GRAVEL (one very large grain). Saturated.	5-6-9-14	4		0.0	
		SW GW	White, Tan, Brown mf SAND, little (-) Gravel. Saturated.	1-6-10-1	5		16.7	
		SW	Brown mf GRAVEL, some mf Sand. Saturated.					9' to 10' BGS: Black staining, strong tar-like odor
10	20		Brown mf SAND, little (-) Gravel. Saturated.	2-3-2-2	6		25.2	11.3 to 13' BGS: NAPL partially coating soil grains, strong tar-like odor
			Black stained mf SAND, some (+) Silt. Saturated.	7-50/3"	7		5.5	*13.3' BGS.Split Spoon Refusal*
		BR	Brown mf SAND, some Silt, little (-) Gravel. Saturated.					
		BR	Black stained mf SAND, some Silt. Light Brown, mfc SAND, trace Silt. Saturated.	33	8		7.7-107	*14.5' BGS: Base of 4" Steel Casing.*
15	15		Black mf SAND, trace Silt. Saturated.					
			BEDROCK					
		BR	Grey-Black fragmented Shale. Highly fractured, moderately weathered, highly deformed grey Shale. @14.5' to 15.8': Highly fractured, high angle fractures.	77	9		5.4-81.2	
20	10		Evidence of displacement (slickensides), trace pyrite and calcite mineralization. @15.8': High angle fracture, evidence of displacement (slickensides), trace pyrite and calcite mineralization. @16.2': High angle fracture, evidence of displacement (slickensides), trace pyrite and calcite mineralization. @16.4': High angle fracture, some calcite and trace pyrite mineralization.					
		BR	Very smooth fractured surface. @16.7': High angle fracture, evidence of displacement (slickensides), trace calcite and pyrite mineralization. @16.9' to 17.6': Highly fractured and fragmented. @17.6': High angle fracture, evidence of displacement (slickensides), trace calcite mineralization. @18.0': Low angle mechanical fracture. @18.2' to 18.4': Highly fractured and fragmented. @18.4': Low	66.6	10		0.0-25.4	24.8' GS: Few droplets of NAPL on fracture surface.
25	5							

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BORING LOG

Brown AND Caldwell	**Project Name:** Cohoes (Linden St.) Former MGP Site **Project Number:** 140993.003 **Project Location:** Cohoes, New York	**Permit Number:** N/A	**Boring No.** **BRB-2** **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts RQD (%)	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Backfill	ppm Readings (ppm)	Remarks
			angle mechanical fracture. Moderately fractured, slightly weathered, highly deformed Grey Shale. @18.6': High angle fracture, trace pyrite and calcite mineralization. @19.1': Low angle mechanical fracture. @20.5': Calcite vein, 2-3mm. @20.8': High angle mechanical fracture. @21.3': High angle mechanical fracture. Calcite vein perpendicular to fracture. 3-4mm. @22.3': Low angle mechanical fracture. @22.3' to 22.8': Highly fractured and fragmented. @22.8': High angle fracture, trace pyrite mineralization. @23.1': High angle fracture, trace pyrite and calcite mineralization. @24.2': Low angle fracture, trace pyrite and calcite mineralization. Moderately fractured, moderately weathered, highly deformed grey Shale. @24.8': High angle fracture, significant calcite mineralization, trace pyrite mineralization. @24.8' to 25.3': Highly fractured, significant calcite mineralization. @25.3': Low angle fracture. @25.7': High angle fracture, trace calcite and pyrite mineralization. Evidence of displacement (slickensides). @26.4', 26.8': High angle fracture, trace calcite and pyrite mineralization, evidence of displacement (slickensides). @27.4': Low angle fracture, trace pyrite and calcite mineralization.							

BORING LOG

Brown AND Caldwell	**Project Name:** Cohoes (Linden St.) Former MGP Site **Project Number:** 140993.003 **Project Location:** Cohoes, New York	**Permit Number:** N/A	**Boring No.** **BRB-3** **Page** 1 **of** 2

Geologist/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
J. Marolda/B. Taylor/Allendale	JLM	8.25"/4"	NA	N/A"	27.8 ft.

Start/Finish Date	Drilling Contractor:	Sampling: SS/Cont Core	Development Method:
6/27/11 - 6/28/11	Parratt-Wolff, Inc.	**Hammer Type:** 140 lb auto.	N/A

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NYS Plane NAD 1983	Easting: 1435594.9 ft.
Doug Richmond	HSA/Water Rotary	CME 75	Vert Datum: NGVD 1929	Northing: 708054.6 ft.
			Ground Surface Elev: 31.2 ft.	TOC Elev: --

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts / RQD (%)	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Backfill	ppm Readings (ppm)	Remarks
		SW	**FILL**	2-2-3-5	1		0.0	*Borehole Backfilled w/ Cement/Bentonite Grout.*
	30	CL	Dark Brown Top Soil, ORGANICS (root matter). @0.4': Brown cmf SAND, little mf Gravel. (Misc Fill: cinders, white granular material.) @0.8': Light Brown, Clayey SILT, little (+) Organics (roots). @1.0': Brown mf SAND, little Silt. Damp.	2-2-2-3	2		0.3	2' BGS: Burnt sulfur-like odor
		SW	Light Brown/White mcf SAND (Misc. Fill: white granular material. Damp/Moist.	1-1-1-2	3		0.0	
5	25		Same as above. @4.5': Brown mcf SAND, little mf Gravel, little Silt. Moist.	2-3-4-4	4		0.0	
		SW SP	Dark Brown cmf SAND, little (+) mf Gravel, trace Silt. (Misc. Fill: cinders, pieces of wood.) Saturated.	2-2-3-6	5		39.2	8.5' BGS: Moderate tar-like odor
		SP	Dark Grey cmf SAND, some mf Gravel. @8.3': Grey mf SAND, some Silt. @8.5': Black Stained mf SAND and SILT. @8.6': Grey mc SAND, some mf Gravel (Shale) little (-) Silt. Saturated.	4-4-4-4	6		79.8	10.5' BGS: NAPL partially coating soil grains
10	20	SW GW		50/3"	7		29.9	*12.3' BGS: Spit Spoon Refusal*
		BR	Grey cm SAND and mf GRAVEL (shale). Saturated.					*14.4' BGS: Base of 4" Steel Casing.*
			BEDROCK Grey Weathered Shale, Damp/Dry.					
15	15	BR	Highly Deformed, heavily fractured, moderately weathered grey Shale. @15.85': High angle fracture, trace calcite mineralization. @16.05': High angle fracture, trace pyrite and calcite mineralization, signs of displacement (slickensides). @16.65': High angle fracture,	54.9	8		14-24.2	
20	10	BR	signs of displacement (slickensides), some calcite and pyrite mineralization. @17.0': Low angle fracture, trace calcite mineralization. @17.8': High angle fracture, trace calcite mineralization, signs of displacement (slickensides) @18.2': High angle fracture, trace calcite mineralization.	42	9		10-14.4	
25	5	BR	@18.6': High angle fracture, trace calcite mineralization. @18.6' to 19.6': Heavily fracture, some calcite mineralization, fragmented.	61	10		1.2-23.5	
			Highly deformed highly fracture, moderately weathered, Grey Shale. @19.8': High angle fracture, trace pyrite and calcite mineralization. @20.2': High angle fracture, signs of displacement (slickensides), trace calcite and pyrite mineralization. @20.9': high angle fracture, signs of displacement (slickensides), trace pyrite mineralization.					

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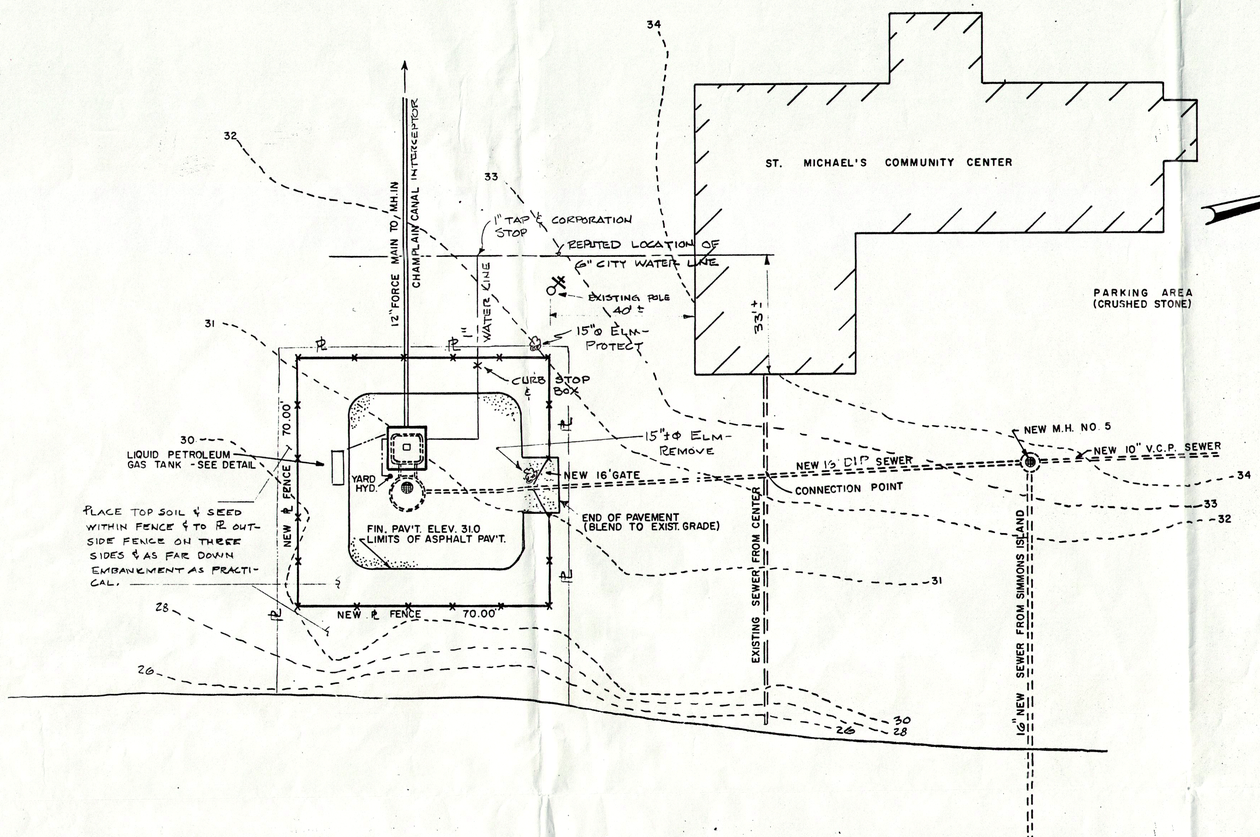
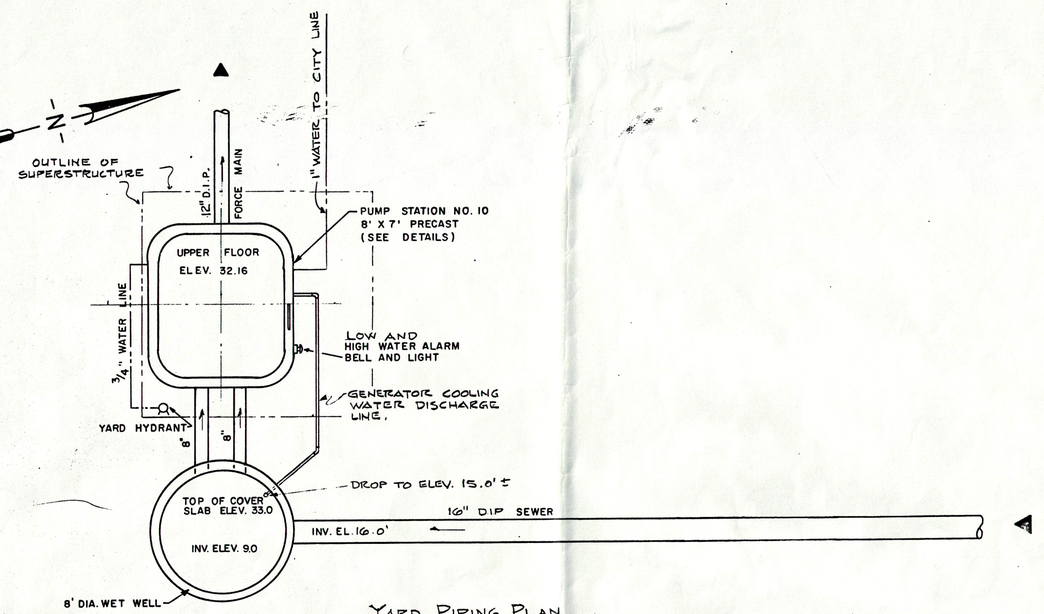
BORING LOG

Brown AND Caldwell	**Project Name:** Cohoes (Linden St.) Former MGP Site **Project Number:** 140993.003 **Project Location:** Cohoes, New York	**Permit Number:** N/A	**Boring No.** **BRB-3** **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts RQD (%)	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Backfill	ppm Readings (ppm)	Remarks
			@20.9' to 22.0': Intensely fractured, and fragmented. @22.0', 22.4': High angle fracture, pyrite mineralization. @22.4' to 22.9': Intensely fractured and fragmented. Highly deformed, highly fractured, moderately weathered, Grey Shale. @23.9' to 24.2': Intensely fractured and fragmented. @24.2': High angle fracture, trace pyrite mineralization. @24.5': High angle fracture, trace pyrite mineralization, signs of displacement (slickensides). @25.2': High angle fracture, trace pyrite mineralization, signs of displacement (slickensides). @26.1': High angle fracture, trace pyrite and calcite mineralization, signs of displacement (slickensides). @26.7': Low angle fracture, some calcite and pyrite mineralization, smooth fracture surface.							

Attachment B: City of Cohoes Engineering Drawing



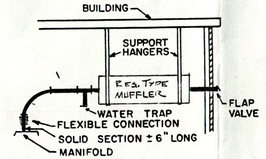


YARD PIPING PLAN
SCALE: 1" = 1'-0"

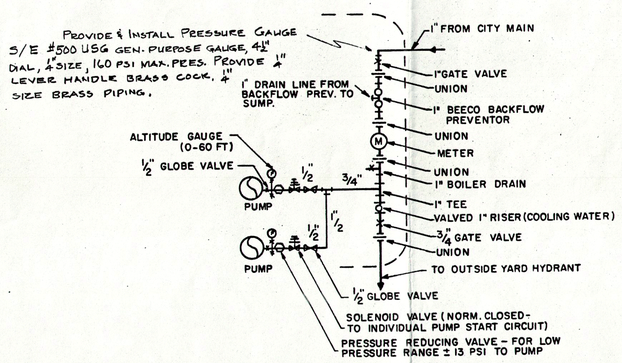
MOHAWK RIVER

SITE PLAN
SCALE 1" = 20'

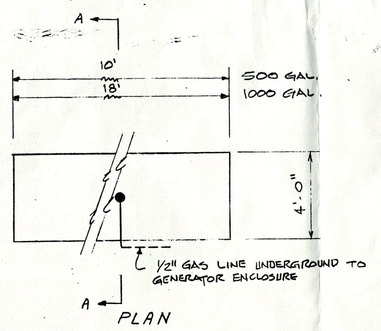
PUMP STATION NO. 10



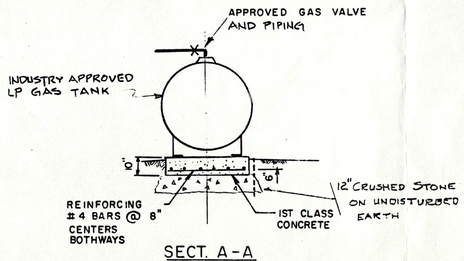
DETAIL
GENERATOR EXHAUST PIPING
NO SCALE
(ALL STATIONS)



DETAIL
STATION WATER SERVICE



PLAN



SECT. A-A

LIQUID PETROLEUM GAS TANK
NO SCALE

SYM	REVISIONS	BY	DATE
	DRAWN BY		
	TRACED BY		
	CHECKED BY		

ROBERT J. GANLEY ASSOCIATE ENGINEER

CITY OF COHOES

ALBANY COUNTY NEW YORK

CONTRACT NO. 12

SOUTHEAST INTERCEPTOR, SIMMONS ISLAND SEWERS,
PUMPING STA. NOS. 9, 10 & 13
STA. NO. 10 - SITE PLAN AND DETAILS.

SCALE: AS SHOWN DATE: NOV., 1972

JOSEPH A KESTNER JR. CONSULTING ENGINEER
1 KESTNER LANE TROY, N.Y.

SHEET 10 OF 13

Joseph A. Kestner, Jr.

T-NY-COHOES: 1/#12-10/72(11/72); 10-13(16)

Attachment C: Test Pit Logs

TEST PIT LOG

SITE LOCATION	Cohoes (Linden St.) Former MGP Site	**TEST PIT NUMBER**	TP-16
PROJECT NUMBER	140993.002.007	**BC REPRESENTATIVE**	J. Marolda
GENERAL LOCATION	Adjacent to MW-7 Cluster	**CONTRACTOR**	LAND Remediation, Inc.
DATE	7/19/11	**OTHERS**	K. Bogatch (BC), J. Howland (BC), S. Stucker (National Grid), J. Miller (NYSDEC)
TIME OPENED	0945	**TIME CLOSED**	1645
DEPTH TO WATER (ft. BGS)	7.2	**EQUIPMENT**	Kobelco 235 SR LC
DEPTH TO BASE OF FILL (ft. BGS)	11.5	**TOTAL LENGTH (ft.)**	14
TOTAL DEPTH (ft. BGS)	12.5	**IMPACTS OBSERVED**	8-11.5' BGS: Sheen and NAPL on water in test pit

Orientation: View looking north

7.2' BGS: Encountered Water Table

TEST PIT LOG

SITE LOCATION	Cohoes (Linden St.) Former MGP Site	TEST PIT NUMBER	TP-16

View of test pit spoils pile:

Brown mf SAND, little Organics, trace Silt

Black stained mcf SAND, some Silt, little (+) Gravel

Orientation: View looking north

8' BGS: Sheen and NAPL on surface of water in test pit.

TEST PIT LOG

SITE LOCATION	Cohoes (Linden St.) Former MGP Site	TEST PIT NUMBER	TP-16

View of test pit spoils:

11.5' BGS: Grey mfc SAND and Clayey SILT, some mf GRAVEL (weathered shale).

12.5' BGS: Weathered pieces of bedrock extracted from top of rock surface using standard excavator bucket.

TEST PIT LOG

SITE LOCATION	Cohoes (Linden St.) Former MGP Site	**TEST PIT NUMBER**	TP-16A
PROJECT NUMBER	140993.002.007	**BC REPRESENTATIVE**	J. Marolda
GENERAL LOCATION	Adjacent to MW-7 Cluster	**CONTRACTOR**	LAND Remediation, Inc.
DATE	8/11/11	**OTHERS**	J. Howland (BC), J. Miller (NYSDEC)
TIME OPENED	1110	**TIME CLOSED**	1745
DEPTH TO WATER (ft. BGS)	7	**EQUIPMENT**	Linkbelt 225
DEPTH TO BASE OF FILL (ft. BGS)	12	**TOTAL LENGTH (ft.)**	18
TOTAL DEPTH (ft. BGS)	14.6	**IMPACTS OBSERVED**	10' BGS: Sheen and minor amount of NAPL on water in test pit.

<u>Orientation:</u> View looking north-northwest

<u>1-7' BGS</u>: Miscellaneous Fill (cinders, slag, ash, demolition debris [brick]).

<u>10' BGS:</u> Sheen and NAPL on surface of water.

TEST PIT LOG

SITE LOCATION	Cohoes (Linden St.) Former MGP Site	TEST PIT NUMBER	TP-16A

View of test pit spoils pile:

Pocket of Grey Clayey SILT

Grey mcf SAND and mfc GRAVEL

Ripper attachment for Linkbelt 225 excavator

TEST PIT LOG

SITE LOCATION	Cohoes (Linden St.) Former MGP Site	TEST PIT NUMBER	TP-16A

Orientation: View looking north-northwest

Narrow bucket within trench box to extract bedrock pieces following use of ripper attachment

Bedrock pieces removed from top of rock surface

TEST PIT LOG

SITE LOCATION	Cohoes (Linden St.) Former MGP Site	TEST PIT NUMBER	TP-16A

Spoils pile showing bedrock extracted from excavation

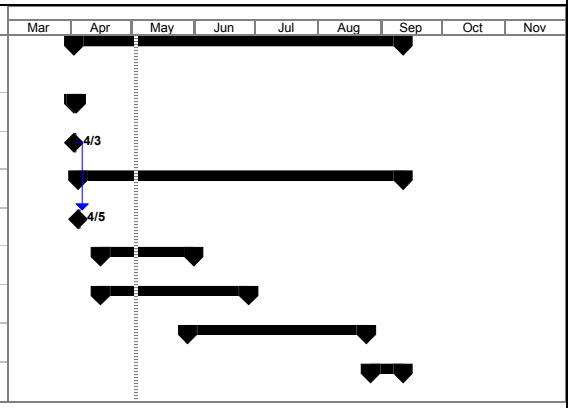
Attachment D: Schedule

nationalgrid

Cohoes (Linden Street) Former MGP Site
City of Cohoes, New York

Alteranatives Analysis Preparation Schedule

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names
1	**Cohoes (Linden Street) Former MGP Site - Alternatives Analysis Preparation Schedule**	113 days	Tue 4/3/12	Tue 9/11/12		
2	**Remedial Investigation Report Approval**	1 day	Tue 4/3/12	Tue 4/3/12		
3	Receive NYSDEC Approval of Remedial Investigation (RI) Report	1 day	Tue 4/3/12	Tue 4/3/12		
4	**Alternatives Analysis**	111 days	Thu 4/5/12	Tue 9/11/12		
5	Kick-Off Call	1 day	Thu 4/5/12	Thu 4/5/12	3	
6	**PAAFI Results Discussion with NYSDEC**	33 days	Mon 4/16/12	Thu 5/31/12		
13	**Prepare Materials for National Grid Internal Discussions**	52 days	Mon 4/16/12	Wed 6/27/12		
19	**Prepare Draft Alternatives Analysis Report**	63 days	Tue 5/29/12	Fri 8/24/12		
26	**Prepare Final Alternatives Analysis Report**	11 days	Mon 8/27/12	Tue 9/11/12		



Brown AND Caldwell

Project: 021012_Patchogue_Remedial_Design_Schedule
Date: Thu 5/3/12

Task | Progress | Summary | External Tasks
Split | Milestone | Project Summary | External Milestone