Data Summary Report
Remedial Investigation
Troy (Water St.) Site – Area 3
Troy, New York

Prepared for

Niagara Mohawk Power Corporation d/b/a
National Grid, Syracuse, New York

March 2016

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Remedial Investigation
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Troy, New York

Prepared for
Niagara Mohawk Power Corporation d/b/a National Grid
300 Erie Boulevard West
Syracuse, New York 13202

March 2016

Project Number: 146094.200

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March 8, 2016

Mr. John Spellman, P.E.
New York State Department of Environmental Conservation
625 Broadway, 11th Floor
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Re: Data Summary Report, Remedial Investigation
Troy (Water Street) Site – Area 3 of NYSDEC Site No. 4-42-029
City of Troy, Rensselaer County, New York

Dear Mr. Spellman:

Please find enclosed, a Data Summary Report (DSR) prepared by Brown and Caldwell Associates (BC) for the Remedial Investigation (RI) activities at the Troy (Water Street) Site – Area 3 in Troy, New York (hereinafter referred to a the "Site"). Following the New York State Department of Environmental Conservation's (NYSDEC) approval of a settlement agreement between Chevron USA, Inc. and Niagara Mohawk Corporation d/b/a National Grid, which assigns to National Grid responsibility for the portion of Area 3 located north of the centerline of the Route 378 bridge, National Grid developed a Remedial Investigation Work Plan (RIWP) to assess the nature and extent of potential Manufactured Gas Plant (MGP)-related impacts underlying this portion of the property. This RI DSR was prepared in accordance "Remedial Investigation Work Plan, Troy (Water Street) Site – Area 3" (Brown and Caldwell Associates, February 2015), which was approved by the NYSDEC in a letter dated March 10, 2015. Thus, this DSR presents the RI findings and provides recommendations based on these findings.

Provided below are: a discussion of the site setting and historical operations; objectives related to the RI activities; a discussion of the results and findings from the RI activities; and conclusions and recommendations related to the RI findings for the Site.

Site Setting

The Site is located in Troy, Rensselaer County, New York. Latitude and longitude coordinates for the property are approximately 42°42'06.1" north latitude and 73°42'02.2" west longitude. The location of the property is shown on Figure 1.

The Site is abutted to the north by Area 2 of the Troy (Water Street) Site, to the east by Water Street and a railroad spur, to the south by the remaining portion of Area 3 (which is being remediated by Chevron USA, Inc.), and to the west by the Hudson River. South of Area 3 is Area 4, which was previously remediated by National Grid. The area surrounding the Site is primarily used for industrial and commercial purposes.

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The topography of the Site is generally flat, with a steep bank located directly adjacent to the Hudson River to the west. The elevation of the flat portion of the property is approximately 25 to 28 feet based on National Geodetic Vertical Datum (NGVD) of 1929. A site plan is provided as Figure 2.

Based on the 1980 National Flood Insurance Program, Flood Insurance Rate Map the majority of the Site is designated as Zone B. Zone B indicates that the area falls between the 100-yr and 500-yr flood stage for the Hudson River. Directly adjacent to the river the area is designated as Zone A12 (located within the 100 yr flood stage). The 100-year flood elevation at the Site is approximately 24.5 feet, NGVD 1929.

Historical Site Operations

The history of the Troy (Water Street) Site as a whole, including the portion of Area 3 that is the focus of this RI is presented below. This history is based on several sources including historical maps, figures and documents provided by Niagara Mohawk Power Corporation and Chevron USA, and additional materials, including historical aerial photographs and maps, obtained by BC. A more detailed discussion of Site history was previously presented in the RIWP.

Industrial operations at the Troy (Water St.) Site began in the mid-to-late-1800s with several generations of iron and steel making facilities. Manufactured gas production evolved on the Site to support the production of coke for the iron and steel industry. In 1859, portions of the Troy (Water St.) Site were granted by the State of New York to the Troy Iron and Nail Factory. By 1885 the Troy Steel and Iron Company had been incorporated and had operations occurring in the vicinity of the Site, with no record of activities directly occurring in Area 3. It is believed at this time that Area 3 was owned by the Burden Iron Company. Iron making at this time consisted of heating and melting iron ore with coal, coke or charcoal. In 1890, the Troy Steel and Iron Company had swapped the land associated with Area 3 with the Troy and Greenbush Railroad Association to be used as area for railroad tracks. Railroad easements remained on the Site during much of its history.

In 1924, the Hudson Valley Coke and Products Corporation (HVC&PC) was formed, and a brick shed, presumably used for storage, was constructed on the Site (Figure 2). By 1938 HVC&PC had sold the facility to the Hudson Valley Fuel Corporation (HVFC), which merged into New York Power and Light, which in turn was consolidated into Niagara Mohawk Power Corporation (NMPC) in 1951. The brick shed, previously mentioned, was demolished and the HVFC constructed two tarvia tanks of unknown capacity. Tarvia is a coal tar byproduct used for road surfacing and dust abatement. Three tar products structures and a flux oil tank (10,000 gallons) were also constructed by the HVFC. The approximate positions of the structures mentioned above are shown on Figure 2.

In 1955 Republic Steel Corporation sold the property to American Bitumuls & Asphalt Company, which was acquired by the Chevron Asphalt Company in 1965. The Chevron Asphalt Company constructed the asphalt plant on the land known as Area 3. In 1965, two above ground, vertical storage tanks (tank T-27 and tank T-41) were constructed. Storage tank T-27 was a 2.1 million gallon asphalt storage tank, and tank T-41 was a 210,000 gallon asphalt storage tank. Chevron ceased operations at the Site as an asphalt terminal around 1998, and the plant structures were razed in 2006, with the exception of the base of tank T-41, which, during demolition activities, tar

was observed at the base of the structure. Based on gas chromatograph-flame ionization detector (GC-FID) fingerprint analysis of a sample of this material collected from the base of the structure during the 2006 demolition activities, this material has compositional characteristics indicative of coal tar.

Objectives

The specific objectives associated with the RI activities included:

1. Evaluate subsurface characteristics of the Site, including the nature of the subsurface materials and groundwater occurrence and flow.
2. Evaluate the configuration and nature of subsurface remnants of structures related to former manufactured gas plant (MGP) and/or and asphalt facility operations.
3. Evaluate extent of non-aqueous phase liquid (NAPL) in overburden soils, including NAPL associated with subsurface remnants of former MGP and/or asphalt plant structures.
4. Evaluate the extent of constituents in soil above applicable Soil Cleanup Objectives (SCOs) as set forth in 6 NYCRR Subpart 375-6.
5. Evaluate the lateral and vertical extent of dissolved-phase constituents in overburden groundwater.
6. Identify potential pathways by which human or ecological receptors could be exposed to Site-related constituents, if any.
7. Delineate shoreline deposits of hardened tar (if any), and evaluate whether overland flow and/or underground seepage created the deposits.
8. Delineate surface tar deposits.
9. Delineate purifier wastes (which have been observed on the surface, under the bridge).
10. Collect data necessary for evaluating the feasibility of potential remedial action alternatives.

Field investigation elements of the February 2015 work plan were completed during the period from April 21, 2015 through September 23, 2015. Soil borings (SB), monitoring wells (MW), test pits (TP) and surface soil (SS) locations from these RI activities are listed in Table 1 and their locations are shown on Figure 2.

Findings

Findings related to the RI activities are summarized below.

Subsurface Obstruction Survey

A non-intrusive subsurface obstruction survey was performed prior to implementing the RI to identify potential utilities and other obstructions (i.e., former structures, foundations, etc.) within the site boundary. The subsurface obstruction survey activities consisted of the procurement of a subcontractor to perform magnetometer, ground-penetrating radar (GPR), electromagnetics (EM) and/or other potential subsurface obstruction identification methods. Once identified, geophysical

anomalies interpreted to represent potential subsurface obstructions were surveyed and plotted on the Site plan (Figure 2). Naeva Geophysics, Inc. (Naeva) of Congers, New York performed the subsurface obstruction survey. The geophysical survey results acquired by Naeva are presented in Appendix A.

Subsurface Deposits & Stratigraphy

The following description of subsurface deposits and stratigraphy is based on data acquired during the RI activities. Boring, well construction and test pit logs are provided in Appendix B. The geologic materials encountered on the Site generally consist in ascending order of dark gray shale bedrock; a sand and gravel deposit (includes minor component of silt); a sand and silt deposit with varying degree of organic matter; a silt and clay deposit (includes minor component of sand and varying amounts of organic matter); and anthropogenic fill. Refer to Figure 3 (geologic cross-sections A-A' and B-B') for a depiction of the subsurface stratigraphy for the Site and to Appendix B, which provides boring, well construction and test pit logs that describe the materials encountered at the locations completed during the RI activities.

Based on observations of rock fragments recovered in split spoon samples at refusal depth, the bedrock immediately underlying the Site can generally be described as grey to black weathered shale. From examination of nearby outcrops of the bedrock adjacent to the Site, it is apparent that the bedrock has undergone some degree of deformation. The surface of the bedrock underlying the Site is somewhat irregular as depicted on the top of rock surface contour map (see Figure 4). Bedrock surface elevations across the Site range from approximately -1 foot NGVD west of Water Street to approximately -11 feet NGVD east of the Hudson River. A depression is apparent in the bedrock surface beneath the Site, generally located under the location of the Former Tank T-27.

The sand and gravel deposit is comprised of coarse-grained sand, gravel and cobbles. Locally, it contains finer sands, silt and clay, but is predominantly coarser-grained. This unit overlies the bedrock throughout the Site and is thickest in the western portion of the Site, is progressively thinner toward the east, and eventually ends beneath the Site (see cross-sections B-B' in Figure 3). Located above the sand and gravel deposit are deposits of primarily sand and silt with a minor component of organic matter (e.g., roots, wood) or a deposit comprised predominantly of silt and clay and containing minor components sand and organic matter. These deposits are generally 5 to 10 feet in thickness across the Site, however, along the eastern portion of the Site, only a thin veneer of this deposit overlies the bedrock surface.

The uppermost unconsolidated material underlying the Site is anthropogenic fill and is composed of various materials including sand, gravel, coal, cinders, ash and demolition debris (e.g., brick and concrete). Finer-grained material (silt and clay), where present in the fill, is typically not the predominant component. The fill varies in thickness across the Site ranging from approximately17 to 28 feet.

Of note, the lateral and vertical variations in the nature and distribution of the subsurface deposits may be due to in part, to the apparent re-configuration of the shoreline's original alignment and apparent construction and subsequent backfill of an inlet channel, as evident by the historic 1855 Barton's map. A copy of the historic 1855 map along with other historic site drawings are provided in Appendix C for reference.

Hydrogeology

Groundwater Occurrence and Flow

The water table occurs in the fill generally about 17 to 22 feet below ground surface. As part of the RI activities, groundwater levels were measured on June 11, June 25, July 2, and September 22, 2015 (Table 2). Surface water levels in the Hudson River were also measured from an established staff gauge on the above dates. Water table elevation contours for June 11 and September 22, 2015 (Figures 5 and 6) indicate that the overburden groundwater in the vicinity of the Site flows generally from east to west towards the Hudson River. In the central portion of the Site, groundwater mounding is apparent based on the groundwater levels measured at MW-3S; in addition to the westerly flow towards the Hudson River, groundwater flow appears to be directed to the north and to the southeast from this area of the Site. This somewhat radial flow pattern would not be expected given the site setting; however, the backfilling of the historic channel/inlet depicted on the 1855 Barton's Map (Appendix C) may have resulted in a preferential pathway for localized groundwater flow. Review of historical aerial photos of the Site prior to decommissioning of the Chevron plant revealed the presence of what appears to be a subsurface vessel that above ground piping was directed into in the vicinity of MW-3S; this feature may also influence local groundwater flow to some extent, yet additional data is needed to further evaluate this feature. The saturated thickness of the overburden deposits is approximately 29 to 30 feet.

Water level data from locations with both a water table monitoring well and a deep overburden monitoring well indicate a downward vertical hydraulic gradient (see Table 2). Accordingly, the screened intervals for the shallow and deep overburden wells intersect separate hydrostratigraphic units. Results from the continuous water level monitoring (discussed below) activities validate this conclusion.

A summary of the estimated horizontal hydraulic conductivity (K_h) values from slug tests conducted on monitoring wells installed during the RI and is provided in Table 3. The estimated K_h values for the overburden range from 1.3×10^{-4} to 9.9×10^{-3} cm/sec. The saturated materials adjacent to the screens for the overburden wells are composed of a variety of subsurface deposits including: 1) fill; 2) fill and sand and silt; 3) fill and silt &clay/clay&silt; 4) sand and gravel; and 5) sand and silt. The greatest hydraulic conductivities were measured in wells screened primarily in sand and gravel (MW-2D) or primarily in coarse-grained fill material (MW-1D). In-situ hydraulic conductivity plots for the test performed during the RI are provided in Appendix D.

Continuous Water Level Monitoring

During the RI activities, water levels in the Hudson River and monitoring wells in the overburden were monitored continuously for an approximately one week long period to assess the degree of interaction between groundwater and surface water, evaluate the hydrogeologic characteristics and groundwater flow in the overburden deposits, and the potential for the river to serve as a discharge area for groundwater from the Site. Continuous monitoring of groundwater and river elevations was conducted for one week during the period June 25 to July 2, 2015 using data-logging pressure transducers installed in nine monitoring wells and in a staff gauge established in the adjacent channel of the Hudson River. In addition to the water level data, hourly barometric pressure data and precipitation data for this period were obtained from the National Oceanic and Atmospheric Administration (NOAA) meteorological measurement station located at Albany International

Airport. This station is located approximately 6 miles from the Site, and thus, the data are considered generally representative of atmospheric conditions at the Site. Figures 7 through 9B present the data collected during this monitoring period and are discussed below.

During the monitoring period (June 25 to July 02, 2015), approximately 1.3 inches of rain fell; slight decreases in barometric pressure are seen during these minor precipitation events (see Figure 7), most notably the decrease in barometric pressure late on June 28, 2015 associated with a series of precipitation events spanning from late on June 27 to late on June 28, 2015. Water levels in wells MW-1D, MW-3S, MW-4 and MW-4S do not respond to changes in barometric pressure, which is typical for an unconfined water-bearing zone. However, as depicted on Figure 7, groundwater elevations in well MW-2S did respond to changes in barometric pressure during the monitoring period, with the elevation of the water level in the well increasing as barometric pressure decreased, and vice versa (inverse relationship).

Figure 8 presents hydrographs of the groundwater elevations in monitoring wells screened across the water table (MW-2S, MW-3S and MW-4S) for the monitoring period. Precipitation for this period is also depicted on the hydrographs. Review of the data from MW-2S and MW-4S suggests that, in general, increases in groundwater levels are attributable to precipitation; however, this trend is not apparent for water table well MW-3S. Groundwater elevations steadily trend downward (by approximately 2 feet) at this location during the monitoring period .

Fluctuations in river level, due to fluctuations in tidal cycles, occurred during the week-long monitoring period. The water level in the Hudson River adjacent to the Site rises and falls over a range of approximately three to five feet approximately every six hours due to the tides. The water level changes in three of the wells monitored (MW-2D, MW-2D and MW-4D) correlate closely with the surface water fluctuations, indicating hydraulic interaction with the river (Figure 9A). The tidal efficiency, or the ratio of groundwater head change to river tidal level change, was approximated as an indicator of tidal effect for these wells. MW-2D, MW-3D and MW-4D are located approximately 100 feet east of the Hudson River and have approximate tidal efficiencies of ± 0.18, ± 0.11 and ± 0.09, respectively.

The remainder of the wells equipped with data loggers (MW-1D, MW-2S, MW-3S, MW-4, and MW-4S) exhibited little or no response to river level fluctuations (Figure 9B). A comparison between the water elevation data from the wells and the river from the staff gauge (see Figures 9A and 9B) illustrates the hydraulic head in overburden is greater than the river level, thus indicating that groundwater in the overburden discharges to the river.

Visual/Olfactory Impacts

Figure 10 provides a plan view of locations where visual/olfactory impacts including NAPL/tar and indications of potential purifier waste material have been observed in overburden soil throughout the course of RI field activities. Table 4 provides a description for these observations. The vertical positions of the observations are shown on the geologic cross sections (Figure 3).

NAPL/tar was encountered at seven of the RI drilling locations. This includes three soil borings (SB-2, SB-5, SB-9), three soil borings intended for installation of a monitoring well (MW-2D, MW-3S, MW-3D) and one test pit excavation location (TP-3). Where present, the NAPL/tar is usually first encountered at depths of five to nine feet bgs, or deeper. However, in the vicinity of the southern former tarvia tank, NAPL/tar was encountered at shallower depths from ground

surface to one foot bgs (TP-3). In general, the NAPL occurs as black viscous, tacky, stringy tar-like material or grain coatings within the overburden materials from approximately five to seventeen feet bgs. Less viscous NAPL exhibiting a more oil-like consistency occurring as blebs and grain coatings was encountered at depths below the water table. The intervals of NAPL/tar in the overburden are typically less than three-feet in thickness; however at the boring for MW-3D, the NAPL/tar interval was substantially thicker at 15.4 feet (from approximately 17 to 32.4 feet bgs). The top of rock surface at this location is approximately 37 feet bgs and thus, the NAPL/tar observed in this area extends to approximately five feet above the top of rock surface. Most of the NAPL/tar observations exhibited tar-like odors; however, some of the NAPL encountered exhibited petroleum-like odors. A review of historic maps and documents indicated that King Fuels operated a bulk petroleum terminal and distribution center on the Troy (Water St.) – Area 2 Site. The petroleum observations and odors were primarily observed along the northern boundary of the Site directly adjacent to Area 2 (SB-2, SB-5, SB-6, MW-1S, MW-1D, MW-2S, MW-2D).

Observations of NAPL within one overburden monitoring well (MW-3D) were documented during NAPL gauging events conducted during the RI activities. The observations include black-brown NAPL adhering to the bottom two inches of an oil/water interface probe and/or a threaded rod. Consistent with the RIWP, groundwater samples were not collected form MW-3D due to the presence of NAPL during gauging events.

As part of the RI activities, a reconnaissance and demarcation of surface and shoreline tar deposits was completed. A plan view of the findings is provided as Figure 10. Site surficial tar was generally observed in the northeastern portion of the Site in the vicinity of the former Chevron tank T-41. This tank is observed to contain hardened tar remaining in the structure. When exposed to heat during days exhibiting warmer ambient temperatures, this hardened tar was observed to behave as a semi-solid material and becomes mobile. Shoreline hardened tar deposits were, in general encountered near the base of the riverbank; however, there were a few occurrences of the shoreline tar observed near the top of the bank. Additional data is required to further assess the origin of the tar.

Indications of potential purifier waste material were observed at approximately 8 feet bgs at test pit location TP-4 (pieces of white cemented lime-like material with a blue-green tinge exhibiting slight to moderate sulfur-like odor) and in the interval from approximately 3 to 7.5 feet bgs at test pit location TP-5 (ash-like material exhibiting slight to burnt/sulfur-like odor). Cyanide was not detected in the analytical soil samples collected from these test pits. TP-1, TP-1A and TP-1B were excavated in an area where surficial purifier waste had been previously observed during the 2007 Chevron asphalt plant decommissioning activities. During the RI activities, no observations of potential purifier waste materials were recorded in this area. Cyanide was detected at low level concentration (1.8 mg/kg) in the analytical soil sample collected from the 8 to 9 foot bgs interval at TP-1.

Surface Soil Analytical Results

0- to 2-inch bgs interval

For the purposes of evaluating concentrations and areal distribution of potentially MGP-related or other constituents in surface soil, surface soil samples from the 0- to 2-inch bgs depth interval were collected from 12 locations throughout the Site during the RI activities. The sample locations are

depicted on Figures 2 and 11 The surface soil samples were analyzed for Target Compound List (TCL) semi-volatile organic compounds (SVOCs), total cyanide, TCL pesticides, polychlorinated biphenyls (PCBs) and Target Analyte List (TAL) metals.

Analytical results for the surface soil samples were compared to the applicable Subpart 375-6 SCOs (Protection of Groundwater, Protection of Ecological Resources, or Protection of Public Health for industrially zoned properties). The comparison is presented Table 5. Also, a comparison to these criteria for constituents of concern typically associated with MGP sites [polycyclic aromatic hydrocarbons (PAHs) and cyanide] is provided on Figure 11. Concentrations shown in bold type on Figure 11 indicate concentrations of one or more PAH compounds are above the applicable criteria. Concentrations of one or more PAHs were detected above applicable Subpart 375-6 SCOs in eight locations (SS-2, SS-5, SS-7, SS-8, SS-9, SS-10, SS-11, and SS-12). Total PAHs were detected at concentrations ranging from a low of 1.2 mg/kg (J qualified) to a high of 7998 mg/kg at location SS-7. Noteworthy is that, in general, the highest total PAH concentrations were observed at locations in close proximity to where surficial or shoreline tar deposits were documented (SS-3, and SS-7 through SS-10). No other SVOCs were detected above applicable SCOs at any of the sample locations.

Total cyanide was not detected above the applicable SCOs at any sample location (see Figure 11). Low-level concentrations were observed in the collected samples ranging from a low of 0.53 mg/kg (J qualified) to a high of 4.2 mg/kg at SS-5.

Exceedances of the Protection of Ecological Resources SCO for 4,4'- DDT (0.0033 mg/kg) were observed at three locations—SS-7, SS-8 and SS-10—at concentrations 0.024 mg/kg, 0.032 mg/kg and 0.04 mg/kg, respectively. Of note, the above-listed results are J qualified (i.e., estimated at low levels below reporting limits). These low-level concentrations do not exceed the SCOs for Protection of Public Health (industrial use) or Protection of Groundwater. No other pesticides were detected at concentrations exceeding applicable SCOs.

PCBs were not detected at concentrations above the applicable SCOs at any sample location.

Concentrations of one or more of the following inorganic constituents: arsenic, chromium, copper, lead, manganese, nickel, zinc and mercury; exceeded their respective applicable SCOs at the majority of the collected surface soil sample locations (11 out of 12 sample locations). Of these constituents, chromium, lead and zinc were most often detected at concentrations above the SCOs.

0- to 6-inch bgs interval

For the purposes of providing data for an ecological assessment (i.e., Steps 1 through 2B of a Fish and Wildlife Resources Impact Analysis (FWRIA)), surface soil samples from the 0- to 6-inch bgs depth interval were collected from 12 locations throughout the Site during RI activities. The sample locations are depicted on Figures 2 and 12. The 0- to 6-inch surface soil samples were analyzed for TCL SVOCs, total cyanide, TCL pesticides, PCBs, and TAL metals.

The analytical results from the 0- to 6-inch soil samples are provided in Table 6. The measured concentrations in the collected samples were compared to Subpart 375-6 SCOs for Protection of Ecological Resources (SCO-PER). Concentrations were also compared to the Ecological Soil Screening Levels (ECO-SSLs) developed by the United States Environmental Protection Agency (USEPA) which are concentrations in soil that are protective of ecological receptors that commonly come into contact and/or consume biota that live in or on soil (USEPA, 2005-2008).

The ECO-SSLs are not cleanup values, but are intended for use in screening sites for identifying constituents of potential concern. The comparison to the SCO-PER and ECO-SSLs criteria are provided in Table 6. Also, a comparison to these criteria for PAHs and cyanide is provided as Figure 12. Concentrations shown in bold type on Figure 12 indicate concentrations of one or more PAH compounds are above the applicable criteria.

Concentrations of one or more PAHs were detected above the SCO-PER criteria in seven locations (SS-3 and SS-7 through SS-12). Total PAHs were detected at concentrations ranging from a low of 11 mg/kg to a high of 4471 mg/kg at location SS-7. Noteworthy is that, in general, the highest total PAH concentrations were observed at locations in close proximity to where surficial or shoreline tar deposits were documented (SS-3, and SS-7 through SS-10).

Concentrations of one or one or more PAH compounds were above the ECO-SSL criterion designated to screen for potential impact to mammals in nine out of the 12 samples collected from the 0- to 6-inch bgs depth interval. In addition, concentrations of one or more PAH compounds in samples SS-7 and SS-8 also exceeded the ECO-SSL criterion designated to screen for potential impact to soil invertebrates.

Low-level concentrations of cyanide were observed in the collected samples ranging from a low of 0.51 mg/kg (J qualified) to a high of 2.8 mg/kg at SS-5. Of note, an SCO-PER criterion or ECO-SSL has not been established for total cyanide.

Exceedances of the SCO-PER criterion for 4,4'- DDT (0.0033 mg/kg) were observed at four locations—SS-1, SS-3, SS-7, and SS-10—at concentrations 0.025 mg/kg, 0.022 mg/kg, 0.022 mg/kg, and 0.051 mg/kg, respectively. Of note, the above-listed results are J qualified (i.e., estimated at low levels below reporting limits). The concentrations of 4,4'- DDT in these samples were also slightly above the ECO-SSL (Mammals) for this constituent of 0.021 mg/kg.

Low-level, J-qualified concentrations of aroclor 1248 (a PCB mixture) were detected in samples SS-1 and SS-3. No PCBs were detected in any of the other 0- to 6-inch bgs depth interval samples.

Concentrations of one or more of the following inorganic constituents: arsenic, copper, lead, nickel, zinc and mercury; were detected above their respective SCO-PER criterion at 11 out of the 12 sampling locations.

The ECO-SSLs (Mammals) were exceeded for one or more of the following: cadmium, chromium, copper, lead, nickel, selenium, vanadium, and zinc; at 12 out of the 12 sampling locations.

The ECO-SSLs (Soil Invertebrates) were exceeded for one or more of the following: barium, copper, lead, manganese, nickel, and zinc; at 8 out of the 12 sampling locations.

Subsurface Soil Analytical Results

During the RI field activities a total of 73 subsurface samples from 24 locations were collected and submitted for laboratory analysis of TCL volatile organic compounds (VOCs) TCL SVOCs, total cyanide, TCL pesticides, PCBs and TAL metals. Samples were selected based on visual observations/field screening of the soil samples (biased toward apparent impacts and/or determining the extent of impacts). The soil data collected during the RI activities were compared to the following criteria:

- NYSDEC's Remedial Program Soil Cleanup Objectives (SCOs) as set forth in 6 NYCRR Subpart 375-6.

- Subsurface soil cleanup guidance level for total PAHs of 500 mg/kg from Section H from NYSDEC's CP-51/Soil Cleanup Guidance (October 21, 2010). Per CP-51, the NYSDEC may apply this criteria at non-residential (i.e., commercial or industrial) sites where SCOs protective of ecological resources are not applicable.

Table 7 provides a summary of the soil quality results and a comparison to the applicable Part 375 SCOs. The applicable SCOs are identified below.

Total PAH concentrations in the collected soil samples are above 500 mg/kg at eight locations (SB-2, SB-5 through SB-7, SB-9, MW-2D, MW-3S, and MW-3D). In general, these locations fall within areas and depth intervals impacted by NAPL/tar (see Figure 10 and Table 4). Out of the above-referenced sample locations , total PAH concentrations ranged from a low of 515 mg/kg in the 33.5 to 34 foot sample interval from MW-3D to a high of 27,970 mg/kg in the 13 to 14.5-foot sample interval from SB-2.

As indicated above, in addition to comparing the subsurface soil data to the NYSDEC's soil cleanup guidance level for total PAHs (CP-51), the data were also compared to the New York State Subpart 375-6 SCOs for Protection of Public Health (site is zoned for industrial use), Protection of Ecological Resources, and Protection of Groundwater. A summary of this comparison is provided below.

VOCs

In the RI subsurface soil samples, concentrations of benzene, toluene, ethylbenzene, or isomers of xylene (BTEX) ranged from non-detect to a high of 21,200 mg/kg within the 11- to 13-foot interval sample collected from soil boring MW-3S. The distribution of total BTEX in subsurface soils is depicted in Figure 13. Concentrations of one or more BTEX compounds were detected at concentrations above applicable SCOs in samples collected at seven locations (MW-2S, MW-2D, MW-3S, MW-3D, SB-2, SB-5, and SB-9). In general, the soil borings where concentrations were reported above the SCOs are at locations where NAPL/tar was also observed.

SVOCs

A number of PAHs were detected above their corresponding SCOs (Protection of Public Health for industrial use, Protection of Ecological Resources and/or Protection of groundwater) in soil samples collected across the Site. The distribution of PAHs in soils is depicted on Figure 13. The occurrence of these PAH concentrations, however, are generally in borings where NAPL/tar was also observed, Total PAH concentrations ranged from non-detect to 27,970 mg/kg within the 13- to 14.5-foot interval sample collected from soil boring SB-2. During the RI activities, subsurface soil samples from 17 locations contained concentrations of PAH compounds above one or more of the applicable SCOs (Figure 13).

Other SVOCs detected above applicable SCOs included: 2-methylphenol (o-cresol), 4-methylphenol, dibenzofuran and phenol at soil boring locations MW-3S, SB-2, SB-5, and SB-9.

Cyanide

Total cyanide was not detected at concentrations above applicable SCOs in any of the collected subsurface soil samples. Concentrations of total cyanide in the RI subsurface soil samples ranged from non-detect to a high of 10.3 mg/kg within the 7- to 8.6-foot interval sample collected from SB-5. Figure 13 depicts the results of the concentrations of total cyanide in soil from the RI activities.

As indicated in the above subsections, Figure 13 depicts the distribution of BTEX, PAHs and cyanide in soil from the data collected during the RI activities. At a location, if a concentration of one or more constituents exceeded any one of above noted SCOs, it is depicted with a red symbol. Locations where no exceedances were observed are depicted with a green symbol. The distribution of pesticides, PCBs and metals are not shown on Figure 13, however, the results are discussed below.

Pesticides

Concentrations of one or more of the following pesticides: 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, delta-Hexachlorocyclohexane, dieldrin, and endrin; their respective SCO-PER criterion at five of the subsurface soil sample locations (see Table 7). Of note, the concentrations are J qualified (i.e., estimated at low levels below reporting limits). These low-level concentrations do not exceed the SCOs for Protection of Public Health (industrial use) or Protection of Groundwater. No other pesticides were detected at concentrations exceeding applicable SCOs.

PCBs

PCBs were not detected at concentrations above the applicable SCOs at any sample location. A single low level concentration (0.14 mg/kg, J-qualified) of aroclor 1248 was detected in the 5- to 5.8-foot interval sample collected at SB-6.

Metals

Concentrations of one or more of the following inorganic constituents: arsenic, chromium, copper, lead, manganese, nickel, zinc and mercury; exceeded their respective applicable SCOs at the majority of the collected subsurface soil sample locations (20 out of 23 sample locations). Of these constituents, arsenic and chromium were most often detected at concentrations above the SCOs, with arsenic concentrations exceeding at 18 out of the 23 sample locations and chromium concentrations exceeding applicable SCOs at 15 out of the 23 subsurface soil sampling locations. Concentrations of lead, manganese and mercury exceeded their respective SCOs at approximately half of the subsurface soil sampling locations. The exceedances of metals in subsurface soils are boxed and bolded on Table 7.

Groundwater Analytical Results

Two comprehensive rounds of groundwater sampling were conducted during the RI activities (June 2015 and September 2015). The groundwater samples were analyzed for TCL VOCs, TCL SVOCs, total cyanide, pesticides, PCBs and TAL metals. Results of the analyses were compared to the 6 NYCRR Part 703 groundwater standards for Class GA water (groundwater) or, where no such standard exists, the corresponding guidance value from Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1; collectively, these are referred to herein as the Class

GA criteria. Table 8 presents the groundwater quality data from June and September 2015, including a comparison to the Class GA criteria. Concentrations of total BTEX, naphthalene, phenol, and total cyanide in groundwater for the sampling rounds conducted are posted on Figure 14. Concentrations that are above the Class GA criteria are shown in bold type. Additionally, locations with a red symbol identify wells where one or more constituents were detected at levels above the Class GA criteria. Green symbols identify wells where no exceedances of criteria were observed, while the black symbol represents a well where NAPL was detected during the water level measurements and NAPL gauging activities conducted prior to sampling. In accordance with the work plan for RI activities, groundwater samples were not collected from monitoring wells where NAPL was detected. Accordingly, as indicated on Figure 14, samples were not collected from MW-3D during the RI sampling events due to NAPL presence in this well. Additionally, samples were not collected from well MW-1S due to insufficient amount of water in the well during both sampling events.

Constituents often associated with MGP-related residuals, but can also be related to non-MGP sources that were detected at concentrations above the Class GA criteria were BTEX compounds, phenol, 2-methylphenol, 4-methylphenol, and total cyanide. These constituents are used as indicators for evaluating dissolved-phase impacts in groundwater at the Site. During the sampling rounds completed as part of the RI activities, one or more constituents in the BTEX constituent group were detected at concentrations above the Class GA criteria in samples collected from MW-2S, MW-2D, MW-3S, and MW-4S. Naphthalene, a PAH compound commonly associated with former MGP operations was not detected at concentrations above its applicable guidance value in the samples collected during the RI. However, exceedances of one or more lower solubility PAHs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, and indeno(1,2,3-c,d)pyrene; were observed at MW-2S and MW-3S (see Table 8). Elevated levels of these other PAH compounds, which have very low solubilities, may be related to suspended particulates or turbidity entrained in the sample.

Total cyanide was detected above its applicable groundwater standard at MW-4S during the September 2015 sampling event, but not in the sample collected from this location during the June 2015 event.

Concentrations of one or more of the following pesticides: aldrin, alpha-Hexachlorocyclohexane, dieldrin, and heptachlor epoxide; exceeded their respective groundwater standards at MW-1D, MW-2S, MW-3S, and MW-4S (see Table 8). Of note, the majority of the concentrations are J qualified (i.e., estimated at low levels below reporting limits).

PCBs were not detected in any of the samples collected during the RI groundwater sampling events.

Several metals have been detected in groundwater at concentrations above the Class GA criteria (e.g., iron, magnesium, manganese and sodium) in the wells sampled during the RI. Typically, the concentrations of metals at locations impacted by potential MGP-residuals (e.g., MW-2S and MW-3S) are similar to the concentrations in the other locations and thus, the metals are not considered related to the former MGP operations.

Soil Vapor Sampling

As indicated in the RIWP, a soil vapor investigation will be conducted to evaluate the potential for residuals to be contributing VOCs to soil vapor. Following submittal of this RI DSR, a separate work plan that provides proposed soil vapor sampling locations along with methods and procedures associated with the installation of soil vapor probes and sample collection will be prepared and submitted to the NYSDEC under separate cover. The approach and procedures for evaluating the soil vapor medium will be discussed in the work plan that will be developed for completing additional RI activities, as recommended below.

Conclusions and Recommendations

Based on the RI data discussed herein, the evaluation of the nature and extent of impacts at the Troy (Water St.) Site – Area 3 for the purposes of the RI is not yet complete and additional RI activities are required.

The following recommendations are made with regard to future activities related to the Troy (Water St.) Site – Area 3:

1. Further evaluate the extent of NAPL/tar encountered during the RI activities.
2. Further evaluate the extent of constituents in subsurface soil above applicable SCOs as set forth in 6 NYCRR Subpart 375-6.
3. Further evaluate the extent of dissolved-phase constituents in shallow and deep overburden groundwater above Class GA criteria.
4. Evaluate the potential for residuals to be contributing VOCs to soil vapor.

Upon approval of this RI Data Summary Report, a work plan will be developed that discuss the approach and procedures for the additional RI activities recommended above and the above-discussed soil vapor investigation activities. Please do not hesitate to call me at 315-657-6860 or Jim Marolda of BC at 201-574-4713.

Sincerely,

FOR:

Michael Donegan
Project Manager

Attachments

cc: M. Sergott, NYSDOH
J. Marolda, BC
A. Sherman, BC

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Section 1

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Tables

TABLE 1
SUMMARY OF BACKGROUND INFORMATION FOR INVESTIGATORY SAMPLE LOCATIONS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Location ID	Completion Date	Survey Coordinates NY State Plane - NAD 83 Northing	Survey Coordinates NY State Plane - NAD 83 Easting	Ground Surface Elevation[1] (ft., NGVD)	Depth to Base of Fill (ft., BGS)	Base of Fill Elevation (ft., NGVD)	Depth to Bedrock (ft., BGS)	Bedrock Elevation (ft., NGVD)	Screened Interval Top (ft., BGS)	Screened Interval Bottom (ft., BGS)	Screened Interval Top (ft., NGVD)	Screened Interval Bottom (ft., NGVD)	Total Depth (ft., BGS)	Total Depth (ft., NGVD)
Soil Borings														
SB-1	5/18/2015	1410104.90	706954.47	26.39	21.0	5.4	29.1	-2.7	--	--	--	--	29.7	-3.31
SB-2	5/13/2015	1410263.46	706810.37	25.35	27.2	-1.9	31.9	-6.6	--	--	--	--	33.2	-7.85
SB-3	5/14/2015	1410341.83	706960.32	27.45	21.0	6.5	31.3	-3.9	--	--	--	--	31.3	-3.85
SB-4	5/13/2015	1410189.84	706916.92	26.88	23.3	3.6	39.0	-12.1	--	--	--	--	40.7	-13.82
SB-5	5/12/2015	1410360.84	706807.06	25.95	25.0	0.9	32.9	-7.0	--	--	--	--	33.1	-7.15
SB-6	5/11/2015	1410375.43	706909.56	27.42	25.2	2.2	33.0	-5.6	--	--	--	--	33.6	-6.18
SB-7	5/14/2015	1410276.77	706912.94	26.03	26.4	-0.4	32.8	-6.8	--	--	--	--	33.2	-7.17
SB-8	5/15/2015	1410191.47	706979.02	26.91	11.6	15.3	27.3	-0.4	--	--	--	--	29.1	-2.19
SB-9	5/19/2015	1410147.22	706834.27	25.18	23.7	1.5	37.0	-11.8	--	--	--	--	37.7	-12.52
Overburden Monitoring Wells														
MW-1[2]	--	1410206.18	706820.10	25.53	--	--	--	--	--	--	--	--	29.2	-3.63
MW-1S	5/27/2015	1410304.02	706978.72	27.20	--	--	--	--	12.0	18.0	15.2	9.2	28.0	-0.80
MW-1D	5/26/2015	1410296.66	706977.17	27.03	28.0	-1.0	29.8	-2.8	23.0	29.0	4.0	-2.0	30.0	-2.97
MW-2S	5/22/2015	1410321.63	706845.58	25.90	19.8	6.1	--	--	10.0	20.0	15.9	5.9	22.0	3.90
MW-2D	5/21/2015	1410321.23	706839.74	25.80	21.0	4.8	33.7	-7.9	29.5	33.0	-3.7	-7.2	34.4	-8.60
MW-3S	5/21/2015	1410215.97	706855.40	25.70	17.0	8.7	--	--	9.5	19.5	16.2	6.2	21.5	4.20
MW-3D	5/20/2015	1410216.92	706849.03	25.48	17.0	8.5	37.0	-11.5	24.5	34.5	1.0	-9.0	38.2	-12.72
MW-4[2]	--	1410305.46	706970.54	27.17	--	--	--	--	--	--	--	--	24.5	2.72
MW-4S	5/20/2015	1410127.41	706876.31	25.27	19.6	5.7	--	--	15.0	21.0	10.3	4.3	21.0	4.27
MW-4D	5/19/2015	1410122.25	706866.29	25.00	19.0	6.0	35.0	-10.0	27.5	33.5	-2.5	-8.5	35.9	-10.90
Test Pits														
TP-1	5/27/2015	1410099.76	706890.52	25.35	--	--	--	--	--	--	--	--	10.0	15.35
TP-1A	5/27/2015	1410095.83	706865.02	25.24	--	--	--	--	--	--	--	--	6.0	19.24
TP-1B	5/27/2015	1410082.67	706840.20	24.27	--	--	--	--	--	--	--	--	10.0	14.27
TP-2	5/28/2015	1410238.78	7068853.10	25.86	--	--	--	--	--	--	--	--	5.0	20.86
TP-3	5/28/2015	1410284.08	706964.03	27.00	--	--	--	--	--	--	--	--	5.0	22.00
TP-4	5/27/2015	1410321.79	706899.47	26.63	--	--	--	--	--	--	--	--	9.5	17.13
TP-5	5/28/2015	1410231.26	706956.86	26.80	--	--	--	--	--	--	--	--	7.5	19.30
Surface Soil Samples														
SS-1	5/13/2015	1410331.29	706764.10	7.51	--	--	--	--	--	--	--	--	--	--
SS-2	5/14/2015	1410331.80	706782.49	16.60	--	--	--	--	--	--	--	--	--	--
SS-3	5/13/2015	1410194.08	706776.36	8.04	--	--	--	--	--	--	--	--	--	--
SS-4	5/13/2015	1410198.16	706796.06	22.02	--	--	--	--	--	--	--	--	--	--
SS-5	5/13/2015	1410080.65	706791.54	9.09	--	--	--	--	--	--	--	--	--	--
SS-6	5/13/2015	1410083.58	706812.23	24.25	--	--	--	--	--	--	--	--	--	--

TABLE 1
SUMMARY OF BACKGROUND INFORMATION FOR INVESTIGATORY SAMPLE LOCATIONS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Location ID	Completion Date	Survey Coordinates NY State Plane - NAD 83 Northing	Survey Coordinates NY State Plane - NAD 83 Easting	Ground Surface Elevation[1] (ft., NGVD)	Depth to Base of Fill (ft., BGS)	Base of Fill Elevation (ft., NGVD)	Depth to Bedrock (ft., BGS)	Bedrock Elevation (ft., NGVD)	Screened Interval Top (ft., BGS)	Screened Interval Bottom (ft., BGS)	Screened Interval Top (ft., NGVD)	Screened Interval Bottom (ft., NGVD)	Total Depth (ft., BGS)	Total Depth (ft., NGVD)
SS-7	5/13/2015	1410339.81	706847.84	25.95	--	--	--	--	--	--	--	--	--	--
SS-8	5/13/2015	1410346.37	706933.92	27.44	--	--	--	--	--	--	--	--	--	--
SS-9	5/13/2015	1410255.35	706851.24	25.56	--	--	--	--	--	--	--	--	--	--
SS-10	5/13/2015	1410251.95	706936.99	26.30	--	--	--	--	--	--	--	--	--	--
SS-11	5/14/2015	1410132.54	706858.52	24.87	--	--	--	--	--	--	--	--	--	--
SS-12	5/14/2015	1410135.19	706945.98	25.87	--	--	--	--	--	--	--	--	--	--

Notes:

(1) - Value presented reflects ground surface elevation at time of well installation, soil boring drilling, soil vapor probe installation, or test pit excavation.

(2) - Wells installed by others

-- - Data not available or not applicable

NGVD - National Geodetic Vertical Datum

BGS - Below Ground Surface

TABLE 2
GROUNDWATER ELEVATIONS AND NAPL MONITORING DATA
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Well ID	Top of Casing Elevation (ft., NGVD)	Screened Interval (ft., BGS)	6/11/2015			6/25/2015			7/2/2015			9/22/2015		
			Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)	Depth to NAPL (ft., BTOC)	Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)	Depth to NAPL (ft., BTOC)	Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)	Depth to NAPL (ft., BTOC)	Depth to Water (ft., BTOC)	Water Elevation (ft., NGVD)	Depth to NAPL (ft., BTOC)
MW-1	25.33	(1)	22.06	3.27	ND	22.08	3.25	NM	21.21	4.12	NM	22.72	2.61	ND
MW-1S	29.55	12-18	Dry	< 9.2	ND	Dry	< 9.2	NM	Dry	< 9.2	NM	Dry	< 9.2	ND
MW-1D	29.61	22-29	22.12	7.49	ND	21.36	8.25	NM	20.75	8.86	NM	22.02	7.59	ND
MW-2S	28.45	10-20	22.26	6.19	ND	21.63	6.82	NM	21.50	6.95	NM	22.27	6.18	ND
MW-2D	28.95	29.5-33	25.02	3.93	ND	24.81	4.14	NM	24.18	4.77	NM	25.47	3.48	ND
MW-3S	28.26	9.5-19.5	17.35	10.91	ND(2)	17.07	11.19	NM	18.82	9.44	NM	17.16	11.10	ND(2)
MW-3D	28.05	24.5-34.5	24.40	3.65	38.42(3)	24.17	3.88	NM	23.59	4.46	NM	24.82	3.23	37.32(3)
MW-4	27.08	(1)	19.61	7.47	ND	18.82	8.26	NM	19.02	8.06	NM	19.53	7.55	ND
MW-4S	28.14	13-21	20.97	7.17	ND	19.86	8.28	NM	19.76	8.38	NM	20.88	7.26	ND
MW-4D	27.65	27.5-33.5	24.13	3.52	ND	23.86	3.79	NM	23.23	4.42	NM	24.51	3.14	ND
SG-1	1.49	NA	0.67	0.82	ND	1.71	-0.22	NM	0.85	0.64	NM	1.62	-0.13	ND
Water Valve	27.52	(1)	NM	NA	NA	19.34	8.18	NM	NM	NA	NM	20.11	7.41	ND

Notes:
NGVD - National Geodetic Vertical Datum
BGS - Below Ground Surface
BTOC - Below Top of Casing
NA - Not Applicable
ND - Not detected with oil/water interface probe.
NM - Not measured
(1) - Wells installed by others. Screened intervals are unknown.
(2) - Heavy sheen observed on surface of purge water during groundwater sampling activities.
(3) - Depth to NAPL measured using threaded rod, oil/water interface was not lowered to bottom of well.

TABLE 3
SUMMARY OF IN-SITU HYDRAULIC CONDUCTIVITY TEST RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Location ID	Screened Interval (ft., BGS)	Formation(s) Screened[a]	Saturated Formation(s) Adjacent to Screen at Time of Test[b]	Test Date	Hydraulic Conductivity (cm/sec)
Fill					
MW-1S[c]	12-18	Fill(6)	--	--	--
MW-1D	23-29	Fill(5)/Sand and Silt(1)	Fill/Sand and Silt	7/24/2015	9.9E-03
MW-2S	10.0-20.0	Fill(9.8)/Silt & Clay/Clay & Silt (0.2)	Fill/Silt&Clay/Clay&Silt	7/24/2015	1.2E-03
MW-3S	9.5-19.5	Fill(7.5)/Sand and Silt(2.5)	Fill/Sand and Silt	7/24/2015	1.3E-04
MW-4S	15.0-21.0	Fill(6)	Fill	7/24/2015	3.8E-04
				Geometric Mean	**8.8E-04**
Sand and Gravel					
MW-2D	29.5-33.0	Sand and Gravel(3.5)	Sand and Gravel	7/24/2015	6.1E-03
MW-3D	24.5-34.5	Sand and Gravel(10)	Sand and Gravel	7/24/2015	1.0E-03
				Geometric Mean	**2.5E-03**
Sand and Silt					
MW-4D	27.5-33.5	Sand and Silt(6)	Sand and Silt	7/24/2015	4.1E-03

Notes:

BGS - Below Ground Surface

cm/sec - centimeters per second

(a) - Formation(s) adjacent to screened interval. Value presented in parentheses indicates length of screen in feet adjacent to listed formation(s).

(b) - Based on depth to water data collected prior to initiation of slug test, formation(s) listed indicates which formation(s) the slug test is representative of.

(c) - Insufficient amount of water in well to complete test using this test procedure.

TABLE 4
SUMMARY OF VISUAL/OLFACTORY OBSERVATIONS IN SOIL
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Location	Date of Observation	Total Depth of Boring/Test Pit (ft., BGS)	Depth of Observation (ft., BGS)	Description
SOIL BORINGS				
SB-1	5/18/2015	29.7	0.0-2.15	Black discolored grains (flat to submetallic luster), sporadic nodules of gravel-sized black material with a submetallic luster.
			2.15-2.6	Few occurrences of black discoloration (flat luster).
			2.6-5	Black discoloration (flat luster).
			5.0-21.1	Black discoloration (flat to submetallic luster).
SB-2	5/13/2015	33.2	0.0-2.0	Black discolored grains (flat to submetallic luster), sporadic nodules of gravel-sized black material with a submetallic luster.
			2.0-5.0	Black discoloration (flat luster).
			5.0-7.9	Infrequent black discolored grains (flat to submetallic luster), faint mothball-like odor.
			13.0-14.5	Black tacky/stringy tar-like material (sub-metallic to metallic luster), strong mothball-like odor.
			15.0-19.3	Infrequent black discolored grains (flat luster),faint mothball-like odor, specks of sheen on surface of water in split-spoon.
			21.0-32.0	Black discolored grains (sub-metallic to metallic luster), faint to moderate petroleum-like odor, specks of sheen on surface of water in split-spoon.
SB-3	5/14/2015	31.8	0.0-3.0	Faint to moderate mothball-like odor.
			0.3-5.0	Black discolored sand and gravel (flat luster).
			5.0-5.9	Black discolored grains (sub-metallic to metallic luster).
			7.0-22.3	Infrequent black discolored grains (flat luster).
SB-4	5/13/2015	40.8	2.0-5.0	Black discolored grains (flat luster).
			5.0-10.5	Infrequent black discolored grains (flat to sub-metallic luster).
			17.0-22.1	Infrequent black discolored grains (flat to sub-metallic), faint petroleum-like odor, specks of sheen of surface on water in split-spoon.
SB-5	5/12/2015	33.1	0.0-3.0	Black discolored grains (flat to submetallic luster), sporadic nodules of gravel-sized black material with a submetallic luster.
			5.0-6.2	Black tacky/stringy tar-like material (sub-metallic to metallic luster), strong mothball-like odor.
			7.0-8.6	Black tacky/stringy tar-like material (sub-metallic to metallic luster), strong mothball-like odor.
			9.0-14.9	Faint mothball-like odor.
			21.0-34.5	Strong to moderate petroleum-like odor, specks of sheen on surface of water in split-spoon.

TABLE 4
SUMMARY OF VISUAL/OLFACTORY OBSERVATIONS IN SOIL
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Location	Date of Observation	Total Depth of Boring/Test Pit (ft., BGS)	Depth of Observation (ft., BGS)	Description
SB-6	5/11/2014	34	1.5-5.0	Black discolored grains (flat luster), moderate to strong mothball-like odor.
			1.5 -3.0	Gravel to cobble sized solid tar-like material (submetallic luster), strong mothball-like odor.
			5.0-5.8	Black discoloration (flat to sub-metallic luster), strong mothball-like odor.
			9.0-14.0	Infrequent black discolored grains (flat to submetallic), faint mothball-like odor.
			19.0-32.1	Moderate to faint petroleum-like odor.
SB-7	5/14/2015	33	0.0-2.0	Black discolored sand and gravel, faint to moderate mothball-like odor.
			5.0-21.0	Infrequent black discolored grains (flat to submetallic luster).
SB-8	5/15/2015	29.1	1.0-3.0	Infrequent black discoloration (flat luster).
SB-9	5/19/2015	37.9	0.0-3.0	Black discolored grains (flat luster).
			1.5 -3.0	Gravel to cobble sized solid tar-like material (submetallic luster), strong mothball-like odor.
			5.0-8.3	Black discolored grains (flat to sub-metallic luster), faint to moderate mothball-like odor.
			9.0-11.6	Black tacky/semi-solid tar-like material, black discolored grains (flat to sub-metallic luster), strong mothball-like odor.
			13.0-20.4	Black discolored grains (flat luster).
SOIL BORINGS FOR MONITORING WELLS				
MW-1S	5/27/2015	28	0.15	Solid tar-like material
			12.0-12.4	Black discolored grains (flat luster)
			14.0-15.2	Black discolored grains (flat luster).
			16.4-17.0	Black discolored grains (flat luster).
			18.0-18.5	Black discolored grains (flat luster).
			20.0-21.3	Black discolored grains (flat luster), moderate petroleum-like odor, slight sheen on surface of water in split-spoon.
			21.3-21.7	Slight petroleum-like odor
			22.0-23.0	Sporadic black discoloration of grains, moderate petroleum-like odor
			23.0-23.2	Black discolored grains (flat luster), moderate petroleum-like odor.
			24.0-25.4	Slight petroleum-like odor.
			26.0-27.6	Slight petroleum-like odor.

TABLE 4
SUMMARY OF VISUAL/OLFACTORY OBSERVATIONS IN SOIL
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Location	Date of Observation	Total Depth of Boring/Test Pit (ft., BGS)	Depth of Observation (ft., BGS)	Description
MW-1D	5/26/2015	30	0.15	Solid tar-like material.
			0.5-1.4	Black semi-solid, tacky, tar-like material, strong tar-like odor.
			14.0-14.9	Black discolored grains (flat luster).
			16.0-17.5	Black discolored grains (flat luster).
			20.0-20.8	Moderate petroleum-like odor.
			24.0-24.3	Slight petroleum-like odor.
			26.0-26.3	Slight petroleum-like odors, slight sheen on surface of water in split-spoon.
			28.0-30.0	Black discolored grains (flat luster), slight petroleum-like odor.
MW-2S	5/22/2015	22	0.0-5.0	Black discolored grains (flat luster).
			0.8-1.0	Black gravel sized solid tar-like material (submetallic luster).
			19.0-19.8	Black greasy tar-like material (sub-metallic luster), petroleum-like odor.
MW-2D	5/21/2015	34.4	0.0-5.0	Black discolored grains (flat luster).
			1.0-1.2	Black gravel sized solid tar-like material (submetallic luster).
			5.0-5.7	Infrequent black discoloration (sub-metallic luster).
			7.0-7.8	Black tacky tar-like material (taffy-like consistency, flat to submetallic luster), mixture of strong mothball/petroleum-like odor.
			9.0-10.3	Black discoloration (flat luster).
			17.0-17.5	Black tacky/greasy tar-like material (flat to submetallic luster), faint petroleum-like odor, specks of sheen on surface of water in split-spoon.
			21.0-21.6	Specks of sheen on surface of water in split-spoon, faint petroleum-like odor.
			25.0-30.1	Faint petroleum-like odor.
MW-3S	5/21/2015	19.5	0.0-5.0	Black discolored grains (flat to submetallic luster).
			9.0-12.8	Sporadic occurrences of black tacky tar-like material (sub-metallic luster, taffy-like consistency).

TABLE 4
SUMMARY OF VISUAL/OLFACTORY OBSERVATIONS IN SOIL
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Location	Date of Observation	Total Depth of Boring/Test Pit (ft., BGS)	Depth of Observation (ft., BGS)	Description
MW-3D	5/20/2015	38.2	0.0-1.4	Black discolored grains (flat to submetallic luster).
			1.4-2.8	Infrequent black discoloration (flat luster).
			2.8-3.0	Black discolored grains (flat to submetallic luster).
			5.0-7.6	Infrequent black discoloration (flat luster), faint to moderate mothball-like odor.
			9.0-15.9	Black tacky/greasy tar-like material (flat to submetallic luster), mixture of strong mothball/petroleum-like odor, specks of sheen on surface of water in split-spoon.
			17.0-23.0	Black tacky/greasy tar-like material (flat to metallic luster), strong mothball-like odor, specks of sheen on surface of water in split-spoon.
			23.0-23.7	Sporadic NAPL blebs, sand grains partially coated with NAPL, black tacky/greasy tar-like material (flat to submetallic luster), strong mothball-like odor, specks of sheen on surface of water in split-spoon.
			23.7-29.0	Black tacky/greasy tar-like material (flat to metallic luster), strong mothball-like odor, specks of sheen on surface of water in split-spoon.
			29.0-30.2	Sporadic NAPL blebs, sand grains partially coated with NAPL, black tacky/greasy tar-like material (flat to submetallic luster), strong mothball-like odor, specks of sheen on surface of water in split-spoon.
			30.2-32.1	Black tacky/greasy tar-like material (flat to metallic luster), strong mothball-like odor, specks of sheen on surface of water in split-spoon.
			32.1-32.4	Soils coated to saturated with NAPL, black tacky/greasy tar-like material (flat to submetallic luster), strong mothball-like odor, specks of sheen on surface of water in split-spoon.
			33.6-34.0	Soils coated to saturated with NAPL, black tacky/greasy tar-like material (flat to submetallic luster), strong mothball-like odor, specks of sheen on surface of water in split-spoon.
			35.0-35.6	Black discoloration (flat to sub-metallic), strong mothball-like odor.
MW-4S	5/20/2015	21	0.0-5.0	Black discolored grains (flat luster).
			1.0-2.0	Gravel sized nodules of solid tar-like material (submetallic luster).
MW-4D	5/19/2015	35.9	0.0-5.0	Black discolored grains (flat luster).
			1.0-2.0	Gravel sized nodules of solid tar-like material (submetallic luster).
			5.0-21.4	Infrequent black discolored grains (flat to sub-metallic luster).

TABLE 4
SUMMARY OF VISUAL/OLFACTORY OBSERVATIONS IN SOIL
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Location	Date of Observation	Total Depth of Boring/Test Pit (ft., BGS)	Depth of Observation (ft., BGS)	Description
TEST PITS				
TP-1	5/27/2015	10	0.0-10.0	Black discolored grains (flat luster).
TP-1A	5/27/2015	6	0.0-3.0	Black discolored grains (flat luster).
TP-1B	5/27/2015	10	0.0-4.0	Black discolored grains (flat luster).
			6.0-10.0	Black discolored grains (flat luster).
TP-2	5/28/2015	5	2.0-5.0	Black discolored grains (flat luster)
TP-3	5/28/2015	5	0.0-1.0	Semi-solid, stringy, tacky tar-like material mixed with gravel.
TP-4	5/27/2015	9.5	8.0	Piece of cemented lime-like material encountered with blue/green tinge, sulfur-like odor.
TP-5	5/28/2015	7.5	3.0-7.5	Black discolored grains (flat luster), some ash observed within fill material, faint sulfur-like odor.

Notes:
BGS - Below Ground Surface

TABLE 5
SURFACE SOIL ANALYTICAL RESULTS (0-2")
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SS-1 0-2" 5/13/2015	SS-2 0-2" 5/14/2015	SS-3 0-2" 5/13/2015	SS-4 0-2" 5/13/2015	SS-5 0-2" 5/13/2015	SS-5 DUP 0-2" 5/13/2015	SS-6 0-2" 5/13/2015
Semi-volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	1000	20	98	mg/kg	0.66 U	0.61 U	9.6 U	6 U	0.58 U	0.58 U	3.6 U
Acenaphthylene	1000	NE	107	mg/kg	0.58 U	0.54 U	8.4 U	5.3 U	0.6 J	0.51 U	3.2 U
Anthracene	1000	NE	1000	mg/kg	1.1 U	1 U	16 U	10 U	1.2 J	0.97 U	6 U
Benzo(a)anthracene	11	NE	1	mg/kg	0.45 U	**1.7 J**	6.5 U	4.1 U	**5.5**	**3.2 J**	2.4 U
Benzo(a)pyrene	1	2.6	22	mg/kg	0.66 U	**1.5 J**	9.6 U	6 U	**5.1**	**2.9 J**	3.6 U
Benzo(b)fluoranthene	11	NE	1.7	mg/kg	0.71 U	**1.9 J**	10 U	6.5 U	**6.2**	**4.5**	3.9 U
Benzo(g,h,i)perylene	1000	NE	1000	mg/kg	0.48 U	0.57 J	6.9 U	4.3 U	3.2 J	2.2 J	2.6 U
Benzo(k)fluoranthene	110	NE	1.7	mg/kg	0.58 U	0.8 J	8.4 U	5.3 U	**3.1 J**	1.5 J	3.2 U
Chrysene	110	NE	1	mg/kg	1 U	**1.7 J**	15 U	9.2 U	**5.2**	**2.9 J**	5.4 U
Dibenz(a,h)anthracene	1.10	NE	1000	mg/kg	0.79 U	0.73 U	12 U	7.2 U	0.69 U	0.69 U	4.3 U
Fluoranthene	1000	NE	1000	mg/kg	0.64 J	2.1 J	6.9 U	4.3 U	8.3	4.7	2.6 U
Fluorene	1000	30	386	mg/kg	0.53 U	0.49 U	7.7 U	4.8 U	0.46 U	0.46 U	2.9 U
Indeno(1,2,3-c,d)pyrene	11	NE	8.2	mg/kg	0.56 U	0.73 J	8.1 U	5.1 U	3.4 J	2.3 J	3 U
Naphthalene	1000	NE	NE	mg/kg	0.58 U	0.54 U	8.4 U	5.3 U	0.51 U	0.51 U	3.2 U
Phenanthrene	1000	NE	1000	mg/kg	0.66 U	0.97 J	9.6 U	6 U	4	1.4 J	3.6 U
Pyrene	1000	NE	1000	mg/kg	0.55 J	1.9 J	7.7 U	4.8 U	8	5	2.9 U
2-Methylnaphthalene	NE	NE	NE	mg/kg	0.9 U	0.83 U	13 U	8.2 U	0.78 U	0.79 U	4.9 U
Total PAHs	NE	NE	NE	mg/kg	1.2 J	14 J	ND	ND	54	31	ND
Other SVOCs											
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	1.2 U	1.1 U	18 U	11 U	1.1 U	1.1 U	6.6 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	0.9 U	0.83 U	13 U	8.2 U	0.78 U	0.79 U	4.9 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	0.48 U	0.44 U	6.9 U	4.3 U	0.41 U	0.42 U	2.6 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	1.1 U	1 U	16 U	9.9 U	0.94 U	0.95 U	5.9 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	21 U	19 U	300 U	190 U	18 U	18 U	110 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	0.93 U	0.86 U	13 U	8.5 U	0.81 U	0.81 U	5 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	0.53 U	0.49 U	7.7 U	4.8 U	0.46 U	0.46 U	2.9 U
2-Chloronaphthalene	NE	NE	NE	mg/kg	0.74 U	0.69 U	11 U	6.8 U	0.64 U	0.65 U	4 U
2-Chlorophenol	NE	NE	NE	mg/kg	0.82 U	0.76 U	12 U	7.5 U	0.71 U	0.72 U	4.4 U
2-Methylphenol (o-cresol)	1000	NE	0.33	mg/kg	0.53 U	0.49 U	7.7 U	4.8 U	0.46 U	0.46 U	2.9 U
2-Nitroaniline	NE	NE	NE	mg/kg	0.66 U	0.61 U	9.6 U	6 U	0.58 U	0.58 U	3.6 U
2-Nitrophenol	NE	NE	NE	mg/kg	1.3 U	1.2 U	18 U	12 U	1.1 U	1.1 U	6.9 U
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	5.3 U	4.9 U	77 U	48 U	4.6 U	4.6 U	29 U
3-Nitroaniline	NE	NE	NE	mg/kg	1.2 U	1.2 U	18 U	11 U	1.1 U	1.1 U	6.7 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	4.5 U	4.2 U	65 U	41 U	3.9 U	3.9 U	24 U
4-Bromophenyl phenyl ether	NE	NE	NE	mg/kg	0.63 U	0.59 U	9.2 U	5.8 U	0.55 U	0.55 U	3.4 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	1.1 U	1 U	16 U	10 U	0.97 U	0.97 U	6 U

TABLE 5
SURFACE SOIL ANALYTICAL RESULTS (0-2")
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SS-1 0-2" 5/13/2015	SS-2 0-2" 5/14/2015	SS-3 0-2" 5/13/2015	SS-4 0-2" 5/13/2015	SS-5 0-2" 5/13/2015	SS-5 DUP 0-2" 5/13/2015	SS-6 0-2" 5/13/2015
4-Chloroaniline	NE	NE	NE	mg/kg	1.1 U	1 U	16 U	10 U	0.97 U	0.97 U	6 U
4-Chlorophenyl phenyl ether	NE	NE	NE	mg/kg	0.56 U	0.51 U	8.1 U	5.1 U	0.48 U	0.49 U	3 U
4-Methylphenol	1000	NE	0.33	mg/kg	0.53 U	0.49 U	7.7 U	4.8 U	0.46 U	0.46 U	2.9 U
4-Nitroaniline	NE	NE	NE	mg/kg	2.4 U	2.2 U	34 U	21 U	2 U	2.1 U	13 U
4-Nitrophenol	NE	NE	NE	mg/kg	3.1 U	2.9 U	46 U	29 U	2.7 U	2.8 U	17 U
Acetophenone	NE	NE	NE	mg/kg	0.61 U	0.56 U	8.8 U	5.6 U	0.53 U	0.53 U	3.3 U
Atrazine	NE	NE	NE	mg/kg	1.6 U	1.4 U	23 U	14 U	1.4 U	1.4 U	8.5 U
Benzaldehyde	NE	NE	NE	mg/kg	3.6 U	3.3 U	52 U	33 U	3.1 U	3.1 U	19 U
Benzyl butyl phthalate	NE	NE	NE	mg/kg	0.74 U	0.69 U	11 U	6.8 U	0.64 U	0.65 U	4 U
Biphenyl (Diphenyl)	NE	NE	NE	mg/kg	0.66 U	0.61 U	9.6 U	6 U	0.58 U	0.58 U	3.6 U
bis(2-Chloroethoxy)methane	NE	NE	NE	mg/kg	0.95 U	0.88 U	14 U	8.7 U	0.83 U	0.83 U	5.2 U
bis(2-Chloroethyl)ether	NE	NE	NE	mg/kg	0.58 U	0.54 U	8.4 U	5.3 U	0.51 U	0.51 U	3.2 U
bis(2-Chloroisopropyl)ether	NE	NE	NE	mg/kg	0.9 U	0.83 U	13 U	8.2 U	0.78 U	0.79 U	4.9 U
bis(2-Ethylhexyl)phthalate	NE	NE	NE	mg/kg	1.5 U	1.4 U	22 U	14 U	1.3 U	1.3 U	8.3 U
Caprolactam	NE	NE	NE	mg/kg	1.3 U	1.2 U	20 U	12 U	1.2 U	1.2 U	7.3 U
Carbazole	NE	NE	NE	mg/kg	0.53 U	0.49 U	7.7 U	4.8 U	0.46 U	0.46 U	2.9 U
Dibenzofuran	1000	NE	210	mg/kg	0.53 U	0.49 U	7.7 U	4.8 U	0.46 U	0.46 U	2.9 U
Diethyl phthalate	NE	NE	NE	mg/kg	0.58 U	0.54 U	8.4 U	5.3 U	0.51 U	0.51 U	3.2 U
Dimethyl phthalate	NE	NE	NE	mg/kg	0.53 U	0.49 U	7.7 U	4.8 U	0.46 U	0.46 U	2.9 U
dI-n-Butyl phthalate	NE	NE	NE	mg/kg	0.77 U	0.71 U	11 U	7 U	0.67 U	0.67 U	4.2 U
dI-n-Octyl phthalate	NE	NE	NE	mg/kg	0.53 U	0.49 U	7.7 U	4.8 U	0.46 U	0.46 U	12 J
Hexachlorobenzene	12	NE	3.2	mg/kg	0.61 U	0.56 U	8.8 U	5.6 U	0.53 U	0.53 U	3.3 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	0.66 U	0.61 U	9.6 U	6 U	0.58 U	0.58 U	3.6 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	0.61 U	0.56 U	8.8 U	5.6 U	0.53 U	0.53 U	3.3 U
Hexachloroethane	NE	NE	NE	mg/kg	0.58 U	0.54 U	8.4 U	5.3 U	0.51 U	0.51 U	3.2 U
Isophorone	NE	NE	NE	mg/kg	0.95 U	0.88 U	14 U	8.7 U	0.83 U	0.83 U	5.2 U
Nitrobenzene	NE	NE	NE	mg/kg	0.5 U	0.47 U	7.3 U	4.6 U	0.44 U	0.44 U	2.7 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	0.77 U	0.71 U	11 U	7 U	0.67 U	0.67 U	4.2 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	3.7 U	3.4 U	53 U	33 U	3.2 U	3.2 U	20 U
Pentachlorophenol	55	0.8	0.8	mg/kg	4.5 U	4.2 U	65 U	41 U	3.9 U	3.9 U	24 U
Phenol	1000	30	0.33	mg/kg	0.69 U	0.64 U	10 U	6.3 U	0.6 U	0.6 U	3.7 U

TABLE 5
SURFACE SOIL ANALYTICAL RESULTS (0-2")
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SS-1 0-2" 5/13/2015	SS-2 0-2" 5/14/2015	SS-3 0-2" 5/13/2015	SS-4 0-2" 5/13/2015	SS-5 0-2" 5/13/2015	SS-5 DUP 0-2" 5/13/2015	SS-6 0-2" 5/13/2015
Inorganic Constituents											
Cyanide, total	10000	NE	40	mg/kg	0.64 U	0.59 U	2.6	0.53 J	2.7	4.2	3.1
Aluminum	NE	NE	NE	mg/kg	13700 B	10500	9410 B	7110 B	8360 B	6460 B	9720
Antimony	NE	NE	NE	mg/kg	0.51 U	0.51 U	0.5 U	0.45 U	0.46 U	0.5 U	0.4 U
Arsenic	16	13	16	mg/kg	6.5	7.7	6.6	**23.5**	9.4	6.7	5.4
Barium	10000	433	820	mg/kg	114	87.9	106	84	134	85	99.1
Beryllium	2700	10	47	mg/kg	0.69	0.66	0.54	0.4	0.033 U	0.063 J	0.5
Cadmium	60	4	8	mg/kg	0.46	0.038 U	0.41	0.17 U	0.3	0.17 J	0.33
Calcium	NE	NE	NE	mg/kg	11000 B	12700 B	3790 B	3880 B	8920 J	59100 J	25000 B
Chromium	NE	NE	19	mg/kg	**35**	17.6	**42**	**75.8**	**28.6**	**22.3**	**79.8**
Cobalt	NE	NE	NE	mg/kg	13.3	11.8	8.7	24.3	22.4	15.3	8.8
Copper	10000	50	1720	mg/kg	34.8	30.6	34.9	**285**	**80.4 J**	39.1 J	**63.5**
Iron	NE	NE	NE	mg/kg	24800 B^	26400 ^B	27500 ^B	175000 B	41600 ^B	31400 ^B	36600 B
Lead	3900	63	450	mg/kg	39.5	28.6	**289**	**701**	**614 J**	**257 J**	**282**
Magnesium	NE	NE	NE	mg/kg	6620 B	5790	3140 B	4600 B	3160 B	4010 B	7170
Manganese	10000	1600	2000	mg/kg	788 B	714 ^B	654 B	1270 B	620 B	565 B	610 B
Nickel	10000	30	130	mg/kg	28	23.6	22.6	**123**	**1410 J**	**650 J**	**32.2**
Potassium	NE	NE	NE	mg/kg	1900	1770	1950	1110	1390	1190	1730
Selenium	6800	4	4	mg/kg	0.51 U	0.51 U	0.5 U	2.2 U	0.46 U	0.5 U	0.4 U
Silver	6800	2	8	mg/kg	0.25 U	0.25 U	0.25 U	0.22 U	0.23 U	0.25 U	0.2 U
Sodium	NE	NE	NE	mg/kg	98.5 J	101 J	260	105 J	901	677	566
Thallium	NE	NE	NE	mg/kg	0.38 U	0.38 U	0.38 U	0.34 U	4.7 J	1.6 J	0.3 U
Vanadium	NE	NE	NE	mg/kg	21.6	23	29.3	62.4	2100 J	1050 J	30.2
Zinc	10000	109	2480	mg/kg	109 B	84.7 ^B	**118 B**	**310 B**	**169 B**	**119 B**	**855 B**
Mercury	5.7	0.18	0.73	mg/kg	0.13	0.015 J	**0.83**	0.1	**1.2**	**1.3**	0.047
Pesticides											
4,4'-DDD	180	0.0033	14	mg/kg	0.021 U	0.0081 U	0.042 U	0.18 U	0.075 U	0.019 U	0.034 U
4,4'-DDE	120	0.0033	17	mg/kg	0.023 U	0.0087 U	0.045 U	0.19 U	0.081 U	0.02 U	0.036 U
4,4'-DDT	94	0.0033	136	mg/kg	0.026 U	0.0097 U	0.05 U	0.21 U	0.09 U	0.023 U	0.041 U
Aldrin	1.40	0.14	0.19	mg/kg	0.027 U	0.01 U	0.053 U	0.22 U	0.094 U	0.024 U	0.043 U
alpha Endosulfan (Endosulfan I)	920	NE	102	mg/kg	0.021 U	0.008 U	0.041 U	0.17 U	0.074 U	0.019 U	0.033 U
beta Endosulfan (Endosulfan II)	920	NE	102	mg/kg	0.02 U	0.0075 U	0.039 U	0.16 U	0.069 U	0.018 U	0.031 U
BHC, alpha	6.80	0.04	0.02	mg/kg	0.02 U	0.0075 U	0.039 U	0.16 U	0.069 U	0.018 U	0.031 U
BHC, beta	14	0.60	0.09	mg/kg	0.02 U	0.0075 U	0.039 U	0.16 U	0.069 U	0.018 U	0.031 U
BHC, delta	1000	0.04	0.25	mg/kg	0.02 U	0.0077 U	0.04 U	0.17 U	0.071 U	0.018 U	0.032 U
BHC, gamma (Lindane)	23	6	0.10	mg/kg	0.02 U	0.0076 U	0.039 U	0.17 U	0.07 U	0.018 U	0.032 U
Chlordane, alpha	47	1.3	2.9	mg/kg	0.055 U	0.021 U	0.11 U	0.45 U	0.19 U	0.048 U	0.086 U
Chlordane, beta	NE	NE	NE	mg/kg	0.035 U	0.013 U	0.068 U	0.29 U	0.12 U	0.031 U	0.055 U
Dieldrin	2.80	0.01	0.10	mg/kg	0.026 U	0.01 U	0.051 U	0.22 U	0.092 U	0.023 U	0.042 U

TABLE 5
SURFACE SOIL ANALYTICAL RESULTS (0-2")
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SS-1 0-2" 5/13/2015	SS-2 0-2" 5/14/2015	SS-3 0-2" 5/13/2015	SS-4 0-2" 5/13/2015	SS-5 0-2" 5/13/2015	SS-5 DUP 0-2" 5/13/2015	SS-6 0-2" 5/13/2015
Endosulfan sulfate	920	NE	1000	mg/kg	0.02 U	0.0078 U	0.04 U	0.17 U	0.072 U	0.018 U	0.032 U
Endrin	410	0.01	0.06	mg/kg	0.022 U	0.0082 U	0.042 U	0.18 U	0.076 U	0.019 U	0.034 U
Endrin aldehyde	NE	NE	NE	mg/kg	0.028 U	0.011 U	0.055 U	0.23 U	0.098 U	0.025 U	0.044 U
Endrin ketone	NE	NE	NE	mg/kg	0.027 U	0.01 U	0.053 U	0.22 U	0.094 U	0.024 U	0.043 U
Heptachlor	29	0.14	0.38	mg/kg	0.024 U	0.009 U	0.046 U	0.2 U	0.083 U	0.021 U	0.038 U
Heptachlor epoxide	NE	NE	NE	mg/kg	0.028 U	0.011 U	0.055 U	0.23 U	0.099 U	0.025 U	0.045 U
Methoxychlor	NE	NE	NE	mg/kg	0.022 U	0.089 J	0.044 U	0.19 U	0.078 U	0.02 U	0.035 U
Toxaphene	NE	NE	NE	mg/kg	0.64 U	0.24 U	1.2 U	5.3 U	2.2 U	0.57 U	1 U
Polychlorinated Biphenyls (PCBs)											
Aroclor 1016	NE	NE	NE	mg/kg	0.058 U	0.041 U	0.052 U	0.048 U	0.053 U	0.048 U	0.043 U
Aroclor 1221	NE	NE	NE	mg/kg	0.058 U	0.041 U	0.052 U	0.048 U	0.053 U	0.048 U	0.043 U
Aroclor 1232	NE	NE	NE	mg/kg	0.058 U	0.041 U	0.052 U	0.048 U	0.053 U	0.048 U	0.043 U
Aroclor 1242	NE	NE	NE	mg/kg	0.058 U	0.041 U	0.052 U	0.048 U	0.053 U	0.048 U	0.043 U
Aroclor 1248	NE	NE	NE	mg/kg	0.091 J	0.041 U	0.1 J	0.048 U	0.053 U	0.048 U	0.043 U
Aroclor 1254	NE	NE	NE	mg/kg	0.14 U	0.098 U	0.12 U	0.12 U	0.13 U	0.11 U	0.16 J
Aroclor 1260	NE	NE	NE	mg/kg	0.14 U	0.098 U	0.12 U	0.12 U	0.13 U	0.11 U	0.1 U
Total PCBs	NE	NE	3.2	mg/kg	0.091 J	ND	0.1 J	ND	ND	ND	0.16 J

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
NJ - The result is tentative in indentification and estimated in value.
^ - Instrument related Quality Control (QC) is outside acceptance limits.
B - Constituent was found in the blank and the sample.

NE - Not established.
ND - Not Detected
(a) - City of Troy Official Zoning Map (City of Troy NY Bureau of Information Services, 2014)

Boxed and bolded values indicate concentrations above New York State Subpart 375 Soil Cleanup Objectives for: Protection of Public Health for Industrially Zoned Properties, Protection of Ecological Resources, and/or Protection of Groundwater.

TABLE 5
SURFACE SOIL ANALYTICAL RESULTS (0-2")
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SS-7 0-2" 5/13/2015	SS-8 0-2" 5/13/2015	SS-9 0-2" 5/13/2015	SS-10 0-2" 5/13/2015	SS-11 0-2" 5/14/2015	SS-11 DUP 0-2" 5/14/2015	SS-12 0-2" 5/14/2015
Semi-volatile Organic Compounds (SVOCs)											
Polycyclic Aromatic Hydrocarbons (PAHs)											
Acenaphthene	1000	20	98	mg/kg	**90 J**	5.2 U	0.52 U	1.3 U	0.53 U	0.53 U	0.52 U
Acenaphthylene	1000	NE	107	mg/kg	15 U	12 J	2.1 J	2.1 J	1.2 J	1.1 J	0.8 J
Anthracene	1000	NE	1000	mg/kg	210	8.8 U	2.7 J	2.3 U	1 J	0.97 J	0.87 U
Benzo(a)anthracene	11	NE	1	mg/kg	**770**	**33 J**	**11**	**9.1 J**	**4.9**	**5.6**	**2.7 J**
Benzo(a)pyrene	1	2.6	22	mg/kg	**1100**	**28 J**	**8.9**	**9.3**	**4**	**4.3**	**2.1 J**
Benzo(b)fluoranthene	11	NE	1.7	mg/kg	**960**	**31 J**	**11**	**9.9**	**5.1**	**6.7**	**3.4 J**
Benzo(g,h,i)perylene	1000	NE	1000	mg/kg	430	14 J	5.1	4.6 J	2 J	2 J	1.3 J
Benzo(k)fluoranthene	110	NE	1.7	mg/kg	**670**	**16 J**	**5.1**	**5.7 J**	**2.9 J**	**2.2 J**	1.2 J
Chrysene	110	NE	1	mg/kg	**790**	**26 J**	**11**	**8.5 J**	**4.9**	**5.1**	**2.5 J**
Dibenz(a,h)anthracene	1.10	NE	1000	mg/kg	**170**	6.3 U	0.62 U	1.6 U	0.63 U	0.97 J	0.62 U
Fluoranthene	1000	NE	1000	mg/kg	840	29 J	14	11	7	6.5	3.3 J
Fluorene	1000	30	386	mg/kg	**48 J**	4.2 U	1.3 J	1.1 U	0.42 U	0.45 J	0.42 U
Indeno(1,2,3-c,d)pyrene	11	NE	8.2	mg/kg	**470**	**14 J**	5.2	4.8 J	2.2 J	2 J	1.3 J
Naphthalene	1000	NE	NE	mg/kg	89 J	4.6 U	0.87 J	1.9 J	0.46 U	0.66 J	0.46 U
Phenanthrene	1000	NE	1000	mg/kg	520	13 J	12	6.6 J	4.1	5.3	1.7 J
Pyrene	1000	NE	1000	mg/kg	810	40	16	14	6.1	7	3.2 J
2-Methylnaphthalene	NE	NE	NE	mg/kg	31 J	7.1 U	0.71 U	1.8 U	0.72 U	0.72 U	0.71 U
Total PAHs	NE	NE	NE	mg/kg	7998	256	106	88	45	51	24 J
Other SVOCs											
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	31 U	9.6 U	0.96 U	2.5 U	0.97 U	0.97 U	0.95 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	23 U	7.1 U	0.71 U	1.8 U	0.72 U	0.72 U	0.71 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	12 U	3.8 U	0.37 U	0.97 U	0.38 U	0.38 U	0.37 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	28 U	8.5 U	0.85 U	2.2 U	0.86 U	0.86 U	0.85 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	530 U	160 U	16 U	42 U	17 U	16 U	16 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	24 U	7.3 U	0.73 U	1.9 U	0.74 U	0.74 U	0.73 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	14 U	4.2 U	0.42 U	1.1 U	0.42 U	0.42 U	0.42 U
2-Chloronaphthalene	NE	NE	NE	mg/kg	19 U	5.8 U	0.58 U	1.5 U	0.59 U	0.59 U	0.58 U
2-Chlorophenol	NE	NE	NE	mg/kg	21 U	6.5 U	0.64 U	1.7 U	0.65 U	0.65 U	0.64 U
2-Methylphenol (o-cresol)	1000	NE	0.33	mg/kg	14 U	4.2 U	0.42 U	1.1 U	0.42 U	0.42 U	0.42 U
2-Nitroaniline	NE	NE	NE	mg/kg	17 U	5.2 U	0.52 U	1.3 U	0.53 U	0.53 U	0.52 U
2-Nitrophenol	NE	NE	NE	mg/kg	33 U	10 U	1 U	2.6 U	1 U	1 U	1 U
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	140 U	42 U	4.2 U	11 U	4.2 U	4.2 U	4.2 U
3-Nitroaniline	NE	NE	NE	mg/kg	32 U	9.8 U	0.98 U	2.5 U	0.99 U	0.99 U	0.98 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	120 U	35 U	3.5 U	9.2 U	3.6 U	3.6 U	3.5 U
4-Bromophenyl phenyl ether	NE	NE	NE	mg/kg	16 U	5 U	0.5 U	1.3 U	0.51 U	0.5 U	0.5 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	28 U	8.8 U	0.87 U	2.3 U	0.89 U	0.88 U	0.87 U

TABLE 5
SURFACE SOIL ANALYTICAL RESULTS (0-2")
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SS-7 0-2" 5/13/2015	SS-8 0-2" 5/13/2015	SS-9 0-2" 5/13/2015	SS-10 0-2" 5/13/2015	SS-11 0-2" 5/14/2015	SS-11 DUP 0-2" 5/14/2015	SS-12 0-2" 5/14/2015
4-Chloroaniline	NE	NE	NE	mg/kg	28 U	8.8 U	0.87 U	2.3 U	0.89 U	0.88 U	0.87 U
4-Chlorophenyl phenyl ether	NE	NE	NE	mg/kg	14 U	4.4 U	0.44 U	1.1 U	0.44 U	0.44 U	0.44 U
4-Methylphenol	1000	NE	0.33	mg/kg	14 U	4.2 U	0.42 U	1.1 U	0.42 U	0.42 U	0.42 U
4-Nitroaniline	NE	NE	NE	mg/kg	60 U	19 U	1.9 U	4.8 U	1.9 U	1.9 U	1.8 U
4-Nitrophenol	NE	NE	NE	mg/kg	81 U	25 U	2.5 U	6.4 U	2.5 U	2.5 U	2.5 U
Acetophenone	NE	NE	NE	mg/kg	16 U	4.8 U	0.48 U	1.2 U	0.49 U	0.48 U	0.48 U
Atrazine	NE	NE	NE	mg/kg	40 U	12 U	1.2 U	3.2 U	1.2 U	1.2 U	1.2 U
Benzaldehyde	NE	NE	NE	mg/kg	92 U	28 U	2.8 U	7.3 U	2.8 U	2.8 U	2.8 U
Benzyl butyl phthalate	NE	NE	NE	mg/kg	19 U	5.8 U	0.58 U	1.5 U	0.59 U	0.59 U	0.58 U
Biphenyl (Diphenyl)	NE	NE	NE	mg/kg	17 U	5.2 U	0.52 U	1.3 U	0.53 U	0.53 U	0.52 U
bis(2-Chloroethoxy)methane	NE	NE	NE	mg/kg	24 U	7.5 U	0.75 U	1.9 U	0.76 U	0.76 U	0.75 U
bis(2-Chloroethyl)ether	NE	NE	NE	mg/kg	15 U	4.6 U	0.46 U	1.2 U	0.46 U	0.46 U	0.46 U
bis(2-Chloroisopropyl)ether	NE	NE	NE	mg/kg	23 U	7.1 U	0.71 U	1.8 U	0.72 U	0.72 U	0.71 U
bis(2-Ethylhexyl)phthalate	NE	NE	NE	mg/kg	39 U	12 U	1.2 U	3.1 U	1.2 U	1.2 U	1.2 U
Caprolactam	NE	NE	NE	mg/kg	35 U	11 U	1.1 U	2.7 U	1.1 U	1.1 U	1.1 U
Carbazole	NE	NE	NE	mg/kg	100 J	4.2 U	1.1 J	1.1 U	0.43 J	0.42 U	0.42 U
Dibenzofuran	1000	NE	210	mg/kg	54 J	4.2 U	0.7 J	1.1 U	0.42 U	0.42 U	0.42 U
Diethyl phthalate	NE	NE	NE	mg/kg	15 U	4.6 U	0.46 U	1.2 U	0.46 U	0.46 U	0.46 U
Dimethyl phthalate	NE	NE	NE	mg/kg	14 U	4.2 U	0.42 U	1.1 U	0.42 U	0.42 U	0.42 U
dI-n-Butyl phthalate	NE	NE	NE	mg/kg	20 U	6 U	0.6 U	1.6 U	0.61 U	0.61 U	0.6 U
dI-n-Octyl phthalate	NE	NE	NE	mg/kg	14 U	4.2 U	0.42 U	1.1 U	0.42 U	0.42 U	0.42 U
Hexachlorobenzene	12	NE	3.2	mg/kg	16 U	4.8 U	0.48 U	1.2 U	0.49 U	0.48 U	0.48 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	17 U	5.2 U	0.52 U	1.3 U	0.53 U	0.53 U	0.52 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	16 U	4.8 U	0.48 U	1.2 U	0.49 U	0.48 U	0.48 U
Hexachloroethane	NE	NE	NE	mg/kg	15 U	4.6 U	0.46 U	1.2 U	0.46 U	0.46 U	0.46 U
Isophorone	NE	NE	NE	mg/kg	24 U	7.5 U	0.75 U	1.9 U	0.76 U	0.76 U	0.75 U
Nitrobenzene	NE	NE	NE	mg/kg	13 U	4 U	0.39 U	1 U	0.4 U	0.4 U	0.39 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	20 U	6 U	0.6 U	1.6 U	0.61 U	0.61 U	0.6 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	94 U	29 U	2.9 U	7.4 U	2.9 U	2.9 U	2.9 U
Pentachlorophenol	55	0.8	0.8	mg/kg	120 U	35 U	3.5 U	9.2 U	3.6 U	3.6 U	3.5 U
Phenol	1000	30	0.33	mg/kg	18 U	5.4 U	0.54 U	1.4 U	0.55 U	0.55 U	0.54 U

TABLE 5
SURFACE SOIL ANALYTICAL RESULTS (0-2")
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SS-7 0-2" 5/13/2015	SS-8 0-2" 5/13/2015	SS-9 0-2" 5/13/2015	SS-10 0-2" 5/13/2015	SS-11 0-2" 5/14/2015	SS-11 DUP 0-2" 5/14/2015	SS-12 0-2" 5/14/2015
Inorganic Constituents											
Cyanide, total	10000	NE	40	mg/kg	0.75 J	0.61 J	0.46 U	0.51 U	0.51 U	0.51 UJ	0.5 U
Aluminum	NE	NE	NE	mg/kg	2340	9620 B	7170 B	5880 B	8230	7940	8950
Antimony	NE	NE	NE	mg/kg	0.43 U	0.39 U	2 U	2 U	6.7 J	0.4 U	0.43 U
Arsenic	16	13	16	mg/kg	**17.9**	7.2	**28.9**	**30**	11.8	10.4	9
Barium	10000	433	820	mg/kg	43.4	89.2	99.1	70	81.5	90.9	115
Beryllium	2700	10	47	mg/kg	0.19 J	0.58	1.1	0.83 J	0.64	0.57	0.88
Cadmium	60	4	8	mg/kg	0.047 J	0.17 J	0.15 U	0.15 U	0.13 J	0.08 J	0.032 U
Calcium	NE	NE	NE	mg/kg	429 B	3230 B	5970 B	5120 B	23100 J	12700 J	19500 B
Chromium	NE	NE	19	mg/kg	5.7	**20**	**38.9**	**52.3**	**30**	**44.8**	**52**
Cobalt	NE	NE	NE	mg/kg	2.4	8.2	10	10.1	9.1	9	9
Copper	10000	50	1720	mg/kg	13.8	28.1	27.8	**110**	**50.9**	**60.2**	**59.1**
Iron	NE	NE	NE	mg/kg	15400 B	23900 ^B	110000 B^	85100 B^	34600 ^B	45000 B	48400 ^B
Lead	3900	63	450	mg/kg	53.9	**200**	**127**	**391**	**386**	**403**	**221**
Magnesium	NE	NE	NE	mg/kg	570	2900 B	2790 B	2190 B	5130	4510 B	5040
Manganese	10000	1600	2000	mg/kg	142 B	518 B	**2040 B^**	1500 B^	458 ^B	738 B	735 ^B
Nickel	10000	30	130	mg/kg	7.9	29.3	24.7	**64.2**	**32.1**	**35.7**	**48.8**
Potassium	NE	NE	NE	mg/kg	508	1310	1130	795	1560	1410	1590
Selenium	6800	4	4	mg/kg	0.49 J	0.39 U	2 U	2 U	0.43 U	0.4 U	0.43 U
Silver	6800	2	8	mg/kg	0.21 U	0.2 U	1 U	0.99 U	0.21 U	0.2 U	0.21 U
Sodium	NE	NE	NE	mg/kg	47.1 J	92.5 J	334 J	237 J	164	140 J	314
Thallium	NE	NE	NE	mg/kg	0.32 U	0.29 U	1.5 U	1.5 U	0.32 U	0.3 U	0.32 U
Vanadium	NE	NE	NE	mg/kg	12.7	34.2	134	133	35.7	36.8	53.4
Zinc	10000	109	2480	mg/kg	25.6 B	**113 B**	78.9 B	**119 B**	**139 ^B**	**151 B**	**159 ^B**
Mercury	5.7	0.18	0.73	mg/kg	0.052	0.1	0.15	0.079	0.076	0.11	0.077
Pesticides											
4,4'-DDD	180	0.0033	14	mg/kg	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U
4,4'-DDE	120	0.0033	17	mg/kg	0.018 U	0.018 U	0.018 U	0.019 U	0.018 U	0.018 U	0.018 U
4,4'-DDT	94	0.0033	136	mg/kg	**0.024 NJ**	**0.032 J**	0.02 U	**0.04 J**	0.02 U	0.021 U	0.02 U
Aldrin	1.40	0.14	0.19	mg/kg	0.021 U	0.021 U	0.021 U	0.022 U	0.022 U	0.022 U	0.021 U
alpha Endosulfan (Endosulfan I)	920	NE	102	mg/kg	0.017 U	0.016 U	0.017 U	0.017 U	0.017 U	0.017 U	0.017 U
beta Endosulfan (Endosulfan II)	920	NE	102	mg/kg	0.016 U	0.015 U	0.016 U	0.016 U	0.016 U	0.016 U	0.015 U
BHC, alpha	6.80	0.04	0.02	mg/kg	0.016 U	0.015 U	0.016 U	0.016 U	0.016 U	0.016 U	0.015 U
BHC, beta	14	0.60	0.09	mg/kg	0.016 U	0.015 U	0.016 U	0.016 U	0.016 U	0.016 U	0.015 U
BHC, delta	1000	0.04	0.25	mg/kg	0.016 U	0.016 U	0.016 U	0.017 U	0.016 U	0.016 U	0.016 U
BHC, gamma (Lindane)	23	6	0.10	mg/kg	0.016 U	0.016 U	0.016 U	0.09 U	0.016 U	0.016 U	0.016 U
Chlordane, alpha	47	1.3	2.9	mg/kg	0.043 U	0.042 U	0.043 U	0.045 U	0.044 U	0.044 U	0.043 U
Chlordane, beta	NE	NE	NE	mg/kg	0.028 U	0.027 U	0.028 U	0.029 U	0.028 U	0.028 U	0.027 U
Dieldrin	2.80	0.01	0.10	mg/kg	0.021 U	0.02 U	0.021 U	0.022 U	0.021 U	0.021 U	0.021 U

TABLE 5
SURFACE SOIL ANALYTICAL RESULTS (0-2")
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

	Soil Cleanup Objectives [6 NYCRR Subpart 375-6]										
Constituent	Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SS-7 0-2" 5/13/2015	SS-8 0-2" 5/13/2015	SS-9 0-2" 5/13/2015	SS-10 0-2" 5/13/2015	SS-11 0-2" 5/14/2015	SS-11 DUP 0-2" 5/14/2015	SS-12 0-2" 5/14/2015
Endosulfan sulfate	920	NE	1000	mg/kg	0.016 U	0.085 U	0.016 U	0.017 U	0.016 U	0.016 U	0.016 U
Endrin	410	0.01	0.06	mg/kg	0.017 U	0.017 U	0.017 U	0.018 U	0.017 U	0.017 U	0.017 U
Endrin aldehyde	NE	NE	NE	mg/kg	0.022 U	0.022 U	0.022 U	0.023 U	0.022 U	0.022 U	0.022 U
Endrin ketone	NE	NE	NE	mg/kg	0.021 U	0.056 NJ	0.021 U	0.026 J	0.022 U	0.022 J	0.021 U
Heptachlor	29	0.14	0.38	mg/kg	0.019 U	0.018 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Heptachlor epoxide	NE	NE	NE	mg/kg	0.022 U	0.022 U	0.022 U	0.023 U	0.023 U	0.023 U	0.022 U
Methoxychlor	NE	NE	NE	mg/kg	0.087 U	0.085 U	0.087 U	0.018 U	0.088 U	0.062 NJ	0.018 U
Toxaphene	NE	NE	NE	mg/kg	0.51 U	0.49 U	0.5 U	0.52 U	0.51 U	0.51 U	0.5 U
Polychlorinated Biphenyls (PCBs)											
Aroclor 1016	NE	NE	NE	mg/kg	0.048 U	0.05 U	0.044 U	0.039 U	0.046 U	0.037 U	0.04 U
Aroclor 1221	NE	NE	NE	mg/kg	0.048 U	0.05 U	0.044 U	0.039 U	0.046 U	0.037 U	0.04 U
Aroclor 1232	NE	NE	NE	mg/kg	0.048 U	0.05 U	0.044 U	0.039 U	0.046 U	0.037 U	0.04 U
Aroclor 1242	NE	NE	NE	mg/kg	0.048 U	0.05 U	0.044 U	0.039 U	0.046 U	0.037 U	0.04 U
Aroclor 1248	NE	NE	NE	mg/kg	0.048 U	0.05 U	0.044 U	0.039 U	0.046 U	0.037 U	0.04 U
Aroclor 1254	NE	NE	NE	mg/kg	0.12 U	0.12 U	0.1 U	0.094 U	0.11 U	0.088 U	0.096 U
Aroclor 1260	NE	NE	NE	mg/kg	0.12 U	0.12 U	0.1 U	0.094 U	0.11 U	0.088 U	0.096 U
Total PCBs	NE	NE	3.2	mg/kg	ND	ND	ND	ND	ND	ND	ND

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
NJ - The result is tentative in indentification and estimated in value.
^ - Instrument related Quality Control (QC) is outside acceptance limits.
B - Constituent was found in the blank and the sample.

NE - Not established.
ND - Not Detected
(a) - City of Troy Official Zoning Map (City of Troy NY Bureau of Information Services, 2014)

Boxed and bolded values indicate concentrations above New York State Subpart 375 Soil Cleanup Objectives for: Protection of Public Health for Industrially Zoned Properties, Protection of Ecological Resources, and/or Protection of Groundwater.

TABLE 6
SURFACE SOIL ANALYTICAL RESULTS (0-6")
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] (1) Protection of Ecological Resources	USEPA Ecological Soil Screening Levels (2) Soil Inverterbrates	Mammals	Units	SS-1 0-6" 5/13/2015	SS-2 0-6" 5/14/2015	SS-3 0-6" 5/13/2015	SS-4 0-6" 5/13/2015	SS-5 0-6" 5/13/2015	SS-6 0-6" 5/13/2015
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	20	29	100	mg/kg	0.65 U	0.63 U	0.28 U	7.5 U	3.4 U	9.5 U
Acenaphthylene	NE	29	100	mg/kg	0.58 U	0.55 U	2.7	6.6 U	3 U	8.4 U
Anthracene	NE	29	100	mg/kg	1.1 U	1.1 U	4.2	13 U	5.7 UF1F2	16 U
Benzo(a)anthracene	NE	18	1.1	mg/kg	**1.2 J**	**1.7 J**	**5.4**	5.1 U	2.3 UF1F2	6.5 U
Benzo(a)pyrene	2.6	18	1.1	mg/kg	1 J	**1.3 J**	**4.1**	7.5 U	3.4 UF1F2	9.5 U
Benzo(b)fluoranthene	NE	18	1.1	mg/kg	**1.5 J**	**2 J**	**5.7**	8.1 U	3.7 UF1F2	10 U
Benzo(g,h,i)perylene	NE	18	1.1	mg/kg	0.47 U	0.54 J	**2.2**	5.4 U	2.5 UF1F2	6.9 U
Benzo(k)fluoranthene	NE	18	1.1	mg/kg	0.58 U	0.55 U	**1.9**	6.6 U	3 UF1F2	8.4 U
Chrysene	NE	18	1.1	mg/kg	**1.4 J**	**1.8 J**	**5.4**	11 U	5.2 UF1F2	14 U
Dibenz(a,h)anthracene	NE	18	1.1	mg/kg	0.78 U	0.75 U	0.34 U	9 U	4.1 UF2	11 U
Fluoranthene	NE	18	1.1	mg/kg	**2.5 J**	**3.1 J**	**13**	5.4 U	2.5 UF1F2	6.9 U
Fluorene	30	29	100	mg/kg	0.52 U	0.5 U	3.8	6 U	2.7 UF2	7.6 U
Indeno(1,2,3-c,d)pyrene	NE	18	1.1	mg/kg	0.55 U	0.57 J	**2**	6.3 U	2.9 UF1F2	8 U
Naphthalene	NE	29	100	mg/kg	0.58 U	0.55 U	0.94 J	6.6 U	3 U	8.4 U
Phenanthrene	NE	29	100	mg/kg	1.2 J	1.8 J	17	7.5 U	3.4 UF1F2	9.5 U
Pyrene	NE	29	100	mg/kg	1.7 J	2.5 J	8.7	6 U	2.7 UF1F2	7.6 U
2-Methylnaphthalene	NE	NE	NE	mg/kg	0.89 U	0.85 U	0.57 J	10 U	4.6 U	13 U
Total PAHs	NE	NE	NE	mg/kg	11 J	15 J	78	ND	ND	ND
Other SVOCs										
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	1.2 U	1.2 U	0.52 U	14 U	6.3 UF1	18 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	0.89 U	0.85 U	0.38 U	10 U	4.6 UF1F2	13 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	0.47 U	0.45 U	0.2 U	5.4 U	2.5 UF2	6.9 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	1.1 U	1 U	0.46 U	12 U	5.6 U	16 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	20 U	20 U	8.9 U	240 U	110 U	300 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	0.91 U	0.88 U	0.4 U	11 U	4.8 U	13 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	0.52 U	0.5 U	0.23 U	6 U	2.7 UF1	7.6 U
2-Chloronaphthalene	NE	NE	NE	mg/kg	0.73 U	0.7 U	0.32 U	8.4 U	3.8 U	11 U
2-Chlorophenol	NE	NE	NE	mg/kg	0.81 U	0.78 U	0.35 U	9.3 U	4.2 U	12 U
2-Methylphenol (o-cresol)	NE	NE	NE	mg/kg	0.52 U	0.5 U	0.23 U	6 U	2.7 U	7.6 U
2-Nitroaniline	NE	NE	NE	mg/kg	0.65 U	0.63 U	0.28 U	7.5 U	3.4 UF1F2	9.5 U
2-Nitrophenol	NE	NE	NE	mg/kg	1.3 U	1.2 U	0.54 U	14 U	6.6 U	18 U
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	5.2 U	5 U	2.3 U	60 U	27 U	76 U
3-Nitroaniline	NE	NE	NE	mg/kg	1.2 U	1.2 U	0.53 U	14 U	6.4 UF1	18 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	4.4 U	4.3 U	1.9 U	51 U	23 U	65 U
4-Bromophenyl phenyl ether	NE	NE	NE	mg/kg	0.63 U	0.6 U	0.27 U	7.2 U	3.3 U	9.1 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	1.1 U	1.1 U	0.47 U	13 U	5.7 U	16 U
4-Chloroaniline	NE	NE	NE	mg/kg	1.1 U	1.1 U	0.47 U	13 U	5.7 UF1	16 U
4-Chlorophenyl phenyl ether	NE	NE	NE	mg/kg	0.55 U	0.53 U	0.24 U	6.3 U	2.9 U	8 U
4-Methylphenol	NE	NE	NE	mg/kg	0.52 U	0.5 U	0.23 U	6 U	2.7 U	7.6 U

TABLE 6
SURFACE SOIL ANALYTICAL RESULTS (0-6")
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] (1) Protection of Ecological Resources	USEPA Ecological Soil Screening Levels (2) Soil Inverterbrates	Mammals	Units	SS-1 0-6" 5/13/2015	SS-2 0-6" 5/14/2015	SS-3 0-6" 5/13/2015	SS-4 0-6" 5/13/2015	SS-5 0-6" 5/13/2015	SS-6 0-6" 5/13/2015
4-Nitroaniline	NE	NE	NE	mg/kg	2.3 U	2.2 U	1 U	27 U	12 U	34 U
4-Nitrophenol	NE	NE	NE	mg/kg	3.1 U	3 U	1.3 U	36 U	16 UF1	45 U
Acetophenone	NE	NE	NE	mg/kg	0.6 U	0.58 U	0.26 U	6.9 U	3.1 U	8.8 U
Atrazine	NE	NE	NE	mg/kg	1.5 U	1.5 U	0.67 U	18 U	8.1 U	22 U
Benzaldehyde	NE	NE	NE	mg/kg	3.5 U	3.4 U	1.5 U	41 U	18 UF1	51 U
Benzyl butyl phthalate	NE	NE	NE	mg/kg	0.73 U	0.7 U	0.32 U	8.4 U	3.8 U	11 U
Biphenyl (Diphenyl)	NE	NE	NE	mg/kg	0.65 U	0.63 U	0.28 U	7.5 U	3.4 U	9.5 U
bis(2-Chloroethoxy)methane	NE	NE	NE	mg/kg	0.94 U	0.9 U	0.41 U	11 U	4.9 UF2	14 U
bis(2-Chloroethyl)ether	NE	NE	NE	mg/kg	0.58 U	0.55 U	0.25 U	6.6 U	3 U	8.4 U
bis(2-Chloroisopropyl)ether	NE	NE	NE	mg/kg	0.89 U	0.85 U	0.38 U	10 U	4.6 U	13 U
bis(2-Ethylhexyl)phthalate	NE	NE	NE	mg/kg	1.5 U	1.5 U	0.66 U	17 U	7.9 U	22 U
Caprolactam	NE	NE	NE	mg/kg	1.3 U	1.3 U	0.58 U	15 U	7 U	19 U
Carbazole	NE	NE	NE	mg/kg	0.52 U	0.5 U	1.9	6 U	2.7 UF2	7.6 U
Dibenzofuran	NE	NE	NE	mg/kg	0.52 U	0.5 U	2	6 U	2.7 U	7.6 U
Diethyl phthalate	NE	NE	NE	mg/kg	0.58 U	0.55 U	0.25 U	6.6 U	3 U	8.4 U
Dimethyl phthalate	NE	NE	NE	mg/kg	0.52 U	0.5 U	0.23 U	6 U	2.7 UF2	7.6 U
dI-n-Butyl phthalate	NE	NE	NE	mg/kg	0.76 U	0.73 U	0.33 U	8.7 U	4 U	11 U
dI-n-Octyl phthalate	NE	NE	NE	mg/kg	0.52 U	0.5 U	0.23 U	6 U	2.7 UF2	7.6 U
Hexachlorobenzene	NE	NE	NE	mg/kg	0.6 U	0.58 U	0.26 U	6.9 U	3.1 U	8.8 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	0.65 U	0.63 U	0.28 U	7.5 U	3.4 U	9.5 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	0.6 U	0.58 U	0.26 U	6.9 U	3.1 UF1	8.8 U
Hexachloroethane	NE	NE	NE	mg/kg	0.58 U	0.55 U	0.25 U	6.6 U	3 U	8.4 U
Isophorone	NE	NE	NE	mg/kg	0.94 U	0.9 U	0.41 U	11 U	4.9 U	14 U
Nitrobenzene	NE	NE	NE	mg/kg	0.5 U	0.48 U	0.21 U	5.7 U	2.6 U	7.2 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	0.76 U	0.73 U	0.33 U	8.7 U	4 U	11 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	3.6 U	3.5 U	1.6 U	42 U	19 UF1	53 U
Pentachlorophenol	0.8	31	2.8	mg/kg	4.4 U	4.3 U	1.9 U	51 U	23 U	65 U
Phenol	30	NE	NE	mg/kg	0.68 U	0.65 U	0.29 U	7.8 U	3.6 U	9.9 U
Inorganic Constituents				mg/kg						
Cyanide, total	NE	NE	NE	mg/kg	0.63 U	0.6 U	0.63 J	1.2	2.8	0.53 U
Aluminum	NE	NE	NE	mg/kg	13500	12000	5310	7340 B	6270 J	11200
Antimony	NE	78	0.27	mg/kg	0.52 UJ	0.53 U	0.46 U	0.46 U	0.46 UJ	0.46 U
Arsenic	13	NE	46	mg/kg	7.2 F1	6.4	4.7	**21.4**	9.6 J	6.2
Barium	433	330	2000	mg/kg	116 F1	103	81.7	99.2	129	**425**
Beryllium	10	40	21	mg/kg	0.77 F1	0.71	0.36	0.42	0.032 UF1	0.59
Cadmium	4	140	0.36	mg/kg	**0.43 F1**	0.065 J	0.2 J	0.17 U	**0.38 F1**	**0.55**
Calcium	NE	NE	NE	mg/kg	11000 B	3210 B	1940 B	5270 B	29800 F2B	21400 B
Chromium	NE	NE	34	mg/kg	**34.2**	20.6	23.8	**64.4**	**60.8 J**	**72.3**
Cobalt	NE	NE	230	mg/kg	12.8	12.4	7.5	24.9	23.9	9.9
Copper	50	80	49	mg/kg	35.8 F1	30.4	25.1	**257**	**125** J	**77.9**
Iron	NE	NE	NE	mg/kg	23600 B	26800 ^B	20700 B	201000 **B**	56500 **J**	40500 B
Lead	63	1700	56	mg/kg	46.7 J	**94.1**	**107**	**2540**	**307**	**468**

TABLE 6
SURFACE SOIL ANALYTICAL RESULTS (0-6")
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] (1) Protection of Ecological Resources	USEPA Ecological Soil Screening Levels (2) Soil Inverterbrates	Mammals	Units	SS-1 0-6" 5/13/2015	SS-2 0-6" 5/14/2015	SS-3 0-6" 5/13/2015	SS-4 0-6" 5/13/2015	SS-5 0-6" 5/13/2015	SS-6 0-6" 5/13/2015
Magnesium	NE	NE	NE	mg/kg	6380 J	6160	1470	3810 B	7850 J	8490
Manganese	1600	450	4000	mg/kg	**873 J**	**969 ^B**	411 B	**1320 B**	**707 J**	**547 B**
Nickel	30	280	130	mg/kg	26.5 F1	28.4	10.5	**103**	**731 J**	**46.3**
Potassium	NE	NE	NE	mg/kg	2120 J	2260	1590	1190	1090 J	1880
Selenium	3.9	4.1	0.63	mg/kg	0.52 UF1	0.53 U	0.46 U	2.3 U	0.46 UJ	0.46 U
Silver	2	NE	14	mg/kg	0.26 UF1	0.26 U	0.36 J	0.23 U	0.23 UF1	0.23 U
Sodium	NE	NE	NE	mg/kg	121 JF1	69.7 J	259	123 J	978 J	778
Thallium	NE	NE	NE	mg/kg	0.39 U	0.4 U	0.35 U	0.34 U	3.7 J	0.34 U
Vanadium	NE	NE	280	mg/kg	22.9	27.7	25.7	82.7	**1580 F2**	63.5
Zinc	109	120	79	mg/kg	**107 J**	**175 ^B**	53.2 B	**486** B	**243 J**	**946 B**
Mercury	0.18	NE	NE	mg/kg	0.12	0.031	**0.63**	0.1	**0.98 F1**	0.068
Pesticides										
4,4'-DDD	0.0033	NE	0.021	mg/kg	0.021 U	0.02 U	0.019 U	0.19 U	0.018 UF1	0.035 U
4,4'-DDE	0.0033	NE	0.021	mg/kg	0.023 U	0.022 U	0.02 U	0.2 U	0.02 U	0.038 U
4,4'-DDT	0.0033	NE	0.021	mg/kg	**0.025 J**	0.024 U	**0.022 J**	0.23 U	0.022 UF1F2	0.042 U
Aldrin	0.14	NE	NE	mg/kg	0.027 U	0.026 U	0.023 U	0.24 U	0.023 U	0.044 U
alpha Endosulfan (Endosulfan I)	NE	NE	NE	mg/kg	0.021 U	0.02 U	0.018 U	0.19 U	0.018 UF1	0.035 U
beta Endosulfan (Endosulfan II)	NE	NE	NE	mg/kg	0.02 U	0.019 U	0.017 U	0.17 U	0.017 UF1	0.033 U
BHC, alpha	0.04	NE	NE	mg/kg	0.02 U	0.019 U	0.017 U	0.17 U	0.017 UF1F2	0.033 U
BHC, beta	0.6	NE	NE	mg/kg	0.02 U	0.019 U	0.017 U	0.17 U	0.017 UF1	0.033 U
BHC, delta	0.04	NE	NE	mg/kg	0.02 U	0.019 U	0.018 U	0.18 U	0.017 UF1F2	0.034 U
BHC, gamma (Lindane)	6	NE	NE	mg/kg	0.02 U	0.019 U	0.017 U	0.18 U	0.017 UF1	0.033 U
Chlordane, alpha	1.3	NE	NE	mg/kg	0.054 U	0.052 U	0.047 U	0.48 U	0.046 U	0.09 U
Chlordane, beta	NE	NE	NE	mg/kg	0.034 U	0.033 U	0.03 U	0.31 U	0.03 U	0.057 U
Dieldrin	0.006	NE	0.0049	mg/kg	0.026 U	0.025 U	0.023 U	0.23 U	0.022 U	0.043 U
Endosulfan sulfate	NE	NE	NE	mg/kg	0.02 U	0.019 U	0.018 U	0.18 U	0.017 UF1	0.034 U
Endrin	0.014	NE	NE	mg/kg	0.021 U	0.021 U	0.019 U	0.19 U	0.018 U	0.036 U
Endrin aldehyde	NE	NE	NE	mg/kg	0.028 U	0.027 U	0.024 U	0.25 U	0.024 U	0.046 U
Endrin ketone	NE	NE	NE	mg/kg	0.027 U	0.026 U	0.023 U	0.24 U	0.023 U	0.044 U
Heptachlor	0.14	NE	NE	mg/kg	0.023 U	0.022 U	0.021 U	0.21 U	0.02 U	0.039 U
Heptachlor epoxide	NE	NE	NE	mg/kg	0.028 U	0.027 U	0.025 U	0.25 U	0.024 U	0.047 U
Methoxychlor	NE	NE	NE	mg/kg	0.022 U	0.021 U	0.019 U	0.2 U	0.019 U	0.037 U
Toxaphene	NE	NE	NE	mg/kg	0.63 U	0.6 U	0.55 U	5.6 U	0.54 U	1.1 U

TABLE 6
SURFACE SOIL ANALYTICAL RESULTS (0-6")
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] (1) Protection of Ecological Resources	USEPA Ecological Soil Screening Levels (2) Soil Inverterbrates	Mammals	Units	SS-1 0-6" 5/13/2015	SS-2 0-6" 5/14/2015	SS-3 0-6" 5/13/2015	SS-4 0-6" 5/13/2015	SS-5 0-6" 5/13/2015	SS-6 0-6" 5/13/2015
Polychlorinated Biphenyls (PCBs)										
Aroclor 1016	NE	NE	NE	mg/kg	0.05 U	0.051 U	0.05 U	0.054 U	0.053 U	0.049 U
Aroclor 1221	NE	NE	NE	mg/kg	0.05 U	0.051 U	0.05 U	0.054 U	0.053 U	0.049 U
Aroclor 1232	NE	NE	NE	mg/kg	0.05 U	0.051 U	0.05 U	0.054 U	0.053 U	0.049 U
Aroclor 1242	NE	NE	NE	mg/kg	0.05 U	0.051 U	0.05 U	0.054 U	0.053 U	0.049 U
Aroclor 1248	NE	NE	NE	mg/kg	0.071 J	0.051 U	0.069 J	0.054 U	0.053 U	0.049 U
Aroclor 1254	NE	NE	NE	mg/kg	0.12 U	0.12 U	0.12 U	0.13 U	0.13 U	0.12 U
Aroclor 1260	NE	NE	NE	mg/kg	0.12 U	0.12 U	0.12 U	0.13 U	0.13 U	0.12 U
Total PCBs	NE	NE	NE	mg/kg	0.071 J	ND	0.069 J	ND	ND	ND

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the reporting limit but greater than or equal to the method detection limit.
B - Constituent was found in the blank and the sample.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
F2 - MS/MSD Relative Percent Difference (RPD) exceeds control limits.
^ - Instrument related Quality Control (QC) is outside acceptance limits.

NE - Not established.
ND - Not Detected

Boxed and bolded values indicate concentrations are above one or more of the following criteria: 1) New York State Subpart 375 Soil Cleanup Objectives for
Protection of Ecological Resources, 2) USEPA Ecological Soil Screening Levels for PAHs, select pesticides and metals (Soil Invertebrates), or 3) USEPA Ecological Screening Levels for PAHs, select pesticides and metals (Mammals).

(1) - 6NYCRR Subpart 375-6.
(2) - Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs) (USEPA, 2007g), Pentachlorophenol (USEPA, 2007f), Antimony (USEPA, 2005a), Arsenic (USEPA, 2005d), Barium (USEPA, 2005b), Beryllium (USEPA, 2005c), Cadmium (USEPA, 2005e), Chromium (USEPA, 2008), Cobalt (USEPA, 2005f), Copper (USEPA, 2007a), Lead (USEPA, 2005g), Manganese (USEPA, 2007e), Nickel (USEPA, 2007b), Selenium (USEPA, 2007i), Silver (USEPA, 2006), Vanadium (USEPA, 2005h), Zinc (USEPA, 2007h), 4,4'-DDD (USEPA, 2007c), 4,4'-DDE (USEPA, 2007c), 4,4'-DDT,(USEPA, 2007c), and Dieldrin (USEPA, 2007d)

TABLE 6
SURFACE SOIL ANALYTICAL RESULTS (0-6")
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] (1) Protection of Ecological Resources	USEPA Ecological Soil Screening Levels (2) Soil Inverterbrates	Mammals	Units	SS-7 0-6" 5/13/2015	SS-8 0-6" 5/13/2015	SS-9 0-6" 5/13/2015	SS-10 0-6" 5/13/2015	SS-11 0-6" 5/14/2015	SS-12 0-6" 5/14/2015
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	20	29	100	mg/kg	**44 J**	1.3 U	0.53 U	4.7 U	0.69 JF1	0.53 U
Acenaphthylene	NE	29	100	mg/kg	18 U	20	1 J	4.2 U	1.2 JF1F2	2 J
Anthracene	NE	29	100	mg/kg	**120 J**	8.1 J	1.2 J	7.9 U	2 JF1F2	0.89 U
Benzo(a)anthracene	NE	18	1.1	mg/kg	**420**	**56**	**5.3**	**12 J**	**8 F2**	**4.3**
Benzo(a)pyrene	2.6	18	1.1	mg/kg	**600**	**46**	**4.3**	**8.9 J**	**6 F1F2**	**3.9**
Benzo(b)fluoranthene	NE	18	1.1	mg/kg	**560**	**46**	**5.6**	**8 J**	**7** F2	**5**
Benzo(g,h,i)perylene	NE	18	1.1	mg/kg	**290**	**20**	**1.7 J**	**4 J**	**3.6 F1F2**	**2 J**
Benzo(k)fluoranthene	NE	18	1.1	mg/kg	**330**	**31**	**2.2 J**	4.2 U	**4.5 F1F2**	**2.6 J**
Chrysene	NE	18	1.1	mg/kg	**440**	**52**	**5.4**	**9.5 J**	**8** F2	**4.7**
Dibenz(a,h)anthracene	NE	18	1.1	mg/kg	**110 J**	1.5 U	0.64 **U**	5.7 U	**1.5 JF1F2**	1 **J**
Fluoranthene	NE	18	1.1	mg/kg	**430**	**55**	**7.9**	**16 J**	**13** F2	**5**
Fluorene	30	29	100	mg/kg	**48 J**	3.3 J	0.68 J	4 J	1.6 **JF1F2**	0.42 U
Indeno(1,2,3-c,d)pyrene	NE	18	1.1	mg/kg	**290**	**20**	**2 J**	**4 J**	**3.7 F1F2**	**2.2 J**
Naphthalene	NE	29	100	mg/kg	**49 J**	5.6 J	0.47 U	4.7 J	0.7 J	0.51 J
Phenanthrene	NE	29	100	mg/kg	**350**	27	6.3	29 J	13 F2	1.9 J
Pyrene	NE	29	100	mg/kg	**390**	**79**	7.6	26 J	13	5
2-Methylnaphthalene	NE	NE	NE	mg/kg	27 U	3.8 J	0.72 U	6.4 U	0.89 JF1F2	0.72 U
Total PAHs	NE	NE	NE	mg/kg	4471	473	51	126 J	88	40
Other SVOCs										
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	37 U	2.3 U	0.97 U	8.7 U	0.94 UF1	0.97 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	27 U	1.7 U	0.72 U	6.4 U	0.69 UF1F2	0.72 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	14 U	0.91 U	0.38 U	3.4 U	0.37 UF2	0.38 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	33 U	2.1 U	0.87 U	7.8 U	0.83 U	0.87 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	630 U	40 U	17 U	150 U	16 U	17 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	28 U	1.8 U	0.74 U	6.6 U	0.71 U	0.74 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	16 U	1 U	0.42 U	3.8 U	0.41 UF1F2	0.42 U
2-Chloronaphthalene	NE	NE	NE	mg/kg	22 U	1.4 U	0.59 U	5.3 U	0.57 UF2	0.59 U
2-Chlorophenol	NE	NE	NE	mg/kg	25 U	1.6 U	0.66 U	5.9 U	0.63 UF2	0.65 U
2-Methylphenol (o-cresol)	NE	NE	NE	mg/kg	16 U	1 U	0.42 U	3.8 U	0.41 U	0.42 U
2-Nitroaniline	NE	NE	NE	mg/kg	20 U	1.3 U	0.53 U	4.7 U	0.51 UF1F2	0.53 U
2-Nitrophenol	NE	NE	NE	mg/kg	39 U	2.4 U	1 U	9.1 U	0.98 U	1 U
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	160 U	10 U	4.2 U	38 U	4.1 U	4.2 U
3-Nitroaniline	NE	NE	NE	mg/kg	38 U	2.4 U	1 U	8.9 U	0.96 UF1	0.99 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	140 U	8.6 U	3.6 U	32 U	3.5 U	3.6 U
4-Bromophenyl phenyl ether	NE	NE	NE	mg/kg	19 U	1.2 U	0.51 U	4.5 U	0.49 UF2	0.51 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	34 U	2.1 U	0.89 U	7.9 U	0.86 UF2	0.89 U
4-Chloroaniline	NE	NE	NE	mg/kg	34 U	2.1 U	0.89 U	7.9 U	0.86 UF1	0.89 U
4-Chlorophenyl phenyl ether	NE	NE	NE	mg/kg	17 U	1.1 U	0.45 U	4 U	0.43 UF2	0.44 U
4-Methylphenol	NE	NE	NE	mg/kg	16 U	1 U	0.42 U	3.8 U	0.41 UF2	0.42 U

TABLE 6
SURFACE SOIL ANALYTICAL RESULTS (0-6")
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] (1) Protection of Ecological Resources	USEPA Ecological Soil Screening Levels (2) Soil Inverterbrates	Mammals	Units	SS-7 0-6" 5/13/2015	SS-8 0-6" 5/13/2015	SS-9 0-6" 5/13/2015	SS-10 0-6" 5/13/2015	SS-11 0-6" 5/14/2015	SS-12 0-6" 5/14/2015
4-Nitroaniline	NE	NE	NE	mg/kg	71 U	4.5 U	1.9 U	17 U	1.8 U	1.9 U
4-Nitrophenol	NE	NE	NE	mg/kg	96 U	6 U	2.5 U	23 U	2.4 UF1	2.5 U
Acetophenone	NE	NE	NE	mg/kg	18 U	1.2 U	0.49 U	4.3 U	0.47 UF2	0.49 U
Atrazine	NE	NE	NE	mg/kg	47 U	3 U	1.3 U	11 U	1.2 UF2	1.2 U
Benzaldehyde	NE	NE	NE	mg/kg	110 U	6.9 U	2.9 U	26 U	2.7 UF1	2.9 U
Benzyl butyl phthalate	NE	NE	NE	mg/kg	22 U	1.4 U	0.59 U	5.3 U	0.57 UF2	0.59 U
Biphenyl (Diphenyl)	NE	NE	NE	mg/kg	20 U	1.3 U	0.53 U	4.7 U	0.51 UF1F2	0.53 U
bis(2-Chloroethoxy)methane	NE	NE	NE	mg/kg	29 U	1.8 U	0.76 U	6.8 U	0.73 UF2	0.76 U
bis(2-Chloroethyl)ether	NE	NE	NE	mg/kg	18 U	1.1 U	0.47 U	4.2 U	0.45 UF2	0.46 U
bis(2-Chloroisopropyl)ether	NE	NE	NE	mg/kg	27 U	1.7 U	0.72 U	6.4 U	0.69 UF2	0.72 U
bis(2-Ethylhexyl)phthalate	NE	NE	NE	mg/kg	47 U	2.9 U	1.2 U	11 U	1.2 UF1F2	1.2 U
Caprolactam	NE	NE	NE	mg/kg	41 U	2.6 U	1.1 U	9.6 U	1 UF2	1.1 U
Carbazole	NE	NE	NE	mg/kg	63 J	1 U	0.49 J	3.8 U	0.68 JF1F2	0.42 U
Dibenzofuran	NE	NE	NE	mg/kg	34 J	1.1 J	0.42 U	3.8 U	0.73 JF1F2	0.42 U
Diethyl phthalate	NE	NE	NE	mg/kg	18 U	1.1 U	0.47 U	4.2 U	0.45 UF2	0.46 U
Dimethyl phthalate	NE	NE	NE	mg/kg	16 U	1 U	0.42 U	3.8 U	0.41 UF2	0.42 U
dI-n-Butyl phthalate	NE	NE	NE	mg/kg	23 U	1.5 U	0.61 U	5.5 U	0.59 UF2	0.61 U
dI-n-Octyl phthalate	NE	NE	NE	mg/kg	16 U	1 U	0.42 U	3.8 U	0.41 UF1	0.42 U
Hexachlorobenzene	NE	NE	NE	mg/kg	18 U	1.2 U	0.49 U	4.3 U	0.47 U	0.49 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	20 U	1.3 U	0.53 U	4.7 U	0.51 U	0.53 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	18 U	1.2 U	0.49 U	4.3 U	0.47 UF1	0.49 U
Hexachloroethane	NE	NE	NE	mg/kg	18 U	1.1 U	0.47 U	4.2 U	0.45 U	0.46 U
Isophorone	NE	NE	NE	mg/kg	29 U	1.8 U	0.76 U	6.8 U	0.73 UF2	0.76 U
Nitrobenzene	NE	NE	NE	mg/kg	15 U	0.97 U	0.4 U	3.6 U	0.39 U	0.4 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	23 U	1.5 U	0.61 U	5.5 U	0.59 UF2	0.61 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	110 U	7 U	2.9 U	26 U	2.8 UF1	2.9 U
Pentachlorophenol	0.8	31	2.8	mg/kg	140 U	8.6 U	3.6 U	32 U	3.5 U	3.6 U
Phenol	30	NE	NE	mg/kg	21 U	1.3 U	0.55 U	4.9 U	0.53 U	0.55 U
Inorganic Constituents				mg/kg						
Cyanide, total	NE	NE	NE	mg/kg	0.51 J	0.93 J	0.49 U	0.5 U	0.5 UJ	0.51 U
Aluminum	NE	NE	NE	mg/kg	2200	9340	8190 B	7120 B	7960 J	11600
Antimony	NE	78	0.27	mg/kg	0.42 U	0.38 U	0.42 U	2.1 U	0.42 UJ	0.43 U
Arsenic	13	NE	46	mg/kg	**24**	7.1	**14.7**	**20.2**	9.1	10.8
Barium	433	330	2000	mg/kg	48.4	95.3	106	78.3	81.3 J	98.5
Beryllium	10	40	21	mg/kg	0.19 J	0.7	0.56	0.94 J	0.56	0.84
Cadmium	4	140	0.36	mg/kg	0.043 J	0.17 J	0.16 U	0.16 U	0.19 J	0.042 J
Calcium	NE	NE	NE	mg/kg	514 B	9040 B	2960 B	6100 B	7190 J	17400 B
Chromium	NE	NE	34	mg/kg	7.3	16	22.5	**49.3**	25.8	28.2
Cobalt	NE	NE	230	mg/kg	2.3	8	12.6	9.8	8	9.4
Copper	50	80	49	mg/kg	15.8	27.7	37.2	46.5	**52.8**	**53.3**
Iron	NE	NE	NE	mg/kg	17800 B	21800 B	64100 B^	91900 B	30900 B^	39900 B
Lead	63	1700	56	mg/kg	**64.6**	**172**	**224**	**729**	**336**	**204**

TABLE 6
SURFACE SOIL ANALYTICAL RESULTS (0-6")
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] (1) Protection of Ecological Resources	USEPA Ecological Soil Screening Levels (2) Soil Inverterbrates	Mammals	Units	SS-7 0-6" 5/13/2015	SS-8 0-6" 5/13/2015	SS-9 0-6" 5/13/2015	SS-10 0-6" 5/13/2015	SS-11 0-6" 5/14/2015	SS-12 0-6" 5/14/2015
Magnesium	NE	NE	NE	mg/kg	430	3370	3260 B	3020 B	4630 J	4110 B
Manganese	1600	450	4000	mg/kg	124 B	366 B	**601 B^**	**1490 B**	442 B^	**829 B**
Nickel	30	280	130	mg/kg	8.5	**30.7**	**32.2**	**38.6**	**31.1**	**32.9**
Potassium	NE	NE	NE	mg/kg	484	1170	1320	1100	1430 J	1340
Selenium	3.9	4.1	0.63	mg/kg	**1.7 J**	0.38 U	0.42 U	2.1 U	0.42 U	0.43 U
Silver	2	NE	14	mg/kg	0.21 U	0.19 U	0.21 U	1 U	0.21 U	0.22 U
Sodium	NE	NE	NE	mg/kg	79.9 J	163	125 J	308 J	149	260
Thallium	NE	NE	NE	mg/kg	0.32 U	0.29 U	0.31 U	1.6 U	0.31 U	0.32 U
Vanadium	NE	NE	280	mg/kg	15.2	33.7	34.6	134	33	46.7
Zinc	109	120	79	mg/kg	27 B	**105 B**	**87 B**	**153 B**	**146 J-**	**123 B**
Mercury	0.18	NE	NE	mg/kg	0.076	0.13	0.11	0.059	0.053 J	0.09
Pesticides										
4,4'-DDD	0.0033	NE	0.021	mg/kg	0.017 U	0.033 U	0.017 U	0.034 U	0.017 UF1	0.017 U
4,4'-DDE	0.0033	NE	0.021	mg/kg	0.019 U	0.036 U	0.019 U	0.037 U	0.018 U	0.018 U
4,4'-DDT	0.0033	NE	0.021	mg/kg	**0.022 J**	0.04 U	0.021 U	**0.051 J**	0.02 U	0.021 U
Aldrin	0.14	NE	NE	mg/kg	0.022 U	0.042 U	0.022 U	0.043 U	0.021 U	0.022 U
alpha Endosulfan (Endosulfan I)	NE	NE	NE	mg/kg	0.017 U	0.033 U	0.017 U	0.034 U	0.017 UF1	0.017 U
beta Endosulfan (Endosulfan II)	NE	NE	NE	mg/kg	0.016 U	0.031 U	0.016 U	0.031 U	0.016 UF1	0.016 U
BHC, alpha	0.04	NE	NE	mg/kg	0.016 U	0.031 U	0.016 U	0.031 U	0.016 UF1	0.016 U
BHC, beta	0.6	NE	NE	mg/kg	0.016 U	0.031 U	0.016 U	0.031 U	0.016 UF1	0.016 U
BHC, delta	0.04	NE	NE	mg/kg	0.017 U	0.032 U	0.016 U	0.033 U	0.016 UF1	0.016 U
BHC, gamma (Lindane)	6	NE	NE	mg/kg	0.016 U	0.031 U	0.016 U	0.032 U	0.016 UF1	0.016 U
Chlordane, alpha	1.3	NE	NE	mg/kg	0.045 U	0.085 U	0.044 U	0.087 U	0.043 U	0.044 U
Chlordane, beta	NE	NE	NE	mg/kg	0.029 U	0.054 U	0.028 U	0.056 U	0.028 U	0.028 U
Dieldrin	0.006	NE	0.0049	mg/kg	0.022 U	0.041 U	0.021 U	0.042 U	0.021 U	0.021 U
Endosulfan sulfate	NE	NE	NE	mg/kg	0.017 U	0.17 U	0.017 U	0.033 U	0.016 UF1	0.016 U
Endrin	0.014	NE	NE	mg/kg	0.018 U	0.034 U	0.018 U	0.035 U	0.017 UF1	0.017 U
Endrin aldehyde	NE	NE	NE	mg/kg	0.023 U	0.043 U	0.023 U	0.045 U	0.022 U	0.022 U
Endrin ketone	NE	NE	NE	mg/kg	0.022 U	0.066 J	0.022 U	0.043 U	0.021 U	0.022 U
Heptachlor	0.14	NE	NE	mg/kg	0.019 U	0.037 U	0.019 U	0.038 U	0.019 U	0.019 U
Heptachlor epoxide	NE	NE	NE	mg/kg	0.023 U	0.044 U	0.023 U	0.045 U	0.023 U	0.023 U
Methoxychlor	NE	NE	NE	mg/kg	0.018 U	0.035 U	0.018 U	0.036 U	0.087 U	0.018 U
Toxaphene	NE	NE	NE	mg/kg	0.52 U	0.99 U	0.52 U	1 U	0.51 U	0.51 U

TABLE 6
SURFACE SOIL ANALYTICAL RESULTS (0-6")
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] (1) Protection of Ecological Resources	USEPA Ecological Soil Screening Levels (2) Soil Inverterbrates	Mammals	Units	SS-7 0-6" 5/13/2015	SS-8 0-6" 5/13/2015	SS-9 0-6" 5/13/2015	SS-10 0-6" 5/13/2015	SS-11 0-6" 5/14/2015	SS-12 0-6" 5/14/2015
Polychlorinated Biphenyls (PCBs)										
Aroclor 1016	NE	NE	NE	mg/kg	0.047 U	0.045 U	0.044 U	0.045 U	0.042 U	0.041 U
Aroclor 1221	NE	NE	NE	mg/kg	0.047 U	0.045 U	0.044 U	0.045 U	0.042 U	0.041 U
Aroclor 1232	NE	NE	NE	mg/kg	0.047 U	0.045 U	0.044 U	0.045 U	0.042 U	0.041 U
Aroclor 1242	NE	NE	NE	mg/kg	0.047 U	0.045 U	0.044 U	0.045 U	0.042 U	0.041 U
Aroclor 1248	NE	NE	NE	mg/kg	0.047 U	0.045 U	0.044 U	0.045 U	0.042 U	0.041 U
Aroclor 1254	NE	NE	NE	mg/kg	0.11 U	0.11 U	0.1 U	0.11 U	0.1 U	0.099 U
Aroclor 1260	NE	NE	NE	mg/kg	0.11 U	0.11 U	0.1 U	0.11 U	0.1 U	0.099 U
Total PCBs	NE	NE	NE	mg/kg	ND	ND	ND	ND	ND	ND

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the reporting limit but greater than or equal to the method detection limit.
B - Constituent was found in the blank and the sample.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
F2 - MS/MSD Relative Percent Difference (RPD) exceeds control limits.
^ - Instrument related Quality Control (QC) is outside acceptance limits.

NE - Not established.
ND - Not Detected

Boxed and bolded values indicate concentrations are above one or more of the following criteria: 1) New York State Subpart 375 Soil Cleanup Objectives for
Protection of Ecological Resources, 2) USEPA Ecological Soil Screening Levels for PAHs, select pesticides and metals (Soil Invertebrates), or 3) USEPA Ecological Screening Levels for PAHs, select pesticides and metals (Mammals).

(1) - 6NYCRR Subpart 375-6.
(2) - Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs) (USEPA, 2007g), Pentachlorophenol (USEPA, 2007f), Antimony (USEPA, 2005a), Arsenic (USEPA, 2005d), Barium (USEPA, 2005b), Beryllium (USEPA, 2005c), Cadmium (USEPA, 2005e), Chromium (USEPA, 2008), Cobalt (USEPA, 2005f), Copper (USEPA, 2007a), Lead (USEPA, 2005g), Manganese (USEPA, 2007e), Nickel (USEPA, 2007b), Selenium (USEPA, 2007i), Silver (USEPA, 2006), Vanadium (USEPA, 2005h), Zinc (USEPA, 2007h), 4,4'-DDD (USEPA, 2007c), 4,4'-DDE (USEPA, 2007c), 4,4'-DDT,(USEPA, 2007c), and Dieldrin (USEPA, 2007d)

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[a]	Protection of Ecological Resources	Protection of Groundwater	Units	MW-1S 16-18 5/27/2015	MW-1D 28-29 5/26/2015	MW-2S 19-19.8 5/22/2015	MW-2D 7-8.8 5/21/2015	MW-2D 31-32.1 5/21/2015	MW-3S 11-13 5/21/2015
Volatile Organic Compounds (VOCs)										
BTEX										
Benzene	89	70	0.06	mg/kg	0.00024 U	0.00041 J	**6.8 F1F2**	**6600**	**0.75**	**8200 J**
Toluene	1000	36	0.7	mg/kg	0.00037 U	0.00046 U	**4.5 F1**	**4000**	0.54	**2300 J**
Ethylbenzene	780	NE	1	mg/kg	0.00033 U	0.00042 U	0.21 F1	**60 J**	0.047 J	72 U
Xylenes, total	1000	0.26	1.6	mg/kg	0.00081 U	0.001 U	**4.2 F1**	**1600**	**0.46**	**850 J**
Total BTEX	NE	NE	NE	mg/kg	ND	0.00041 J	16 F1	12260	1.8	11350 J
Other VOCs										
1,1,1-Trichloroethane	1000	NE	0.68	mg/kg	0.00035 U	0.00044 U	0.056 UF1	45 U	0.045 U	68 U
1,1,2,2-Tetrachloroethane	NE	NE	NE	mg/kg	0.00078 UJ	0.00098 U	0.033 U	26 U	0.026 U	40 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NE	NE	NE	mg/kg	0.0011 U	0.0014 U	0.1 UF1	81 U	0.081 U	120 U
1,1,2-Trichloroethane	NE	NE	NE	mg/kg	0.00063 U	0.00078 U	0.043 U	34 U	0.034 U	52 U
1,1-Dichloroethane	480	NE	0.27	mg/kg	0.00059 U	0.00073 U	0.063 U	50 U	0.05 U	76 U
1,1-Dichloroethene	1000	NE	0.33	mg/kg	0.00059 U	0.00074 U	0.07 U	56 U	0.056 U	85 U
1,2,4-Trichlorobenzene	NE	NE	NE	mg/kg	0.00029 UJ	0.00037 U	0.077 U	61 U	0.061 U	94 U
1,2-Dibromo-3-chloropropane (DBCP)	NE	NE	NE	mg/kg	0.0024 UJ	0.003 U	0.1 U	81 U	0.081 U	120 U
1,2-Dibromoethane (EDB)	NE	NE	NE	mg/kg	0.00062 U	0.00077 U	0.036 U	28 U	0.028 U	43 U
1,2-Dichlorobenzene	1000	NE	1.1	mg/kg	0.00038 UJ	0.00047 U	0.052 U	41 U	0.041 U	63 U
1,2-Dichloroethane	60	10	0.02	mg/kg	0.00024 U	0.0003 U	0.083 U	66 U	0.066 U	100 U
1,2-Dichloropropane	NE	NE	NE	mg/kg	0.0024 U	0.003 U	0.033 U	26 U	0.026 U	40 U
1,3-Dichlorobenzene	560	NE	2.4	mg/kg	0.00025 UJ	0.00031 U	0.054 U	43 U	0.043 U	66 U
1,4-Dichlorobenzene	250	20	1.8	mg/kg	0.00068 UJ	0.00084 U	0.029 U	23 U	0.023 U	35 U
2-Butanone (MEK)	1000	100	0.12	mg/kg	0.0018 U	0.0022 U	0.61 U	480 U	0.48 U	730 U
2-Hexanone	NE	NE	NE	mg/kg	0.0024 U	0.003 U	0.42 U	330 U	0.33 U	510 U
4-Methyl-2-pentanone (MIBK)	NE	NE	NE	mg/kg	0.0016 U	0.002 U	0.065 U	52 U	0.052 U	79 U
Acetone	1000	2.2	0.05	mg/kg	0.0095 J	0.0051 U	0.84 U	670 U	0.66 U	1000 U
Bromodichloromethane	NE	NE	NE	mg/kg	0.00065 U	0.00081 U	0.041 U	32 U	0.032 U	49 U
Bromoform	NE	NE	NE	mg/kg	0.0024 U	0.003 U	0.1 U	81 U	0.081 U	120 U
Bromomethane	NE	NE	NE	mg/kg	0.00043 U	0.00054 U	0.045 U	36 U	0.036 U	54 U
Carbon disulfide	NE	NE	NE	mg/kg	0.0024 U	0.003 U	0.093 U	74 U	0.073 U	110 U
Carbon tetrachloride	44	NE	0.76	mg/kg	0.00047 U	0.00058 U	0.052 U	41 U	0.041 U	63 U
Chlorobenzene	1000	40	1.1	mg/kg	0.00064 U	0.0008 U	0.027 U	21 U	0.021 U	33 U
Chloroethane	NE	NE	NE	mg/kg	0.0011 U	0.0014 U	0.042 UF2	34 U	0.034 U	51 U
Chloroform	700	12	0.37	mg/kg	0.0003 U	0.00037 U	0.14 U	110 U	0.11 U	170 U
Chloromethane	NE	NE	NE	mg/kg	0.00029 U	0.00036 U	0.048 U	39 U	0.038 U	59 U
cis-1,2-Dichloroethene	1000	NE	0.25	mg/kg	0.00062 U	0.00077 U	0.056 U	45 U	0.045 U	68 U
cis-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.0007 U	0.00087 U	0.049 U	39 U	0.039 U	59 U
Cyclohexane	NE	NE	NE	mg/kg	0.00068 U	0.00084 U	0.045 UF1	36 U	0.036 U	55 U
Dibromochloromethane	NE	NE	NE	mg/kg	0.00062 U	0.00077 U	0.099 U	78 U	0.078 U	120 U
Dichlorodifluoromethane (Freon 12)	NE	NE	NE	mg/kg	0.0004 U	0.0005 U	0.089 U	71 UJ	0.07 U	110 UJ

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[a]	Protection of Ecological Resources	Protection of Groundwater	Units	MW-1S 16-18 5/27/2015	MW-1D 28-29 5/26/2015	MW-2S 19-19.8 5/22/2015	MW-2D 7-8.8 5/21/2015	MW-2D 31-32.1 5/21/2015	MW-3S 11-13 5/21/2015
Isopropylbenzene (Cumene)	NE	NE	NE	mg/kg	0.00073 UJ	0.00091 U	1.7 F1	530 J	0.12 J	120 J
Methyl acetate	NE	NE	NE	mg/kg	0.0029 U	0.0036 U	0.097 U	77	0.25	120 U
Methylcyclohexane	NE	NE	NE	mg/kg	0.00073 U	0.00092 U	0.1 JF1	76 U	0.076 U	120 U
Methylene chloride	1000	12	0.05	mg/kg	0.0022 U	0.0028 U	0.2 U	32 U	0.032 U	49 U
Styrene	NE	NE	NE	mg/kg	0.00024 U	0.0003 U	0.049 UF1	39 U	0.039 U	60 U
tert-Butyl methyl ether (MTBE)	1000	NE	0.93	mg/kg	0.00047 U	0.00059 U	0.077 U	61 U	0.061 U	93 U
Tetrachloroethene (PCE)	300	2	1.3	mg/kg	0.00065 U	0.00081 U	0.027 U	22 U	0.022 U	33 U
trans-1,2-Dichloroethene	1000	NE	0.19	mg/kg	0.0005 U	0.00062 U	0.048 U	38 U	0.038 U	58 U
trans-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.0021 U	0.0027 U	0.02 U	16 U	0.016 U	24 U
Trichloroethene (TCE)	400	2	0.47	mg/kg	0.0011 U	0.0013 U	0.057 U	45 U	0.045 U	69 U
Trichlorofluoromethane (Freon 11)	NE	NE	NE	mg/kg	0.00046 U	0.00057 U	0.096 U	76 U	0.076 U	120 U
Vinyl chloride	27	NE	0.02	mg/kg	0.00059 U	0.00073 U	0.068 U	54 U	0.054 U	83 U
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1000	20	98	mg/kg	0.14 U	0.17 U	0.27 U	73 U	0.15 U	17 J
Acenaphthylene	1000	NE	107	mg/kg	0.12 U	0.23 J	0.24 U	150 U	0.13 U	83 J
Anthracene	1000	NE	1000	mg/kg	0.23 U	0.62 J	1.8 JF1	540 U	0.26 U	350
Benzo(a)anthracene	11	NE	1	mg/kg	0.21 J	0.63 J	**2.8 F1**	510 U	0.1 U	**320**
Benzo(a)pyrene	1.1	2.6	22	mg/kg	0.14 U	0.43 J	**2 F1**	330 U	0.15 U	**210**
Benzo(b)fluoranthene	11	NE	1.7	mg/kg	0.15 U	0.54 J	**2.6 F1**	360 U	0.16 U	**240**
Benzo(g,h,i)perylene	1000	NE	1000	mg/kg	0.1 U	0.12 U	1.3 JF1	150 U	0.11 U	91 J
Benzo(k)fluoranthene	110	NE	1.7	mg/kg	0.12 U	0.26 J	1.5 JF1	300 U	0.13 U	**140**
Chrysene	110	NE	1	mg/kg	0.21 U	0.68 J	**2.6 F1**	410 U	0.23 U	**260**
Dibenz(a,h)anthracene	1.1	NE	1000	mg/kg	0.17 U	0.2 U	0.34 JF1F2	88 U	0.18 U	20 U
Fluoranthene	1000	NE	1000	mg/kg	0.21 J	1.2	4.8 F1	780 J	0.15 J	430
Fluorene	1000	30	386	mg/kg	0.11 U	0.61 J	1.7 JF1	510 U	0.12 U	**360**
Indeno(1,2,3-c,d)pyrene	11	NE	8.2	mg/kg	0.12 U	0.17 J	1.4 JF1	160 U	0.13 U	**100 J**
Naphthalene	1000	NE	12	mg/kg	0.12 U	0.43 J	12	**1300**	1	**3300**
Phenanthrene	1000	NE	1000	mg/kg	0.27 J	1.8	6.7 F1	**2000 J**	0.26 J	**1100**
Pyrene	1000	NE	1000	mg/kg	0.2 J	1.1	4 F1	1200 U	0.12 U	700
2-Methylnaphthalene	NE	NE	NE	mg/kg	0.19 U	0.27 J	2.1 F1	350 U	0.21 U	500
Total PAHS	NE	NE	NE	mg/kg	0.89 J	9.0	48	4080	1.4	8201
Other SVOCs										
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	0.26 U	0.31 U	0.5 UF2	130 U	0.28 U	31 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	0.19 U	0.23 U	0.37 U	99 U	0.21 U	23 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	0.1 U	0.12 U	0.2 UF1F2	53 U	0.11 U	12 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	0.23 U	0.28 U	0.45 U	120 U	0.25 U	52 J
2,4-Dinitrophenol	NE	NE	NE	mg/kg	4.3 U	5.3 U	8.6 U	2300 U	4.8 U	530 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	0.19 U	0.24 U	0.38 U	100 U	0.21 U	24 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	0.11 U	0.13 U	0.22 U	58 U	0.12 U	14 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[a]	Protection of Ecological Resources	Protection of Groundwater	Units	MW-1S 16-18 5/27/2015	MW-1D 28-29 5/26/2015	MW-2S 19-19.8 5/22/2015	MW-2D 7-8.8 5/21/2015	MW-2D 31-32.1 5/21/2015	MW-3S 11-13 5/21/2015
2-Chloronaphthalene	NE	NE	NE	mg/kg	0.16 U	0.19 U	0.31 U	82 U	0.17 U	19 U
2-Chlorophenol	NE	NE	NE	mg/kg	0.17 U	0.21 U	0.34 U	90 U	0.19 U	21 U
2-Methylphenol (o-cresol)	1000	NE	0.33	mg/kg	0.11 U	0.13 U	0.22 U	58 U	0.12 U	**42 J**
2-Nitroaniline	NE	NE	NE	mg/kg	0.14 U	0.17 U	0.27 U	73 U	0.15 U	17 U
2-Nitrophenol	NE	NE	NE	mg/kg	0.27 U	0.32 U	0.52 U	140 U	0.29 U	33 U
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	1.1 U	1.3 U	2.2 U	580 U	1.2 U	140 U
3-Nitroaniline	NE	NE	NE	mg/kg	0.26 U	0.32 U	0.51 U	140 U	0.29 U	32 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	0.94 U	1.1 U	1.9 U	500 U	1 U	120 U
4-Bromophenyl phenyl ether	NE	NE	NE	mg/kg	0.13 U	0.16 U	0.26 UF1	70 U	0.15 U	16 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	0.23 U	0.28 U	0.46 U	120 U	0.26 U	29 U
4-Chloroaniline	NE	NE	NE	mg/kg	0.23 U	0.28 U	0.46 U	120 U	0.26 U	29 U
4-Chlorophenyl phenyl ether	NE	NE	NE	mg/kg	0.12 U	0.14 U	0.23 U	61 U	0.13 U	14 U
4-Methylphenol	1000	NE	0.33	mg/kg	0.11 U	0.13 U	0.22 U	58 U	0.12 U	230 U
4-Nitroaniline	NE	NE	NE	mg/kg	0.49 U	0.6 U	0.97 U	260 U	0.54 U	61 U
4-Nitrophenol	NE	NE	NE	mg/kg	0.66 U	0.8 U	1.3 U	350 U	0.73 U	81 U
Acetophenone	NE	NE	NE	mg/kg	0.13 U	0.15 U	0.27 JF1	67 U	0.14 U	44 J
Atrazine	NE	NE	NE	mg/kg	0.33 U	0.4 U	0.65 U	170 U	0.36 U	40 U
Benzaldehyde	NE	NE	NE	mg/kg	0.75 UJ	0.91 UJ	1.5 U	390 U	0.82 U	92 U
Benzyl butyl phthalate	NE	NE	NE	mg/kg	0.16 U	0.19 U	0.31 U	82 U	0.17 U	19 U
Biphenyl (Diphenyl)	NE	NE	NE	mg/kg	0.14 U	0.17 U	0.27 U	73 U	0.15 U	76 J
bis(2-Chloroethoxy)methane	NE	NE	NE	mg/kg	0.2 U	0.24 U	0.39 U	110 U	0.22 U	25 U
bis(2-Chloroethyl)ether	NE	NE	NE	mg/kg	0.12 U	0.15 U	0.24 U	64 U	0.13 U	15 U
bis(2-Chloroisopropyl)ether	NE	NE	NE	mg/kg	0.19 U	0.23 U	0.37 U	99 U	0.21 U	23 U
bis(2-Ethylhexyl)phthalate	NE	NE	NE	mg/kg	0.32 U	0.39 U	0.63 U	170 U	0.35 U	40 U
Caprolactam	NE	NE	NE	mg/kg	0.28 U	0.34 U	0.56 U	150 U	0.31 U	35 U
Carbazole	NE	NE	NE	mg/kg	0.11 U	0.19 J	0.65 NJ	210 U	0.12 U	120
Dibenzofuran	1000	NE	210	mg/kg	0.11 U	0.33 J	1.4 JF1	370 U	0.12 U	**260**
Diethyl phthalate	NE	NE	NE	mg/kg	0.12 U	0.15 U	0.24 U	64 U	0.13 U	15 U
Dimethyl phthalate	NE	NE	NE	mg/kg	0.11 U	0.13 U	0.22 U	58 U	0.12 U	14 U
dI-n-Butyl phthalate	NE	NE	NE	mg/kg	0.16 U	0.2 U	0.32 U	85 U	0.18 U	20 U
dI-n-Octyl phthalate	NE	NE	NE	mg/kg	0.11 U	0.13 U	0.22 U	58 U	0.12 U	14 U
Hexachlorobenzene	12	NE	3.2	mg/kg	0.13 U	0.15 U	0.25 U	67 U	0.14 U	16 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	0.14 U	0.17 U	0.27 U	73 U	0.15 U	17 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	0.13 U	0.15 U	0.25 U	67 U	0.14 U	16 U
Hexachloroethane	NE	NE	NE	mg/kg	0.12 U	0.15 U	0.24 U	64 U	0.13 U	15 U
Isophorone	NE	NE	NE	mg/kg	0.2 U	0.24 U	0.39 U	110 U	0.22 U	25 U
Nitrobenzene	NE	NE	NE	mg/kg	0.11 U	0.13 U	0.21 U	55 U	0.12 U	13 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	0.16 U	0.2 U	0.32 U	85 U	0.18 U	20 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	0.77 U	0.93 U	1.5 U	400 U	0.84 U	94 U
Pentachlorophenol	55	0.8	0.8	mg/kg	0.94 UJ	1.1 UJ	1.9 U	500 U	1 U	120 U
Phenol	1000	30	0.33	mg/kg	0.14 U	0.17 U	0.28 U	76 U	0.16 U	**78 J**

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[a]	Protection of Ecological Resources	Protection of Groundwater	Units	MW-1S 16-18 5/27/2015	MW-1D 28-29 5/26/2015	MW-2S 19-19.8 5/22/2015	MW-2D 7-8.8 5/21/2015	MW-2D 31-32.1 5/21/2015	MW-3S 11-13 5/21/2015
Inorganic Constituents										
Cyanide, total	10000	NE	40	mg/kg	0.54 U	0.65 U	0.54 R	2.1 U	0.59 U	0.55 U
Aluminum	NE	NE	NE	mg/kg	3400	7210	2600 J	2800	11200	3000
Antimony	NE	NE	NE	mg/kg	2.1 U	0.52 U	2.1 UJ	2.6 U	0.55 U	0.45 U
Arsenic	16	13	16	mg/kg	**15**	6.8	**15.1 F1**	**15.2**	5.4	11
Barium	10000	433	820	mg/kg	24.7	49.3	15.1 J	18.1	33.3	44.3
Beryllium	2700	10	47	mg/kg	1.4	0.64	0.91 J	0.84	0.57	0.33
Cadmium	60	4	7.5	mg/kg	0.2 J	0.039 U	0.16 U	0.2 U	0.041 U	0.1 J
Calcium	NE	NE	NE	mg/kg	7170 B	2830 B	4870 J	4960 B	1610 B	6470 B
Chromium	NE	NE	19	mg/kg	**24.9 B**	16.2	18	**30.4**	15.9	15.2 J
Cobalt	NE	NE	NE	mg/kg	9.3	9.2	9.3	2.8	12.5	3.8
Copper	10000	50	1720	mg/kg	15.8	22.3	25.6 F1	27.4	17.9	22.1
Iron	NE	NE	NE	mg/kg	121000 B	39200	96900 J	88600 ^B	29800 ^B	32400 J
Lead	3900	63	450	mg/kg	10.1	22.5	14.7 J	55.2	11.1	38.9
Magnesium	NE	NE	NE	mg/kg	862	2330	739 J	427	4870	1330
Manganese	10000	1600	2000	mg/kg	740 B	420	545 J	1260	355	1210 J
Nickel	10000	30	130	mg/kg	18.3 J	18.2	15.5	6.8	23.8	9.5
Potassium	NE	NE	NE	mg/kg	464	1350	328 F1F2	281 B	1370 B	529
Selenium	6800	3.9	4	mg/kg	2.1 U	0.52 U	2.1 UF1	2.6 U	0.55 U	0.45 U
Silver	6800	2	8.3	mg/kg	1 U	0.26 U	1 U	1.3 U	0.27 U	0.23 U
Sodium	NE	NE	NE	mg/kg	266 J	212 B	167 J	238 J	131 J	893
Thallium	NE	NE	NE	mg/kg	1.6 U	0.39 U	0.31 U	0.4 U	0.41 U	0.34 U
Vanadium	NE	NE	NE	mg/kg	104	32.4	96.5 J	59.3	26.8	27.6 J
Zinc	10000	109	2480	mg/kg	16 B	36.5 B	28 J	40.4 B	71.1 B	36.4 B
Mercury	5.7	0.18	0.73	mg/kg	0.0083 U	0.07	0.032	0.73 U	0.01 U	**0.22**
Pesticides										
4,4'-DDD	180	0.0033	14	mg/kg	0.00035 U	0.0087 U	0.0071 UJ	0.085 U	0.0016 U	0.074 U
4,4'-DDE	120	0.0033	17	mg/kg	0.00038 U	0.0094 U	0.0077 UJ	0.092 U	0.0017 U	0.08 U
4,4'-DDT	94	0.0033	136	mg/kg	0.00043 U	0.011 U	0.0085 UJ	0.44 U	0.0019 U	0.089 U
Aldrin	1.4	0.14	0.19	mg/kg	0.00045 U	0.011 U	0.009 UJ	0.11 U	0.002 U	0.094 U
alpha Endosulfan (Endosulfan I)	920	NE	102	mg/kg	0.00035 U	0.0086 U	0.007 UJ	0.084 U	0.0015 U	0.073 U
beta Endosulfan (Endosulfan II)	920	NE	102	mg/kg	0.00033 U	0.0081 U	0.0066 UJ	0.078 U	0.0014 U	0.069 U
BHC, alpha	6.8	0.04	0.02	mg/kg	0.00033 U	0.0081 U	0.0066 UJ	0.078 U	0.0014 U	0.069 U
BHC, beta	14	0.6	0.09	mg/kg	0.00033 U	0.0081 U	0.0066 UJ	0.078 U	0.0014 U	0.069 U
BHC, delta	1000	0.04	0.25	mg/kg	0.00034 U	0.0084 U	0.0068 UJ	0.081 U	0.0015 U	0.071 U
BHC, gamma (Lindane)	23	6	0.1	mg/kg	0.00033 U	0.0083 U	0.0067 UJ	0.08 U	0.0015 U	0.07 U
Chlordane, alpha	47	1.3	2.9	mg/kg	0.0009 U	0.022 U	0.018 UJ	0.22 U	0.004 U	0.19 U
Chlordane, beta	NE	NE	NE	mg/kg	0.00058 U	0.014 U	0.012 UJ	0.14 U	0.0026 U	0.12 U
Dieldrin	2.8	0.006	0.1	mg/kg	0.00044 U	0.011 U	0.0087 UJ	0.1 U	0.0019 U	0.091 U
Endosulfan sulfate	920	NE	1000	mg/kg	0.00034 U	0.0084 U	0.0068 UJ	0.081 U	0.0015 U	0.071 U
Endrin	410	0.014	0.06	mg/kg	0.00036 U	0.0089 U	0.0072 UJ	0.086 U	0.0016 U	0.075 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[a]	Protection of Ecological Resources	Protection of Groundwater	Units	MW-1S 16-18 5/27/2015	MW-1D 28-29 5/26/2015	MW-2S 19-19.8 5/22/2015	MW-2D 7-8.8 5/21/2015	MW-2D 31-32.1 5/21/2015	MW-3S 11-13 5/21/2015
Endrin aldehyde	NE	NE	NE	mg/kg	0.00046 U	0.011 U	0.0093 UJ	0.11 U	0.0021 U	0.097 U
Endrin ketone	NE	NE	NE	mg/kg	0.00078 J	0.011 U	0.009 UJ	0.21 U	0.002 U	0.094 U
Heptachlor	29	0.14	0.38	mg/kg	0.00039 U	0.0097 U	0.0079 UJ	0.094 U	0.0017 U	0.082 U
Heptachlor epoxide	NE	NE	NE	mg/kg	0.00047 U	0.012 U	0.0094 UJ	0.11 U	0.0021 U	0.098 U
Methoxychlor	NE	NE	NE	mg/kg	0.00037 U	0.0092 U	0.0074 UJ	0.089 U	0.0016 U	0.61 U
Toxaphene	NE	NE	NE	mg/kg	0.011 U	0.26 U	0.21 UJ	2.5 U	0.047 U	2.2 U
Polychlorinated Biphenyls (PCBs)										
Aroclor 1016	NE	NE	3.2	mg/kg	0.046 U	0.054 U	0.038 U	0.063 U	0.056 U	0.044 U
Aroclor 1221	NE	NE	3.2	mg/kg	0.046 U	0.054 U	0.038 U	0.063 U	0.056 U	0.044 U
Aroclor 1232	NE	NE	3.2	mg/kg	0.046 U	0.054 U	0.038 U	0.063 U	0.056 U	0.044 U
Aroclor 1242	NE	NE	3.2	mg/kg	0.046 U	0.054 U	0.038 U	0.063 U	0.056 U	0.044 U
Aroclor 1248	NE	NE	3.2	mg/kg	0.046 U	0.054 U	0.038 U	0.063 U	0.056 U	0.044 U
Aroclor 1254	NE	NE	3.2	mg/kg	0.11 U	0.13 U	0.091 U	0.15 U	0.13 U	0.1 U
Aroclor 1260	NE	NE	3.2	mg/kg	0.11 U	0.13 U	0.091 U	0.15 U	0.13 U	0.1 U
Total PCBs	25	1.0	3.2	mg/kg	ND	ND	ND	ND	ND	ND

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value show is approximate and may be inaccurate or imprecise.
N J - The analyte detection if tentative in indentification and estimated in value.
B - Constituent was found in the blank and the sample.
R - Result rejected as determined by the data validator.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
F2 - MS/MSD Relative Percent Difference (RPD) exceeds control limits.
^ - Instrument related QC is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
NE - Not established.
ND - Not detected
(a) - City of Troy Official Zoning Map

Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for: Protection of Public Health for Industrially Zoned Properties, Protection of Ecological Resources, and/or Protection of Groundwater.

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	MW-3S DUP 11-13 5/21/2015	MW-3D 33.5-34 5/20/2015	MW-4S 19-19.6 5/20/2015	MW-4D 29-29.8 5/19/2015	SB-1 1-2 5/7/2015	SB-1 5-5.7 5/18/2015
Volatile Organic Compounds (VOCs)										
BTEX										
Benzene	89	70	0.06	mg/kg	**15000 J**	**0.58**	0.0096	0.00092 J	0.0015 J	0.00041 J
Toluene	1000	36	0.7	mg/kg	**4600 J**	0.059 J	0.0022 J	0.00063 J	0.002 J	0.00048 J
Ethylbenzene	780	NE	1	mg/kg	98 U	0.14	0.00033 U	0.00043 U	0.00064 UJ	0.00031 U
Xylenes, total	1000	0.26	1.6	mg/kg	**1600 J**	**2.6**	0.00081 U	0.0011 U	0.0015 UJ	0.00075 U
Total BTEX	NE	NE	NE	mg/kg	21200 J	3.4	0.012	0.0016 J	0.0035 J	0.00089 J
Other VOCs										
1,1,1-Trichloroethane	1000	NE	0.68	mg/kg	93 U	0.032 U	0.00035 U	0.00046 U	0.00067 UJ	0.00032 U
1,1,2,2-Tetrachloroethane	NE	NE	NE	mg/kg	55 U	0.019 U	0.00078 U	0.001 U	0.0015 UJ	0.00073 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NE	NE	NE	mg/kg	170 U	0.058 U	0.0011 U	0.0014 U	0.0021 UJ	0.001 U
1,1,2-Trichloroethane	NE	NE	NE	mg/kg	71 U	0.025 U	0.00062 U	0.00082 U	0.0012 UJ	0.00058 U
1,1-Dichloroethane	480	NE	0.27	mg/kg	100 U	0.036 U	0.00059 U	0.00077 U	0.0011 UJ	0.00055 U
1,1-Dichloroethene	1000	NE	0.33	mg/kg	120 U	0.04 U	0.00059 U	0.00077 U	0.0011 UJ	0.00055 U
1,2,4-Trichlorobenzene	NE	NE	NE	mg/kg	130 U	0.044 U	0.00029 U	0.00038 U	0.00056 UJ	0.00027 U
1,2-Dibromo-3-chloropropane (DBCP)	NE	NE	NE	mg/kg	170 U	0.058 U	0.0024 U	0.0031 U	0.0046 UJ	0.0022 U
1,2-Dibromoethane (EDB)	NE	NE	NE	mg/kg	59 U	0.02 U	0.00062 U	0.00081 U	0.0012 UJ	0.00057 U
1,2-Dichlorobenzene	1000	NE	1.1	mg/kg	86 U	0.03 U	0.00038 U	0.00049 U	0.00072 UJ	0.00035 U
1,2-Dichloroethane	60	10	0.02	mg/kg	140 U	0.048 U	0.00024 U	0.00032 U	0.00046 UJ	0.00022 U
1,2-Dichloropropane	NE	NE	NE	mg/kg	55 U	0.019 U	0.0024 U	0.0031 U	0.0046 UJ	0.0022 U
1,3-Dichlorobenzene	560	NE	2.4	mg/kg	90 U	0.031 U	0.00025 U	0.00032 U	0.00047 UJ	0.00023 UJ
1,4-Dichlorobenzene	250	20	1.8	mg/kg	47 U	0.016 U	0.00067 U	0.00088 U	0.0013 UJ	0.00063 UJ
2-Butanone (MEK)	1000	100	0.12	mg/kg	1000 U	0.35 U	0.0018 U	0.0023 U	0.0034 UJ	0.0016 U
2-Hexanone	NE	NE	NE	mg/kg	690 U	0.24 U	0.0024 U	0.0031 U	0.0046 UJ	0.0022 U
4-Methyl-2-pentanone (MIBK)	NE	NE	NE	mg/kg	110 U	0.037 U	0.0016 U	0.0021 U	0.003 UJ	0.0015 U
Acetone	1000	2.2	0.05	mg/kg	1400 U	0.48 U	0.004 U	0.031 U	0.0078 UJ	0.0038 U
Bromodichloromethane	NE	NE	NE	mg/kg	67 U	0.023 U	0.00064 U	0.00084 U	0.0012 UJ	0.0006 U
Bromoform	NE	NE	NE	mg/kg	170 U	0.058 U	0.0024 U	0.0031 U	0.0046 UJ	0.0022 U
Bromomethane	NE	NE	NE	mg/kg	74 U	0.026 U	0.00043 U	0.00057 U	0.00083 UJ	0.0004 U
Carbon disulfide	NE	NE	NE	mg/kg	150 U	0.053 U	0.0024 U	0.0031 U	0.0046 UJ	0.0022 U
Carbon tetrachloride	44	NE	0.76	mg/kg	86 U	0.03 U	0.00046 U	0.00061 U	0.00089 UJ	0.00043 U
Chlorobenzene	1000	40	1.1	mg/kg	45 U	0.015 U	0.00063 U	0.00083 U	0.0092 UJ	0.00059 U
Chloroethane	NE	NE	NE	mg/kg	70 U	0.024 U	0.0011 U	0.0014 U	0.0021 UJ	0.001 U
Chloroform	700	12	0.37	mg/kg	230 U	0.08 U	0.0003 U	0.00039 U	0.00057 UJ	0.00028 U
Chloromethane	NE	NE	NE	mg/kg	80 U	0.028 U	0.00029 U	0.00038 U	0.00056 UJ	0.00027 U
cis-1,2-Dichloroethene	1000	NE	0.25	mg/kg	93 U	0.032 U	0.00061 U	0.0008 U	0.0012 UJ	0.00057 U
cis-1,3-Dichloropropene	NE	NE	NE	mg/kg	81 U	0.028 U	0.00069 U	0.0009 U	0.0013 UJ	0.00064 U
Cyclohexane	NE	NE	NE	mg/kg	75 U	0.026 U	0.00067 U	0.00088 U	0.0013 UJ	0.00063 U
Dibromochloromethane	NE	NE	NE	mg/kg	160 U	0.056 U	0.00061 U	0.0008 U	0.0012 UJ	0.00057 UJ
Dichlorodifluoromethane (Freon 12)	NE	NE	NE	mg/kg	150 UJ	0.051 U	0.0004 U	0.00052 U	0.00076 UJ	0.00037 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[a]	Protection of Ecological Resources	Protection of Groundwater	Units	MW-3S DUP 11-13 5/21/2015	MW-3D 33.5-34 5/20/2015	MW-4S 19-19.6 5/20/2015	MW-4D 29-29.8 5/19/2015	SB-1 1-2 5/7/2015	SB-1 5-5.7 5/18/2015
Isopropylbenzene (Cumene)	NE	NE	NE	mg/kg	200 J	10	0.00072 U	0.00095 U	0.0014 UJ	0.00067 U
Methyl acetate	NE	NE	NE	mg/kg	160 U	0.056 U	0.0029 U	0.0038 U	0.0056 UJ	0.0027 U
Methylcyclohexane	NE	NE	NE	mg/kg	160 U	0.15	0.00073 U	0.00095 U	0.0014 UJ	0.00068 U
Methylene chloride	1000	12	0.05	mg/kg	67 U	0.023 U	0.0022 U	0.0029 U	0.012 J	0.0021 U
Styrene	NE	NE	NE	mg/kg	81 U	0.028 U	0.00024 U	0.00031 U	0.00046 UJ	0.00022 U
tert-Butyl methyl ether (MTBE)	1000	NE	0.93	mg/kg	130 U	0.044 U	0.00047 U	0.00062 U	0.00091 UJ	0.00044 U
Tetrachloroethene (PCE)	300	2	1.3	mg/kg	45 U	0.016 U	0.00064 U	0.00084 U	0.0012 UJ	0.0006 U
trans-1,2-Dichloroethene	1000	NE	0.19	mg/kg	80 U	0.028 U	0.0005 U	0.00065 U	0.00095 UJ	0.00046 U
trans-1,3-Dichloropropene	NE	NE	NE	mg/kg	33 U	0.011 U	0.0021 U	0.0028 U	0.0041 UJ	0.002 U
Trichloroethene (TCE)	400	2	0.47	mg/kg	94 U	0.032 U	0.0011 U	0.0014 U	0.002 UJ	0.00098 U
Trichlorofluoromethane (Freon 11)	NE	NE	NE	mg/kg	160 U	0.055 U	0.00045 U	0.00059 U	0.00087 UJ	0.00042 U
Vinyl chloride	27	NE	0.02	mg/kg	110 U	0.039 U	0.00059 U	0.00077 U	0.0011 UJ	0.00055 U
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1000	20	98	mg/kg	71 U	1.8 J	0.13 U	0.16 U	0.56 U	0.27 U
Acenaphthylene	1000	NE	107	mg/kg	100 J	4.5 J	0.18 J	0.14 U	2.6 J	0.23 U
Anthracene	1000	NE	1000	mg/kg	410 J	5.1 J	1.3	0.27 U	1.8 J	0.45 U
Benzo(a)anthracene	11	NE	1	mg/kg	**320 J**	**5.4 J**	**1.3**	0.2 J	**8.4**	0.56 J
Benzo(a)pyrene	1.1	2.6	22	mg/kg	**230 J**	**3.7 J**	0.91 J	0.16 U	**5.8**	0.36 J
Benzo(b)fluoranthene	11	NE	1.7	mg/kg	**260 J**	**3.6 J**	1.2	0.17 U	**7.5**	0.62 J
Benzo(g,h,i)perylene	1000	NE	1000	mg/kg	100 J	1.8 J	0.46 J	0.11 U	3 J	0.31 J
Benzo(k)fluoranthene	110	NE	1.7	mg/kg	**140 J**	**3 J**	0.7 J	0.14 U	**5.3**	0.23 U
Chrysene	110	NE	1	mg/kg	**260 J**	**5.6 J**	**1.5**	0.24 U	**7.8**	0.5 J
Dibenz(a,h)anthracene	1.1	NE	1000	mg/kg	85 U	1.4 U	0.16 U	0.19 U	1.1 J	0.32 U
Fluoranthene	1000	NE	1000	mg/kg	460 J	13	2.9	0.22 J	13	0.69 J
Fluorene	1000	30	386	mg/kg	**370 J**	13	1.4	0.13 U	0.61 J	0.21 U
Indeno(1,2,3-c,d)pyrene	11	NE	8.2	mg/kg	**120 J**	2.6 J	0.51 J	0.13 U	3 J	0.23 J
Naphthalene	1000	NE	12	mg/kg	**4100**	**380**	6.6	0.23 J	0.71 J	0.23 U
Phenanthrene	1000	NE	1000	mg/kg	**1200**	19	4.2	0.2 J	4.8	0.51 J
Pyrene	1000	NE	1000	mg/kg	770	9.5	2.1	0.22 J	11	0.59 J
2-Methylnaphthalene	NE	NE	NE	mg/kg	600	43	1.3	0.22 U	0.76 U	0.36 U
Total PAHS	NE	NE	NE	mg/kg	9440	515	27	1.1 J	76	4.4 J
Other SVOCs										
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	130 U	2.2 U	0.25 U	0.29 U	1 U	0.49 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	97 U	1.6 U	0.18 U	0.22 U	0.76 U	0.36 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	51 U	0.85 U	0.097 U	0.11 U	0.4 U	0.19 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	120 U	1.9 U	0.22 U	0.26 U	0.91 U	0.44 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	2200 U	37 U	4.2 U	5 U	17 U	8.4 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	100 U	1.6 U	0.19 U	0.22 U	0.78 U	0.37 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	57 U	0.94 U	0.11 U	0.13 U	0.45 U	0.21 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[a]	Protection of Ecological Resources	Protection of Groundwater	Units	MW-3S DUP 11-13 5/21/2015	MW-3D 33.5-34 5/20/2015	MW-4S 19-19.6 5/20/2015	MW-4D 29-29.8 5/19/2015	SB-1 1-2 5/7/2015	SB-1 5-5.7 5/18/2015
2-Chloronaphthalene	NE	NE	NE	mg/kg	80 U	1.3 U	0.15 U	0.18 U	0.62 U	0.3 U
2-Chlorophenol	NE	NE	NE	mg/kg	88 U	1.5 U	0.17 U	0.2 U	0.69 U	0.33 U
2-Methylphenol (o-cresol)	1000	NE	0.33	mg/kg	57 U	0.94 U	0.11 U	0.13 U	0.45 U	0.21 U
2-Nitroaniline	NE	NE	NE	mg/kg	71 U	1.2 U	0.13 U	0.16 U	0.56 U	0.27 U
2-Nitrophenol	NE	NE	NE	mg/kg	140 U	2.3 U	0.26 U	0.31 U	1.1 U	0.51 U
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	570 U	9.4 U	1.1 U	1.3 U	4.5 U	2.1 U
3-Nitroaniline	NE	NE	NE	mg/kg	130 U	2.2 U	0.25 U	0.3 U	1 U	0.5 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	480 U	8 U	0.92 U	1.1 U	3.8 U	1.8 U
4-Bromophenyl phenyl ether	NE	NE	NE	mg/kg	68 U	1.1 U	0.13 U	0.15 U	0.54 U	0.26 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	120 U	2 U	0.23 U	0.27 U	0.94 U	0.45 U
4-Chloroaniline	NE	NE	NE	mg/kg	120 U	2 U	0.23 U	0.27 U	0.94 U	0.45 U
4-Chlorophenyl phenyl ether	NE	NE	NE	mg/kg	60 U	0.99 U	0.11 U	0.13 U	0.47 U	0.22 U
4-Methylphenol	1000	NE	0.33	mg/kg	940 U	0.94 U	1.8 U	0.13 U	0.45 U	0.21 U
4-Nitroaniline	NE	NE	NE	mg/kg	250 U	4.2 U	0.48 U	0.57 U	2 U	0.95 U
4-Nitrophenol	NE	NE	NE	mg/kg	340 U	5.6 U	0.64 U	0.76 U	2.7 U	1.3 U
Acetophenone	NE	NE	NE	mg/kg	66 U	1.1 U	0.12 U	0.15 U	0.51 U	0.25 U
Atrazine	NE	NE	NE	mg/kg	170 U	2.8 U	0.32 U	0.38 U	1.3 U	0.63 U
Benzaldehyde	NE	NE	NE	mg/kg	380 U	6.3 U	0.73 U	0.86 U	3 U	1.4 U
Benzyl butyl phthalate	NE	NE	NE	mg/kg	80 U	1.3 U	0.15 U	0.18 U	0.62 U	0.3 U
Biphenyl (Diphenyl)	NE	NE	NE	mg/kg	110 J	8.1	0.19 J	0.16 U	0.56 U	0.27 U
bis(2-Chloroethoxy)methane	NE	NE	NE	mg/kg	100 U	1.7 U	0.19 U	0.23 U	0.8 U	0.38 U
bis(2-Chloroethyl)ether	NE	NE	NE	mg/kg	63 U	1 U	0.12 U	0.14 U	0.49 U	0.23 U
bis(2-Chloroisopropyl)ether	NE	NE	NE	mg/kg	97 U	1.6 U	0.18 U	0.22 U	0.76 U	0.36 U
bis(2-Ethylhexyl)phthalate	NE	NE	NE	mg/kg	170 U	2.7 U	0.31 U	0.37 U	1.3 U	0.62 U
Caprolactam	NE	NE	NE	mg/kg	150 U	2.4 U	0.27 U	0.33 U	1.1 U	0.54 U
Carbazole	NE	NE	NE	mg/kg	120 J	1.2 J	0.36 J	0.13 U	0.45 U	0.21 U
Dibenzofuran	1000	NE	210	mg/kg	**280 J**	11	0.93	0.13 U	0.45 U	0.21 U
Diethyl phthalate	NE	NE	NE	mg/kg	63 U	1 U	0.12 U	0.14 U	0.49 U	0.23 U
Dimethyl phthalate	NE	NE	NE	mg/kg	57 U	0.94 U	0.11 U	0.13 U	0.45 U	0.21 U
dI-n-Butyl phthalate	NE	NE	NE	mg/kg	83 U	1.4 U	0.16 U	0.18 U	0.65 U	0.31 U
dI-n-Octyl phthalate	NE	NE	NE	mg/kg	57 U	0.94 U	0.11 U	0.13 U	0.45 U	0.21 U
Hexachlorobenzene	12	NE	3.2	mg/kg	66 U	1.1 U	0.12 U	0.15 U	0.51 U	0.25 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	71 U	1.2 U	0.13 U	0.16 U	0.56 U	0.27 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	66 U	1.1 U	0.12 U	0.15 U	0.51 U	0.25 U
Hexachloroethane	NE	NE	NE	mg/kg	63 U	1 U	0.12 U	0.14 U	0.49 U	0.23 U
Isophorone	NE	NE	NE	mg/kg	100 U	1.7 U	0.19 U	0.23 U	0.8 U	0.38 U
Nitrobenzene	NE	NE	NE	mg/kg	54 U	0.89 U	0.1 U	0.12 U	0.42 U	0.2 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	83 U	1.4 U	0.16 U	0.18 U	0.65 U	0.31 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	390 U	6.5 U	0.74 U	0.88 U	3.1 U	1.5 U
Pentachlorophenol	55	0.8	0.8	mg/kg	480 U	8 UJ	0.92 UJ	1.1 UJ	3.8 U	1.8 U
Phenol	1000	30	0.33	mg/kg	74 U	1.2 U	0.14 U	0.17 U	0.58 U	0.28 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	MW-3S DUP 11-13 5/21/2015	MW-3D 33.5-34 5/20/2015	MW-4S 19-19.6 5/20/2015	MW-4D 29-29.8 5/19/2015	SB-1 1-2 5/7/2015	SB-1 5-5.7 5/18/2015
Inorganic Constituents										
Cyanide, total	10000	NE	40	mg/kg	2.3	0.57 UJ	0.76 J	0.62 U	1.2	0.52 U
Aluminum	NE	NE	NE	mg/kg	3080	9430	3820	9840	7360	6590 J
Antimony	NE	NE	NE	mg/kg	2.4 U	0.55 J	4.4 U	0.54 U	2.3 U	4 UJ
Arsenic	16	13	16	mg/kg	**14**	3.8	**36**	5.1	**31.3**	**44.7 J**
Barium	10000	433	820	mg/kg	29.2	67.3	22.5	61.5	88.5	39.2 J
Beryllium	2700	10	47	mg/kg	1 J	0.43	2.6	0.56	1.3	2.4 F1
Cadmium	60	4	7.5	mg/kg	0.18 U	0.24 U	0.33 U	0.04 U	0.17 U	0.3 UJ
Calcium	NE	NE	NE	mg/kg	9280 B	11900 B	12400 B	2420 B	20300 B	18300 J
Chromium	NE	NE	19	mg/kg	**70.2 J**	12.5	**30**	16.4	**26**	**78 J**
Cobalt	NE	NE	NE	mg/kg	6.2	8.4	7.3	9.8	11	8.6 J
Copper	10000	50	1720	mg/kg	22.2	19.9	10.7 J	23.6	40.8	34.8 F1F2
Iron	NE	NE	NE	mg/kg	105000 J	21500 B	195000 B	22700 B	89000 B	205000 J
Lead	3900	63	450	mg/kg	29.6	11.7	13.8	45.9	**240**	**64.2**
Magnesium	NE	NE	NE	mg/kg	1030	9750	1570	4880	1940	1350 J
Manganese	10000	1600	2000	mg/kg	**2730 J**	1250 B	**1660 B**	332	**1910 B**	**3370 J**
Nickel	10000	30	130	mg/kg	19.7	17.3	9.2	20.6	21.8	20.6 J
Potassium	NE	NE	NE	mg/kg	408	1760	398	1830	738	581 F1
Selenium	6800	3.9	4	mg/kg	2.4 U	0.49 U	4.4 U	0.54 U	2.3 U	4 UJ
Silver	6800	2	8.3	mg/kg	1.2 U	0.24 U	2.2 U	0.27 U	1.1 U	2 UJ
Sodium	NE	NE	NE	mg/kg	1170	171 U	1550 U	188 U	798 U	1400 UJ
Thallium	NE	NE	NE	mg/kg	1.8 U	0.37 U	1.7 U	0.4 U	1.7 U	3 UJ
Vanadium	NE	NE	NE	mg/kg	92 J	15.4	121	19.1	53.8	164 J
Zinc	10000	109	2480	mg/kg	32.6 B	42.6 B	20.9 JB	52.1 B	**188 B**	46.3 J
Mercury	5.7	0.18	0.73	mg/kg	**0.31**	0.019 J	0.014 J	0.064	0.12	0.054
Pesticides										
4,4'-DDD	180	0.0033	14	mg/kg	0.079 U	0.037 U	0.0036 U	0.0041 U	0.018 U	0.0034 U
4,4'-DDE	120	0.0033	17	mg/kg	0.085 U	0.19 U	0.0039 U	0.0044 U	0.02 U	0.0037 U
4,4'-DDT	94	0.0033	136	mg/kg	0.095 U	0.19 U	0.0043 U	0.005 U	0.022 U	0.0041 U
Aldrin	1.4	0.14	0.19	mg/kg	0.099 U	0.049 J	0.0045 U	0.0052 U	0.023 U	0.0043 U
alpha Endosulfan (Endosulfan I)	920	NE	102	mg/kg	0.078 U	0.037 U	0.0035 U	0.0041 U	0.018 U	0.0033 U
beta Endosulfan (Endosulfan II)	920	NE	102	mg/kg	0.073 U	0.035 U	0.0033 U	0.0038 U	0.017 U	0.0031 U
BHC, alpha	6.8	0.04	0.02	mg/kg	0.41 U	0.035 U	0.0033 U	0.0038 U	0.017 U	0.0031 U
BHC, beta	14	0.6	0.09	mg/kg	0.073 U	0.035 U	0.0033 U	0.0038 U	0.017 U	0.0031 U
BHC, delta	1000	0.04	0.25	mg/kg	0.075 U	0.036 U	0.0034 U	0.0039 U	0.017 U	0.0032 U
BHC, gamma (Lindane)	23	6	0.1	mg/kg	0.074 U	0.05 J	0.0034 U	0.0039 U	0.017 U	0.0032 U
Chlordane, alpha	47	1.3	2.9	mg/kg	0.2 U	0.096 U	0.0092 U	0.011 U	0.047 U	0.0087 U
Chlordane, beta	NE	NE	NE	mg/kg	0.13 U	0.061 U	0.0059 U	0.0067 U	0.03 U	0.0055 U
Dieldrin	2.8	0.006	0.1	mg/kg	0.097 U	**0.056 J**	0.0044 U	0.0051 U	0.022 U	0.0042 U
Endosulfan sulfate	920	NE	1000	mg/kg	0.075 U	0.058 J	0.0034 U	0.004 U	0.094 U	0.0033 U
Endrin	410	0.014	0.06	mg/kg	0.08 U	0.038 U	0.0037 U	0.0042 U	0.019 U	0.0035 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	MW-3S DUP 11-13 5/21/2015	MW-3D 33.5-34 5/20/2015	MW-4S 19-19.6 5/20/2015	MW-4D 29-29.8 5/19/2015	SB-1 1-2 5/7/2015	SB-1 5-5.7 5/18/2015
Endrin aldehyde	NE	NE	NE	mg/kg	0.1 U	0.049 U	0.0047 U	0.0054 U	0.024 U	0.0045 U
Endrin ketone	NE	NE	NE	mg/kg	0.099 U	0.047 U	0.0045 U	0.0052 U	0.023 U	0.0043 U
Heptachlor	29	0.14	0.38	mg/kg	0.088 U	0.042 U	0.004 U	0.0046 U	0.02 U	0.0038 U
Heptachlor epoxide	NE	NE	NE	mg/kg	0.1 U	0.05 U	0.0048 U	0.0055 U	0.024 U	0.0045 U
Methoxychlor	NE	NE	NE	mg/kg	0.52 NJ	0.062 J	0.0038 U	0.0043 U	0.019 U	0.0036 U
Toxaphene	NE	NE	NE	mg/kg	2.4 U	1.1 U	0.11 U	0.12 U	0.55 U	0.1 U
Polychlorinated Biphenyls (PCBs)										
Aroclor 1016	NE	NE	3.2	mg/kg	0.057 U	0.053 U	0.038 U	0.049 U	0.041 U	0.038 U
Aroclor 1221	NE	NE	3.2	mg/kg	0.057 U	0.053 U	0.038 U	0.049 U	0.041 U	0.038 U
Aroclor 1232	NE	NE	3.2	mg/kg	0.057 U	0.053 U	0.038 U	0.049 U	0.041 U	0.038 U
Aroclor 1242	NE	NE	3.2	mg/kg	0.057 U	0.053 U	0.038 U	0.049 U	0.041 U	0.038 U
Aroclor 1248	NE	NE	3.2	mg/kg	0.057 U	0.053 U	0.038 U	0.049 U	0.041 U	0.038 U
Aroclor 1254	NE	NE	3.2	mg/kg	0.14 U	0.13 U	0.091 U	0.12 U	0.099 U	0.09 U
Aroclor 1260	NE	NE	3.2	mg/kg	0.14 U	0.13 U	0.091 U	0.12 U	0.099 U	0.09 U
Total PCBs	25	1.0	3.2	mg/kg	ND	ND	ND	ND	ND	ND

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value show is approximate and may be inaccurate or imprecise.
N J - The analyte detection if tentative in indentification and estimated in value.
B - Constituent was found in the blank and the sample.
R - Result rejected as determined by the data validator.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
F2 - MS/MSD Relative Percent Difference (RPD) exceeds control limits.
^ - Instrument related QC is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
NE - Not established.
ND - Not detected
(a) - City of Troy Official Zoning Map

Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for: Protection of Public Health for Industrially Zoned Properties, Protection of Ecological Resources, and/or Protection of Groundwater.

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-1 11-12.3 5/18/2015	SB-1 17-18.2 5/18/2015	SB-1 23-24.3 5/18/2015	SB-1 27-27.8 5/18/2015	SB-2 0-1 5/7/2015	SB-2 7-7.9 5/12/2015
Volatile Organic Compounds (VOCs)										
BTEX										
Benzene	89	70	0.06	mg/kg	0.0009 J	0.00021 U	0.00096 J	0.00031 U	**0.37**	**0.2 J**
Toluene	1000	36	0.7	mg/kg	0.00078 J	0.00033 U	0.00073 J	0.00047 U	0.33	0.54
Ethylbenzene	780	NE	1	mg/kg	0.00037 UJ	0.0003 U	0.00045 U	0.00043 U	**2.1**	0.093 J
Xylenes, total	1000	0.26	1.6	mg/kg	0.00091 UJ	0.00072 U	0.0011 U	0.0011 U	**5.6**	**1.5**
Total BTEX	NE	NE	NE	mg/kg	0.0017 J	ND	0.0017 J	ND	8.4	2.3
Other VOCs										
1,1,1-Trichloroethane	1000	NE	0.68	mg/kg	0.00039 UJ	0.00031 U	0.00048 U	0.00045 U	0.055 U	0.075 U
1,1,2,2-Tetrachloroethane	NE	NE	NE	mg/kg	0.00088 UJ	0.0007 UJ	0.0011 U	0.001 UJ	0.032 U	0.044 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NE	NE	NE	mg/kg	0.0012 UJ	0.00098 U	0.0015 U	0.0014 U	0.099 U	0.14 U
1,1,2-Trichloroethane	NE	NE	NE	mg/kg	0.0007 UJ	0.00056 U	0.00085 U	0.00081 U	0.042 U	0.057 U
1,1-Dichloroethane	480	NE	0.27	mg/kg	0.00066 UJ	0.00053 U	0.0008 U	0.00076 U	0.061 U	0.084 U
1,1-Dichloroethene	1000	NE	0.33	mg/kg	0.00066 UJ	0.00053 U	0.0008 U	0.00077 U	0.069 U	0.094 U
1,2,4-Trichlorobenzene	NE	NE	NE	mg/kg	0.00033 UJ	0.00026 U	0.0004 U	0.00038 U	0.075 U	0.1 UJ
1,2-Dibromo-3-chloropropane (DBCP)	NE	NE	NE	mg/kg	0.0027 UJ	0.0022 U	0.0033 U	0.0031 U	0.099 U	0.14 U
1,2-Dibromoethane (EDB)	NE	NE	NE	mg/kg	0.00069 UJ	0.00055 U	0.00084 U	0.0008 U	0.035 U	0.047 U
1,2-Dichlorobenzene	1000	NE	1.1	mg/kg	0.00042 UJ	0.00034 U	0.00051 U	0.00049 U	0.051 U	0.069 U
1,2-Dichloroethane	60	10	0.02	mg/kg	0.00027 UJ	0.00022 U	0.00033 U	0.00031 U	0.081 U	0.11 U
1,2-Dichloropropane	NE	NE	NE	mg/kg	0.0027 UJ	0.0022 U	0.0033 U	0.0031 U	0.032 U	0.044 U
1,3-Dichlorobenzene	560	NE	2.4	mg/kg	0.00028 UJ	0.00022 UJ	0.00034 U	0.00032 UJ	0.053 U	0.072 U
1,4-Dichlorobenzene	250	20	1.8	mg/kg	0.00076 UJ	0.0006 UJ	0.00092 U	0.00088 UJ	0.028 U	0.038 U
2-Butanone (MEK)	1000	100	0.12	mg/kg	0.002 UJ	0.0016 U	0.0024 U	0.0023 U	0.59 U	0.81 U
2-Hexanone	NE	NE	NE	mg/kg	0.0027 UJ	0.0022 U	0.0033 U	0.0031 U	0.41 U	0.56 U
4-Methyl-2-pentanone (MIBK)	NE	NE	NE	mg/kg	0.0018 UJ	0.0014 U	0.0022 U	0.0021 U	0.063 U	0.087 U
Acetone	1000	2.2	0.05	mg/kg	0.0046 UJ	0.022 U	0.033 U	0.031 U	0.81 U	1.1 U
Bromodichloromethane	NE	NE	NE	mg/kg	0.00072 UJ	0.00058 U	0.00088 U	0.00084 U	0.2 U	0.054 U
Bromoform	NE	NE	NE	mg/kg	0.0027 UJ	0.0022 U	0.0033 U	0.0031 U	0.099 U	0.14 U
Bromomethane	NE	NE	NE	mg/kg	0.00049 UJ	0.00039 U	0.00059 U	0.00056 U	0.044 U	0.06 U
Carbon disulfide	NE	NE	NE	mg/kg	0.0027 UJ	0.0022 U	0.0033 U	0.0031 U	0.09 U	0.12 U
Carbon tetrachloride	44	NE	0.76	mg/kg	0.00052 UJ	0.00042 U	0.00064 U	0.00061 U	0.051 U	0.069 U
Chlorobenzene	1000	40	1.1	mg/kg	0.00071 UJ	0.00057 U	0.00087 U	0.00083 U	0.026 U	0.036 U
Chloroethane	NE	NE	NE	mg/kg	0.0012 UJ	0.00097 U	0.0015 U	0.0014 U	0.041 U	0.056 U
Chloroform	700	12	0.37	mg/kg	0.00033 UJ	0.00027 U	0.00041 U	0.00039 U	0.14 U	0.19 U
Chloromethane	NE	NE	NE	mg/kg	0.00033 UJ	0.00026 U	0.0004 U	0.00038 U	0.047 U	0.065 U
cis-1,2-Dichloroethene	1000	NE	0.25	mg/kg	0.00069 UJ	0.00055 U	0.00084 U	0.0008 U	0.055 U	0.075 U
cis-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.00078 UJ	0.00062 U	0.00095 U	0.0009 U	0.047 U	0.065 U
Cyclohexane	NE	NE	NE	mg/kg	0.00076 UJ	0.0006 U	0.00092 U	0.00088 U	3.4	0.06 U
Dibromochloromethane	NE	NE	NE	mg/kg	0.00069 UJ	0.00055 UJ	0.00084 U	0.0008 UJ	0.096 U	0.13 U
Dichlorodifluoromethane (Freon 12)	NE	NE	NE	mg/kg	0.00045 UJ	0.00036 U	0.00054 U	0.00052 U	0.086 U	0.12 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[a]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-1 11-12.3 5/18/2015	SB-1 17-18.2 5/18/2015	SB-1 23-24.3 5/18/2015	SB-1 27-27.8 5/18/2015	SB-2 0-1 5/7/2015	SB-2 7-7.9 5/12/2015
Isopropylbenzene (Cumene)	NE	NE	NE	mg/kg	0.00082 UJ	0.00065 U	0.00099 U	0.00094 U	0.17 J	0.041 U
Methyl acetate	NE	NE	NE	mg/kg	0.0033 UJ	0.0026 U	0.004 U	0.0038 U	0.094 U	0.13 U
Methylcyclohexane	NE	NE	NE	mg/kg	0.00082 UJ	0.00065 U	0.001 U	0.00095 U	10	0.22 J
Methylene chloride	1000	12	0.05	mg/kg	0.0025 UJ	0.002 U	0.003 U	0.0029 U	0.039 U	0.054 U
Styrene	NE	NE	NE	mg/kg	0.00027 UJ	0.00022 U	0.00033 U	0.00031 U	0.048 U	0.065 U
tert-Butyl methyl ether (MTBE)	1000	NE	0.93	mg/kg	0.00053 UJ	0.00042 U	0.00065 U	0.00061 U	0.075 U	0.1 U
Tetrachloroethene (PCE)	300	2	1.3	mg/kg	0.00073 UJ	0.00058 U	0.00088 U	0.00084 U	0.027 U	0.036 U
trans-1,2-Dichloroethene	1000	NE	0.19	mg/kg	0.00056 UJ	0.00044 U	0.00068 U	0.00065 U	0.047 U	0.064 U
trans-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.0024 UJ	0.0019 U	0.0029 U	0.0028 U	0.019 U	0.027 U
Trichloroethene (TCE)	400	2	0.47	mg/kg	0.0012 UJ	0.00095 U	0.0014 U	0.0014 U	0.055 U	0.075 U
Trichlorofluoromethane (Freon 11)	NE	NE	NE	mg/kg	0.00051 UJ	0.00041 U	0.00062 U	0.00059 U	0.093 U	0.13 U
Vinyl chloride	27	NE	0.02	mg/kg	0.00066 UJ	0.00053 U	0.0008 U	0.00076 U	0.066 U	0.091 U
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1000	20	98	mg/kg	0.13 U	0.27 U	0.33 U	0.17 U	2.8 U	5.8 U
Acenaphthylene	1000	NE	107	mg/kg	0.12 U	0.24 U	0.29 U	0.15 U	2.5 U	21 J
Anthracene	1000	NE	1000	mg/kg	0.22 U	0.46 U	0.56 U	0.28 U	4.7 U	42
Benzo(a)anthracene	11	NE	1	mg/kg	0.38 J	0.39 J	0.23 U	0.11 U	**4.5 J**	**72**
Benzo(a)pyrene	1.1	2.6	22	mg/kg	0.28 J	0.27 U	0.33 U	0.17 U	**3.5 J**	**52**
Benzo(b)fluoranthene	11	NE	1.7	mg/kg	0.42 J	0.29 U	0.36 U	0.18 U	**5.1 J**	**56**
Benzo(g,h,i)perylene	1000	NE	1000	mg/kg	0.22 J	0.2 U	0.24 U	0.12 U	2.7 J	26 J
Benzo(k)fluoranthene	110	NE	1.7	mg/kg	0.13 J	0.24 U	0.29 U	0.15 U	**3.6 J**	**35 J**
Chrysene	110	NE	1	mg/kg	0.33 J	0.41 U	0.51 U	0.25 U	4.3 U	**69**
Dibenz(a,h)anthracene	1.1	NE	1000	mg/kg	0.16 U	0.33 U	0.4 U	0.2 U	3.4 U	6.9 U
Fluoranthene	1000	NE	1000	mg/kg	0.44 J	0.31 J	0.24 U	0.12 U	3.8 J	140
Fluorene	1000	30	386	mg/kg	0.11 U	0.22 U	0.27 U	0.13 U	2.3 U	**37 J**
Indeno(1,2,3-c,d)pyrene	11	NE	8.2	mg/kg	0.16 J	0.23 U	0.28 U	0.14 U	2.4 U	**26 J**
Naphthalene	1000	NE	12	mg/kg	0.12 U	0.24 U	0.29 U	0.15 U	2.5 U	**33 J**
Phenanthrene	1000	NE	1000	mg/kg	0.13 U	0.46 J	0.33 U	0.17 U	2.8 U	150
Pyrene	1000	NE	1000	mg/kg	0.46 J	0.35 J	0.27 U	0.13 U	3.4 J	120
2-Methylnaphthalene	NE	NE	NE	mg/kg	0.18 U	0.37 U	0.45 U	0.23 U	3.8 U	17 J
Total PAHS	NE	NE	NE	mg/kg	2.8 J	1.5 J	ND	ND	27 J	896
Other SVOCs										
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	0.24 U	0.5 U	0.61 U	0.31 U	5.2 U	11 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	0.18 U	0.37 U	0.45 U	0.23 U	3.8 U	7.9 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	0.095 U	0.2 U	0.24 U	0.12 U	2 U	4.2 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	0.22 U	0.45 U	0.55 U	0.27 U	4.6 U	9.5 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	4.1 U	8.5 U	10 U	5.2 U	89 U	180 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	0.18 U	0.38 U	0.47 U	0.23 U	4 U	8.1 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	0.11 U	0.22 U	0.27 U	0.13 U	2.3 U	4.6 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-1 11-12.3 5/18/2015	SB-1 17-18.2 5/18/2015	SB-1 23-24.3 5/18/2015	SB-1 27-27.8 5/18/2015	SB-2 0-1 5/7/2015	SB-2 7-7.9 5/12/2015
2-Chloronaphthalene	NE	NE	NE	mg/kg	0.15 U	0.3 U	0.37 U	0.19 U	3.2 U	6.5 U
2-Chlorophenol	NE	NE	NE	mg/kg	0.16 U	0.34 U	0.41 U	0.21 U	3.5 U	7.2 U
2-Methylphenol (o-cresol)	1000	NE	0.33	mg/kg	0.11 U	0.22 U	0.27 U	0.13 U	2.3 U	4.6 U
2-Nitroaniline	NE	NE	NE	mg/kg	0.13 U	0.27 U	0.33 U	0.17 U	2.8 U	5.8 U
2-Nitrophenol	NE	NE	NE	mg/kg	0.25 U	0.52 U	0.64 U	0.32 U	5.4 U	11 U
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	1.1 U	2.2 U	2.7 U	1.3 U	23 U	46 U
3-Nitroaniline	NE	NE	NE	mg/kg	0.25 U	0.51 U	0.63 U	0.31 U	5.3 U	11 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	0.89 U	1.9 U	2.3 U	1.1 U	19 U	39 U
4-Bromophenyl phenyl ether	NE	NE	NE	mg/kg	0.13 U	0.26 U	0.32 U	0.16 U	2.7 U	5.6 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	0.22 U	0.46 U	0.56 U	0.28 U	4.7 U	9.7 U
4-Chloroaniline	NE	NE	NE	mg/kg	0.22 U	0.46 U	0.56 U	0.28 U	4.7 U	9.7 U
4-Chlorophenyl phenyl ether	NE	NE	NE	mg/kg	0.11 U	0.23 U	0.28 U	0.14 U	2.4 U	4.9 U
4-Methylphenol	1000	NE	0.33	mg/kg	0.11 U	0.22 U	0.27 U	0.13 U	2.3 U	4.6 U
4-Nitroaniline	NE	NE	NE	mg/kg	0.47 U	0.97 U	1.2 U	0.59 U	10 U	21 U
4-Nitrophenol	NE	NE	NE	mg/kg	0.63 U	1.3 U	1.6 U	0.79 U	13 U	28 U
Acetophenone	NE	NE	NE	mg/kg	0.12 U	0.25 U	0.31 U	0.15 U	2.6 U	5.3 U
Atrazine	NE	NE	NE	mg/kg	0.31 U	0.64 U	0.79 U	0.39 U	6.7 U	14 U
Benzaldehyde	NE	NE	NE	mg/kg	0.71 U	1.5 U	1.8 U	0.9 U	15 U	31 U
Benzyl butyl phthalate	NE	NE	NE	mg/kg	0.15 U	0.3 U	0.37 U	0.19 U	3.2 U	6.5 U
Biphenyl (Diphenyl)	NE	NE	NE	mg/kg	0.13 U	0.27 U	0.33 U	0.17 U	2.8 U	5.8 U
bis(2-Chloroethoxy)methane	NE	NE	NE	mg/kg	0.19 U	0.39 U	0.48 U	0.24 U	4.1 U	8.3 U
bis(2-Chloroethyl)ether	NE	NE	NE	mg/kg	0.12 U	0.24 U	0.29 U	0.15 U	2.5 U	5.1 U
bis(2-Chloroisopropyl)ether	NE	NE	NE	mg/kg	0.18 U	0.37 U	0.45 U	0.23 U	3.8 U	7.9 U
bis(2-Ethylhexyl)phthalate	NE	NE	NE	mg/kg	0.3 U	0.63 U	0.77 U	0.39 U	6.6 U	13 U
Caprolactam	NE	NE	NE	mg/kg	0.27 U	0.56 U	0.68 U	0.34 U	5.8 U	12 U
Carbazole	NE	NE	NE	mg/kg	0.11 U	0.22 U	0.27 U	0.13 U	2.3 U	14 J
Dibenzofuran	1000	NE	210	mg/kg	0.11 U	0.22 U	0.27 U	0.13 U	2.3 U	19 J
Diethyl phthalate	NE	NE	NE	mg/kg	0.12 U	0.24 U	0.29 U	0.15 U	2.5 U	5.1 U
Dimethyl phthalate	NE	NE	NE	mg/kg	0.11 U	0.22 U	0.27 U	0.13 U	2.3 U	4.6 U
dI-n-Butyl phthalate	NE	NE	NE	mg/kg	0.15 U	0.32 U	0.39 U	0.19 U	3.3 U	6.7 U
dI-n-Octyl phthalate	NE	NE	NE	mg/kg	0.11 U	0.22 U	0.27 U	0.13 U	2.3 U	4.6 U
Hexachlorobenzene	12	NE	3.2	mg/kg	0.12 U	0.25 U	0.31 U	0.15 U	2.6 U	5.3 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	0.13 U	0.27 U	0.33 U	0.17 U	2.8 U	5.8 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	0.12 U	0.25 U	0.31 U	0.15 U	2.6 U	5.3 U
Hexachloroethane	NE	NE	NE	mg/kg	0.12 U	0.24 U	0.29 U	0.15 U	2.5 U	5.1 U
Isophorone	NE	NE	NE	mg/kg	0.19 U	0.39 U	0.48 U	0.24 U	4.1 U	8.3 U
Nitrobenzene	NE	NE	NE	mg/kg	0.1 U	0.21 U	0.25 U	0.13 U	2.1 U	4.4 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	0.15 U	0.32 U	0.39 U	0.19 U	3.3 U	6.7 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	0.73 U	1.5 U	1.8 U	0.92 U	16 U	32 U
Pentachlorophenol	55	0.8	0.8	mg/kg	0.89 U	1.9 U	2.3 U	1.1 U	19 U	39 U
Phenol	1000	30	0.33	mg/kg	0.14 U	0.28 U	0.35 U	0.17 U	2.9 U	6 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-1 11-12.3 5/18/2015	SB-1 17-18.2 5/18/2015	SB-1 23-24.3 5/18/2015	SB-1 27-27.8 5/18/2015	SB-2 0-1 5/7/2015	SB-2 7-7.9 5/12/2015
Inorganic Constituents										
Cyanide, total	10000	NE	40	mg/kg	0.5 U	0.53 U	0.65 U	0.65 U	7.1	0.56 U
Aluminum	NE	NE	NE	mg/kg	4050	2350	8340	7190	1510	9050
Antimony	NE	NE	NE	mg/kg	2 U	2.2 U	0.5 U	0.56 U	0.43 U	0.43 U
Arsenic	16	13	16	mg/kg	**17.5**	**15.2**	3	1.8 J	12.6	**15.1**
Barium	10000	433	820	mg/kg	22.3	18.2	57.2	43.1	62.8	91.9
Beryllium	2700	10	47	mg/kg	0.81 J	0.83 J	0.89	0.31	0.51	1.2
Cadmium	60	4	7.5	mg/kg	0.15 U	0.16 U	0.11 JB	0.12 JB	0.045 J	0.32 U
Calcium	NE	NE	NE	mg/kg	3570 B	4000 B	3180 B	4870 B	1150 B	56100 B
Chromium	NE	NE	19	mg/kg	**31.2**	17.5	10.1	8.6	8.1	**28.7**
Cobalt	NE	NE	NE	mg/kg	11.3	9.6	8.6	6	2.1	7.5
Copper	10000	50	1720	mg/kg	**81.3**	18.3	16	8	18.1	21
Iron	NE	NE	NE	mg/kg	115000 B^	82900 B^	14600 B	11800 B	10900 B	178000 B
Lead	3900	63	450	mg/kg	21.2	11	22.7	4.7	**161**	24
Magnesium	NE	NE	NE	mg/kg	396	706	3560	4440	384	2330
Manganese	10000	1600	2000	mg/kg	**2180 B^**	643 B^	215 B	139 B	50.7 B	**2190 B**
Nickel	10000	30	130	mg/kg	16.8 J	11.9	14.1	10.7	8.7	18.7 J
Potassium	NE	NE	NE	mg/kg	433	351	1200	959	615	930
Selenium	6800	3.9	4	mg/kg	2 U	2.2 U	0.5 U	0.56 U	1.1 J	2.2 U
Silver	6800	2	8.3	mg/kg	1 U	1.1 U	0.25 U	0.28 U	0.21 U	0.22 U
Sodium	NE	NE	NE	mg/kg	712 U	759 U	174 U	194 U	150 U	756 U
Thallium	NE	NE	NE	mg/kg	1.5 U	1.6 U	0.37 U	0.42 U	0.32 U	0.32 U
Vanadium	NE	NE	NE	mg/kg	53	48	18.8	10.9	22.4	75.9
Zinc	10000	109	2480	mg/kg	26.3 B	11.8 B	44.3 B	41 B	26.9 B	20.5 B
Mercury	5.7	0.18	0.73	mg/kg	0.019 J	0.023	0.032	0.011 U	**7**	**0.27**
Pesticides										
4,4'-DDD	180	0.0033	14	mg/kg	0.00034 U	0.00036 U	0.00043 U	0.00044 U	0.092 U	0.037 U
4,4'-DDE	120	0.0033	17	mg/kg	0.00037 U	0.00038 U	0.00047 U	0.00047 U	0.099 U	0.04 U
4,4'-DDT	94	0.0033	136	mg/kg	0.00041 U	0.00043 U	0.00052 U	0.00053 U	0.11 U	0.045 U
Aldrin	1.4	0.14	0.19	mg/kg	0.00044 U	0.00045 U	0.00055 U	0.00055 U	0.12 U	0.047 U
alpha Endosulfan (Endosulfan I)	920	NE	102	mg/kg	0.00034 U	0.00035 U	0.00043 U	0.00043 U	0.09 U	0.037 U
beta Endosulfan (Endosulfan II)	920	NE	102	mg/kg	0.00032 U	0.00033 U	0.0004 U	0.0004 U	0.085 U	0.035 U
BHC, alpha	6.8	0.04	0.02	mg/kg	0.0018 U	0.00033 U	0.0004 U	0.0004 U	0.085 U	0.035 U
BHC, beta	14	0.6	0.09	mg/kg	0.0018 U	0.0018 U	0.0004 U	0.0004 U	0.085 U	0.035 U
BHC, delta	1000	0.04	0.25	mg/kg	0.00033 U	0.00034 U	0.00042 U	0.00042 U	0.088 U	**0.08 NJ**
BHC, gamma (Lindane)	23	6	0.1	mg/kg	0.00033 U	0.00034 U	0.00041 U	0.00041 U	0.086 U	0.035 U
Chlordane, alpha	47	1.3	2.9	mg/kg	0.00088 U	0.00091 U	0.0011 U	0.0011 U	0.23 U	0.096 U
Chlordane, beta	NE	NE	NE	mg/kg	0.00056 U	0.00058 U	0.00071 U	0.00071 U	0.15 U	0.061 U
Dieldrin	2.8	0.006	0.1	mg/kg	0.00043 U	0.00044 U	0.00054 U	0.00054 U	0.11 U	0.046 U
Endosulfan sulfate	920	NE	1000	mg/kg	0.00033 U	0.00034 U	0.00042 U	0.00042 U	0.088 U	0.11 J
Endrin	410	0.014	0.06	mg/kg	0.00035 U	0.00036 U	0.00044 U	0.00044 U	0.093 U	0.038 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-1 11-12.3 5/18/2015	SB-1 17-18.2 5/18/2015	SB-1 23-24.3 5/18/2015	SB-1 27-27.8 5/18/2015	SB-2 0-1 5/7/2015	SB-2 7-7.9 5/12/2015
Endrin aldehyde	NE	NE	NE	mg/kg	0.00045 U	0.00047 U	0.00057 U	0.00057 U	0.12 U	0.049 U
Endrin ketone	NE	NE	NE	mg/kg	0.0018 U	0.0018 U	0.00055 U	0.00055 U	0.12 U	0.13 J
Heptachlor	29	0.14	0.38	mg/kg	0.00038 U	0.0004 U	0.00048 U	0.00049 U	0.1 U	0.042 U
Heptachlor epoxide	NE	NE	NE	mg/kg	0.00046 U	0.00047 U	0.00058 U	0.00058 U	0.12 U	0.05 U
Methoxychlor	NE	NE	NE	mg/kg	0.00036 U	0.006 U	0.00046 U	0.00046 U	0.096 U	0.039 U
Toxaphene	NE	NE	NE	mg/kg	0.01 U	0.011 U	0.013 U	0.013 U	2.7 U	1.1 U
Polychlorinated Biphenyls (PCBs)										
Aroclor 1016	NE	NE	3.2	mg/kg	0.051 U	0.047 U	0.061 U	0.05 U	0.052 U	0.055 U
Aroclor 1221	NE	NE	3.2	mg/kg	0.051 U	0.047 U	0.061 U	0.05 U	0.052 U	0.055 U
Aroclor 1232	NE	NE	3.2	mg/kg	0.051 U	0.047 U	0.061 U	0.05 U	0.052 U	0.055 U
Aroclor 1242	NE	NE	3.2	mg/kg	0.051 U	0.047 U	0.061 U	0.05 U	0.052 U	0.055 U
Aroclor 1248	NE	NE	3.2	mg/kg	0.051 U	0.047 U	0.061 U	0.05 U	0.052 U	0.055 U
Aroclor 1254	NE	NE	3.2	mg/kg	0.12 U	0.11 U	0.15 U	0.12 U	0.12 U	0.13 U
Aroclor 1260	NE	NE	3.2	mg/kg	0.12 U	0.11 U	0.15 U	0.12 U	0.12 U	0.13 U
Total PCBs	25	1.0	3.2	mg/kg	ND	ND	ND	ND	ND	ND

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value show is approximate and may be inaccurate or imprecise.
N J - The analyte detection if tentative in indentification and estimated in value.
B - Constituent was found in the blank and the sample.
R - Result rejected as determined by the data validator.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
F2 - MS/MSD Relative Percent Difference (RPD) exceeds control limits.
^ - Instrument related QC is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
NE - Not established.
ND - Not detected
(a) - City of Troy Official Zoning Map

Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for: Protection of Public Health for Industrially Zoned Properties, Protection of Ecological Resources, and/or Protection of Groundwater.

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-2 13-14.5 5/12/2015	SB-2 19-19.3 5/13/2015	SB-2 25-25.8 5/13/2015	SB-2 31-32 5/13/2015	SB-3 3-4 5/5/2015	SB-3 7-8.7 5/14/2015
Volatile Organic Compounds (VOCs)										
BTEX										
Benzene	89	70	0.06	mg/kg	**37**	**2.5**	**1.5**	0.011	0.00027 U	0.00023 U
Toluene	1000	36	0.7	mg/kg	**54**	**3.2**	**2.1**	0.013	0.00041 U	0.00036 U
Ethylbenzene	780	NE	1	mg/kg	**3.6 J**	0.23 J	0.15 J	0.0014 J	0.00038 U	0.00033 U
Xylenes, total	1000	0.26	1.6	mg/kg	**85**	**5.1**	**3.6**	0.022	0.00092 U	0.0008 U
Total BTEX	NE	NE	NE	mg/kg	180	11	7.4	0.047	ND	ND
Other VOCs										
1,1,1-Trichloroethane	1000	NE	0.68	mg/kg	1.2 U	0.19 U	0.1 U	0.0004 U	0.0004 U	0.00034 U
1,1,2,2-Tetrachloroethane	NE	NE	NE	mg/kg	0.69 U	0.11 U	0.061 U	0.00089 U	0.00088 U	0.00077 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NE	NE	NE	mg/kg	2.1 U	0.34 U	0.19 U	0.0013 U	0.0012 U	0.0011 U
1,1,2-Trichloroethane	NE	NE	NE	mg/kg	0.89 U	0.14 U	0.079 U	0.00071 U	0.00071 U	0.00062 U
1,1-Dichloroethane	480	NE	0.27	mg/kg	1.3 U	0.21 U	0.12 U	0.00067 U	0.00067 U	0.00058 U
1,1-Dichloroethene	1000	NE	0.33	mg/kg	1.5 U	0.24 U	0.13 U	0.00067 U	0.00067 U	0.00058 U
1,2,4-Trichlorobenzene	NE	NE	NE	mg/kg	1.6 UJ	0.26 U	0.14 U	0.00033 U	0.00033 U	0.00029 U
1,2-Dibromo-3-chloropropane (DBCP)	NE	NE	NE	mg/kg	2.1 U	0.34 U	0.19 U	0.0027 U	0.0027 U	0.0024 U
1,2-Dibromoethane (EDB)	NE	NE	NE	mg/kg	0.74 U	0.12 U	0.066 U	0.0007 U	0.0007 U	0.00061 U
1,2-Dichlorobenzene	1000	NE	1.1	mg/kg	1.1 U	0.18 U	0.096 U	0.00043 U	0.00043 UJ	0.00037 U
1,2-Dichloroethane	60	10	0.02	mg/kg	1.7 U	0.28 U	0.15 U	0.00028 U	0.00027 U	0.00024 U
1,2-Dichloropropane	NE	NE	NE	mg/kg	0.69 U	0.11 U	0.061 U	0.0027 U	0.0027 U	0.0024 U
1,3-Dichlorobenzene	560	NE	2.4	mg/kg	1.1 U	0.18 U	0.1 U	0.00028 U	0.00028 UJ	0.00024 UJ
1,4-Dichlorobenzene	250	20	1.8	mg/kg	0.59 U	0.097 U	0.053 U	0.00077 U	0.00076 U	0.00066 UJ
2-Butanone (MEK)	1000	100	0.12	mg/kg	13 U	2 U	1.1 U	0.002 U	0.002 U	0.0017 U
2-Hexanone	NE	NE	NE	mg/kg	8.7 U	1.4 U	0.77 U	0.0027 U	0.0027 U	0.0024 U
4-Methyl-2-pentanone (MIBK)	NE	NE	NE	mg/kg	1.4 U	0.22 U	0.12 U	0.0018 U	0.0018 U	0.0016 U
Acetone	1000	2.2	0.05	mg/kg	17 U	2.8 U	1.6 U	0.027 U	0.0046 U	0.024 U
Bromodichloromethane	NE	NE	NE	mg/kg	0.85 U	0.14 U	0.076 U	0.00073 U	0.00073 U	0.00064 U
Bromoform	NE	NE	NE	mg/kg	2.1 U	0.34 U	0.19 U	0.0027 U	0.0027 U	0.0024 U
Bromomethane	NE	NE	NE	mg/kg	0.93 U	0.15 U	0.083 U	0.00049 U	0.00049 U	0.00043 U
Carbon disulfide	NE	NE	NE	mg/kg	1.9 U	0.31 U	0.17 U	0.0027 U	0.0027 U	0.0024 U
Carbon tetrachloride	44	NE	0.76	mg/kg	1.1 U	0.18 U	0.096 U	0.00053 U	0.00053 U	0.00046 U
Chlorobenzene	1000	40	1.1	mg/kg	0.56 U	0.091 U	0.05 U	0.00072 U	0.00072 U	0.00063 U
Chloroethane	NE	NE	NE	mg/kg	0.88 U	0.14 U	0.079 U	0.0012 U	0.0012 U	0.0011 U
Chloroform	700	12	0.37	mg/kg	2.9 U	0.47 U	0.26 U	0.00034 U	0.00034 U	0.00029 U
Chloromethane	NE	NE	NE	mg/kg	1 U	0.16 U	0.09 U	0.00033 U	0.00033 U	0.00029 U
cis-1,2-Dichloroethene	1000	NE	0.25	mg/kg	1.2 U	0.19 U	0.1 U	0.0007 U	0.0007 U	0.00061 U
cis-1,3-Dichloropropene	NE	NE	NE	mg/kg	1 U	0.16 U	0.09 U	0.00079 U	0.00079 U	0.00068 U
Cyclohexane	NE	NE	NE	mg/kg	0.94 U	0.15 U	0.084 U	0.00077 U	0.00076 U	0.00066 U
Dibromochloromethane	NE	NE	NE	mg/kg	2.1 U	0.33 U	0.18 U	0.0007 U	0.0007 U	0.00061 U
Dichlorodifluoromethane (Freon 12)	NE	NE	NE	mg/kg	1.9 U	0.3 U	0.16 U	0.00045 U	0.00045 U	0.00039 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[a]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-2 13-14.5 5/12/2015	SB-2 19-19.3 5/13/2015	SB-2 25-25.8 5/13/2015	SB-2 31-32 5/13/2015	SB-3 3-4 5/5/2015	SB-3 7-8.7 5/14/2015
Isopropylbenzene (Cumene)	NE	NE	NE	mg/kg	0.64 U	0.1 U	0.057 U	0.0031 J	0.00082 U	0.00072 U
Methyl acetate	NE	NE	NE	mg/kg	2 U	0.99	0.18 U	0.0033 U	0.0033 U	0.0029 U
Methylcyclohexane	NE	NE	NE	mg/kg	2 U	0.32 U	0.18 U	0.00083 U	0.00083 U	0.00072 U
Methylene chloride	1000	12	0.05	mg/kg	0.84 U	0.14 U	0.075 U	0.0025 U	0.0025 U	0.0022 U
Styrene	NE	NE	NE	mg/kg	6.4	0.24 J	0.31 J	0.0013 J	0.00027 U	0.00024 U
tert-Butyl methyl ether (MTBE)	1000	NE	0.93	mg/kg	1.6 U	0.26 U	0.14 U	0.00054 U	0.00054 U	0.00047 U
Tetrachloroethene (PCE)	300	2	1.3	mg/kg	0.57 U	0.093 U	0.051 U	0.00074 U	0.00073 U	0.00064 U
trans-1,2-Dichloroethene	1000	NE	0.19	mg/kg	1 U	0.16 U	0.089 U	0.00057 U	0.00056 U	0.00049 U
trans-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.42 U	0.068 U	0.037 U	0.0024 U	0.0024 U	0.0021 U
Trichloroethene (TCE)	400	2	0.47	mg/kg	1.2 U	0.19 U	0.11 U	0.0012 U	0.0012 U	0.001 U
Trichlorofluoromethane (Freon 11)	NE	NE	NE	mg/kg	2 U	0.32 U	0.18 U	0.00052 U	0.00052 U	0.00045 U
Vinyl chloride	27	NE	0.02	mg/kg	1.4 U	0.23 U	0.13 U	0.00067 U	0.00067 U	0.00058 U
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1000	20	98	mg/kg	**110 J**	3.2 J	0.74 U	0.62 U	1.3 U	0.14 U
Acenaphthylene	1000	NE	107	mg/kg	**870**	7.1	6.6	1.2 J	4 J	0.12 U
Anthracene	1000	NE	1000	mg/kg	**1400**	14	12	2.3 J	4.7 J	0.24 U
Benzo(a)anthracene	11	NE	1	mg/kg	**1400**	**14**	**10**	**2.7 J**	**15**	0.53 J
Benzo(a)pyrene	1.1	2.6	22	mg/kg	**840**	**8.8**	**6.6**	**1.8 J**	**10**	0.26 J
Benzo(b)fluoranthene	11	NE	1.7	mg/kg	**1200**	**11**	**8.5**	**2.4 J**	**14**	0.38 J
Benzo(g,h,i)perylene	1000	NE	1000	mg/kg	430	4 J	2.9 J	0.84 J	6.8 J	0.19 J
Benzo(k)fluoranthene	110	NE	1.7	mg/kg	**480**	**7.1**	**7**	1.3 J	**5.9 J**	0.15 J
Chrysene	110	NE	1	mg/kg	**1200**	**12**	**9**	**2.5 J**	**15**	0.31 J
Dibenz(a,h)anthracene	1.1	NE	1000	mg/kg	76 U	**2 J**	**1.4 J**	0.74 U	1.6 U	0.17 U
Fluoranthene	1000	NE	1000	mg/kg	**2800**	31	23	6.1	25	0.42 J
Fluorene	1000	30	386	mg/kg	**1700**	20	17	3.7 J	3.7 J	0.11 U
Indeno(1,2,3-c,d)pyrene	11	NE	8.2	mg/kg	**440**	4.4	3.4 J	0.89 J	6.5 J	0.18 J
Naphthalene	1000	NE	12	mg/kg	**7000**	**66**	**47**	12	1.2 U	0.12 U
Phenanthrene	1000	NE	1000	mg/kg	**4400**	47	37	9.1	25	0.45 J
Pyrene	1000	NE	1000	mg/kg	**2000**	22	17	4.5	25	0.49 J
2-Methylnaphthalene	NE	NE	NE	mg/kg	1700	19	14	3.4 J	1.8 U	0.19 U
Total PAHS	NE	NE	NE	mg/kg	27970	293	222	55	161	3.4 J
Other SVOCs										
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	120 U	1.1 U	1.4 U	1.1 U	2.5 U	0.26 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	86 U	0.84 U	1 U	0.84 U	1.8 U	0.19 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	45 U	0.45 U	0.53 U	0.44 U	0.96 U	0.1 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	580	2.6 J	5.6	1 U	2.2 U	0.23 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	2000 U	19 U	23 U	19 U	42 U	4.4 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	88 U	4.2 U	1 U	0.86 U	1.9 U	0.2 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	50 U	4.2 U	0.59 U	0.49 U	1.1 U	0.11 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-2 13-14.5 5/12/2015	SB-2 19-19.3 5/13/2015	SB-2 25-25.8 5/13/2015	SB-2 31-32 5/13/2015	SB-3 3-4 5/5/2015	SB-3 7-8.7 5/14/2015
2-Chloronaphthalene	NE	NE	NE	mg/kg	70 U	0.69 U	0.83 U	0.69 U	1.5 U	0.16 U
2-Chlorophenol	NE	NE	NE	mg/kg	78 U	0.77 U	0.92 U	0.77 U	1.7 U	0.17 U
2-Methylphenol (o-cresol)	1000	NE	0.33	mg/kg	**480**	**3.9 J**	**2.6 J**	0.49 U	1.1 U	0.11 U
2-Nitroaniline	NE	NE	NE	mg/kg	63 U	0.62 U	0.74 U	0.62 U	1.3 U	0.14 U
2-Nitrophenol	NE	NE	NE	mg/kg	120 U	1.2 U	1.4 U	1.2 U	2.6 U	0.27 U
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	500 U	5 U	5.9 U	4.9 U	11 U	1.1 U
3-Nitroaniline	NE	NE	NE	mg/kg	120 U	1.2 U	1.4 U	1.2 U	2.5 U	0.26 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	430 U	8.2 U	5 U	4.2 U	9.1 U	0.96 U
4-Bromophenyl phenyl ether	NE	NE	NE	mg/kg	60 U	0.59 U	0.71 U	0.59 U	1.3 U	0.13 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	110 U	1 U	1.2 U	1 U	2.2 U	0.24 U
4-Chloroaniline	NE	NE	NE	mg/kg	110 U	1 U	1.2 U	1 U	2.2 U	0.24 U
4-Chlorophenyl phenyl ether	NE	NE	NE	mg/kg	53 U	0.52 U	0.62 U	0.52 U	1.1 U	0.12 U
4-Methylphenol	1000	NE	0.33	mg/kg	**1300**	**10**	**8.1 J**	**1.8 J**	1.1 U	0.11 U
4-Nitroaniline	NE	NE	NE	mg/kg	220 U	2.2 U	2.6 U	2.2 U	4.8 U	0.5 U
4-Nitrophenol	NE	NE	NE	mg/kg	300 U	2.9 U	3.5 U	2.9 U	6.4 U	0.67 U
Acetophenone	NE	NE	NE	mg/kg	58 U	0.57 U	0.68 U	0.57 U	1.2 U	0.13 U
Atrazine	NE	NE	NE	mg/kg	150 U	4.2 U	1.8 U	1.5 U	3.1 U	0.33 U
Benzaldehyde	NE	NE	NE	mg/kg	340 U	3.3 U	4 U	3.3 U	7.2 U	0.76 U
Benzyl butyl phthalate	NE	NE	NE	mg/kg	70 U	0.69 U	0.83 U	0.69 U	1.5 U	0.16 U
Biphenyl (Diphenyl)	NE	NE	NE	mg/kg	270 J	3.1 J	0.74 U	0.62 U	1.3 U	0.14 U
bis(2-Chloroethoxy)methane	NE	NE	NE	mg/kg	91 U	0.89 U	1.1 U	0.89 U	1.9 U	0.2 U
bis(2-Chloroethyl)ether	NE	NE	NE	mg/kg	55 U	0.54 U	0.65 U	0.54 U	1.2 U	0.12 U
bis(2-Chloroisopropyl)ether	NE	NE	NE	mg/kg	86 U	0.84 U	1 U	0.84 U	1.8 U	0.19 U
bis(2-Ethylhexyl)phthalate	NE	NE	NE	mg/kg	150 U	1.4 U	1.7 U	1.4 U	3.1 U	0.33 U
Caprolactam	NE	NE	NE	mg/kg	130 U	1.3 U	1.5 U	1.3 U	2.7 U	0.29 U
Carbazole	NE	NE	NE	mg/kg	740	8.7	6.8	1.4 J	1.4 J	0.11 U
Dibenzofuran	1000	NE	210	mg/kg	**1200**	13	9.2	2.5 J	1.8 J	0.11 U
Diethyl phthalate	NE	NE	NE	mg/kg	55 U	0.54 U	0.65 U	0.54 U	1.2 U	0.12 U
Dimethyl phthalate	NE	NE	NE	mg/kg	50 U	0.5 U	0.59 U	0.49 U	1.1 U	0.11 U
dI-n-Butyl phthalate	NE	NE	NE	mg/kg	73 U	0.72 U	0.86 U	0.72 U	1.5 U	0.16 U
dI-n-Octyl phthalate	NE	NE	NE	mg/kg	50 U	0.5 U	0.59 U	0.49 U	1.1 U	0.11 U
Hexachlorobenzene	12	NE	3.2	mg/kg	58 U	0.57 U	0.68 U	0.57 U	1.2 U	0.13 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	63 U	0.62 U	0.74 U	0.62 U	1.3 U	0.14 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	58 U	0.57 U	0.68 U	0.57 U	1.2 U	0.13 U
Hexachloroethane	NE	NE	NE	mg/kg	55 U	0.54 U	0.65 U	0.54 U	1.2 U	0.12 U
Isophorone	NE	NE	NE	mg/kg	91 U	0.89 U	1.1 U	0.89 U	1.9 U	0.2 U
Nitrobenzene	NE	NE	NE	mg/kg	48 U	0.47 U	0.56 U	0.47 U	1 U	0.11 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	73 U	0.72 U	0.86 U	0.72 U	1.5 U	0.16 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	350 U	1.2 U	4.1 U	3.4 U	7.4 U	0.78 U
Pentachlorophenol	55	0.8	0.8	mg/kg	430 U	4.2 U	5 U	4.2 U	9.1 U	0.96 U
Phenol	1000	30	0.33	mg/kg	**810**	**6**	**5**	**1.1 J**	1.4 U	0.15 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-2 13-14.5 5/12/2015	SB-2 19-19.3 5/13/2015	SB-2 25-25.8 5/13/2015	SB-2 31-32 5/13/2015	SB-3 3-4 5/5/2015	SB-3 7-8.7 5/14/2015
Inorganic Constituents										
Cyanide, total	10000	NE	40	mg/kg	7.7	0.56 U	0.73 U	0.61 U	1.7	0.54 U
Aluminum	NE	NE	NE	mg/kg	2370	2130	1160	4310	8440	4370
Antimony	NE	NE	NE	mg/kg	0.49 U	0.51 U	0.57 U	0.55 U	4.1 U	2.2 U
Arsenic	16	13	16	mg/kg	12.6	**17.3**	9.2	4.4	**31.2**	**23**
Barium	10000	433	820	mg/kg	22.6	13.3	6.5	24.9	61.1	92
Beryllium	2700	10	47	mg/kg	0.35	0.51	0.43	0.4	2.7	0.98 J
Cadmium	60	4	7.5	mg/kg	0.037 U	0.19 U	0.21 U	0.041 U	0.3 U	0.17 U
Calcium	NE	NE	NE	mg/kg	1880 B	4310 B	3380 B	3560 B	12200 B	5940 B
Chromium	NE	NE	19	mg/kg	11.3	12.4	10.9	8.5	**63.5**	**41.8**
Cobalt	NE	NE	NE	mg/kg	6.5	13.7	8.7	6.1	8.3	16.4
Copper	10000	50	1720	mg/kg	36.9	26.1	10.3	9.7	19.3	**57.7**
Iron	NE	NE	NE	mg/kg	37600 ^B	57600 B	54500 B	29500 B	203000 B	120000 ^B
Lead	3900	63	450	mg/kg	55.4	18.5	12.7	8.3	**123**	34.6
Magnesium	NE	NE	NE	mg/kg	549	337	285	1730	1970 B	1310
Manganese	10000	1600	2000	mg/kg	380 ^B	441 B	453 B	372 B	**3970 B**	**4270 B**
Nickel	10000	30	130	mg/kg	17.5	**30.7**	14.1	12	14.8	25.1
Potassium	NE	NE	NE	mg/kg	618	201	73	747	878 B	644
Selenium	6800	3.9	4	mg/kg	0.62 J	0.51 U	0.57 U	0.55 U	4.1 U	2.2 U
Silver	6800	2	8.3	mg/kg	0.25 U	0.26 U	0.28 U	0.27 U	2 U	1.1 U
Sodium	NE	NE	NE	mg/kg	172 U	180 U	199 U	192 U	1420 U	777 U
Thallium	NE	NE	NE	mg/kg	0.37 U	0.39 U	0.43 U	0.41 U	1.5 U	0.33 U
Vanadium	NE	NE	NE	mg/kg	37.3	40.5	37.8	19.3	182	104
Zinc	10000	109	2480	mg/kg	41.6 B	13.2 B	5.6 B	23.7 B	48.4 B	23.4 B
Mercury	5.7	0.18	0.73	mg/kg	**0.48**	0.032	0.012 U	0.018 J	0.088	0.048
Pesticides										
4,4'-DDD	180	0.0033	14	mg/kg	0.1 U	0.02 U	0.024 U	0.0041 U	0.017 U	0.00036 U
4,4'-DDE	120	0.0033	17	mg/kg	0.11 U	0.022 U	0.026 U	0.0044 U	0.019 U	0.00039 U
4,4'-DDT	94	0.0033	136	mg/kg	0.12 U	0.024 U	0.028 U	0.0049 U	0.021 U	0.00043 U
Aldrin	1.4	0.14	0.19	mg/kg	0.13 U	0.026 U	0.03 U	0.0051 U	0.022 U	0.00046 U
alpha Endosulfan (Endosulfan I)	920	NE	102	mg/kg	0.1 U	0.02 U	0.023 U	0.004 U	0.017 U	0.00036 U
beta Endosulfan (Endosulfan II)	920	NE	102	mg/kg	0.096 U	0.019 U	0.022 U	0.0038 U	0.016 U	0.00033 U
BHC, alpha	6.8	0.04	0.02	mg/kg	0.096 U	0.019 U	0.022 U	0.0038 U	0.016 U	0.00033 U
BHC, beta	14	0.6	0.09	mg/kg	0.096 U	0.1 U	0.025 J	0.0046 J	0.016 U	0.0019 U
BHC, delta	1000	0.04	0.25	mg/kg	**0.23 NJ**	0.028 NJ	0.023 U	0.0039 U	0.089 U	0.00034 U
BHC, gamma (Lindane)	23	6	0.1	mg/kg	0.098 U	0.019 U	0.022 U	0.0038 U	0.016 U	0.00034 U
Chlordane, alpha	47	1.3	2.9	mg/kg	0.27 U	0.052 U	0.061 U	0.01 U	0.044 U	0.00092 U
Chlordane, beta	NE	NE	NE	mg/kg	0.17 U	0.033 U	0.039 U	0.0067 U	0.028 U	0.00059 U
Dieldrin	2.8	0.006	0.1	mg/kg	0.13 U	0.025 U	0.029 U	0.005 U	0.021 U	0.00044 U
Endosulfan sulfate	920	NE	1000	mg/kg	0.39 J	0.019 U	0.023 U	0.0039 U	0.089 U	0.00035 U
Endrin	410	0.014	0.06	mg/kg	0.11 U	0.021 U	0.024 U	0.0041 U	**0.022 J**	0.00037 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-2 13-14.5 5/12/2015	SB-2 19-19.3 5/13/2015	SB-2 25-25.8 5/13/2015	SB-2 31-32 5/13/2015	SB-3 3-4 5/5/2015	SB-3 7-8.7 5/14/2015
Endrin aldehyde	NE	NE	NE	mg/kg	0.14 U	0.027 U	0.031 U	0.0053 U	0.023 U	0.0013 NJ
Endrin ketone	NE	NE	NE	mg/kg	0.13 U	0.026 U	0.03 U	0.0051 U	0.022 U	0.0019 U
Heptachlor	29	0.14	0.38	mg/kg	0.12 U	0.023 U	0.026 U	0.0045 U	0.019 U	0.0004 U
Heptachlor epoxide	NE	NE	NE	mg/kg	0.14 U	0.027 U	0.031 U	0.0054 U	0.023 U	0.00048 U
Methoxychlor	NE	NE	NE	mg/kg	0.11 U	0.021 U	0.025 U	0.0043 U	0.018 U	0.00038 U
Toxaphene	NE	NE	NE	mg/kg	3.1 U	0.61 U	0.71 U	0.12 U	0.52 U	0.011 U
Polychlorinated Biphenyls (PCBs)										
Aroclor 1016	NE	NE	3.2	mg/kg	0.06 U	0.058 U	0.064 U	0.051 U	0.045 U	0.037 U
Aroclor 1221	NE	NE	3.2	mg/kg	0.06 U	0.058 U	0.064 U	0.051 U	0.045 U	0.037 U
Aroclor 1232	NE	NE	3.2	mg/kg	0.06 U	0.058 U	0.064 U	0.051 U	0.045 U	0.037 U
Aroclor 1242	NE	NE	3.2	mg/kg	0.06 U	0.058 U	0.064 U	0.051 U	0.045 U	0.037 U
Aroclor 1248	NE	NE	3.2	mg/kg	0.06 U	0.058 U	0.064 U	0.051 U	0.045 U	0.037 U
Aroclor 1254	NE	NE	3.2	mg/kg	0.14 U	0.14 U	0.15 U	0.12 U	0.11 U	0.089 U
Aroclor 1260	NE	NE	3.2	mg/kg	0.14 U	0.14 U	0.15 U	0.12 U	0.11 U	0.089 U
Total PCBs	25	1.0	3.2	mg/kg	ND	ND	ND	ND	ND	ND

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value show is approximate and may be inaccurate or imprecise.
N J - The analyte detection if tentative in indentification and estimated in value.
B - Constituent was found in the blank and the sample.
R - Result rejected as determined by the data validator.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
F2 - MS/MSD Relative Percent Difference (RPD) exceeds control limits.
^ - Instrument related QC is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
NE - Not established.
ND - Not detected
(a) - City of Troy Official Zoning Map

Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for: Protection of Public Health for Industrially Zoned Properties, Protection of Ecological Resources, and/or Protection of Groundwater.

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[a]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-3 13-14 5/14/2015	SB-3 21-22.3 5/14/2015	SB-3 25-25.4 5/14/2015	SB-3 29-29.7 5/14/2015	SB-4 3-4 5/7/2015	SB-4 9-10.5 5/13/2015
Volatile Organic Compounds (VOCs)										
BTEX										
Benzene	89	70	0.06	mg/kg	0.00021 U	0.00026 U	0.00032 U	0.00028 U	0.00043 UJ	0.0028 J
Toluene	1000	36	0.7	mg/kg	0.00033 U	0.00041 U	0.0005 U	0.0048 J	0.00066 UJ	0.0026 J
Ethylbenzene	780	NE	1	mg/kg	0.0003 U	0.00037 U	0.00045 U	0.0004 U	0.0006 UJ	0.0016 J
Xylenes, total	1000	0.26	1.6	mg/kg	0.00073 U	0.0009 U	0.0011 U	0.00098 U	0.0015 UJ	0.0012 UJ
Total BTEX	NE	NE	NE	mg/kg	ND	ND	ND	0.0048 J	ND	0.007 J
Other VOCs										
1,1,1-Trichloroethane	1000	NE	0.68	mg/kg	0.00031 U	0.00039 U	0.00048 U	0.00042 U	0.00063 U	0.00051 UJ
1,1,2,2-Tetrachloroethane	NE	NE	NE	mg/kg	0.0007 U	0.00087 U	0.0011 UJ	0.00094 UJ	0.0014 UJ	0.0011 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NE	NE	NE	mg/kg	0.00099 U	0.0012 U	0.0015 U	0.0013 U	0.002 U	0.0016 UJ
1,1,2-Trichloroethane	NE	NE	NE	mg/kg	0.00056 U	0.0007 U	0.00085 U	0.00076 U	0.0011 UJ	0.00092 UJ
1,1-Dichloroethane	480	NE	0.27	mg/kg	0.00053 U	0.00065 U	0.0008 U	0.00071 U	0.0011 UJ	0.00086 UJ
1,1-Dichloroethene	1000	NE	0.33	mg/kg	0.00053 U	0.00066 U	0.0008 U	0.00071 U	0.0011 U	0.00086 UJ
1,2,4-Trichlorobenzene	NE	NE	NE	mg/kg	0.00026 U	0.00033 U	0.0004 U	0.00035 UJ	0.00053 UJ	0.0071 UJ
1,2-Dibromo-3-chloropropane (DBCP)	NE	NE	NE	mg/kg	0.0022 U	0.0027 U	0.0033 U	0.0029 UJ	0.0044 UJ	0.0035 UJ
1,2-Dibromoethane (EDB)	NE	NE	NE	mg/kg	0.00056 U	0.00069 U	0.00084 U	0.00075 U	0.0011 UJ	0.00091 UJ
1,2-Dichlorobenzene	1000	NE	1.1	mg/kg	0.00034 U	0.00042 U	0.00051 U	0.00045 UJ	0.00068 UJ	0.00055 UJ
1,2-Dichloroethane	60	10	0.02	mg/kg	0.00022 U	0.00027 U	0.00033 U	0.00029 U	0.00044 UJ	0.00035 UJ
1,2-Dichloropropane	NE	NE	NE	mg/kg	0.0022 U	0.0027 U	0.0033 U	0.0029 U	0.0044 UJ	0.0035 UJ
1,3-Dichlorobenzene	560	NE	2.4	mg/kg	0.00022 UJ	0.00028 UJ	0.00034 UJ	0.0003 UJ	0.00045 UJ	0.00036 UJ
1,4-Dichlorobenzene	250	20	1.8	mg/kg	0.00061 UJ	0.00075 UJ	0.00092 UJ	0.00081 UJ	0.0012 UJ	0.00099 UJ
2-Butanone (MEK)	1000	100	0.12	mg/kg	0.0016 U	0.002 U	0.0024 U	0.0021 U	0.0032 UJ	0.0026 UJ
2-Hexanone	NE	NE	NE	mg/kg	0.0022 U	0.0027 U	0.0033 U	0.0029 U	0.0044 UJ	0.0035 UJ
4-Methyl-2-pentanone (MIBK)	NE	NE	NE	mg/kg	0.0014 U	0.0018 U	0.0022 U	0.0019 U	0.0029 U	0.0023 UJ
Acetone	1000	2.2	0.05	mg/kg	0.022 U	0.027 U	0.033 U	0.029 U	0.0073 U	0.0059 UJ
Bromodichloromethane	NE	NE	NE	mg/kg	0.00058 U	0.00072 U	0.00088 U	0.00078 U	0.0012 UJ	0.00095 UJ
Bromoform	NE	NE	NE	mg/kg	0.0022 U	0.0027 U	0.0033 U	0.0029 U	0.0044 UJ	0.0035 UJ
Bromomethane	NE	NE	NE	mg/kg	0.00039 U	0.00048 U	0.00059 U	0.00052 U	0.00078 U	0.00064 UJ
Carbon disulfide	NE	NE	NE	mg/kg	0.0022 U	0.0027 U	0.0033 U	0.0029 U	0.0044 UJ	0.0035 UJ
Carbon tetrachloride	44	NE	0.76	mg/kg	0.00042 U	0.00052 U	0.00064 U	0.00056 U	0.00084 UJ	0.00068 UJ
Chlorobenzene	1000	40	1.1	mg/kg	0.00057 U	0.00071 U	0.00087 U	0.00077 U	0.0087 UJ	0.00093 UJ
Chloroethane	NE	NE	NE	mg/kg	0.00098 U	0.0012 U	0.0015 U	0.0013 U	0.002 U	0.0016 UJ
Chloroform	700	12	0.37	mg/kg	0.00027 U	0.00033 U	0.00041 U	0.00036 U	0.00054 UJ	0.00044 UJ
Chloromethane	NE	NE	NE	mg/kg	0.00026 U	0.00032 U	0.0004 U	0.00035 U	0.00053 U	0.00043 UJ
cis-1,2-Dichloroethene	1000	NE	0.25	mg/kg	0.00055 U	0.00069 U	0.00084 U	0.00074 U	0.0011 UJ	0.0009 UJ
cis-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.00062 U	0.00077 U	0.00095 U	0.00084 U	0.0013 UJ	0.001 UJ
Cyclohexane	NE	NE	NE	mg/kg	0.00061 U	0.00075 U	0.00092 U	0.00081 U	0.0012 U	0.00099 UJ
Dibromochloromethane	NE	NE	NE	mg/kg	0.00055 U	0.00069 U	0.00084 UJ	0.00074 U	0.0011 UJ	0.0009 UJ
Dichlorodifluoromethane (Freon 12)	NE	NE	NE	mg/kg	0.00036 U	0.00044 U	0.00054 U	0.00048 U	0.00072 U	0.00058 UJ

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[a]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-3 13-14 5/14/2015	SB-3 21-22.3 5/14/2015	SB-3 25-25.4 5/14/2015	SB-3 29-29.7 5/14/2015	SB-4 3-4 5/7/2015	SB-4 9-10.5 5/13/2015
Isopropylbenzene (Cumene)	NE	NE	NE	mg/kg	0.00065 U	0.00081 U	0.00099 U	0.00088 UJ	0.0013 UJ	0.0011 UJ
Methyl acetate	NE	NE	NE	mg/kg	0.0026 U	0.0032 U	0.004 U	0.0035 U	0.0053 U	0.0043 UJ
Methylcyclohexane	NE	NE	NE	mg/kg	0.00066 U	0.00081 U	0.001 U	0.00088 U	0.0013 U	0.0011 UJ
Methylene chloride	1000	12	0.05	mg/kg	0.002 U	0.0025 U	0.003 U	0.0027 U	0.02 J	0.0036 J
Styrene	NE	NE	NE	mg/kg	0.00022 U	0.00027 U	0.00033 U	0.00029 U	0.00044 UJ	0.00035 UJ
tert-Butyl methyl ether (MTBE)	1000	NE	0.93	mg/kg	0.00043 U	0.00053 U	0.00065 U	0.00057 U	0.00086 U	0.00069 UJ
Tetrachloroethene (PCE)	300	2	1.3	mg/kg	0.00058 U	0.00072 U	0.00088 U	0.00078 U	0.0012 UJ	0.00095 UJ
trans-1,2-Dichloroethene	1000	NE	0.19	mg/kg	0.00045 U	0.00055 U	0.00068 U	0.0006 U	0.0009 UJ	0.00073 UJ
trans-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.0019 U	0.0024 U	0.0029 U	0.0026 U	0.0038 UJ	0.0031 UJ
Trichloroethene (TCE)	400	2	0.47	mg/kg	0.00095 U	0.0012 U	0.0014 U	0.0013 U	0.0019 UJ	0.0016 UJ
Trichlorofluoromethane (Freon 11)	NE	NE	NE	mg/kg	0.00041 U	0.00051 U	0.00062 U	0.00055 U	0.00082 U	0.00078 J
Vinyl chloride	27	NE	0.02	mg/kg	0.00053 U	0.00065 U	0.0008 U	0.00071 U	0.0011 U	0.00086 UJ
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1000	20	98	mg/kg	0.13 U	0.031 U	0.18 U	0.03 U	0.26 U	0.68 U
Acenaphthylene	1000	NE	107	mg/kg	0.11 U	0.027 U	0.16 U	0.026 U	0.23 U	0.6 U
Anthracene	1000	NE	1000	mg/kg	0.22 U	0.052 U	0.3 U	0.05 U	0.44 UF2	1.1 U
Benzo(a)anthracene	11	NE	1	mg/kg	0.088 U	0.021 U	0.12 U	0.02 U	0.22 J	0.46 U
Benzo(a)pyrene	1.1	2.6	22	mg/kg	0.13 U	0.031 U	0.18 U	0.03 U	0.26 U	0.68 U
Benzo(b)fluoranthene	11	NE	1.7	mg/kg	0.14 U	0.034 U	0.19 U	0.032 U	0.55 J	0.94 J
Benzo(g,h,i)perylene	1000	NE	1000	mg/kg	0.093 U	0.022 U	0.13 U	0.021 U	1.8 U	0.49 U
Benzo(k)fluoranthene	110	NE	1.7	mg/kg	0.11 U	0.027 U	0.16 U	0.026 U	0.33 J	0.6 U
Chrysene	110	NE	1	mg/kg	0.2 U	0.047 U	0.27 U	0.045 U	0.4 U	1 U
Dibenz(a,h)anthracene	1.1	NE	1000	mg/kg	0.16 U	0.037 U	0.21 U	0.035 U	0.32 UF2	0.82 U
Fluoranthene	1000	NE	1000	mg/kg	0.093 U	0.022 U	0.13 U	0.021 U	0.29 J	0.49 U
Fluorene	1000	30	386	mg/kg	0.1 U	0.025 U	0.14 U	0.024 U	0.21 U	0.54 U
Indeno(1,2,3-c,d)pyrene	11	NE	8.2	mg/kg	0.11 U	0.026 U	0.15 U	0.025 U	0.37 J	0.57 U
Naphthalene	1000	NE	12	mg/kg	0.11 U	0.027 U	0.16 U	0.026 U	0.23 U	0.6 U
Phenanthrene	1000	NE	1000	mg/kg	0.13 J	0.031 U	0.18 U	0.03 U	0.26 U	0.68 U
Pyrene	1000	NE	1000	mg/kg	0.1 U	0.025 U	0.14 U	0.024 U	0.21 U	0.54 U
2-Methylnaphthalene	NE	NE	NE	mg/kg	0.18 U	0.042 U	0.24 U	0.04 U	0.36 U	0.93 U
Total PAHS	NE	NE	NE	mg/kg	0.13 J	ND	ND	ND	3.6 J	0.94 J
Other SVOCs										
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	0.24 U	0.057 U	0.32 U	0.054 U	0.48 U	1.3 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	0.18 U	0.042 U	0.24 U	0.04 U	0.36 U	0.93 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	0.093 U	0.022 U	0.13 U	0.021 U	0.19 UF2	0.49 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	0.21 U	0.051 U	0.29 U	0.048 U	0.43 U	1.1 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	4.1 U	0.98 U	5.5 U	0.93 U	8.3 U	21 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	0.18 U	0.044 U	0.25 U	0.041 U	0.37 UF1	0.95 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	0.1 U	0.025 U	0.14 U	0.024 U	0.21 UF1	0.54 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[a]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-3 13-14 5/14/2015	SB-3 21-22.3 5/14/2015	SB-3 25-25.4 5/14/2015	SB-3 29-29.7 5/14/2015	SB-4 3-4 5/7/2015	SB-4 9-10.5 5/13/2015
2-Chloronaphthalene	NE	NE	NE	mg/kg	0.15 U	0.035 U	0.2 U	0.033 U	0.29 U	0.76 U
2-Chlorophenol	NE	NE	NE	mg/kg	0.16 U	0.039 U	0.22 U	0.037 U	0.33 UF2	0.84 U
2-Methylphenol (o-cresol)	1000	NE	0.33	mg/kg	0.1 U	0.025 U	0.14 U	0.024 U	0.21 U	0.54 U
2-Nitroaniline	NE	NE	NE	mg/kg	0.13 U	0.031 U	0.18 U	0.03 U	0.26 U	0.68 U
2-Nitrophenol	NE	NE	NE	mg/kg	0.25 U	0.06 U	0.34 U	0.057 U	0.51 UF1	1.3 U
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	1 U	0.25 U	1.4 U	0.24 U	2.1 U	5.4 U
3-Nitroaniline	NE	NE	NE	mg/kg	0.24 U	0.059 U	0.33 U	0.056 U	0.49 U	1.3 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	0.88 U	0.21 U	1.2 U	0.2 U	1.8 UF1	4.6 U
4-Bromophenyl phenyl ether	NE	NE	NE	mg/kg	0.12 U	0.03 U	0.17 U	0.028 U	0.25 U	0.65 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	0.22 U	0.052 U	0.3 U	0.05 U	0.44 U	1.1 U
4-Chloroaniline	NE	NE	NE	mg/kg	0.22 U	0.052 U	0.3 U	0.05 U	0.44 UF2	1.1 U
4-Chlorophenyl phenyl ether	NE	NE	NE	mg/kg	0.11 U	0.026 U	0.15 U	0.025 U	0.22 UF2	0.57 U
4-Methylphenol	1000	NE	0.33	mg/kg	0.1 U	0.025 U	0.14 U	0.024 U	0.21 U	0.54 U
4-Nitroaniline	NE	NE	NE	mg/kg	0.46 U	0.11 U	0.63 U	0.11 U	0.94 U	2.4 U
4-Nitrophenol	NE	NE	NE	mg/kg	0.62 U	0.15 U	0.84 U	0.14 U	1.3 U	3.2 U
Acetophenone	NE	NE	NE	mg/kg	0.12 U	0.029 U	0.16 U	0.027 U	0.24 UF2	0.63 U
Atrazine	NE	NE	NE	mg/kg	0.31 U	0.074 U	0.42 U	0.07 U	0.62 U	1.6 U
Benzaldehyde	NE	NE	NE	mg/kg	0.7 U	0.17 U	0.95 U	0.16 U	1.4 UF2	3.7 U
Benzyl butyl phthalate	NE	NE	NE	mg/kg	0.15 U	0.035 U	0.2 U	0.033 U	0.29 UF2	0.76 U
Biphenyl (Diphenyl)	NE	NE	NE	mg/kg	0.13 U	0.031 U	0.18 U	0.03 U	0.26 U	0.68 U
bis(2-Chloroethoxy)methane	NE	NE	NE	mg/kg	0.19 U	0.045 U	0.25 U	0.043 U	0.38 UF2	0.98 U
bis(2-Chloroethyl)ether	NE	NE	NE	mg/kg	0.11 U	0.027 U	0.16 U	0.026 U	0.23 U	0.6 U
bis(2-Chloroisopropyl)ether	NE	NE	NE	mg/kg	0.18 U	0.042 U	0.24 U	0.04 U	0.36 U	0.93 U
bis(2-Ethylhexyl)phthalate	NE	NE	NE	mg/kg	0.3 U	0.072 U	0.41 U	0.069 U	0.61 UF2	1.6 U
Caprolactam	NE	NE	NE	mg/kg	0.26 U	0.064 U	0.36 U	0.06 U	0.54 U	1.4 U
Carbazole	NE	NE	NE	mg/kg	0.1 U	0.025 U	0.14 U	0.024 U	0.21 U	0.54 U
Dibenzofuran	1000	NE	210	mg/kg	0.1 U	0.025 U	0.14 U	0.024 U	0.21 U	0.54 U
Diethyl phthalate	NE	NE	NE	mg/kg	0.11 U	0.027 U	0.16 U	0.026 U	0.23 U	0.6 U
Dimethyl phthalate	NE	NE	NE	mg/kg	0.1 U	0.025 U	0.14 U	0.024 U	0.21 U	0.54 U
dI-n-Butyl phthalate	NE	NE	NE	mg/kg	0.15 U	0.036 U	0.2 U	0.034 U	0.31 U	0.79 U
dI-n-Octyl phthalate	NE	NE	NE	mg/kg	0.1 U	0.025 U	0.14 U	0.024 U	0.21 UF2	0.54 U
Hexachlorobenzene	12	NE	3.2	mg/kg	0.12 U	0.029 U	0.16 U	0.027 U	0.24 U	0.63 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	0.13 U	0.031 U	0.18 U	0.03 U	0.26 U	0.68 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	0.12 U	0.029 U	0.16 U	0.027 U	0.24 UF1	0.63 U
Hexachloroethane	NE	NE	NE	mg/kg	0.11 U	0.027 U	0.16 U	0.026 U	0.23 U	0.6 U
Isophorone	NE	NE	NE	mg/kg	0.19 U	0.045 U	0.25 U	0.043 U	0.38 U	0.98 U
Nitrobenzene	NE	NE	NE	mg/kg	0.099 U	0.024 U	0.13 U	0.022 U	0.2 U	0.52 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	0.15 U	0.036 U	0.2 U	0.034 U	0.31 U	0.79 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	0.72 U	0.17 U	0.97 U	0.16 U	1.5 UF1F2	3.8 U
Pentachlorophenol	55	0.8	0.8	mg/kg	0.88 U	0.21 U	1.2 U	0.2 U	1.8 UF1	4.6 U
Phenol	1000	30	0.33	mg/kg	0.14 U	0.032 U	0.18 UJ	0.031 UJ	0.27 U	0.71 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-3 13-14 5/14/2015	SB-3 21-22.3 5/14/2015	SB-3 25-25.4 5/14/2015	SB-3 29-29.7 5/14/2015	SB-4 3-4 5/7/2015	SB-4 9-10.5 5/13/2015
Inorganic Constituents										
Cyanide, total	10000	NE	40	mg/kg	0.5 U	0.6 U	0.68 U	0.58 U	0.52 U	0.67 U
Aluminum	NE	NE	NE	mg/kg	2790	11300	8740	10400	4480 J	6050 B
Antimony	NE	NE	NE	mg/kg	3.8 U	0.88 J	1 J	0.53 J	0.4 UJ	3 U
Arsenic	16	13	16	mg/kg	**20.3**	4.2	8.5	6.3	5.5	**20.5**
Barium	10000	433	820	mg/kg	22.7	93.4	64.2	76.8	47.9 J	62.9
Beryllium	2700	10	47	mg/kg	1.5 J	0.69	0.75	0.56	0.45	1 J
Cadmium	60	4	7.5	mg/kg	0.29 U	0.12 J	0.13 J	0.12 J	0.03 U	0.22 U
Calcium	NE	NE	NE	mg/kg	7460 B	1820 B	12700 B	17600 B	3510 J	15200 B
Chromium	NE	NE	19	mg/kg	**52.8**	14.8	**19.1**	16.1	9.2	**23**
Cobalt	NE	NE	NE	mg/kg	13.1	11.8	12.2	11.3	5.4	13.4
Copper	10000	50	1720	mg/kg	23.1	22.1	25	23.4	17.5	**51.4**
Iron	NE	NE	NE	mg/kg	168000 B	22800 B	41200 B	23100 B	13200 B	94700 B
Lead	3900	63	450	mg/kg	16.5	22.1	18.1	14.4	22.3	**87.5**
Magnesium	NE	NE	NE	mg/kg	716 B	3750	5170	7380	2160 F1	1350 B
Manganese	10000	1600	2000	mg/kg	**12800 B**	305	649	545	190 BF2	**2250 B**
Nickel	10000	30	130	mg/kg	20.2	20.3	23.4	22.1	15.4	25.3
Potassium	NE	NE	NE	mg/kg	262 J	1840	1580	2000	855 J	1010
Selenium	6800	3.9	4	mg/kg	3.8 U	0.51 U	0.57 U	0.49 U	0.4 U	3 U
Silver	6800	2	8.3	mg/kg	1.9 U	0.25 U	0.28 U	0.24 U	0.2 U	1.5 U
Sodium	NE	NE	NE	mg/kg	1350 U	178 U	198 U	182 U	162 U	1040 U
Thallium	NE	NE	NE	mg/kg	2.9 U	0.38 U	0.43 U	0.37 U	0.3 U	2.2 U
Vanadium	NE	NE	NE	mg/kg	185	21.8	33.3	19.7	11.2	95.5
Zinc	10000	109	2480	mg/kg	7.4 JB	50.2 B	47.3 B	61.7 B	32.9 B	89.4 B
Mercury	5.7	0.18	0.73	mg/kg	0.013 J	0.032	0.023 J	0.025	0.0084 U	**0.97**
Pesticides										
4,4'-DDD	180	0.0033	14	mg/kg	0.00033 U	0.00041 U	0.00046 U	0.00038 U	0.0069 U	0.022 U
4,4'-DDE	120	0.0033	17	mg/kg	0.00036 U	0.00044 U	0.0005 U	0.00042 U	0.0075 U	0.024 U
4,4'-DDT	94	0.0033	136	mg/kg	0.0004 U	0.00049 U	0.00056 U	0.00046 U	0.0084 U	0.027 U
Aldrin	1.4	0.14	0.19	mg/kg	0.00042 U	0.00051 U	0.00059 U	0.00049 U	0.0088 U	0.028 U
alpha Endosulfan (Endosulfan I)	920	NE	102	mg/kg	0.00033 U	0.0004 U	0.00046 U	0.00038 U	0.0069 UF1	0.022 U
beta Endosulfan (Endosulfan II)	920	NE	102	mg/kg	0.00031 U	0.00038 U	0.00043 U	0.00036 U	0.0064 U	0.021 U
BHC, alpha	6.8	0.04	0.02	mg/kg	0.00031 U	0.00038 U	0.00043 U	0.00036 U	0.0064 UF2	0.021 U
BHC, beta	14	0.6	0.09	mg/kg	0.00031 U	0.00038 U	0.00043 U	0.00036 U	0.0064 U	0.021 U
BHC, delta	1000	0.04	0.25	mg/kg	0.00032 U	0.00039 U	0.00044 U	0.00037 U	0.0066 U	**0.041 J**
BHC, gamma (Lindane)	23	6	0.1	mg/kg	0.00031 U	0.00038 U	0.00044 U	0.00036 U	0.0066 U	0.021 U
Chlordane, alpha	47	1.3	2.9	mg/kg	0.00085 U	0.001 U	0.0012 U	0.00099 U	0.018 U	0.057 U
Chlordane, beta	NE	NE	NE	mg/kg	0.00054 U	0.00066 U	0.00076 U	0.00063 U	0.011 U	0.037 U
Dieldrin	2.8	0.006	0.1	mg/kg	0.00041 U	0.0005 U	0.00057 U	0.00047 U	0.0086 U	0.028 U
Endosulfan sulfate	920	NE	1000	mg/kg	0.00032 U	0.00039 U	0.00044 U	0.00037 U	0.0067 U	0.021 U
Endrin	410	0.014	0.06	mg/kg	0.00034 U	0.00041 U	0.00047 U	0.00039 U	0.0071 U	0.023 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-3 13-14 5/14/2015	SB-3 21-22.3 5/14/2015	SB-3 25-25.4 5/14/2015	SB-3 29-29.7 5/14/2015	SB-4 3-4 5/7/2015	SB-4 9-10.5 5/13/2015
Endrin aldehyde	NE	NE	NE	mg/kg	0.00044 U	0.00053 U	0.00061 U	0.00051 U	0.0091 U	0.029 U
Endrin ketone	NE	NE	NE	mg/kg	0.0017	0.00051 U	0.00059 U	0.00049 U	0.0088 U	0.031 NJ
Heptachlor	29	0.14	0.38	mg/kg	0.00037 U	0.00045 U	0.00052 U	0.00043 U	0.0077 U	0.025 U
Heptachlor epoxide	NE	NE	NE	mg/kg	0.00044 U	0.00054 U	0.00061 U	0.00051 U	0.0092 U	0.03 U
Methoxychlor	NE	NE	NE	mg/kg	0.00035 U	0.00043 U	0.00049 U	0.0004 U	0.0073 U	0.023 U
Toxaphene	NE	NE	NE	mg/kg	0.01 U	0.012 U	0.014 U	0.012 U	0.21 U	0.67 U
Polychlorinated Biphenyls (PCBs)										
Aroclor 1016	NE	NE	3.2	mg/kg	0.042 U	0.054 U	0.067 U	0.058 U	0.041 U	0.061 U
Aroclor 1221	NE	NE	3.2	mg/kg	0.042 U	0.054 U	0.067 U	0.058 U	0.041 U	0.061 U
Aroclor 1232	NE	NE	3.2	mg/kg	0.042 U	0.054 U	0.067 U	0.058 U	0.041 U	0.061 U
Aroclor 1242	NE	NE	3.2	mg/kg	0.042 U	0.054 U	0.067 U	0.058 U	0.041 U	0.061 U
Aroclor 1248	NE	NE	3.2	mg/kg	0.042 U	0.054 U	0.067 U	0.058 U	0.041 U	0.061 U
Aroclor 1254	NE	NE	3.2	mg/kg	0.1 U	0.13 U	0.16 U	0.14 U	0.097 U	0.15 U
Aroclor 1260	NE	NE	3.2	mg/kg	0.1 U	0.13 U	0.16 U	0.14 U	0.097 U	0.15 U
Total PCBs	25	1.0	3.2	mg/kg	ND	ND	ND	ND	ND	ND

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value show is approximate and may be inaccurate or imprecise.
N J - The analyte detection if tentative in indentification and estimated in value.
B - Constituent was found in the blank and the sample.
R - Result rejected as determined by the data validator.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
F2 - MS/MSD Relative Percent Difference (RPD) exceeds control limits.
^ - Instrument related QC is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
NE - Not established.
ND - Not detected
(a) - City of Troy Official Zoning Map

Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for: Protection of Public Health for Industrially Zoned Properties, Protection of Ecological Resources, and/or Protection of Groundwater.

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-4 15-15.6 5/13/2015	SB-4 21-22.1 5/13/2015	SB-4 27-28.7 5/13/2015	SB-4 35-36.9 5/13/2015	SB-4 39-40.3 5/13/2015	SB-5 3-4 5/6/2015
Volatile Organic Compounds (VOCs)										
BTEX										
Benzene	89	70	0.06	mg/kg	0.00025 UJ	0.0021 J	0.00057 J	0.00039 U	0.0002 U	0.00057 J*
Toluene	1000	36	0.7	mg/kg	0.00039 UJ	0.00039 U	0.00078 J	0.0006 U	0.00031 U	0.0005 U
Ethylbenzene	780	NE	1	mg/kg	0.00035 UJ	0.00036 U	0.00037 UJ	0.00055 U	0.00029 U	0.00045 U
Xylenes, total	1000	0.26	1.6	mg/kg	0.00086 UJ	0.00087 U	0.0009 UJ	0.0013 U	0.0007 U	0.0011 U
Total BTEX	NE	NE	NE	mg/kg	ND	0.0021 J	0.0014 J	ND	ND	0.00057 J*
Other VOCs										
1,1,1-Trichloroethane	1000	NE	0.68	mg/kg	0.00037 UJ	0.00038 U	0.00039 U	0.00058 U	0.0003 U	0.00048 U
1,1,2,2-Tetrachloroethane	NE	NE	NE	mg/kg	0.00083 UJ	0.00084 U	0.00087 UJ	0.0013 U	0.00067 UJ	0.0011 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NE	NE	NE	mg/kg	0.0012 UJ	0.0012 U	0.0012 U	0.0018 U	0.00094 U	0.0015 U
1,1,2-Trichloroethane	NE	NE	NE	mg/kg	0.00066 UJ	0.00068 U	0.0007 UJ	0.001 U	0.00054 U	0.00086 U
1,1-Dichloroethane	480	NE	0.27	mg/kg	0.00062 UJ	0.00063 U	0.00066 UJ	0.00097 U	0.00051 U	0.0008 U
1,1-Dichloroethene	1000	NE	0.33	mg/kg	0.00063 UJ	0.00064 U	0.00066 U	0.00097 U	0.00051 U	0.00081 U
1,2,4-Trichlorobenzene	NE	NE	NE	mg/kg	0.00031 UJ	0.00032 U	0.00033 UJ	0.0079 U	0.00025 UJ	0.0004 U
1,2-Dibromo-3-chloropropane (DBCP)	NE	NE	NE	mg/kg	0.0026 UJ	0.0026 U	0.0027 UJ	0.004 U	0.0021 UJ	0.0033 U
1,2-Dibromoethane (EDB)	NE	NE	NE	mg/kg	0.00066 UJ	0.00067 U	0.00069 UJ	0.001 U	0.00053 U	0.00085 U
1,2-Dichlorobenzene	1000	NE	1.1	mg/kg	0.0004 UJ	0.00041 U	0.00042 UJ	0.00062 U	0.00032 UJ	0.00052 U
1,2-Dichloroethane	60	10	0.02	mg/kg	0.00026 UJ	0.00026 U	0.00027 UJ	0.0004 U	0.00021 U	0.00033 U
1,2-Dichloropropane	NE	NE	NE	mg/kg	0.0026 UJ	0.0026 U	0.0027 UJ	0.004 U	0.0021 U	0.0033 U
1,3-Dichlorobenzene	560	NE	2.4	mg/kg	0.00026 UJ	0.00027 U	0.00028 UJ	0.00041 U	0.00021 UJ	0.00034 U
1,4-Dichlorobenzene	250	20	1.8	mg/kg	0.00072 UJ	0.00073 U	0.00075 UJ	0.0011 U	0.00058 UJ	0.00092 U
2-Butanone (MEK)	1000	100	0.12	mg/kg	0.0019 UJ	0.0019 U	0.002 UJ	0.0029 U	0.0015 U	0.0024 U
2-Hexanone	NE	NE	NE	mg/kg	0.0026 UJ	0.0026 U	0.0027 UJ	0.004 U	0.0021 U	0.0033 U
4-Methyl-2-pentanone (MIBK)	NE	NE	NE	mg/kg	0.0017 UJ	0.0017 U	0.0018 UJ	0.0026 U	0.0014 U	0.0022 U
Acetone	1000	2.2	0.05	mg/kg	0.026 U	0.026 U	0.027 U	0.058 U	0.0035 U	0.033 U
Bromodichloromethane	NE	NE	NE	mg/kg	0.00069 UJ	0.0007 U	0.00072 UJ	0.0011 U	0.00056 U	0.00088 U
Bromoform	NE	NE	NE	mg/kg	0.0026 UJ	0.0026 U	0.0027 UJ	0.004 U	0.0021 U	0.0033 U
Bromomethane	NE	NE	NE	mg/kg	0.00046 UJ	0.00047 U	0.00048 U	0.00071 U	0.00037 U	0.00059 U
Carbon disulfide	NE	NE	NE	mg/kg	0.0026 UJ	0.0026 U	0.0027 UJ	0.004 U	0.0021 U	0.0033 U
Carbon tetrachloride	44	NE	0.76	mg/kg	0.0005 UJ	0.0005 U	0.00052 U	0.00077 U	0.0004 U	0.00064 U
Chlorobenzene	1000	40	1.1	mg/kg	0.00068 UJ	0.00069 U	0.00071 UJ	0.001 U	0.00055 U	0.00087 U
Chloroethane	NE	NE	NE	mg/kg	0.0012 UJ	0.0012 U	0.0012 U	0.0018 U	0.00094 U	0.0015 U
Chloroform	700	12	0.37	mg/kg	0.00032 UJ	0.00032 U	0.00033 UJ	0.00049 U	0.00026 U	0.00041 U
Chloromethane	NE	NE	NE	mg/kg	0.00031 UJ	0.00031 U	0.00033 U	0.00048 U	0.00025 U	0.0004 U
cis-1,2-Dichloroethene	1000	NE	0.25	mg/kg	0.00065 UJ	0.00066 U	0.00069 UJ	0.001 U	0.00053 U	0.00084 U
cis-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.00074 UJ	0.00075 U	0.00077 UJ	0.0011 U	0.0006 U	0.00095 U
Cyclohexane	NE	NE	NE	mg/kg	0.00072 UJ	0.00073 U	0.00075 U	0.0011 U	0.00058 U	0.00092 U
Dibromochloromethane	NE	NE	NE	mg/kg	0.00065 UJ	0.00066 U	0.00069 UJ	0.001 U	0.00053 U	0.00084 U
Dichlorodifluoromethane (Freon 12)	NE	NE	NE	mg/kg	0.00042 UJ	0.00043 U	0.00044 U	0.00066 U	0.00034 U	0.00054 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[a]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-4 15-15.6 5/13/2015	SB-4 21-22.1 5/13/2015	SB-4 27-28.7 5/13/2015	SB-4 35-36.9 5/13/2015	SB-4 39-40.3 5/13/2015	SB-5 3-4 5/6/2015
Isopropylbenzene (Cumene)	NE	NE	NE	mg/kg	0.00077 UJ	0.0016 J	0.00081 UJ	0.0012 U	0.00062 UJ	0.00099 U
Methyl acetate	NE	NE	NE	mg/kg	0.0031 UJ	0.0031 U	0.0033 UJ	0.0048 U	0.0025 U	0.004 U
Methylcyclohexane	NE	NE	NE	mg/kg	0.00078 UJ	0.00079 U	0.00082 U	0.0012 U	0.00063 U	0.001 U
Methylene chloride	1000	12	0.05	mg/kg	0.0024 UJ	0.0024 U	0.0025 UJ	0.0037 U	0.0019 U	0.0066 U
Styrene	NE	NE	NE	mg/kg	0.00026 UJ	0.00026 U	0.00027 UJ	0.0004 U	0.00021 U	0.00033 U
tert-Butyl methyl ether (MTBE)	1000	NE	0.93	mg/kg	0.0005 UJ	0.00051 U	0.00053 UJ	0.00078 U	0.00041 U	0.00065 U
Tetrachloroethene (PCE)	300	2	1.3	mg/kg	0.00069 UJ	0.0007 U	0.00072 UJ	0.0011 U	0.00056 U	0.00088 U
trans-1,2-Dichloroethene	1000	NE	0.19	mg/kg	0.00053 UJ	0.00054 U	0.00056 UJ	0.00082 U	0.00043 U	0.00068 U
trans-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.0023 UJ	0.0023 U	0.0024 UJ	0.0035 U	0.0018 U	0.0029 U
Trichloroethene (TCE)	400	2	0.47	mg/kg	0.0011 UJ	0.0011 U	0.0012 UJ	0.0017 U	0.00091 U	0.0014 U
Trichlorofluoromethane (Freon 11)	NE	NE	NE	mg/kg	0.00048 UJ	0.00049 U	0.00051 U	0.00075 U	0.00039 U	0.00062 U
Vinyl chloride	27	NE	0.02	mg/kg	0.00062 UJ	0.00063 U	0.00066 U	0.00097 U	0.00051 U	0.0008 U
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1000	20	98	mg/kg	0.28 U	0.29 U	0.032 U	0.68 J	0.026 U	0.54 U
Acenaphthylene	1000	NE	107	mg/kg	0.25 U	0.25 U	0.028 U	0.33 U	0.023 U	3.2 J
Anthracene	1000	NE	1000	mg/kg	0.48 U	0.48 U	0.054 U	1.1 J	0.044 U	4
Benzo(a)anthracene	11	NE	1	mg/kg	0.19 U	0.55 J	0.022 UF2	**2.5 J**	0.018 U	**15**
Benzo(a)pyrene	1.1	2.6	22	mg/kg	0.28 U	0.42 J	0.032 UF2	**1.8 J**	0.026 U	**12**
Benzo(b)fluoranthene	11	NE	1.7	mg/kg	0.31 U	0.35 J	0.035 UF1F2	**2.2 J**	0.028 U	**15**
Benzo(g,h,i)perylene	1000	NE	1000	mg/kg	0.2 U	0.21 U	0.023 U	0.68 J	0.019 U	7.4
Benzo(k)fluoranthene	110	NE	1.7	mg/kg	0.25 U	0.34 J	0.028 U	0.98 J	0.023 U	**9**
Chrysene	110	NE	1	mg/kg	0.43 U	0.44 U	0.049 UF2	**2.4 J**	0.04 U	**13**
Dibenz(a,h)anthracene	1.1	NE	1000	mg/kg	0.34 U	0.34 U	0.039 U	0.45 U	0.032 U	**2.8 J**
Fluoranthene	1000	NE	1000	mg/kg	0.2 U	1.1 J	0.023 U	3.4	0.019 U	24
Fluorene	1000	30	386	mg/kg	0.23 U	0.23 U	0.026 U	0.97 J	0.021 U	2 J
Indeno(1,2,3-c,d)pyrene	11	NE	8.2	mg/kg	0.24 U	0.24 U	0.027 U	0.82 J	0.022 U	7.2
Naphthalene	1000	NE	12	mg/kg	0.25 U	1.2 J	0.36 F1	0.71 J	0.14 J	1.2 J
Phenanthrene	1000	NE	1000	mg/kg	0.28 U	0.29 U	0.032 U	3.8	0.026 U	16
Pyrene	1000	NE	1000	mg/kg	0.23 U	0.85 J	0.026 U	2.9	0.021 U	20
2-Methylnaphthalene	NE	NE	NE	mg/kg	0.39 U	0.39 U	0.044 U	0.51 U	0.036 U	0.89 J
Total PAHS	NE	NE	NE	mg/kg	ND	4.8 J	0.36 F1	25	0.14 J	153
Other SVOCs										
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	0.52 U	0.53 U	0.059 U	0.69 U	0.048 U	0.99 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	0.39 U	0.39 U	0.044 U	0.51 U	0.036 U	0.73 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	0.2 U	0.21 U	0.023 U	0.27 U	0.019 U	0.39 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	0.47 U	0.47 U	0.053 U	0.62 U	0.043 U	0.89 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	8.9 U	9 U	1 U	12 U	0.82 U	17 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	0.4 U	0.4 U	0.045 U	0.53 U	0.037 U	0.76 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	0.23 U	0.23 U	0.026 UF1	0.3 U	0.021 U	0.43 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-4 15-15.6 5/13/2015	SB-4 21-22.1 5/13/2015	SB-4 27-28.7 5/13/2015	SB-4 35-36.9 5/13/2015	SB-4 39-40.3 5/13/2015	SB-5 3-4 5/6/2015
2-Chloronaphthalene	NE	NE	NE	mg/kg	0.32 U	0.32 U	0.036 U	0.42 U	0.029 U	0.6 U
2-Chlorophenol	NE	NE	NE	mg/kg	0.35 U	0.36 U	0.04 UF2	0.47 U	0.033 U	0.67 U
2-Methylphenol (o-cresol)	1000	NE	0.33	mg/kg	0.23 U	0.23 U	0.026 UF2	0.3 U	0.021 U	0.43 U
2-Nitroaniline	NE	NE	NE	mg/kg	0.28 U	0.29 U	0.032 U	0.38 U	0.026 U	0.54 U
2-Nitrophenol	NE	NE	NE	mg/kg	0.54 U	0.55 U	0.062 UF2	0.72 U	0.05 U	1 U
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	2.3 U	2.3 U	0.26 U	3 U	0.21 U	4.3 U
3-Nitroaniline	NE	NE	NE	mg/kg	0.53 U	0.54 U	0.061 U	0.71 U	0.049 U	1 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	1.9 U	2 U	0.22 UF2	2.6 U	0.18 U	3.7 U
4-Bromophenyl phenyl ether	NE	NE	NE	mg/kg	0.27 U	0.28 U	0.031 UF2	0.36 U	0.025 U	0.52 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	0.48 U	0.48 U	0.054 U	0.63 U	0.044 U	0.91 U
4-Chloroaniline	NE	NE	NE	mg/kg	0.48 U	0.48 U	0.054 UF1F2	0.63 U	0.044 U	0.91 U
4-Chlorophenyl phenyl ether	NE	NE	NE	mg/kg	0.24 U	0.24 U	0.027 U	0.32 U	0.022 U	0.45 U
4-Methylphenol	1000	NE	0.33	mg/kg	0.23 U	0.23 U	0.026 UF2	0.3 U	0.021 U	0.43 U
4-Nitroaniline	NE	NE	NE	mg/kg	1 U	1 U	0.11 UF1	1.3 U	0.093 U	1.9 U
4-Nitrophenol	NE	NE	NE	mg/kg	1.3 U	1.4 U	0.15 U	1.8 U	0.13 U	2.6 U
Acetophenone	NE	NE	NE	mg/kg	0.26 U	0.26 U	0.03 UF1F2	0.35 U	0.024 U	0.5 U
Atrazine	NE	NE	NE	mg/kg	0.67 U	0.68 U	0.076 U	0.89 U	0.062 U	1.3 U
Benzaldehyde	NE	NE	NE	mg/kg	1.5 U	1.6 U	0.17 UF2	2 U	0.14 U	2.9 U
Benzyl butyl phthalate	NE	NE	NE	mg/kg	0.32 U	0.32 U	0.036 UF2	0.42 U	0.029 U	0.6 U
Biphenyl (Diphenyl)	NE	NE	NE	mg/kg	0.28 U	0.29 U	0.032 UF1	0.38 U	0.026 U	0.54 U
bis(2-Chloroethoxy)methane	NE	NE	NE	mg/kg	0.41 U	0.41 U	0.046 UF1F2	0.54 U	0.038 U	0.78 U
bis(2-Chloroethyl)ether	NE	NE	NE	mg/kg	0.25 U	0.25 U	0.028 UF2	0.33 U	0.023 U	0.48 U
bis(2-Chloroisopropyl)ether	NE	NE	NE	mg/kg	0.39 U	0.39 U	0.044 UF2	0.51 U	0.036 U	0.73 U
bis(2-Ethylhexyl)phthalate	NE	NE	NE	mg/kg	0.66 U	0.67 U	0.075 UF2	0.87 U	0.061 U	1.3 U
Caprolactam	NE	NE	NE	mg/kg	0.58 U	0.59 U	0.066 U	0.77 U	0.054 U	1.1 U
Carbazole	NE	NE	NE	mg/kg	0.23 U	0.23 U	0.026 U	0.3 U	0.021 U	0.99 J
Dibenzofuran	1000	NE	210	mg/kg	0.23 U	0.23 U	0.026 U	0.3 U	0.021 U	1.3 J
Diethyl phthalate	NE	NE	NE	mg/kg	0.25 U	0.25 U	0.028 U	0.33 U	0.023 U	0.48 U
Dimethyl phthalate	NE	NE	NE	mg/kg	0.23 U	0.23 U	0.026 U	0.3 U	0.021 U	0.43 U
dI-n-Butyl phthalate	NE	NE	NE	mg/kg	0.33 U	0.33 U	0.037 UF2	0.44 U	0.03 U	0.63 U
dI-n-Octyl phthalate	NE	NE	NE	mg/kg	0.23 U	0.23 U	0.026 U	0.3 U	0.021 U	0.43 U
Hexachlorobenzene	12	NE	3.2	mg/kg	0.26 U	0.26 U	0.03 UF2	0.35 U	0.024 U	0.5 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	0.28 U	0.29 U	0.032 U	0.38 U	0.026 U	0.54 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	0.26 U	0.26 U	0.03 U	0.35 U	0.024 U	0.5 U
Hexachloroethane	NE	NE	NE	mg/kg	0.25 U	0.25 U	0.028 UF1	0.33 U	0.023 U	0.48 U
Isophorone	NE	NE	NE	mg/kg	0.41 U	0.41 U	0.046 UF2	0.54 U	0.038 U	0.78 U
Nitrobenzene	NE	NE	NE	mg/kg	0.22 U	0.22 U	0.025 UF2	0.29 U	0.02 U	0.41 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	0.33 U	0.33 U	0.037 UF2	0.44 U	0.03 U	0.63 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	1.6 U	1.6 U	0.18 UF2	2.1 U	0.14 U	3 U
Pentachlorophenol	55	0.8	0.8	mg/kg	1.9 U	2 U	0.22 U	2.6 U	0.18 U	3.7 U
Phenol	1000	30	0.33	mg/kg	0.29 U	0.3 U	0.034 U	0.39 U	0.027 U	0.56 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-4 15-15.6 5/13/2015	SB-4 21-22.1 5/13/2015	SB-4 27-28.7 5/13/2015	SB-4 35-36.9 5/13/2015	SB-4 39-40.3 5/13/2015	SB-5 3-4 5/6/2015
Inorganic Constituents										
Cyanide, total	10000	NE	40	mg/kg	0.54 U	0.55 U	0.61 U	0.74 U	0.51 U	1.1
Aluminum	NE	NE	NE	mg/kg	2800 B	2960 B	17500 J	6560	17000	4930
Antimony	NE	NE	NE	mg/kg	4.2 U	2.3 U	0.53 UJ	0.62 U	0.42 U	1.8 J
Arsenic	16	13	16	mg/kg	**27.3**	**16.9**	5	3.3	11.9	**27.2**
Barium	10000	433	820	mg/kg	20.5	10.2	107 J	54.5	104	39.2
Beryllium	2700	10	47	mg/kg	1.4 J	0.96 J	1.2 J	0.36	0.76	1.2
Cadmium	60	4	7.5	mg/kg	0.32 U	0.18 U	0.039 U	0.054 J	0.031 U	0.67
Calcium	NE	NE	NE	mg/kg	8280 B	5160 B	8490 J	4400 B	11300 B	15900 B
Chromium	NE	NE	19	mg/kg	**48.7**	**32.9**	**20.7 J**	8.4	**24.1**	**19.2**
Cobalt	NE	NE	NE	mg/kg	18.5	10.2	15.9	5.6	17.3	9.6
Copper	10000	50	1720	mg/kg	23.9	18.5	23.5 J	13.6	42.3	40.3
Iron	NE	NE	NE	mg/kg	152000 B^	102000 B	34300 J	13100 B	31700 B	70500 B^
Lead	3900	63	450	mg/kg	18.3	9.5	14.1	44.4	17.1	**72.4**
Magnesium	NE	NE	NE	mg/kg	812 B	406 B	6120 J	3450	11700	711 B
Manganese	10000	1600	2000	mg/kg	**2200 B**	581 B	384 J	285 B	590 B	1110 B
Nickel	10000	30	130	mg/kg	26.1	17.3	**33**	11.7	**35.4**	**33.1**
Potassium	NE	NE	NE	mg/kg	528	174 J	2650 J	848	2440	460
Selenium	6800	3.9	4	mg/kg	4.2 U	2.3 U	0.53 UF1	0.62 U	0.42 U	1.1 J
Silver	6800	2	8.3	mg/kg	2.1 U	1.2 U	0.26 UF1	0.31 U	0.21 U	0.41 U
Sodium	NE	NE	NE	mg/kg	1480 U	820 U	273 U	215 U	146 U	289 U
Thallium	NE	NE	NE	mg/kg	3.2 U	0.35 U	0.39 U	0.46 U	0.31 U	0.62 U
Vanadium	NE	NE	NE	mg/kg	147	68.2	37.2 J	11.7	28.3	46.8
Zinc	10000	109	2480	mg/kg	14.2 JB	**185 B**	62.3 J	40.5 B	65.5 B	**144 B**
Mercury	5.7	0.18	0.73	mg/kg	0.028	0.0093 U	0.024 J	0.05	0.0096 J	0.1
Pesticides										
4,4'-DDD	180	0.0033	14	mg/kg	0.00036 U	0.0075 U	0.00042 U	0.025 U	0.00034 U	0.017 U
4,4'-DDE	120	0.0033	17	mg/kg	0.00039 U	0.0081 U	0.00045 U	0.026 U	0.00036 U	0.019 U
4,4'-DDT	94	0.0033	136	mg/kg	0.00044 U	0.009 U	0.0005 U	0.029 U	0.00041 U	0.021 U
Aldrin	1.4	0.14	0.19	mg/kg	0.00046 U	0.0095 U	0.00053 U	0.031 U	0.00043 U	0.022 U
alpha Endosulfan (Endosulfan I)	920	NE	102	mg/kg	0.00036 U	0.0074 U	0.00041 U	0.024 U	0.00033 U	0.017 U
beta Endosulfan (Endosulfan II)	920	NE	102	mg/kg	0.00034 U	0.0069 U	0.00039 U	0.023 U	0.00031 U	0.016 U
BHC, alpha	6.8	0.04	0.02	mg/kg	0.0019 U	0.0069 U	0.00039 U	0.023 U	0.00031 U	0.016 U
BHC, beta	14	0.6	0.09	mg/kg	0.00034 U	0.0069 U	0.00039 U	0.023 U	0.00031 U	0.016 U
BHC, delta	1000	0.04	0.25	mg/kg	0.00035 U	0.0072 U	0.0004 U	0.023 U	0.00032 U	0.017 U
BHC, gamma (Lindane)	23	6	0.1	mg/kg	0.00034 U	0.0071 U	0.00039 U	0.023 U	0.00032 U	0.016 U
Chlordane, alpha	47	1.3	2.9	mg/kg	0.00093 U	0.019 U	0.0011 U	0.063 U	0.00086 U	0.045 U
Chlordane, beta	NE	NE	NE	mg/kg	0.00059 U	0.012 U	0.00068 U	0.04 U	0.00055 U	0.028 U
Dieldrin	2.8	0.006	0.1	mg/kg	0.00045 U	0.0092 U	0.00051 U	0.03 U	0.00042 U	0.021 U
Endosulfan sulfate	920	NE	1000	mg/kg	0.0019 U	0.0072 U	0.0004 U	0.024 U	0.00032 U	0.017 U
Endrin	410	0.014	0.06	mg/kg	0.00037 U	0.0076 U	0.00042 U	0.025 U	0.00034 U	0.018 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-4 15-15.6 5/13/2015	SB-4 21-22.1 5/13/2015	SB-4 27-28.7 5/13/2015	SB-4 35-36.9 5/13/2015	SB-4 39-40.3 5/13/2015	SB-5 3-4 5/6/2015
Endrin aldehyde	NE	NE	NE	mg/kg	0.00048 U	0.0098 U	0.00055 U	0.032 U	0.00044 U	0.023 U
Endrin ketone	NE	NE	NE	mg/kg	0.0023	0.0095 U	0.00053 U	0.031 U	0.00043 U	0.022 U
Heptachlor	29	0.14	0.38	mg/kg	0.0004 U	0.0083 U	0.00046 U	0.027 U	0.00038 U	0.019 U
Heptachlor epoxide	NE	NE	NE	mg/kg	0.00048 U	0.0099 U	0.00055 U	0.033 U	0.00045 U	0.023 U
Methoxychlor	NE	NE	NE	mg/kg	0.00038 U	0.0079 U	0.00044 U	0.026 U	0.00035 U	0.09 U
Toxaphene	NE	NE	NE	mg/kg	0.011 U	0.22 U	0.012 U	0.73 U	0.01 U	0.52 U
Polychlorinated Biphenyls (PCBs)										
Aroclor 1016	NE	NE	3.2	mg/kg	0.049 U	0.056 U	0.056 U	0.057 U	0.043 U	0.046 U
Aroclor 1221	NE	NE	3.2	mg/kg	0.049 U	0.056 U	0.056 U	0.057 U	0.043 U	0.046 U
Aroclor 1232	NE	NE	3.2	mg/kg	0.049 U	0.056 U	0.056 U	0.057 U	0.043 U	0.046 U
Aroclor 1242	NE	NE	3.2	mg/kg	0.049 U	0.056 U	0.056 U	0.057 U	0.043 U	0.046 U
Aroclor 1248	NE	NE	3.2	mg/kg	0.049 U	0.056 U	0.056 U	0.057 U	0.043 U	0.046 U
Aroclor 1254	NE	NE	3.2	mg/kg	0.12 U	0.13 U	0.13 U	0.14 U	0.1 U	0.11 U
Aroclor 1260	NE	NE	3.2	mg/kg	0.12 U	0.13 U	0.13 U	0.14 U	0.1 U	0.11 U
Total PCBs	25	1.0	3.2	mg/kg	ND	ND	ND	ND	ND	ND

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value show is approximate and may be inaccurate or imprecise.
N J - The analyte detection if tentative in indentification and estimated in value.
B - Constituent was found in the blank and the sample.
R - Result rejected as determined by the data validator.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
F2 - MS/MSD Relative Percent Difference (RPD) exceeds control limits.
^ - Instrument related QC is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
NE - Not established.
ND - Not detected
(a) - City of Troy Official Zoning Map

Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for: Protection of Public Health for Industrially Zoned Properties, Protection of Ecological Resources, and/or Protection of Groundwater.

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-5 7-8.6 5/12/2015	SB-5 13-14.9 5/12/2015	SB-5 21-21.6 5/12/2015	SB-5 25-26.3 5/12/2015	SB-5 31-32.5 5/12/2015	SB-6 2-3 5/5/2015
Volatile Organic Compounds (VOCs)										
BTEX										
Benzene	89	70	0.06	mg/kg	**22**	0.0013 J	0.26 U	0.00027 U	0.0003 U	0.0056 J
Toluene	1000	36	0.7	mg/kg	**43**	0.0019 J	0.37 U	0.00042 U	0.00046 U	0.0089
Ethylbenzene	780	NE	1	mg/kg	**2.3 J**	0.00036 U	0.4 U	0.00038 U	0.00042 U	0.0027 J
Xylenes, total	1000	0.26	1.6	mg/kg	**76**	0.0036 J	0.77 U	0.00093 U	0.001 U	0.029
Total BTEX	NE	NE	NE	mg/kg	143	0.0068 J	ND	ND	ND	0.046
Other VOCs										
1,1,1-Trichloroethane	1000	NE	0.68	mg/kg	0.89 U	0.00038 U	0.38 U	0.0004 U	0.00044 U	0.00046 U
1,1,2,2-Tetrachloroethane	NE	NE	NE	mg/kg	0.52 U	0.00085 U	0.22 U	0.0009 U	0.00098 U	0.001 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NE	NE	NE	mg/kg	1.6 U	0.0012 U	0.69 U	0.0013 U	0.0014 U	0.0015 U
1,1,2-Trichloroethane	NE	NE	NE	mg/kg	0.67 U	0.00069 U	0.29 U	0.00072 U	0.00079 U	0.00083 U
1,1-Dichloroethane	480	NE	0.27	mg/kg	0.99 U	0.00064 U	0.43 U	0.00067 U	0.00074 U	0.00078 U
1,1-Dichloroethene	1000	NE	0.33	mg/kg	1.1 U	0.00065 U	0.48 U	0.00068 U	0.00074 U	0.00078 U
1,2,4-Trichlorobenzene	NE	NE	NE	mg/kg	1.2 UJ	0.00032 U	0.52 UJ	0.00034 U	0.00037 U	0.00039 U
1,2-Dibromo-3-chloropropane (DBCP)	NE	NE	NE	mg/kg	1.6 U	0.0026 U	0.69 U	0.0028 U	0.003 U	0.0032 U
1,2-Dibromoethane (EDB)	NE	NE	NE	mg/kg	0.56 U	0.00068 U	0.24 U	0.00071 U	0.00078 U	0.00082 U
1,2-Dichlorobenzene	1000	NE	1.1	mg/kg	0.82 U	0.00041 U	0.35 U	0.00043 U	0.00047 U	0.0005 UJ
1,2-Dichloroethane	60	10	0.02	mg/kg	1.3 U	0.00026 U	0.57 U	0.00028 U	0.0003 U	0.00032 U
1,2-Dichloropropane	NE	NE	NE	mg/kg	0.52 U	0.0026 U	0.22 U	0.0028 U	0.003 U	0.0032 U
1,3-Dichlorobenzene	560	NE	2.4	mg/kg	0.86 U	0.00027 U	0.37 U	0.00028 U	0.00031 U	0.00033 UJ
1,4-Dichlorobenzene	250	20	1.8	mg/kg	0.45 U	0.00074 U	0.19 U	0.00077 U	0.00085 U	0.00089 U
2-Butanone (MEK)	1000	100	0.12	mg/kg	9.5 U	0.0065 J	4.1 U	0.002 U	0.0027 J	0.0023 U
2-Hexanone	NE	NE	NE	mg/kg	6.6 U	0.0026 U	2.8 U	0.0028 U	0.003 U	0.0032 U
4-Methyl-2-pentanone (MIBK)	NE	NE	NE	mg/kg	1 U	0.0017 U	0.44 U	0.0018 U	0.002 U	0.0021 U
Acetone	1000	2.2	0.05	mg/kg	13 U	0.035 U	5.7 U	0.028 U	0.03 U	0.0054 U
Bromodichloromethane	NE	NE	NE	mg/kg	0.64 U	0.00071 U	0.28 U	0.00074 U	0.00081 U	0.00085 U
Bromoform	NE	NE	NE	mg/kg	1.6 U	0.0026 U	0.69 U	0.0028 U	0.003 U	0.0032 U
Bromomethane	NE	NE	NE	mg/kg	0.71 U	0.00047 U	0.3 U	0.0005 U	0.00055 U	0.00057 U
Carbon disulfide	NE	NE	NE	mg/kg	1.5 U	0.0026 U	0.63 U	0.0028 U	0.003 U	0.0032 U
Carbon tetrachloride	44	NE	0.76	mg/kg	0.82 U	0.00051 U	0.35 U	0.00054 U	0.00059 U	0.00062 U
Chlorobenzene	1000	40	1.1	mg/kg	0.42 U	0.0007 U	0.18 U	0.00073 U	0.0008 U	0.00084 U
Chloroethane	NE	NE	NE	mg/kg	0.67 U	0.0012 U	0.29 U	0.0013 U	0.0014 U	0.0014 U
Chloroform	700	12	0.37	mg/kg	2.2 U	0.00033 U	0.95 U	0.00034 U	0.00037 U	0.00039 U
Chloromethane	NE	NE	NE	mg/kg	0.76 U	0.00032 U	0.33 U	0.00033 U	0.00037 U	0.00038 U
cis-1,2-Dichloroethene	1000	NE	0.25	mg/kg	0.89 U	0.00067 U	0.38 U	0.00071 U	0.00078 U	0.00082 U
cis-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.77 U	0.00076 U	0.33 U	0.0008 U	0.00087 U	0.00092 U
Cyclohexane	NE	NE	NE	mg/kg	0.71 U	0.00074 U	0.31 U	0.00077 U	0.00085 U	0.00089 U
Dibromochloromethane	NE	NE	NE	mg/kg	1.6 U	0.00067 U	0.67 U	0.00071 U	0.00078 U	0.00082 U
Dichlorodifluoromethane (Freon 12)	NE	NE	NE	mg/kg	1.4 U	0.00044 U	0.6 U	0.00046 U	0.0005 U	0.00053 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[a]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-5 7-8.6 5/12/2015	SB-5 13-14.9 5/12/2015	SB-5 21-21.6 5/12/2015	SB-5 25-26.3 5/12/2015	SB-5 31-32.5 5/12/2015	SB-6 2-3 5/5/2015
Isopropylbenzene (Cumene)	NE	NE	NE	mg/kg	0.48 U	0.00079 U	0.21 U	0.00083 U	0.00091 U	0.00096 U
Methyl acetate	NE	NE	NE	mg/kg	1.5 U	0.0032 U	0.66 U	0.0033 U	0.0037 U	0.0038 U
Methylcyclohexane	NE	NE	NE	mg/kg	1.5 U	0.0008 U	0.65 U	0.00084 U	0.00092 U	0.0025 J
Methylene chloride	1000	12	0.05	mg/kg	0.63 U	0.0024 U	0.27 U	0.0025 U	0.0028 U	0.0033 J
Styrene	NE	NE	NE	mg/kg	8.5	0.00026 U	0.33 U	0.00028 U	0.0003 U	0.0038 J*
tert-Butyl methyl ether (MTBE)	1000	NE	0.93	mg/kg	1.2 U	0.00052 U	0.52 U	0.00054 U	0.0006 U	0.00063 U
Tetrachloroethene (PCE)	300	2	1.3	mg/kg	0.43 U	0.00071 U	0.19 U	0.00074 U	0.00081 U	0.00085 U
trans-1,2-Dichloroethene	1000	NE	0.19	mg/kg	0.76 U	0.00054 U	0.33 U	0.00057 U	0.00063 U	0.00066 U
trans-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.32 U	0.0023 U	0.14 U	0.0024 U	0.0027 U	0.0028 U
Trichloroethene (TCE)	400	2	0.47	mg/kg	0.89 U	0.0012 U	0.38 U	0.0012 U	0.0013 U	0.0014 U
Trichlorofluoromethane (Freon 11)	NE	NE	NE	mg/kg	1.5 U	0.0005 U	0.65 U	0.00052 U	0.00057 U	0.0006 U
Vinyl chloride	27	NE	0.02	mg/kg	1.1 U	0.00064 U	0.46 U	0.00067 U	0.00074 U	0.00078 U
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1000	20	98	mg/kg	**43 J**	0.3 U	0.34 U	0.32 U	0.34 J	6.3 J
Acenaphthylene	1000	NE	107	mg/kg	**510**	0.43 J	0.3 U	0.28 U	0.28 U	16
Anthracene	1000	NE	1000	mg/kg	500	0.89 J	0.57 U	0.54 U	1.7 J	19
Benzo(a)anthracene	11	NE	1	mg/kg	**470**	**1.5 J**	0.57 J	0.39 J	**4**	**50**
Benzo(a)pyrene	1.1	2.6	22	mg/kg	**330**	**1.2 J**	0.45 J	0.32 U	**3.9**	**33**
Benzo(b)fluoranthene	11	NE	1.7	mg/kg	**370**	1.1 J	0.65 J	0.35 U	**3.7**	**29**
Benzo(g,h,i)perylene	1000	NE	1000	mg/kg	150 J	0.62 J	0.25 U	0.23 U	2.3	19
Benzo(k)fluoranthene	110	NE	1.7	mg/kg	**250 J**	0.7 J	0.3 U	0.28 U	**2.1 J**	**16**
Chrysene	110	NE	1	mg/kg	**410**	**1.4 J**	0.6 J	0.49 U	**3.7**	**47**
Dibenz(a,h)anthracene	1.1	NE	1000	mg/kg	51 U	0.36 U	0.41 U	0.39 U	0.6 J	**5.4 J**
Fluoranthene	1000	NE	1000	mg/kg	**1100**	2.9	2.1 J	0.77 J	6.6	68
Fluorene	1000	30	386	mg/kg	**670**	0.88 J	3.9	0.57 J	0.58 J	**31**
Indeno(1,2,3-c,d)pyrene	11	NE	8.2	mg/kg	**150 J**	0.53 J	0.29 U	0.27 U	2.1 J	**16**
Naphthalene	1000	NE	12	mg/kg	**2400**	2.5	3.3	1.9 J	0.87 J	**15**
Phenanthrene	1000	NE	1000	mg/kg	**1700**	3.2	1.9 J	0.32 U	2.7	150
Pyrene	1000	NE	1000	mg/kg	740	3.2	2.7	0.78 J	8.1	120
2-Methylnaphthalene	NE	NE	NE	mg/kg	570	0.57 J	1.3 J	0.44 U	0.43 U	37
Total PAHS	NE	NE	NE	mg/kg	10363	22	17	4.4 J	43	678
Other SVOCs										
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	78 U	0.55 U	0.63 U	0.59 U	0.58 U	2.5 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	58 U	0.41 U	0.46 U	0.44 U	0.43 U	1.8 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	31 U	0.22 U	0.25 U	0.23 U	0.23 U	0.97 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	70 U	0.49 U	0.56 U	0.53 U	0.52 U	2.2 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	1300 U	9.4 U	11 U	10 U	10 U	42 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	60 U	0.42 U	0.48 U	0.45 U	0.44 U	1.9 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	34 U	0.24 U	0.27 U	0.26 U	0.25 U	1.1 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-5 7-8.6 5/12/2015	SB-5 13-14.9 5/12/2015	SB-5 21-21.6 5/12/2015	SB-5 25-26.3 5/12/2015	SB-5 31-32.5 5/12/2015	SB-6 2-3 5/5/2015
2-Chloronaphthalene	NE	NE	NE	mg/kg	48 U	0.33 U	0.38 U	0.36 U	0.36 U	1.5 U
2-Chlorophenol	NE	NE	NE	mg/kg	53 U	0.37 U	0.42 U	0.4 U	0.39 U	1.7 U
2-Methylphenol (o-cresol)	1000	NE	0.33	mg/kg	34 U	0.24 U	0.27 U	0.26 U	0.25 U	1.1 U
2-Nitroaniline	NE	NE	NE	mg/kg	43 U	0.3 U	0.34 U	0.32 U	0.32 U	1.3 U
2-Nitrophenol	NE	NE	NE	mg/kg	82 U	0.57 U	0.65 U	0.62 U	0.61 U	2.6 U
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	340 U	2.4 U	2.7 U	2.6 U	2.5 U	11 U
3-Nitroaniline	NE	NE	NE	mg/kg	80 U	0.56 U	0.64 U	0.61 U	0.6 U	2.5 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	290 U	2 U	2.3 U	2.2 U	2.2 U	9.2 U
4-Bromophenyl phenyl ether	NE	NE	NE	mg/kg	41 U	0.29 U	0.33 U	0.31 U	0.31 U	1.3 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	71 U	0.5 U	0.57 U	0.54 U	0.53 U	2.3 U
4-Chloroaniline	NE	NE	NE	mg/kg	71 U	0.5 U	0.57 U	0.54 U	0.53 U	2.3 U
4-Chlorophenyl phenyl ether	NE	NE	NE	mg/kg	36 U	0.25 U	0.29 U	0.27 U	0.27 U	1.1 U
4-Methylphenol	1000	NE	0.33	mg/kg	**60 J**	0.24 U	0.27 U	0.26 U	0.25 U	1.1 U
4-Nitroaniline	NE	NE	NE	mg/kg	150 U	1.1 U	1.2 U	1.2 U	1.1 U	4.8 U
4-Nitrophenol	NE	NE	NE	mg/kg	200 U	1.4 U	1.6 U	1.5 U	1.5 U	6.4 U
Acetophenone	NE	NE	NE	mg/kg	39 U	0.28 U	0.31 U	0.3 U	0.29 U	1.2 U
Atrazine	NE	NE	NE	mg/kg	100 U	0.71 U	0.8 U	0.76 U	0.75 U	3.2 U
Benzaldehyde	NE	NE	NE	mg/kg	230 U	1.6 U	1.8 U	1.7 U	1.7 U	7.3 U
Benzyl butyl phthalate	NE	NE	NE	mg/kg	48 U	0.33 U	0.38 U	0.36 U	0.36 U	1.5 U
Biphenyl (Diphenyl)	NE	NE	NE	mg/kg	94 J	0.3 U	0.34 U	0.32 U	0.32 U	7.5 J*
bis(2-Chloroethoxy)methane	NE	NE	NE	mg/kg	61 U	0.43 U	0.49 U	0.47 U	0.46 U	1.9 U
bis(2-Chloroethyl)ether	NE	NE	NE	mg/kg	37 U	0.26 U	0.3 U	0.28 U	0.28 U	1.2 U
bis(2-Chloroisopropyl)ether	NE	NE	NE	mg/kg	58 U	0.41 U	0.46 U	0.44 U	0.43 U	1.8 U
bis(2-Ethylhexyl)phthalate	NE	NE	NE	mg/kg	99 U	0.69 U	0.79 U	0.75 U	0.74 U	3.1 U
Caprolactam	NE	NE	NE	mg/kg	87 U	0.61 U	0.7 U	0.66 U	0.65 U	2.7 U
Carbazole	NE	NE	NE	mg/kg	290	0.35 J	0.27 U	0.26 U	0.25 U	2.4 J
Dibenzofuran	1000	NE	210	mg/kg	**440**	0.47 J	1.2 J	0.26 U	0.3 J	5.6 J
Diethyl phthalate	NE	NE	NE	mg/kg	37 U	0.26 U	0.3 U	0.28 U	0.28 U	1.2 U
Dimethyl phthalate	NE	NE	NE	mg/kg	34 U	0.24 U	0.27 U	0.26 U	0.25 U	1.1 U
dI-n-Butyl phthalate	NE	NE	NE	mg/kg	49 U	0.35 U	0.4 U	0.38 U	0.37 U	1.6 U
dI-n-Octyl phthalate	NE	NE	NE	mg/kg	34 U	0.24 U	0.27 U	0.26 U	0.25 U	1.1 U
Hexachlorobenzene	12	NE	3.2	mg/kg	39 U	0.28 U	0.31 U	0.3 U	0.29 U	1.2 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	43 U	0.3 U	0.34 U	0.32 U	0.32 U	1.3 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	39 U	0.28 U	0.31 U	0.3 U	0.29 U	1.2 U
Hexachloroethane	NE	NE	NE	mg/kg	37 U	0.26 U	0.3 U	0.28 U	0.28 U	1.2 U
Isophorone	NE	NE	NE	mg/kg	61 U	0.43 U	0.49 U	0.47 U	0.46 U	1.9 U
Nitrobenzene	NE	NE	NE	mg/kg	32 U	0.23 U	0.26 U	0.25 U	0.24 U	1 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	49 U	0.35 U	0.4 U	0.38 U	0.37 U	1.6 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	230 U	1.7 U	1.9 U	1.8 U	1.8 U	7.4 U
Pentachlorophenol	55	0.8	0.8	mg/kg	290 U	2 U	2.3 U	2.2 U	2.2 U	9.2 U
Phenol	1000	30	0.33	mg/kg	44 U	0.31 U	0.35 U	0.34 U	0.33 U	1.4 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-5 7-8.6 5/12/2015	SB-5 13-14.9 5/12/2015	SB-5 21-21.6 5/12/2015	SB-5 25-26.3 5/12/2015	SB-5 31-32.5 5/12/2015	SB-6 2-3 5/5/2015
Inorganic Constituents										
Cyanide, total	10000	NE	40	mg/kg	10.3	0.58 U	0.66 U	0.64 U	0.61 U	0.95 J
Aluminum	NE	NE	NE	mg/kg	5840	5980	2480	12900	10200	4950
Antimony	NE	NE	NE	mg/kg	0.47 U	0.47 U	0.51 U	0.54 U	0.52 U	2.4 J
Arsenic	16	13	16	mg/kg	11.2	13	6.4	8.3	7.3	**26**
Barium	10000	433	820	mg/kg	47.1	48.2	15.8	106	44.5	65
Beryllium	2700	10	47	mg/kg	0.49	0.43	0.43	0.82	0.56	1.2
Cadmium	60	4	7.5	mg/kg	0.035 U	0.036 U	0.039 U	0.04 U	0.039 U	0.28 J
Calcium	NE	NE	NE	mg/kg	10000 B	2470 B	1430 B	24600 B	3190 B	8780 B
Chromium	NE	NE	19	mg/kg	16.1	12.2	7.9	17.5	16.4	**28.4**
Cobalt	NE	NE	NE	mg/kg	7.3	6	6.9	13.9	14.3	9
Copper	10000	50	1720	mg/kg	**79.7**	20.9	20.5	31.8	30.2	46.3
Iron	NE	NE	NE	mg/kg	41600 ^B	34500 B	33100 ^B	37400 B	30700 ^B	107000 B
Lead	3900	63	450	mg/kg	**98.9**	58.2	12.6	17.2	45	**123**
Magnesium	NE	NE	NE	mg/kg	2320	1790	510	6490	5010	1690 B
Manganese	10000	1600	2000	mg/kg	652 ^B	435 B	262 ^B	496 B	521 ^B	1220 B
Nickel	10000	30	130	mg/kg	16.2	16	13.2	28.3	23.4	21.5
Potassium	NE	NE	NE	mg/kg	1100	984	371	2820	1630	597 B
Selenium	6800	3.9	4	mg/kg	0.47 U	0.47 U	0.51 U	0.54 U	0.52 U	2.2 U
Silver	6800	2	8.3	mg/kg	0.24 U	0.24 U	0.26 U	0.27 U	0.26 U	1.1 U
Sodium	NE	NE	NE	mg/kg	201 B	166 U	180 U	188 U	182 U	787 U
Thallium	NE	NE	NE	mg/kg	0.35 U	0.36 U	0.39 U	0.4 U	0.39 U	0.34 U
Vanadium	NE	NE	NE	mg/kg	31.2	19.8	22	29	21.2	86.6
Zinc	10000	109	2480	mg/kg	42.5 B	61.2 B	13 B	53.4 B	62.1 B	**115 B**
Mercury	5.7	0.18	0.73	mg/kg	**4.2**	**0.26**	0.013 J	0.058	**0.26**	**0.26**
Pesticides										
4,4'-DDD	180	0.0033	14	mg/kg	0.098 U	0.0078 U	0.0043 U	0.00042 U	0.021 U	0.035 U
4,4'-DDE	120	0.0033	17	mg/kg	0.11 U	0.0084 U	0.0047 U	0.00045 U	0.022 U	0.037 U
4,4'-DDT	94	0.0033	136	mg/kg	0.51 U	0.0093 U	0.0052 U	0.0005 U	0.025 U	0.042 U
Aldrin	1.4	0.14	0.19	mg/kg	0.12 U	0.0098 U	0.0055 U	0.00053 U	0.026 U	0.044 U
alpha Endosulfan (Endosulfan I)	920	NE	102	mg/kg	0.097 U	0.0077 U	0.0043 U	0.00041 U	0.02 U	0.034 U
beta Endosulfan (Endosulfan II)	920	NE	102	mg/kg	0.091 U	0.0072 U	0.004 U	0.00039 U	0.019 U	0.032 U
BHC, alpha	6.8	0.04	0.02	mg/kg	0.51 U	0.0072 U	0.004 U	0.00039 U	0.019 U	0.032 U
BHC, beta	14	0.6	0.09	mg/kg	0.51 U	0.0072 U	0.022 U	0.0021 U	0.019 U	0.032 U
BHC, delta	1000	0.04	0.25	mg/kg	0.094 U	0.04 U	0.01 J	0.0009 J	0.02 U	0.033 U
BHC, gamma (Lindane)	23	6	0.1	mg/kg	0.093 U	0.0073 U	0.0041 U	0.00039 U	0.02 U	0.033 U
Chlordane, alpha	47	1.3	2.9	mg/kg	0.25 U	0.02 U	0.011 U	0.0011 U	0.053 U	0.089 U
Chlordane, beta	NE	NE	NE	mg/kg	0.16 U	0.013 U	0.0071 U	0.00068 U	0.034 U	0.057 U
Dieldrin	2.8	0.006	0.1	mg/kg	0.12 U	0.0096 U	0.0053 U	0.00051 U	0.026 U	0.043 U
Endosulfan sulfate	920	NE	1000	mg/kg	0.51 U	0.017 J	0.0081 NJ	0.0004 U	0.043 J	0.033 U
Endrin	410	0.014	0.06	mg/kg	0.1 U	0.0079 U	0.0044 U	0.00042 U	0.021 U	0.18 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-5 7-8.6 5/12/2015	SB-5 13-14.9 5/12/2015	SB-5 21-21.6 5/12/2015	SB-5 25-26.3 5/12/2015	SB-5 31-32.5 5/12/2015	SB-6 2-3 5/5/2015
Endrin aldehyde	NE	NE	NE	mg/kg	0.13 U	0.01 U	0.0057 U	0.00055 U	0.027 U	0.046 U
Endrin ketone	NE	NE	NE	mg/kg	0.12 U	0.0098 U	0.0055 U	0.00053 U	0.026 U	0.044 U
Heptachlor	29	0.14	0.38	mg/kg	0.11 U	0.0086 U	0.0048 U	0.00046 U	0.023 U	0.039 U
Heptachlor epoxide	NE	NE	NE	mg/kg	0.13 U	0.01 U	0.0057 U	0.00055 U	0.028 U	0.046 U
Methoxychlor	NE	NE	NE	mg/kg	0.1 U	0.0081 U	0.0045 U	0.00044 U	0.022 U	0.036 U
Toxaphene	NE	NE	NE	mg/kg	2.9 U	0.23 U	0.13 U	0.012 U	0.62 U	1 U
Polychlorinated Biphenyls (PCBs)										
Aroclor 1016	NE	NE	3.2	mg/kg	0.056 U	0.052 U	0.048 U	0.045 U	0.049 U	0.053 U
Aroclor 1221	NE	NE	3.2	mg/kg	0.056 U	0.052 U	0.048 U	0.045 U	0.049 U	0.053 U
Aroclor 1232	NE	NE	3.2	mg/kg	0.056 U	0.052 U	0.048 U	0.045 U	0.049 U	0.053 U
Aroclor 1242	NE	NE	3.2	mg/kg	0.056 U	0.052 U	0.048 U	0.045 U	0.049 U	0.053 U
Aroclor 1248	NE	NE	3.2	mg/kg	0.056 U	0.052 U	0.048 U	0.045 U	0.049 U	0.053 U
Aroclor 1254	NE	NE	3.2	mg/kg	0.14 U	0.13 U	0.11 U	0.11 U	0.12 U	0.13 U
Aroclor 1260	NE	NE	3.2	mg/kg	0.14 U	0.13 U	0.11 U	0.11 U	0.12 U	0.13 U
Total PCBs	25	1.0	3.2	mg/kg	ND	ND	ND	ND	ND	ND

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value show is approximate and may be inaccurate or imprecise.
N J - The analyte detection if tentative in indentification and estimated in value.
B - Constituent was found in the blank and the sample.
R - Result rejected as determined by the data validator.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
F2 - MS/MSD Relative Percent Difference (RPD) exceeds control limits.
^ - Instrument related QC is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
NE - Not established.
ND - Not detected
(a) - City of Troy Official Zoning Map

Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for: Protection of Public Health for Industrially Zoned Properties, Protection of Ecological Resources, and/or Protection of Groundwater.

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-6 5-5.8 5/8/2015	SB-6 9.5-10 5/8/2015	SB-6 15-15.5 5/8/2015	SB-6 19.5-20 5/8/2015	SB-6 25-25.5 5/8/2015	SB-6 31-31.5 5/11/2015
Volatile Organic Compounds (VOCs)										
BTEX										
Benzene	89	70	0.06	mg/kg	0.00086 J	0.0007 J	0.00027 U	0.00029 U	0.0004 U	0.00028 U
Toluene	1000	36	0.7	mg/kg	0.001 J	0.00045 U	0.00041 U	0.00044 U	0.00062 U	0.00043 U
Ethylbenzene	780	NE	1	mg/kg	0.00031 U	0.00041 U	0.00037 U	0.00057 J*	0.00056 U	0.00039 U
Xylenes, total	1000	0.26	1.6	mg/kg	0.0015 J	0.001 U	0.00091 U	0.00099 U	0.0014 U	0.00096 U
Total BTEX	NE	NE	NE	mg/kg	0.003 J	0.0007 J	ND	0.00057 J*	ND	ND
Other VOCs										
1,1,1-Trichloroethane	1000	NE	0.68	mg/kg	0.00032 U	0.00044 U	0.00039 U	0.00043 U	0.00059 U	0.00041 U
1,1,2,2-Tetrachloroethane	NE	NE	NE	mg/kg	0.00072 U	0.00097 U	0.00088 U	0.00095 U	0.0013 UJ	0.00092 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NE	NE	NE	mg/kg	0.001 U	0.0014 U	0.0012 U	0.0013 U	0.0019 U	0.0013 U
1,1,2-Trichloroethane	NE	NE	NE	mg/kg	0.00058 U	0.00078 U	0.00071 U	0.00076 U	0.0011 U	0.00074 U
1,1-Dichloroethane	480	NE	0.27	mg/kg	0.00054 U	0.00073 U	0.00066 U	0.00072 U	0.00099 U	0.0007 U
1,1-Dichloroethene	1000	NE	0.33	mg/kg	0.00054 U	0.00074 U	0.00066 U	0.00072 U	0.001 U	0.0007 U
1,2,4-Trichlorobenzene	NE	NE	NE	mg/kg	0.0021 J	0.00037 U	0.00033 U	0.00036 U	0.0005 UJ	0.00035 U
1,2-Dibromo-3-chloropropane (DBCP)	NE	NE	NE	mg/kg	0.0022 U	0.003 U	0.0027 U	0.0029 U	0.0041 UJ	0.0028 U
1,2-Dibromoethane (EDB)	NE	NE	NE	mg/kg	0.00057 U	0.00077 U	0.0007 U	0.00076 U	0.001 U	0.00073 U
1,2-Dichlorobenzene	1000	NE	1.1	mg/kg	0.00035 U	0.00047 U	0.00042 U	0.00046 U	0.00064 UJ	0.00045 U
1,2-Dichloroethane	60	10	0.02	mg/kg	0.00022 U	0.0003 U	0.00027 U	0.0003 U	0.00041 U	0.00029 U
1,2-Dichloropropane	NE	NE	NE	mg/kg	0.0022 U	0.003 U	0.0027 U	0.0029 U	0.0041 U	0.0028 U
1,3-Dichlorobenzene	560	NE	2.4	mg/kg	0.00023 U	0.00031 U	0.00028 U	0.0003 U	0.00042 UJ	0.00029 U
1,4-Dichlorobenzene	250	20	1.8	mg/kg	0.00062 U	0.00084 U	0.00076 U	0.00082 U	0.0011 UJ	0.0008 U
2-Butanone (MEK)	1000	100	0.12	mg/kg	0.0016 U	0.0022 U	0.002 U	0.0022 U	0.003 U	0.0021 U
2-Hexanone	NE	NE	NE	mg/kg	0.0022 U	0.003 U	0.0027 U	0.0029 U	0.0041 U	0.0028 U
4-Methyl-2-pentanone (MIBK)	NE	NE	NE	mg/kg	0.0015 U	0.002 U	0.0018 U	0.0019 U	0.0027 U	0.0019 U
Acetone	1000	2.2	0.05	mg/kg	0.022 U	0.0051 U	0.027 U	0.029 U	0.059 U	0.028 U
Bromodichloromethane	NE	NE	NE	mg/kg	0.0006 U	0.0008 U	0.00073 U	0.00079 U	0.0011 U	0.00076 U
Bromoform	NE	NE	NE	mg/kg	0.0022 U	0.003 U	0.0027 U	0.0029 U	0.0041 U	0.0028 U
Bromomethane	NE	NE	NE	mg/kg	0.0004 U	0.00054 U	0.00049 U	0.00053 U	0.00073 U	0.00051 U
Carbon disulfide	NE	NE	NE	mg/kg	0.0022 U	0.003 U	0.0027 U	0.0029 U	0.0041 U	0.0028 U
Carbon tetrachloride	44	NE	0.76	mg/kg	0.00043 U	0.00058 U	0.00053 U	0.00057 U	0.00079 U	0.00055 U
Chlorobenzene	1000	40	1.1	mg/kg	0.00059 U	0.00079 U	0.00072 U	0.00078 U	0.0011 U	0.00075 U
Chloroethane	NE	NE	NE	mg/kg	0.001 U	0.0014 U	0.0012 U	0.0013 U	0.0018 U	0.0013 U
Chloroform	700	12	0.37	mg/kg	0.00027 U	0.00037 U	0.00034 U	0.00036 U	0.0005 U	0.00035 U
Chloromethane	NE	NE	NE	mg/kg	0.00027 U	0.00036 U	0.00033 U	0.00036 U	0.00049 U	0.00034 U
cis-1,2-Dichloroethene	1000	NE	0.25	mg/kg	0.00057 U	0.00077 U	0.00069 U	0.0008 J	0.001 U	0.00073 U
cis-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.00064 U	0.00086 U	0.00078 U	0.00085 U	0.0012 U	0.00082 U
Cyclohexane	NE	NE	NE	mg/kg	0.00062 U	0.00084 U	0.00076 U	0.00082 U	0.0011 U	0.0008 U
Dibromochloromethane	NE	NE	NE	mg/kg	0.00057 U	0.00077 U	0.00069 U	0.00075 U	0.001 U	0.00073 U
Dichlorodifluoromethane (Freon 12)	NE	NE	NE	mg/kg	0.00037 U	0.0005 U	0.00045 U	0.00049 U	0.00067 U	0.00047 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[a]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-6 5-5.8 5/8/2015	SB-6 9.5-10 5/8/2015	SB-6 15-15.5 5/8/2015	SB-6 19.5-20 5/8/2015	SB-6 25-25.5 5/8/2015	SB-6 31-31.5 5/11/2015
Isopropylbenzene (Cumene)	NE	NE	NE	mg/kg	0.00067 U	0.00091 U	0.00082 U	0.00089 U	0.0012 UJ	0.00086 U
Methyl acetate	NE	NE	NE	mg/kg	0.0027 U	0.0036 U	0.0033 U	0.0036 U	0.0049 U	0.0034 U
Methylcyclohexane	NE	NE	NE	mg/kg	0.00086 J*	0.00091 U	0.00082 U	0.00089 U	0.0012 U	0.00087 U
Methylene chloride	1000	12	0.05	mg/kg	0.002 U	0.0028 U	0.0025 U	0.0027 U	0.0038 U	0.0026 U
Styrene	NE	NE	NE	mg/kg	0.00033 J	0.0003 U	0.00027 U	0.00029 U	0.00041 U	0.00028 U
tert-Butyl methyl ether (MTBE)	1000	NE	0.93	mg/kg	0.00044 U	0.00059 U	0.00053 U	0.00058 U	0.0008 U	0.00056 U
Tetrachloroethene (PCE)	300	2	1.3	mg/kg	0.0006 U	0.00081 U	0.00073 U	0.00079 U	0.0011 U	0.00076 U
trans-1,2-Dichloroethene	1000	NE	0.19	mg/kg	0.00046 U	0.00062 U	0.00056 U	0.00061 U	0.00084 U	0.00059 U
trans-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.002 U	0.0026 U	0.0024 U	0.0026 U	0.0036 U	0.0025 U
Trichloroethene (TCE)	400	2	0.47	mg/kg	0.00098 U	0.0013 U	0.0012 U	0.0013 U	0.0018 U	0.0013 U
Trichlorofluoromethane (Freon 11)	NE	NE	NE	mg/kg	0.00042 U	0.00057 U	0.00051 U	0.00056 U	0.00077 U	0.00054 U
Vinyl chloride	27	NE	0.02	mg/kg	0.00054 U	0.00073 U	0.00066 U	0.00072 U	0.00099 U	0.0007 U
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1000	20	98	mg/kg	5.1 U	0.56 U	0.15 U	0.28 U	0.18 U	0.15 U
Acenaphthylene	1000	NE	107	mg/kg	7.7 J	0.49 U	0.13 U	0.24 U	0.16 U	0.13 U
Anthracene	1000	NE	1000	mg/kg	8.5 U	0.94 U	0.25 U	0.47 U	0.3 U	0.26 U
Benzo(a)anthracene	11	NE	1	mg/kg	**23 J**	**1.3 J**	0.41 J	0.19 U	0.37 J	0.17 J
Benzo(a)pyrene	1.1	2.6	22	mg/kg	**16 J**	**1.4 J**	0.15 U	0.28 U	0.29 J	0.15 U
Benzo(b)fluoranthene	11	NE	1.7	mg/kg	**14 J**	**2.1 J**	0.25 J	0.3 U	0.2 J	0.17 U
Benzo(g,h,i)perylene	1000	NE	1000	mg/kg	7.4 J	1.3 J	0.11 U	0.2 U	0.13 U	0.11 U
Benzo(k)fluoranthene	110	NE	1.7	mg/kg	**9.5 J**	0.57 J	0.13 U	0.24 U	0.24 J	0.13 U
Chrysene	110	NE	1	mg/kg	**20 J**	**1.2 J**	0.22 U	0.42 U	0.3 J	0.23 U
Dibenz(a,h)anthracene	1.1	NE	1000	mg/kg	6.1 U	0.67 U	0.18 U	0.33 U	0.22 U	0.18 U
Fluoranthene	1000	NE	1000	mg/kg	44	1.6 J	0.26 J	0.2 U	0.55 J	0.3 J
Fluorene	1000	30	386	mg/kg	9.2 J	0.45 U	0.12 U	0.22 U	0.15 U	0.29 J
Indeno(1,2,3-c,d)pyrene	11	NE	8.2	mg/kg	7.3 J	1.1 J	0.12 U	0.23 U	0.15 U	0.13 U
Naphthalene	1000	NE	12	mg/kg	7.4 J	1.2 J	0.13 U	0.24 U	0.16 U	0.14 J
Phenanthrene	1000	NE	1000	mg/kg	57	1.3 J	0.37 J	0.28 U	0.18 U	0.44 J
Pyrene	1000	NE	1000	mg/kg	34 J	1.4 J	0.32 J	0.22 U	0.52 J	0.21 J
2-Methylnaphthalene	NE	NE	NE	mg/kg	7.8 J	0.76 U	0.2 U	0.38 U	0.25 U	0.21 U
Total PAHS	NE	NE	NE	mg/kg	264	14 J	1.6 J	ND	2.5 J	1.55 J
Other SVOCs										
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	9.3 U	1 U	0.27 U	0.51 U	0.33 U	0.28 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	6.9 U	0.76 U	0.2 U	0.38 U	0.25 U	0.21 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	3.7 U	0.4 U	0.11 U	0.2 U	0.13 U	0.11 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	8.3 U	0.92 U	0.24 U	0.46 U	0.3 U	0.25 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	160 U	18 U	4.6 U	8.7 U	5.7 U	4.8 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	7.1 U	0.78 U	0.2 U	0.39 U	0.25 U	0.21 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	4.1 U	0.45 U	0.12 U	0.22 U	0.15 U	0.12 U

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TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-6 5-5.8 5/8/2015	SB-6 9.5-10 5/8/2015	SB-6 15-15.5 5/8/2015	SB-6 19.5-20 5/8/2015	SB-6 25-25.5 5/8/2015	SB-6 31-31.5 5/11/2015
2-Chloronaphthalene	NE	NE	NE	mg/kg	5.7 U	0.63 U	0.16 U	0.31 U	0.2 U	0.17 U
2-Chlorophenol	NE	NE	NE	mg/kg	6.3 U	0.69 U	0.18 U	0.34 U	0.22 U	0.19 U
2-Methylphenol (o-cresol)	1000	NE	0.33	mg/kg	4.1 U	0.45 U	0.12 U	0.22 U	0.15 U	0.12 U
2-Nitroaniline	NE	NE	NE	mg/kg	5.1 U	0.56 U	0.15 U	0.28 U	0.18 U	0.15 U
2-Nitrophenol	NE	NE	NE	mg/kg	9.7 U	1.1 U	0.28 U	0.53 U	0.35 U	0.29 U
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	41 U	4.5 U	1.2 U	2.2 U	1.5 U	1.2 U
3-Nitroaniline	NE	NE	NE	mg/kg	9.5 U	1.1 U	0.28 U	0.52 U	0.34 U	0.29 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	35 U	3.8 U	1 U	1.9 U	1.2 U	1 U
4-Bromophenyl phenyl ether	NE	NE	NE	mg/kg	4.9 U	0.54 U	0.14 U	0.27 U	0.17 U	0.15 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	8.5 U	0.94 U	0.25 U	0.47 U	0.3 U	0.26 U
4-Chloroaniline	NE	NE	NE	mg/kg	8.5 U	0.94 U	0.25 U	0.47 U	0.3 U	0.26 U
4-Chlorophenyl phenyl ether	NE	NE	NE	mg/kg	4.3 U	0.47 U	0.12 U	0.23 U	0.15 U	0.13 U
4-Methylphenol	1000	NE	0.33	mg/kg	4.1 U	0.45 U	0.12 U	0.22 U	0.15 U	0.12 U
4-Nitroaniline	NE	NE	NE	mg/kg	18 U	2 U	0.52 U	0.99 U	0.65 U	0.54 U
4-Nitrophenol	NE	NE	NE	mg/kg	24 U	2.7 U	0.7 U	1.3 U	0.86 U	0.73 U
Acetophenone	NE	NE	NE	mg/kg	4.7 U	0.51 U	0.13 U	0.26 U	0.17 U	0.14 U
Atrazine	NE	NE	NE	mg/kg	12 U	1.3 U	0.35 U	0.66 U	0.43 U	0.36 U
Benzaldehyde	NE	NE	NE	mg/kg	27 U	3 U	0.79 U	1.5 U	0.98 U	0.83 U
Benzyl butyl phthalate	NE	NE	NE	mg/kg	5.7 U	0.63 U	0.16 U	0.31 U	0.2 U	0.17 U
Biphenyl (Diphenyl)	NE	NE	NE	mg/kg	5.1 U	0.56 U	0.15 U	0.28 U	0.18 U	0.15 U
bis(2-Chloroethoxy)methane	NE	NE	NE	mg/kg	7.3 U	0.8 U	0.21 U	0.4 U	0.26 U	0.22 U
bis(2-Chloroethyl)ether	NE	NE	NE	mg/kg	4.5 U	0.49 U	0.13 U	0.24 U	0.16 U	0.13 U
bis(2-Chloroisopropyl)ether	NE	NE	NE	mg/kg	6.9 U	0.76 U	0.2 U	0.38 U	0.25 U	0.21 U
bis(2-Ethylhexyl)phthalate	NE	NE	NE	mg/kg	12 U	1.3 U	0.34 U	0.65 U	0.42 U	0.35 U
Caprolactam	NE	NE	NE	mg/kg	10 U	1.1 U	0.3 U	0.57 U	0.37 U	0.31 U
Carbazole	NE	NE	NE	mg/kg	4.1 U	0.45 U	0.12 U	0.22 U	0.15 U	0.12 U
Dibenzofuran	1000	NE	210	mg/kg	4.1 U	0.45 U	0.12 U	0.22 U	0.15 U	0.12 U
Diethyl phthalate	NE	NE	NE	mg/kg	4.5 U	0.49 U	0.13 U	0.24 U	0.16 U	0.13 U
Dimethyl phthalate	NE	NE	NE	mg/kg	4.1 U	0.45 U	0.12 U	0.22 U	0.15 U	0.12 U
dI-n-Butyl phthalate	NE	NE	NE	mg/kg	5.9 U	0.65 U	0.17 U	0.32 U	0.21 U	0.18 U
dI-n-Octyl phthalate	NE	NE	NE	mg/kg	4.1 U	0.45 U	0.12 U	0.22 U	0.15 U	0.12 U
Hexachlorobenzene	12	NE	3.2	mg/kg	4.7 U	0.51 U	0.13 U	0.26 U	0.17 U	0.14 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	5.1 U	0.56 U	0.15 U	0.28 U	0.18 U	0.15 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	4.7 U	0.51 U	0.13 U	0.26 U	0.17 U	0.14 U
Hexachloroethane	NE	NE	NE	mg/kg	4.5 U	0.49 U	0.13 U	0.24 U	0.16 U	0.13 U
Isophorone	NE	NE	NE	mg/kg	7.3 U	0.8 U	0.21 U	0.4 U	0.26 U	0.22 U
Nitrobenzene	NE	NE	NE	mg/kg	3.9 U	0.42 U	0.11 U	0.21 U	0.14 U	0.12 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	5.9 U	0.65 U	0.17 U	0.32 U	0.21 U	0.18 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	28 U	3.1 U	0.81 U	1.5 U	1 U	0.84 U
Pentachlorophenol	55	0.8	0.8	mg/kg	35 U	3.8 U	1 U	1.9 U	1.2 U	1 U
Phenol	1000	30	0.33	mg/kg	5.3 U	0.58 U	0.15 U	0.29 U	0.19 U	0.16 U

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Inorganic Constituents										
Cyanide, total	10000	NE	40	mg/kg	0.5 U	1.4	0.57 U	0.92 J	0.71 U	0.59 UJ
Aluminum	NE	NE	NE	mg/kg	3190	5240	5180	2030	7160	4210
Antimony	NE	NE	NE	mg/kg	0.42 U	2.1 U	4.7 U	0.45 U	0.55 U	0.48 U
Arsenic	16	13	16	mg/kg	10.2	**16.8**	**48.5**	5.4	4	8.3
Barium	10000	433	820	mg/kg	39.7	68	43.7	16.3	44.8	28.5
Beryllium	2700	10	47	mg/kg	0.54	0.16 J	1.8 J	0.39	0.41	0.44
Cadmium	60	4	7.5	mg/kg	0.16 U	0.16 U	0.35 U	0.17 U	0.041 U	0.18 U
Calcium	NE	NE	NE	mg/kg	5540 B	2640 B	11100 B	1750 B	2460 B	3220 B
Chromium	NE	NE	19	mg/kg	**26.8**	**68.9**	**35.2**	8.1	12.6	18.7
Cobalt	NE	NE	NE	mg/kg	6.5	9.7	14.5	8.6	9.6	7.7
Copper	10000	50	1720	mg/kg	12.8	**52**	43.4	14.8	11.6	12.9
Iron	NE	NE	NE	mg/kg	50700 B	98400 B	236000 B	43600 B	25300 B	47900 B
Lead	3900	63	450	mg/kg	**97.1**	21.5	58.6	19.9	6.7	8.5
Magnesium	NE	NE	NE	mg/kg	1250	885	1440	682	2570	2080
Manganese	10000	1600	2000	mg/kg	1190 B	**24900 B^**	1170 B^	300 B^	278 B^	496 B
Nickel	10000	30	130	mg/kg	14.7 J	18.5 J	24.5	17.4	15	14.1
Potassium	NE	NE	NE	mg/kg	363	560	743	288	846	669
Selenium	6800	3.9	4	mg/kg	0.42 U	2.1 U	4.7 U	0.45 U	0.55 U	0.48 U
Silver	6800	2	8.3	mg/kg	1.1 U	1 U	2.3 U	0.22 U	0.28 U	0.24 U
Sodium	NE	NE	NE	mg/kg	148 U	146 U	1630 U	157 U	213 U	167 U
Thallium	NE	NE	NE	mg/kg	1.6 U	8.8 J	0.35 U	0.34 U	0.41 U	0.36 U
Vanadium	NE	NE	NE	mg/kg	46.6	282	132	23.1	23.1	46.9
Zinc	10000	109	2480	mg/kg	61 B	45.2 B	105 B	13.8 B	45.2 B	22.4 B
Mercury	5.7	0.18	0.73	mg/kg	0.099	0.04	**0.24**	0.052	0.027 J	0.014 J
Pesticides										
4,4'-DDD	180	0.0033	14	mg/kg	0.017 U	0.0036 U	0.0019 U	0.0018 U	0.0024 U	0.002 U
4,4'-DDE	120	0.0033	17	mg/kg	0.018 U	0.0039 U	0.002 U	0.002 U	0.0026 U	0.0021 U
4,4'-DDT	94	0.0033	136	mg/kg	0.085 U	0.0043 U	0.0023 U	0.0022 U	0.0029 U	0.0024 U
Aldrin	1.4	0.14	0.19	mg/kg	0.021 U	0.0045 U	0.0024 U	0.0023 U	0.003 U	0.0025 U
alpha Endosulfan (Endosulfan I)	920	NE	102	mg/kg	0.016 U	0.0035 U	0.0019 U	0.0018 U	0.0023 U	0.002 U
beta Endosulfan (Endosulfan II)	920	NE	102	mg/kg	0.015 U	0.0033 U	0.0017 U	0.0017 U	0.0022 U	0.0018 U
BHC, alpha	6.8	0.04	0.02	mg/kg	0.015 U	0.0033 U	0.0017 U	0.0017 U	0.012 U	0.0018 U
BHC, beta	14	0.6	0.09	mg/kg	0.015 U	0.0033 U	0.0017 U	0.0017 U	0.0022 U	0.0018 U
BHC, delta	1000	0.04	0.25	mg/kg	0.085 U	0.0034 U	0.0018 U	0.0018 U	0.0052 NJ	0.01 U
BHC, gamma (Lindane)	23	6	0.1	mg/kg	0.016 U	0.0034 U	0.0018 U	0.0017 U	0.0022 U	0.0019 U
Chlordane, alpha	47	1.3	2.9	mg/kg	0.042 U	0.0092 U	0.0048 U	0.0047 U	0.0061 U	0.0051 U
Chlordane, beta	NE	NE	NE	mg/kg	0.027 U	0.0059 U	0.0031 U	0.003 U	0.0039 U	0.0032 U
Dieldrin	2.8	0.006	0.1	mg/kg	0.02 U	0.0044 U	0.0023 U	0.0023 U	0.0029 U	0.0025 U
Endosulfan sulfate	920	NE	1000	mg/kg	0.085 U	0.018 U	0.0018 U	0.0095 U	0.0023 U	0.0019 U
Endrin	410	0.014	0.06	mg/kg	0.017 U	0.0037 U	0.0019 U	0.0019 U	0.0024 U	0.002 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-6 5-5.8 5/8/2015	SB-6 9.5-10 5/8/2015	SB-6 15-15.5 5/8/2015	SB-6 19.5-20 5/8/2015	SB-6 25-25.5 5/8/2015	SB-6 31-31.5 5/11/2015
Endrin aldehyde	NE	NE	NE	mg/kg	0.022 U	0.0047 U	0.0025 U	0.0024 U	0.0031 U	0.0026 U
Endrin ketone	NE	NE	NE	mg/kg	0.021 U	0.0045 U	0.0055 J	0.0023 U	0.003 U	0.0025 U
Heptachlor	29	0.14	0.38	mg/kg	0.018 U	0.004 U	0.0021 U	0.002 U	0.0026 U	0.0022 U
Heptachlor epoxide	NE	NE	NE	mg/kg	0.022 U	0.018 U	0.0025 U	0.0024 U	0.0032 U	0.0026 U
Methoxychlor	NE	NE	NE	mg/kg	0.017 U	0.0038 U	0.002 U	0.0019 U	0.0025 U	0.0021 U
Toxaphene	NE	NE	NE	mg/kg	0.5 U	0.11 U	0.056 U	0.055 U	0.071 U	0.059 U
Polychlorinated Biphenyls (PCBs)										
Aroclor 1016	NE	NE	3.2	mg/kg	0.04 U	0.044 U	0.048 U	0.053 U	0.062 U	0.05 U
Aroclor 1221	NE	NE	3.2	mg/kg	0.04 U	0.044 U	0.048 U	0.053 U	0.062 U	0.05 U
Aroclor 1232	NE	NE	3.2	mg/kg	0.04 U	0.044 U	0.048 U	0.053 U	0.062 U	0.05 U
Aroclor 1242	NE	NE	3.2	mg/kg	0.04 U	0.044 U	0.048 U	0.053 U	0.062 U	0.05 U
Aroclor 1248	NE	NE	3.2	mg/kg	0.14 J	0.044 U	0.048 U	0.053 U	0.062 U	0.05 U
Aroclor 1254	NE	NE	3.2	mg/kg	0.097 U	0.11 U	0.11 U	0.13 U	0.15 U	0.12 U
Aroclor 1260	NE	NE	3.2	mg/kg	0.097 U	0.11 U	0.11 U	0.13 U	0.15 U	0.12 U
Total PCBs	25	1.0	3.2	mg/kg	0.14 J	ND	ND	ND	ND	ND

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value show is approximate and may be inaccurate or imprecise.
N J - The analyte detection if tentative in indentification and estimated in value.
B - Constituent was found in the blank and the sample.
R - Result rejected as determined by the data validator.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
F2 - MS/MSD Relative Percent Difference (RPD) exceeds control limits.
^ - Instrument related QC is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
NE - Not established.
ND - Not detected
(a) - City of Troy Official Zoning Map

Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for: Protection of Public Health for Industrially Zoned Properties, Protection of Ecological Resources, and/or Protection of Groundwater.

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-7 0-1 5/5/2015	SB-7 DUP 0-1 5/5/2015	SB-7 5-5.7 5/14/2015	SB-7 11-12.1 5/14/2015	SB-7 17-18.3 5/14/2015	SB-7 21-22.6 5/14/2015
Volatile Organic Compounds (VOCs)										
BTEX										
Benzene	89	70	0.06	mg/kg	0.0049 J	0.0018 J	0.0011 J	0.00027 J	0.00027 UJ	0.00029 U
Toluene	1000	36	0.7	mg/kg	0.022	0.0098	0.0011 J	0.00036 U	0.00041 UJ	0.00044 U
Ethylbenzene	780	NE	1	mg/kg	0.029	0.011	0.00056 J*	0.00033 U	0.00038 UJ	0.0004 U
Xylenes, total	1000	0.26	1.6	mg/kg	0.18	0.08	0.00083 U	0.0008 U	0.00092 UJ	0.00098 U
Total BTEX	NE	NE	NE	mg/kg	0.24	0.10	0.0028 J	0.00027 J	ND	ND
Other VOCs										
1,1,1-Trichloroethane	1000	NE	0.68	mg/kg	0.00047 U	0.00046 U	0.00036 U	0.00034 U	0.0004 UJ	0.00042 U
1,1,2,2-Tetrachloroethane	NE	NE	NE	mg/kg	0.001 U	0.001 U	0.0008 U	0.00077 U	0.00088 UJ	0.00094 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NE	NE	NE	mg/kg	0.0015 U	0.0014 U	0.0011 U	0.0011 U	0.0012 UJ	0.0013 U
1,1,2-Trichloroethane	NE	NE	NE	mg/kg	0.00084 U	0.00082 U	0.00064 U	0.00062 U	0.00071 UJ	0.00076 U
1,1-Dichloroethane	480	NE	0.27	mg/kg	0.00078 U	0.00077 U	0.0006 U	0.00058 U	0.00067 UJ	0.00071 U
1,1-Dichloroethene	1000	NE	0.33	mg/kg	0.00079 U	0.00077 U	0.00061 U	0.00058 U	0.00067 UJ	0.00071 U
1,2,4-Trichlorobenzene	NE	NE	NE	mg/kg	0.00039 U	0.00038 U	0.0003 U	0.00029 U	0.00033 UJ	0.00035 U
1,2-Dibromo-3-chloropropane (DBCP)	NE	NE	NE	mg/kg	0.0032 U	0.0032 U	0.0025 U	0.0024 U	0.0027 UJ	0.0029 U
1,2-Dibromoethane (EDB)	NE	NE	NE	mg/kg	0.00083 U	0.00081 U	0.00064 U	0.00061 U	0.0007 UJ	0.00075 U
1,2-Dichlorobenzene	1000	NE	1.1	mg/kg	0.0005 UJ	0.00049 UJ	0.00039 U	0.00037 U	0.00043 UJ	0.00045 U
1,2-Dichloroethane	60	10	0.02	mg/kg	0.00032 U	0.00032 U	0.00025 U	0.00024 U	0.00027 UJ	0.00029 U
1,2-Dichloropropane	NE	NE	NE	mg/kg	0.0032 U	0.0032 U	0.0025 U	0.0024 U	0.0027 UJ	0.0029 U
1,3-Dichlorobenzene	560	NE	2.4	mg/kg	0.00033 UJ	0.00032 UJ	0.00025 UJ	0.00024 UJ	0.00028 UJ	0.0003 UJ
1,4-Dichlorobenzene	250	20	1.8	mg/kg	0.0009 U	0.00088 U	0.00069 UJ	0.00066 UJ	0.00076 UJ	0.00081 UJ
2-Butanone (MEK)	1000	100	0.12	mg/kg	0.0024 U	0.0023 U	0.0018 U	0.0017 U	0.002 UJ	0.0021 U
2-Hexanone	NE	NE	NE	mg/kg	0.0032 U	0.0032 U	0.0025 U	0.0024 U	0.0027 UJ	0.0029 U
4-Methyl-2-pentanone (MIBK)	NE	NE	NE	mg/kg	0.0021 U	0.0021 U	0.0016 U	0.0016 U	0.0018 UJ	0.0019 U
Acetone	1000	2.2	0.05	mg/kg	0.032 U	0.0053 U	0.025 U	0.024 U	0.0046 UJ	0.029 U
Bromodichloromethane	NE	NE	NE	mg/kg	0.00086 U	0.00084 U	0.00066 U	0.00064 U	0.00073 UJ	0.00078 U
Bromoform	NE	NE	NE	mg/kg	0.0032 U	0.0032 U	0.0025 U	0.0024 U	0.0027 UJ	0.0029 U
Bromomethane	NE	NE	NE	mg/kg	0.00058 U	0.00057 U	0.00045 U	0.00043 U	0.00049 UJ	0.00052 U
Carbon disulfide	NE	NE	NE	mg/kg	0.0032 U	0.0032 U	0.0025 U	0.0024 U	0.0027 UJ	0.0029 U
Carbon tetrachloride	44	NE	0.76	mg/kg	0.00062 U	0.00061 U	0.00048 U	0.00046 U	0.00053 UJ	0.00056 U
Chlorobenzene	1000	40	1.1	mg/kg	0.00085 U	0.00083 U	0.00065 U	0.00063 U	0.00072 UJ	0.00077 U
Chloroethane	NE	NE	NE	mg/kg	0.0015 U	0.0014 U	0.0011 U	0.0011 U	0.0012 UJ	0.0013 U
Chloroform	700	12	0.37	mg/kg	0.0004 U	0.00039 U	0.00031 U	0.00029 U	0.00034 UJ	0.00036 U
Chloromethane	NE	NE	NE	mg/kg	0.00039 U	0.00038 U	0.0003 U	0.00029 U	0.00033 UJ	0.00035 U
cis-1,2-Dichloroethene	1000	NE	0.25	mg/kg	0.00082 U	0.00081 U	0.00063 U	0.00061 U	0.0007 UJ	0.00074 U
cis-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.00093 U	0.00091 U	0.00071 U	0.00068 U	0.00079 UJ	0.00084 U
Cyclohexane	NE	NE	NE	mg/kg	0.0009 U	0.00088 U	0.00069 U	0.00066 U	0.00076 UJ	0.00081 U
Dibromochloromethane	NE	NE	NE	mg/kg	0.00082 U	0.00081 U	0.00063 U	0.00061 U	0.0007 UJ	0.00074 U
Dichlorodifluoromethane (Freon 12)	NE	NE	NE	mg/kg	0.00053 U	0.00052 U	0.00041 U	0.00039 U	0.00045 UJ	0.00048 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-7 0-1 5/5/2015	SB-7 DUP 0-1 5/5/2015	SB-7 5-5.7 5/14/2015	SB-7 11-12.1 5/14/2015	SB-7 17-18.3 5/14/2015	SB-7 21-22.6 5/14/2015
Isopropylbenzene (Cumene)	NE	NE	NE	mg/kg	0.0095	0.0049 J	0.00075 U	0.00072 U	0.00082 UJ	0.00088 U
Methyl acetate	NE	NE	NE	mg/kg	0.0039 U	0.0038 U	0.003 U	0.0029 U	0.0033 UJ	0.0035 U
Methylcyclohexane	NE	NE	NE	mg/kg	0.00098 U	0.00096 U	0.00075 U	0.00072 U	0.00083 UJ	0.00088 U
Methylene chloride	1000	12	0.05	mg/kg	0.003 U	0.0029 U	0.0023 U	0.0022 U	0.0025 UJ	0.0027 U
Styrene	NE	NE	NE	mg/kg	0.022 *	0.01 *	0.00025 U	0.00024 U	0.00027 UJ	0.00029 U
tert-Butyl methyl ether (MTBE)	1000	NE	0.93	mg/kg	0.00063 U	0.00062 U	0.00049 U	0.00047 U	0.00054 UJ	0.00057 U
Tetrachloroethene (PCE)	300	2	1.3	mg/kg	0.00086 U	0.00085 U	0.00066 U	0.00064 U	0.00073 UJ	0.00078 U
trans-1,2-Dichloroethene	1000	NE	0.19	mg/kg	0.00066 U	0.00065 U	0.00051 U	0.00049 U	0.00056 UJ	0.0006 U
trans-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.0028 U	0.0028 U	0.0022 U	0.0021 U	0.0024 UJ	0.0026 U
Trichloroethene (TCE)	400	2	0.47	mg/kg	0.0014 U	0.0014 U	0.0011 U	0.001 U	0.0012 UJ	0.0013 U
Trichlorofluoromethane (Freon 11)	NE	NE	NE	mg/kg	0.00061 U	0.0006 U	0.00047 U	0.00045 U	0.00052 UJ	0.00055 U
Vinyl chloride	27	NE	0.02	mg/kg	0.00078 U	0.00077 U	0.0006 U	0.00058 U	0.00067 UJ	0.00071 U
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1000	20	98	mg/kg	**57**	14 J	0.97 J	0.14 U	0.15 U	0.033 U
Acenaphthylene	1000	NE	107	mg/kg	52	16 J	1 J	0.12 U	0.13 U	0.029 U
Anthracene	1000	NE	1000	mg/kg	96	27	2.2	0.23 U	0.25 U	0.055 U
Benzo(a)anthracene	11	NE	1	mg/kg	**180**	**64**	**5**	0.63 J	0.1 U	0.022 U
Benzo(a)pyrene	1.1	2.6	22	mg/kg	**130**	**45**	**3.6**	0.49 J	0.15 U	0.033 U
Benzo(b)fluoranthene	11	NE	1.7	mg/kg	**120**	**45**	**3.4**	0.62 J	0.16 U	0.036 U
Benzo(g,h,i)perylene	1000	NE	1000	mg/kg	53	22 J	1.5 J	0.26 J	0.11 U	0.024 U
Benzo(k)fluoranthene	110	NE	1.7	mg/kg	**59**	**17 J**	1.7 J	0.21 J	0.13 U	0.029 U
Chrysene	110	NE	1	mg/kg	**160**	**61**	**4.5**	0.52 J	0.23 U	0.05 U
Dibenz(a,h)anthracene	1.1	NE	1000	mg/kg	**19 J**	4.8 U	0.32 U	0.17 U	0.18 U	0.04 U
Fluoranthene	1000	NE	1000	mg/kg	260	99	7.9	0.9 J	0.11 J	0.024 U
Fluorene	1000	30	386	mg/kg	**150**	**37**	2.9	0.15 J	0.12 U	0.026 U
Indeno(1,2,3-c,d)pyrene	11	NE	8.2	mg/kg	**41 J**	**19 J**	1.3 J	0.26 J	0.13 U	0.028 U
Naphthalene	1000	NE	12	mg/kg	**210**	**45**	1.6 J	0.14 J	0.13 U	0.029 U
Phenanthrene	1000	NE	1000	mg/kg	560	160	12	1	0.15 U	0.033 U
Pyrene	1000	NE	1000	mg/kg	430	150	10	1.1	0.12 U	0.026 U
2-Methylnaphthalene	NE	NE	NE	mg/kg	160	36	1.8	0.19 U	0.21 U	0.045 U
Total PAHS	NE	NE	NE	mg/kg	2737	857	61	6.3	0.11 J	ND
Other SVOCs										
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	14 U	7.3 U	0.5 U	0.26 U	0.28 U	0.061 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	10 U	5.4 U	0.37 U	0.19 U	0.21 U	0.045 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	5.5 U	2.9 U	0.19 U	0.1 U	0.11 U	0.024 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	12 U	6.5 U	0.44 U	0.23 U	0.25 U	0.054 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	240 U	120 U	8.5 U	4.4 U	4.7 U	1 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	11 U	5.6 U	0.38 U	0.2 U	0.21 U	0.046 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	6.1 U	3.2 U	0.22 U	0.11 U	0.12 U	0.026 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-7 0-1 5/5/2015	SB-7 DUP 0-1 5/5/2015	SB-7 5-5.7 5/14/2015	SB-7 11-12.1 5/14/2015	SB-7 17-18.3 5/14/2015	SB-7 21-22.6 5/14/2015
2-Chloronaphthalene	NE	NE	NE	mg/kg	8.5 U	4.5 U	0.3 U	0.16 U	0.17 U	0.037 U
2-Chlorophenol	NE	NE	NE	mg/kg	9.4 U	4.9 U	0.34 U	0.17 U	0.19 U	0.041 U
2-Methylphenol (o-cresol)	1000	NE	0.33	mg/kg	6.1 U	3.2 U	0.22 U	0.11 U	0.12 U	0.026 U
2-Nitroaniline	NE	NE	NE	mg/kg	7.6 U	4 U	0.27 U	0.14 U	0.15 U	0.033 U
2-Nitrophenol	NE	NE	NE	mg/kg	15 U	7.6 U	0.52 U	0.27 U	0.29 U	0.063 U
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	61 U	32 U	2.2 U	1.1 U	1.2 U	0.26 U
3-Nitroaniline	NE	NE	NE	mg/kg	14 U	7.5 U	0.51 U	0.26 U	0.28 U	0.062 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	52 U	27 U	1.8 U	0.95 U	1 U	0.22 U
4-Bromophenyl phenyl ether	NE	NE	NE	mg/kg	7.3 U	3.8 U	0.26 U	0.13 U	0.14 U	0.032 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	13 U	6.7 U	0.45 U	0.23 U	0.25 U	0.055 U
4-Chloroaniline	NE	NE	NE	mg/kg	13 U	6.7 U	0.45 U	0.23 U	0.25 U	0.055 U
4-Chlorophenyl phenyl ether	NE	NE	NE	mg/kg	6.4 U	3.3 U	0.23 U	0.12 U	0.13 U	0.028 U
4-Methylphenol	1000	NE	0.33	mg/kg	6.1 U	3.2 U	0.22 U	0.11 U	0.12 U	0.026 U
4-Nitroaniline	NE	NE	NE	mg/kg	27 U	14 U	0.96 U	0.5 U	0.54 U	0.12 U
4-Nitrophenol	NE	NE	NE	mg/kg	36 U	19 U	1.3 U	0.67 U	0.72 U	0.16 U
Acetophenone	NE	NE	NE	mg/kg	7 U	3.7 U	0.25 U	0.13 U	0.14 U	0.03 U
Atrazine	NE	NE	NE	mg/kg	18 U	9.4 U	0.64 U	0.33 U	0.36 U	0.078 U
Benzaldehyde	NE	NE	NE	mg/kg	41 U	22 U	1.5 U	0.75 U	0.81 U	0.18 U
Benzyl butyl phthalate	NE	NE	NE	mg/kg	8.5 U	4.5 U	0.3 U	0.16 U	0.17 U	0.037 U
Biphenyl (Diphenyl)	NE	NE	NE	mg/kg	21 J*	4.8 J*	0.27 U	0.14 U	0.15 U	0.033 U
bis(2-Chloroethoxy)methane	NE	NE	NE	mg/kg	11 U	5.7 U	0.39 U	0.2 U	0.22 U	0.048 U
bis(2-Chloroethyl)ether	NE	NE	NE	mg/kg	6.7 U	3.5 U	0.24 U	0.12 U	0.13 U	0.029 U
bis(2-Chloroisopropyl)ether	NE	NE	NE	mg/kg	10 U	5.4 U	0.37 U	0.19 U	0.21 U	0.045 U
bis(2-Ethylhexyl)phthalate	NE	NE	NE	mg/kg	18 U	9.2 U	0.63 U	0.32 U	0.35 U	0.077 U
Caprolactam	NE	NE	NE	mg/kg	15 U	8.1 U	0.55 U	0.29 U	0.31 U	0.067 U
Carbazole	NE	NE	NE	mg/kg	16 J	3.8 J	0.49 J	0.11 U	0.12 U	0.026 U
Dibenzofuran	1000	NE	210	mg/kg	45 J	11 J	0.96 J	0.11 U	0.12 U	0.026 U
Diethyl phthalate	NE	NE	NE	mg/kg	6.7 U	3.5 U	0.24 U	0.12 U	0.13 U	0.029 U
Dimethyl phthalate	NE	NE	NE	mg/kg	6.1 U	3.2 U	0.22 U	0.11 U	0.12 U	0.026 U
dI-n-Butyl phthalate	NE	NE	NE	mg/kg	8.8 U	4.6 U	0.31 U	0.16 U	0.18 U	0.038 U
dI-n-Octyl phthalate	NE	NE	NE	mg/kg	6.1 U	3.2 U	0.22 U	0.11 U	0.12 U	0.026 U
Hexachlorobenzene	12	NE	3.2	mg/kg	7 U	3.7 U	0.25 U	0.13 U	0.14 U	0.03 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	7.6 U	4 U	0.27 U	0.14 U	0.15 U	0.033 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	7 U	3.7 U	0.25 U	0.13 U	0.14 U	0.03 U
Hexachloroethane	NE	NE	NE	mg/kg	6.7 U	3.5 U	0.24 U	0.12 U	0.13 U	0.029 U
Isophorone	NE	NE	NE	mg/kg	11 U	5.7 U	0.39 U	0.2 U	0.22 U	0.048 U
Nitrobenzene	NE	NE	NE	mg/kg	5.8 U	3 U	0.21 U	0.11 U	0.11 U	0.025 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	8.8 U	4.6 U	0.31 U	0.16 U	0.18 U	0.038 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	42 U	22 U	1.5 U	0.77 U	0.83 U	0.18 U
Pentachlorophenol	55	0.8	0.8	mg/kg	52 U	27 U	1.8 U	0.95 U	1 U	0.22 U
Phenol	1000	30	0.33	mg/kg	7.9 U	4.1 U	0.28 U	0.15 U	0.16 U	0.034 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-7 0-1 5/5/2015	SB-7 DUP 0-1 5/5/2015	SB-7 5-5.7 5/14/2015	SB-7 11-12.1 5/14/2015	SB-7 17-18.3 5/14/2015	SB-7 21-22.6 5/14/2015
Inorganic Constituents										
Cyanide, total	10000	NE	40	mg/kg	0.64 J	0.71 J	0.52 UJ	0.54 U	0.58 U	0.63 U
Aluminum	NE	NE	NE	mg/kg	7400	9960	5420	4330	3140	18000
Antimony	NE	NE	NE	mg/kg	0.59 J	2.3 U	4.5 U	2.3 U	2.3 U	0.5 U
Arsenic	16	13	16	mg/kg	11.3	**18.9**	**53**	**23.1**	**13.7**	6.7
Barium	10000	433	820	mg/kg	78	100	46.1	38.4	30.3	106
Beryllium	2700	10	47	mg/kg	0.73	0.99 J	2.5	0.97 J	1.1 J	1.1
Cadmium	60	4	7.5	mg/kg	0.31	0.39 J	0.34 U	0.17 U	0.17 U	0.037 U
Calcium	NE	NE	NE	mg/kg	8650 B	11900 B	20700 B	7510 B	5400 B	22900 B
Chromium	NE	NE	19	mg/kg	**25.4**	**39**	**62.8**	**44.1**	**23.1**	**21.8**
Cobalt	NE	NE	NE	mg/kg	10.6	12.5	11.3	11.9	10.4	15.2
Copper	10000	50	1720	mg/kg	22.7	37.3	35.1	47.2	**77.3**	23.2
Iron	NE	NE	NE	mg/kg	27800 ^B	65300 ^B	229000 B	162000 ^B	147000 ^B	33900 ^B
Lead	3900	63	450	mg/kg	**198**	**211**	**82.2**	27.6	16.9	11.5
Magnesium	NE	NE	NE	mg/kg	6890 B	8970 B	1770 B	1200	708	7950
Manganese	10000	1600	2000	mg/kg	599 B	1300 B	**3690 B**	**1740 ^B**	1460 B	523 B
Nickel	10000	30	130	mg/kg	**71.2**	**68.7**	25.3	26.2 J	18.7 J	**33.4**
Potassium	NE	NE	NE	mg/kg	1270 B	1810 B	648	717	357	4130
Selenium	6800	3.9	4	mg/kg	0.41 U	2.3 U	4.5 U	2.3 U	2.3 U	0.5 U
Silver	6800	2	8.3	mg/kg	0.2 U	1.1 U	2.2 U	1.1 U	1.2 U	0.25 U
Sodium	NE	NE	NE	mg/kg	143 U	791 U	1570 U	792 U	815 U	378 U
Thallium	NE	NE	NE	mg/kg	0.31 U	0.34 U	1.7 U	0.34 U	0.35 U	0.37 U
Vanadium	NE	NE	NE	mg/kg	52.5	89.1	141	56.3	77.1	38.8
Zinc	10000	109	2480	mg/kg	**136 B**	**186 B**	46.6 B	36.6 B	37.5 B	67 B
Mercury	5.7	0.18	0.73	mg/kg	0.062	0.1	0.038	0.024	0.0091 U	0.024 J
Pesticides										
4,4'-DDD	180	0.0033	14	mg/kg	0.082 U	0.086 U	0.017 U	0.0018 U	0.00038 U	0.00043 U
4,4'-DDE	120	0.0033	17	mg/kg	0.089 U	0.093 U	0.019 U	0.00039 U	0.00041 U	0.00046 U
4,4'-DDT	94	0.0033	136	mg/kg	0.099 U	0.1 U	0.021 U	0.0018 U	0.00046 U	0.00051 U
Aldrin	1.4	0.14	0.19	mg/kg	0.1 U	0.11 U	0.022 U	0.00045 U	0.00049 U	0.00054 U
alpha Endosulfan (Endosulfan I)	920	NE	102	mg/kg	0.081 U	0.085 U	0.017 U	0.00035 U	0.00038 U	0.00042 U
beta Endosulfan (Endosulfan II)	920	NE	102	mg/kg	0.076 U	0.08 U	0.016 U	0.00033 U	0.00035 U	0.00039 U
BHC, alpha	6.8	0.04	0.02	mg/kg	0.076 U	0.08 U	0.016 U	0.0018 U	0.00035 U	0.00039 U
BHC, beta	14	0.6	0.09	mg/kg	0.076 U	0.08 U	0.016 U	0.00033 U	0.00035 U	0.00039 U
BHC, delta	1000	0.04	0.25	mg/kg	0.079 U	0.083 U	0.023 J	0.00034 U	0.00037 U	0.00041 U
BHC, gamma (Lindane)	23	6	0.1	mg/kg	0.078 U	0.082 U	0.016 U	0.00034 U	0.00036 U	0.0004 U
Chlordane, alpha	47	1.3	2.9	mg/kg	0.21 U	0.22 U	0.045 U	0.00092 U	0.00098 U	0.0011 U
Chlordane, beta	NE	NE	NE	mg/kg	0.13 U	0.14 U	0.028 U	0.00059 U	0.00063 U	0.0007 U
Dieldrin	2.8	0.006	0.1	mg/kg	0.1 U	0.11 U	0.021 U	0.00044 U	0.00047 U	0.00053 U
Endosulfan sulfate	920	NE	1000	mg/kg	0.079 U	0.083 U	0.017 U	0.00034 U	0.00037 U	0.00041 U
Endrin	410	0.014	0.06	mg/kg	0.084 U	0.088 U	0.018 U	0.00037 U	0.00039 U	0.00043 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-7 0-1 5/5/2015	SB-7 DUP 0-1 5/5/2015	SB-7 5-5.7 5/14/2015	SB-7 11-12.1 5/14/2015	SB-7 17-18.3 5/14/2015	SB-7 21-22.6 5/14/2015
Endrin aldehyde	NE	NE	NE	mg/kg	0.11 U	0.11 U	0.023 U	0.0018 U	0.016	0.00056 U
Endrin ketone	NE	NE	NE	mg/kg	0.1 U	0.11 U	0.022 U	0.0019 U	0.00049 U	0.00054 U
Heptachlor	29	0.14	0.38	mg/kg	0.092 U	0.096 U	0.019 U	0.0004 U	0.00043 U	0.00047 U
Heptachlor epoxide	NE	NE	NE	mg/kg	0.11 U	0.11 U	0.023 U	0.00048 U	0.00051 U	0.00057 U
Methoxychlor	NE	NE	NE	mg/kg	0.086 U	0.091 U	0.018 U	0.00038 U	0.0004 U	0.00045 U
Toxaphene	NE	NE	NE	mg/kg	2.5 U	2.6 U	0.52 U	0.011 U	0.011 U	0.013 U
Polychlorinated Biphenyls (PCBs)										
Aroclor 1016	NE	NE	3.2	mg/kg	0.045 U	0.051 U	0.036 U	0.046 U	0.052 U	0.058 U
Aroclor 1221	NE	NE	3.2	mg/kg	0.045 U	0.051 U	0.036 U	0.046 U	0.052 U	0.058 U
Aroclor 1232	NE	NE	3.2	mg/kg	0.045 U	0.051 U	0.036 U	0.046 U	0.052 U	0.058 U
Aroclor 1242	NE	NE	3.2	mg/kg	0.045 U	0.051 U	0.036 U	0.046 U	0.052 U	0.058 U
Aroclor 1248	NE	NE	3.2	mg/kg	0.045 U	0.051 U	0.036 U	0.046 U	0.052 U	0.058 U
Aroclor 1254	NE	NE	3.2	mg/kg	0.11 U	0.12 U	0.086 U	0.11 U	0.13 U	0.14 U
Aroclor 1260	NE	NE	3.2	mg/kg	0.11 U	0.12 U	0.086 U	0.11 U	0.13 U	0.14 U
Total PCBs	25	1.0	3.2	mg/kg	ND	ND	ND	ND	ND	ND

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value show is approximate and may be inaccurate or imprecise.
N J - The analyte detection if tentative in indentification and estimated in value.
B - Constituent was found in the blank and the sample.
R - Result rejected as determined by the data validator.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
F2 - MS/MSD Relative Percent Difference (RPD) exceeds control limits.
^ - Instrument related QC is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
NE - Not established.
ND - Not detected
(a) - City of Troy Official Zoning Map

Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for: Protection of Public Health for Industrially Zoned Properties, Protection of Ecological Resources, and/or Protection of Groundwater.

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-7 DUP 21-22.6 5/14/2015	SB-7 25-26.6 5/14/2015	SB-7 31-32.1 5/14/2015	SB-8 0-1 5/8/2015	SB-8 5-6.3 5/15/2015	SB-8 11-12 5/15/2015
Volatile Organic Compounds (VOCs)										
BTEX										
Benzene	89	70	0.06	mg/kg	0.00028 U	0.00029 U	0.00021 U	0.00036 J	0.00033 UJ	0.00034 U
Toluene	1000	36	0.7	mg/kg	0.00043 U	0.00045 U	0.00032 U	0.00046 J	0.0005 UJ	0.00052 U
Ethylbenzene	780	NE	1	mg/kg	0.00039 U	0.00041 U	0.00029 U	0.00069 U	0.00046 UJ	0.00047 U
Xylenes, total	1000	0.26	1.6	mg/kg	0.00096 U	0.001 U	0.00071 U	0.0011 U	0.0011 UJ	0.0012 U
Total BTEX	NE	NE	NE	mg/kg	ND	ND	ND	0.00082 J	ND	ND
Other VOCs										
1,1,1-Trichloroethane	1000	NE	0.68	mg/kg	0.00041 U	0.00043 U	0.00031 U	0.00048 U	0.00048 UJ	0.0005 U
1,1,2,2-Tetrachloroethane	NE	NE	NE	mg/kg	0.00093 U	0.00096 U	0.00068 U	0.0011 U	0.0011 UJ	0.0011 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NE	NE	NE	mg/kg	0.0013 U	0.0014 U	0.00096 U	0.0015 U	0.0015 UJ	0.0016 U
1,1,2-Trichloroethane	NE	NE	NE	mg/kg	0.00074 U	0.00077 U	0.00055 U	0.00086 U	0.00087 UJ	0.00089 U
1,1-Dichloroethane	480	NE	0.27	mg/kg	0.0007 U	0.00072 U	0.00051 U	0.00081 U	0.00081 UJ	0.00084 U
1,1-Dichloroethene	1000	NE	0.33	mg/kg	0.0007 U	0.00073 U	0.00052 U	0.00081 U	0.00082 UJ	0.00084 U
1,2,4-Trichlorobenzene	NE	NE	NE	mg/kg	0.00035 U	0.00036 U	0.00026 U	0.0036 J	0.00041 UJ	0.00042 U
1,2-Dibromo-3-chloropropane (DBCP)	NE	NE	NE	mg/kg	0.0029 U	0.003 U	0.0021 U	0.0033 U	0.0033 UJ	0.0034 U
1,2-Dibromoethane (EDB)	NE	NE	NE	mg/kg	0.00073 U	0.00076 U	0.00054 U	0.00085 U	0.00086 UJ	0.00088 U
1,2-Dichlorobenzene	1000	NE	1.1	mg/kg	0.00045 U	0.00046 U	0.00033 U	0.00066 J	0.00052 UJ	0.00054 U
1,2-Dichloroethane	60	10	0.02	mg/kg	0.00029 U	0.0003 U	0.00021 U	0.00033 U	0.00033 UJ	0.00035 U
1,2-Dichloropropane	NE	NE	NE	mg/kg	0.0029 U	0.003 U	0.0021 U	0.0033 U	0.0033 UJ	0.0034 U
1,3-Dichlorobenzene	560	NE	2.4	mg/kg	0.00029 UJ	0.00031 UJ	0.00022 UJ	0.00034 U	0.00034 UJ	0.00035 U
1,4-Dichlorobenzene	250	20	1.8	mg/kg	0.0008 UJ	0.00083 UJ	0.00059 UJ	0.0014 J	0.00093 UJ	0.00096 U
2-Butanone (MEK)	1000	100	0.12	mg/kg	0.0021 U	0.0022 U	0.0015 U	0.0024 U	0.0024 UJ	0.0025 U
2-Hexanone	NE	NE	NE	mg/kg	0.0029 U	0.003 U	0.0021 U	0.0033 U	0.0033 UJ	0.0034 U
4-Methyl-2-pentanone (MIBK)	NE	NE	NE	mg/kg	0.0019 U	0.0019 U	0.0014 U	0.0022 U	0.0022 UJ	0.0023 U
Acetone	1000	2.2	0.05	mg/kg	0.029 U	0.03 U	0.0036 U	0.0056 U	0.0056 UJ	0.0058 U
Bromodichloromethane	NE	NE	NE	mg/kg	0.00077 U	0.0008 U	0.00057 U	0.00089 U	0.00089 UJ	0.00092 U
Bromoform	NE	NE	NE	mg/kg	0.0029 U	0.003 U	0.0021 U	0.0033 U	0.0033 UJ	0.0034 U
Bromomethane	NE	NE	NE	mg/kg	0.00051 U	0.00053 U	0.00038 U	0.0006 U	0.0006 UJ	0.00062 U
Carbon disulfide	NE	NE	NE	mg/kg	0.0029 U	0.003 U	0.0021 U	0.0033 U	0.0033 UJ	0.0034 U
Carbon tetrachloride	44	NE	0.76	mg/kg	0.00055 U	0.00057 U	0.00041 U	0.00064 U	0.00064 UJ	0.00067 U
Chlorobenzene	1000	40	1.1	mg/kg	0.00075 U	0.00078 U	0.00056 U	0.00087 U	0.00088 UJ	0.00091 U
Chloroethane	NE	NE	NE	mg/kg	0.0013 U	0.0013 U	0.00095 U	0.0015 U	0.0015 UJ	0.0016 U
Chloroform	700	12	0.37	mg/kg	0.00035 U	0.00037 U	0.00026 U	0.00041 U	0.00041 UJ	0.00043 U
Chloromethane	NE	NE	NE	mg/kg	0.00035 U	0.00036 U	0.00025 U	0.0004 U	0.0004 UJ	0.00042 U
cis-1,2-Dichloroethene	1000	NE	0.25	mg/kg	0.00073 U	0.00076 U	0.00054 U	0.00085 U	0.00085 UJ	0.00088 U
cis-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.00082 U	0.00086 U	0.00061 U	0.00095 U	0.00096 UJ	0.00099 U
Cyclohexane	NE	NE	NE	mg/kg	0.0008 U	0.00083 U	0.00059 U	0.00093 U	0.00093 UJ	0.00096 U
Dibromochloromethane	NE	NE	NE	mg/kg	0.00073 U	0.00076 U	0.00054 U	0.00085 U	0.00085 UJ	0.00088 U
Dichlorodifluoromethane (Freon 12)	NE	NE	NE	mg/kg	0.00047 U	0.00049 U	0.00035 U	0.00055 U	0.00055 UJ	0.00057 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-7 DUP 21-22.6 5/14/2015	SB-7 25-26.6 5/14/2015	SB-7 31-32.1 5/14/2015	SB-8 0-1 5/8/2015	SB-8 5-6.3 5/15/2015	SB-8 11-12 5/15/2015
Isopropylbenzene (Cumene)	NE	NE	NE	mg/kg	0.00086 U	0.0009 U	0.00064 U	0.001 U	0.001 UJ	0.001 U
Methyl acetate	NE	NE	NE	mg/kg	0.0035 U	0.0036 U	0.0025 U	0.004 U	0.004 UJ	0.0042 U
Methylcyclohexane	NE	NE	NE	mg/kg	0.00087 U	0.0009 U	0.00064 U	0.001 U	0.001 UJ	0.001 U
Methylene chloride	1000	12	0.05	mg/kg	0.0026 U	0.0027 U	0.0019 U	0.003 U	0.0031 UJ	0.0032 U
Styrene	NE	NE	NE	mg/kg	0.00029 U	0.0003 U	0.00021 U	0.00033 U	0.00033 UJ	0.00034 U
tert-Butyl methyl ether (MTBE)	1000	NE	0.93	mg/kg	0.00056 U	0.00058 U	0.00041 U	0.00065 U	0.00065 UJ	0.00068 U
Tetrachloroethene (PCE)	300	2	1.3	mg/kg	0.00077 U	0.0008 U	0.00057 U	0.00089 U	0.00089 UJ	0.00092 U
trans-1,2-Dichloroethene	1000	NE	0.19	mg/kg	0.00059 U	0.00061 U	0.00044 U	0.00068 U	0.00069 UJ	0.00071 U
trans-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.0025 U	0.0026 U	0.0019 U	0.0029 U	0.0029 UJ	0.003 U
Trichloroethene (TCE)	400	2	0.47	mg/kg	0.0013 U	0.0013 U	0.00093 U	0.0015 U	0.0015 UJ	0.0015 U
Trichlorofluoromethane (Freon 11)	NE	NE	NE	mg/kg	0.00054 U	0.00056 U	0.0004 U	0.00063 U	0.00063 UJ	0.00065 U
Vinyl chloride	27	NE	0.02	mg/kg	0.0007 U	0.00072 U	0.00051 U	0.00081 U	0.00081 UJ	0.00084 U
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1000	20	98	mg/kg	0.033 U	0.17 U	0.028 U	5.1 U	0.16 U	0.18 U
Acenaphthylene	1000	NE	107	mg/kg	0.029 U	0.15 U	0.025 U	4.5 U	0.14 U	0.16 U
Anthracene	1000	NE	1000	mg/kg	0.055 U	0.28 U	0.047 U	8.6 U	0.26 U	0.3 U
Benzo(a)anthracene	11	NE	1	mg/kg	0.022 U	0.13 J	0.019 U	3.5 U	0.58 J	0.25 J
Benzo(a)pyrene	1.1	2.6	22	mg/kg	0.033 U	0.17 U	0.028 U	5.1 U	0.24 J	0.18 U
Benzo(b)fluoranthene	11	NE	1.7	mg/kg	0.035 U	0.18 U	0.03 U	5.5 U	0.29 J	0.2 U
Benzo(g,h,i)perylene	1000	NE	1000	mg/kg	0.024 U	0.12 U	0.02 U	3.7 U	0.2 J	0.13 U
Benzo(k)fluoranthene	110	NE	1.7	mg/kg	0.029 U	0.15 U	0.025 U	4.5 U	0.16 J	0.16 U
Chrysene	110	NE	1	mg/kg	0.05 U	0.25 U	0.043 U	7.8 U	0.24 U	0.27 U
Dibenz(a,h)anthracene	1.1	NE	1000	mg/kg	0.039 U	0.2 U	0.034 U	6.1 U	0.19 U	0.22 U
Fluoranthene	1000	NE	1000	mg/kg	0.024 U	0.17 J	0.02 U	3.7 U	0.42 J	0.29 J
Fluorene	1000	30	386	mg/kg	0.026 U	0.13 U	0.022 U	4.1 U	0.12 U	0.14 U
Indeno(1,2,3-c,d)pyrene	11	NE	8.2	mg/kg	0.027 U	0.14 U	0.024 U	4.3 U	0.15 J	0.15 U
Naphthalene	1000	NE	12	mg/kg	0.029 U	0.15 U	0.025 U	4.5 U	0.23 J	0.16 U
Phenanthrene	1000	NE	1000	mg/kg	0.033 U	0.17 U	0.028 U	5.1 U	0.72 J	0.39 J
Pyrene	1000	NE	1000	mg/kg	0.026 U	0.16 J	0.022 U	4.1 U	0.4 J	0.32 J
2-Methylnaphthalene	NE	NE	NE	mg/kg	0.044 U	0.22 U	0.038 U	6.9 U	0.35 J	0.25 U
Total PAHS	NE	NE	NE	mg/kg	ND	0.46 J	ND	ND	3.7 J	1.3 J
Other SVOCs										
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	0.06 U	0.3 U	0.052 U	9.4 U	0.29 U	0.33 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	0.044 U	0.22 U	0.038 U	6.9 U	0.21 U	0.25 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	0.024 U	0.12 U	0.02 U	3.7 U	0.11 U	0.13 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	0.054 U	0.27 U	0.046 U	8.4 U	0.25 U	0.3 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	1 U	5.2 U	0.88 U	160 U	4.9 U	5.7 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	0.046 U	0.23 U	0.039 U	7.2 U	0.22 U	0.25 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	0.026 U	0.13 U	0.022 U	4.1 U	0.12 U	0.14 U

TABLE 7
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TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-7 DUP 21-22.6 5/14/2015	SB-7 25-26.6 5/14/2015	SB-7 31-32.1 5/14/2015	SB-8 0-1 5/8/2015	SB-8 5-6.3 5/15/2015	SB-8 11-12 5/15/2015
2-Chloronaphthalene	NE	NE	NE	mg/kg	0.037 U	0.18 U	0.031 U	5.7 U	0.17 U	0.2 U
2-Chlorophenol	NE	NE	NE	mg/kg	0.041 U	0.2 U	0.035 U	6.3 U	0.19 U	0.22 U
2-Methylphenol (o-cresol)	1000	NE	0.33	mg/kg	0.026 U	0.13 U	0.022 U	4.1 U	0.12 U	0.14 U
2-Nitroaniline	NE	NE	NE	mg/kg	0.033 U	0.17 U	0.028 U	5.1 U	0.16 U	0.18 U
2-Nitrophenol	NE	NE	NE	mg/kg	0.063 U	0.32 U	0.054 U	9.8 U	0.3 U	0.35 U
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	0.26 U	1.3 U	0.22 U	41 U	1.2 U	1.4 U
3-Nitroaniline	NE	NE	NE	mg/kg	0.061 U	0.31 U	0.053 U	9.6 U	0.29 U	0.34 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	0.22 U	1.1 U	0.19 U	35 U	1.1 U	1.2 U
4-Bromophenyl phenyl ether	NE	NE	NE	mg/kg	0.031 U	0.16 U	0.027 U	4.9 U	0.15 U	0.17 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	0.055 U	0.28 U	0.047 U	8.6 U	0.26 U	0.3 U
4-Chloroaniline	NE	NE	NE	mg/kg	0.055 U	0.28 U	0.047 U	8.6 U	0.26 U	0.3 U
4-Chlorophenyl phenyl ether	NE	NE	NE	mg/kg	0.027 U	0.14 U	0.024 U	4.3 U	0.13 U	0.15 U
4-Methylphenol	1000	NE	0.33	mg/kg	0.026 U	0.13 U	0.022 U	4.1 U	0.12 U	0.14 U
4-Nitroaniline	NE	NE	NE	mg/kg	0.12 U	0.59 U	0.1 U	18 U	0.55 U	0.64 U
4-Nitrophenol	NE	NE	NE	mg/kg	0.16 U	0.79 U	0.13 U	24 U	0.74 U	0.86 U
Acetophenone	NE	NE	NE	mg/kg	0.03 U	0.15 U	0.026 U	4.7 U	0.14 U	0.17 U
Atrazine	NE	NE	NE	mg/kg	0.077 U	0.39 U	0.066 U	12 U	0.37 U	0.43 U
Benzaldehyde	NE	NE	NE	mg/kg	0.18 U	0.89 U	0.15 U	28 U	0.84 U	0.98 U
Benzyl butyl phthalate	NE	NE	NE	mg/kg	0.037 U	0.18 U	0.031 U	5.7 U	0.17 U	0.2 U
Biphenyl (Diphenyl)	NE	NE	NE	mg/kg	0.033 U	0.17 U	0.028 U	5.1 U	0.16 U	0.18 U
bis(2-Chloroethoxy)methane	NE	NE	NE	mg/kg	0.047 U	0.24 U	0.04 U	7.4 U	0.22 U	0.26 U
bis(2-Chloroethyl)ether	NE	NE	NE	mg/kg	0.029 U	0.15 U	0.025 U	4.5 U	0.14 U	0.16 U
bis(2-Chloroisopropyl)ether	NE	NE	NE	mg/kg	0.044 U	0.22 U	0.038 U	6.9 U	0.21 U	0.25 U
bis(2-Ethylhexyl)phthalate	NE	NE	NE	mg/kg	0.076 U	0.38 U	0.065 U	12 U	0.36 U	0.42 U
Caprolactam	NE	NE	NE	mg/kg	0.067 U	0.34 U	0.057 U	10 U	0.32 U	0.37 U
Carbazole	NE	NE	NE	mg/kg	0.026 U	0.13 U	0.022 U	4.1 U	0.12 U	0.14 U
Dibenzofuran	1000	NE	210	mg/kg	0.026 U	0.13 U	0.022 U	4.1 U	0.13 J	0.14 U
Diethyl phthalate	NE	NE	NE	mg/kg	0.029 U	0.15 U	0.025 U	4.5 U	0.14 U	0.16 U
Dimethyl phthalate	NE	NE	NE	mg/kg	0.026 U	0.13 U	0.022 U	4.1 U	0.12 U	0.14 U
dI-n-Butyl phthalate	NE	NE	NE	mg/kg	0.038 U	0.19 U	0.033 U	5.9 U	0.18 U	0.21 U
dI-n-Octyl phthalate	NE	NE	NE	mg/kg	0.026 U	0.13 U	0.022 U	4.1 U	0.12 U	0.14 U
Hexachlorobenzene	12	NE	3.2	mg/kg	0.03 U	0.15 U	0.026 U	4.7 U	0.14 U	0.17 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	0.033 U	0.17 U	0.028 U	5.1 U	0.16 U	0.18 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	0.03 U	0.15 U	0.026 U	4.7 U	0.14 U	0.17 U
Hexachloroethane	NE	NE	NE	mg/kg	0.029 U	0.15 U	0.025 U	4.5 U	0.14 U	0.16 U
Isophorone	NE	NE	NE	mg/kg	0.047 U	0.24 U	0.04 U	7.4 U	0.22 U	0.26 U
Nitrobenzene	NE	NE	NE	mg/kg	0.025 U	0.13 U	0.021 U	3.9 U	0.12 U	0.14 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	0.038 U	0.19 U	0.033 U	5.9 U	0.18 U	0.21 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	0.18 U	0.91 U	0.16 U	28 U	0.86 U	1 U
Pentachlorophenol	55	0.8	0.8	mg/kg	0.22 U	1.1 U	0.19 U	35 U	1.1 U	1.2 U
Phenol	1000	30	0.33	mg/kg	0.034 U	0.17 U	0.029 U	5.3 U	0.16 U	0.19 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-7 DUP 21-22.6 5/14/2015	SB-7 25-26.6 5/14/2015	SB-7 31-32.1 5/14/2015	SB-8 0-1 5/8/2015	SB-8 5-6.3 5/15/2015	SB-8 11-12 5/15/2015
Inorganic Constituents										
Cyanide, total	10000	NE	40	mg/kg	0.62 U	0.64 U	0.54 U	0.49 U	0.6 U	0.7 U
Aluminum	NE	NE	NE	mg/kg	15700	10200	10600	11700	2790	4520
Antimony	NE	NE	NE	mg/kg	0.55 U	0.51 U	0.43 U	2 U	3.1 J	2.9 U
Arsenic	16	13	16	mg/kg	4.8	3.7	5.1	9 J	12.7	**25.1**
Barium	10000	433	820	mg/kg	125	62.7	94.5	209	38.8	46.8
Beryllium	2700	10	47	mg/kg	0.82	0.55	0.52	1.8	0.87 J	0.51 J
Cadmium	60	4	7.5	mg/kg	0.041 U	0.044 J	0.033 U	0.15 U	0.17 U	0.22 U
Calcium	NE	NE	NE	mg/kg	36500 B	5750 B	2870 B	48100 B	4970 B	5100 B
Chromium	NE	NE	19	mg/kg	**19.7**	14.4	16.1	**20.4**	15.1	11.9
Cobalt	NE	NE	NE	mg/kg	14.3	9.5	9.9	5.2	16.1	9.9
Copper	10000	50	1720	mg/kg	22.4	20.9	26.5	41.3	**52.2**	26.5
Iron	NE	NE	NE	mg/kg	29500 ^B	17400 ^B	23300 ^B	48000 B	60200 B	21500 B
Lead	3900	63	450	mg/kg	13	28.6	11.1	**110**	46.2	29.2
Magnesium	NE	NE	NE	mg/kg	9630	5060	5070	5500	618	1500
Manganese	10000	1600	2000	mg/kg	827 B	256 B	351 B	**2100 B**	1010	905
Nickel	10000	30	130	mg/kg	30	19.4	23.4	16.1 J	12.6	19.6
Potassium	NE	NE	NE	mg/kg	3340	1580	2130	1670	374	961
Selenium	6800	3.9	4	mg/kg	0.55 U	0.51 U	0.43 U	2 U	23.3 U	2.9 U
Silver	6800	2	8.3	mg/kg	0.28 U	0.25 U	0.22 U	1 U	1.2 U	1.4 U
Sodium	NE	NE	NE	mg/kg	281 U	178 U	152 U	1210 U	124 J	1010 U
Thallium	NE	NE	NE	mg/kg	0.41 U	0.38 U	0.33 U	1.5 U	0.35 U	0.43 U
Vanadium	NE	NE	NE	mg/kg	28.1	20.3	19.5	65.7	61.8	24.6
Zinc	10000	109	2480	mg/kg	63.3 B	58.4 B	60.4 B	**311 B**	37.9 B	25.7 B
Mercury	5.7	0.18	0.73	mg/kg	0.017 J	0.081	0.05	0.11	0.057	0.012 J
Pesticides										
4,4'-DDD	180	0.0033	14	mg/kg	0.00042 U	0.00043 U	0.00037 U	0.016 UF1	0.0004 U	0.00046 U
4,4'-DDE	120	0.0033	17	mg/kg	0.00046 U	0.00047 U	0.00039 U	0.018 U	0.00043 U	0.0005 U
4,4'-DDT	94	0.0033	136	mg/kg	0.00051 U	0.00052 U	0.00044 U	0.02 U	0.00048 U	0.00056 U
Aldrin	1.4	0.14	0.19	mg/kg	0.00054 U	0.00055 U	0.00046 U	0.021 U	0.00051 U	0.00059 U
alpha Endosulfan (Endosulfan I)	920	NE	102	mg/kg	0.00042 U	0.00043 U	0.00036 U	0.016 UF1	0.0004 U	0.00046 U
beta Endosulfan (Endosulfan II)	920	NE	102	mg/kg	0.00039 U	0.0004 U	0.00034 U	0.015 UF1	0.00037 U	0.00043 U
BHC, alpha	6.8	0.04	0.02	mg/kg	0.00039 U	0.0004 U	0.0019 U	0.015 UF1	0.0021 U	0.00043 U
BHC, beta	14	0.6	0.09	mg/kg	0.00039 U	0.0022 U	0.00034 U	0.015 UF1	0.0021 U	0.0024 U
BHC, delta	1000	0.04	0.25	mg/kg	0.00041 U	0.00042 U	0.00035 U	0.016 UF1	0.00038 U	0.00044 U
BHC, gamma (Lindane)	23	6	0.1	mg/kg	0.0004 U	0.00041 U	0.00034 U	0.016 UF1	0.00038 U	0.00044 U
Chlordane, alpha	47	1.3	2.9	mg/kg	0.0011 U	0.0011 U	0.00094 U	0.042 U	0.001 U	0.0012 U
Chlordane, beta	NE	NE	NE	mg/kg	0.00069 U	0.00071 U	0.0006 U	0.027 U	0.00066 U	0.00076 U
Dieldrin	2.8	0.006	0.1	mg/kg	0.00052 U	0.00054 U	0.00045 U	0.02 U	0.0005 U	0.00057 U
Endosulfan sulfate	920	NE	1000	mg/kg	0.00041 U	0.00042 U	0.00035 U	0.016 UF1	0.00039 U	0.00045 U
Endrin	410	0.014	0.06	mg/kg	0.00043 U	0.00044 U	0.00037 U	0.017 UF1	0.00041 U	0.00047 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-7 DUP 21-22.6 5/14/2015	SB-7 25-26.6 5/14/2015	SB-7 31-32.1 5/14/2015	SB-8 0-1 5/8/2015	SB-8 5-6.3 5/15/2015	SB-8 11-12 5/15/2015
Endrin aldehyde	NE	NE	NE	mg/kg	0.00056 U	0.0026 NJ	0.00048 U	0.022 U	0.00053 U	0.00061 U
Endrin ketone	NE	NE	NE	mg/kg	0.00054 U	0.00055 U	0.00046 U	0.021 U	0.0027 NJ	0.00059 U
Heptachlor	29	0.14	0.38	mg/kg	0.00047 U	0.00048 U	0.00041 U	0.018 U	0.00045 U	0.00052 U
Heptachlor epoxide	NE	NE	NE	mg/kg	0.00056 U	0.00058 U	0.00048 U	0.022 U	0.00053 U	0.00062 U
Methoxychlor	NE	NE	NE	mg/kg	0.00044 U	0.00046 U	0.00038 U	0.017 UF1	0.00042 U	0.00049 U
Toxaphene	NE	NE	NE	mg/kg	0.013 U	0.013 U	0.011 U	0.49 U	0.012 U	0.014 U
Polychlorinated Biphenyls (PCBs)										
Aroclor 1016	NE	NE	3.2	mg/kg	0.064 U	0.06 U	0.039 U	0.044 U	0.045 U	0.054 U
Aroclor 1221	NE	NE	3.2	mg/kg	0.064 U	0.06 U	0.039 U	0.044 U	0.045 U	0.054 U
Aroclor 1232	NE	NE	3.2	mg/kg	0.064 U	0.06 U	0.039 U	0.044 U	0.045 U	0.054 U
Aroclor 1242	NE	NE	3.2	mg/kg	0.064 U	0.06 U	0.039 U	0.044 U	0.045 U	0.054 U
Aroclor 1248	NE	NE	3.2	mg/kg	0.064 U	0.06 U	0.039 U	0.044 U	0.045 U	0.054 U
Aroclor 1254	NE	NE	3.2	mg/kg	0.15 U	0.14 U	0.094 U	0.11 U	0.11 U	0.13 U
Aroclor 1260	NE	NE	3.2	mg/kg	0.15 U	0.14 U	0.094 U	0.11 U	0.11 U	0.13 U
Total PCBs	25	1.0	3.2	mg/kg	ND	ND	ND	ND	ND	ND

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value show is approximate and may be inaccurate or imprecise.
N J - The analyte detection if tentative in indentification and estimated in value.
B - Constituent was found in the blank and the sample.
R - Result rejected as determined by the data validator.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
F2 - MS/MSD Relative Percent Difference (RPD) exceeds control limits.
^ - Instrument related QC is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
NE - Not established.
ND - Not detected
(a) - City of Troy Official Zoning Map

Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for: Protection of Public Health for Industrially Zoned Properties, Protection of Ecological Resources, and/or Protection of Groundwater.

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-8 17-18.3 5/15/2015	SB-8 21-22.2 5/15/2015	SB-8 25-26.6 5/15/2015	SB-9 1-2 5/6/2015	SB-9 7-8.3 5/19/2015	SB-9 11-11.7 5/19/2015
Volatile Organic Compounds (VOCs)										
BTEX										
Benzene	89	70	0.06	mg/kg	0.00024 U	0.00028 U	0.00032 U	0.00035 U	0.003 J	**580 J**
Toluene	1000	36	0.7	mg/kg	0.00037 U	0.00043 U	0.0005 U	0.00054 U	0.0023 J	**350 J**
Ethylbenzene	780	NE	1	mg/kg	0.00033 U	0.00039 U	0.00045 U	0.00049 U	0.00055 U	**6.3 J**
Xylenes, total	1000	0.26	1.6	mg/kg	0.00081 U	0.00095 U	0.0011 U	0.0012 U	0.0013 U	**160 J**
Total BTEX	NE	NE	NE	mg/kg	ND	ND	ND	ND	0.0053 J	1096 J
Other VOCs										
1,1,1-Trichloroethane	1000	NE	0.68	mg/kg	0.00035 U	0.00041 U	0.00048 U	0.00052 U	0.00058 U	1.8 U
1,1,2,2-Tetrachloroethane	NE	NE	NE	mg/kg	0.00079 U	0.00092 U	0.0011 UJ	0.0012 U	0.0013 UJ	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NE	NE	NE	mg/kg	0.0011 U	0.0013 U	0.0015 U	0.0016 U	0.0018 U	3.2 U
1,1,2-Trichloroethane	NE	NE	NE	mg/kg	0.00063 U	0.00074 U	0.00086 U	0.00093 U	0.001 U	1.3 U
1,1-Dichloroethane	480	NE	0.27	mg/kg	0.00059 U	0.00069 U	0.0008 U	0.00087 U	0.00097 U	2 U
1,1-Dichloroethene	1000	NE	0.33	mg/kg	0.00059 U	0.0007 U	0.00081 U	0.00087 U	0.00097 U	2.2 U
1,2,4-Trichlorobenzene	NE	NE	NE	mg/kg	0.00029 U	0.00035 U	0.0004 U	0.00043 U	0.00048 UJ	2.4 U
1,2-Dibromo-3-chloropropane (DBCP)	NE	NE	NE	mg/kg	0.0024 U	0.0028 U	0.0033 U	0.0036 U	0.004 UJ	3.2 U
1,2-Dibromoethane (EDB)	NE	NE	NE	mg/kg	0.00062 U	0.00073 U	0.00085 U	0.00092 U	0.001 U	1.1 U
1,2-Dichlorobenzene	1000	NE	1.1	mg/kg	0.00038 U	0.00044 U	0.00052 U	0.00056 U	0.00062 UJ	1.6 U
1,2-Dichloroethane	60	10	0.02	mg/kg	0.00024 U	0.00029 U	0.00033 U	0.00036 U	0.0004 U	2.6 U
1,2-Dichloropropane	NE	NE	NE	mg/kg	0.0024 U	0.0028 U	0.0033 U	0.0036 U	0.004 U	1 U
1,3-Dichlorobenzene	560	NE	2.4	mg/kg	0.00025 U	0.00029 U	0.00034 UJ	0.00037 U	0.00041 UJ	1.7 U
1,4-Dichlorobenzene	250	20	1.8	mg/kg	0.00068 U	0.0008 U	0.00092 UJ	0.001 U	0.0011 UJ	0.89 U
2-Butanone (MEK)	1000	100	0.12	mg/kg	0.0018 U	0.0021 U	0.0024 U	0.0026 U	0.0029 U	19 U
2-Hexanone	NE	NE	NE	mg/kg	0.0024 U	0.0028 U	0.0033 U	0.0036 U	0.004 U	13 U
4-Methyl-2-pentanone (MIBK)	NE	NE	NE	mg/kg	0.0016 U	0.0019 U	0.0022 U	0.0023 U	0.0026 U	2 U
Acetone	1000	2.2	0.05	mg/kg	0.0041 U	0.028 U	0.05 U	0.006 U	0.04 U	26 U
Bromodichloromethane	NE	NE	NE	mg/kg	0.00065 U	0.00076 U	0.00088 U	0.00096 U	0.0011 U	1.3 U
Bromoform	NE	NE	NE	mg/kg	0.0024 U	0.0028 U	0.0033 U	0.0036 U	0.004 U	3.2 U
Bromomethane	NE	NE	NE	mg/kg	0.00044 U	0.00051 U	0.00059 U	0.00064 U	0.00071 U	1.4 U
Carbon disulfide	NE	NE	NE	mg/kg	0.0024 U	0.0028 U	0.0033 U	0.0036 U	0.004 U	2.9 UJ
Carbon tetrachloride	44	NE	0.76	mg/kg	0.00047 U	0.00055 U	0.00064 U	0.00069 U	0.00077 U	1.6 U
Chlorobenzene	1000	40	1.1	mg/kg	0.00064 U	0.00075 U	0.00087 U	0.00094 U	0.001 U	0.84 U
Chloroethane	NE	NE	NE	mg/kg	0.0011 U	0.0013 U	0.0015 U	0.0016 U	0.0018 U	1.3 U
Chloroform	700	12	0.37	mg/kg	0.0003 U	0.00035 U	0.00041 U	0.00044 U	0.00049 U	4.4 U
Chloromethane	NE	NE	NE	mg/kg	0.00029 U	0.00034 U	0.0004 U	0.00043 U	0.00048 U	1.5 U
cis-1,2-Dichloroethene	1000	NE	0.25	mg/kg	0.00062 U	0.00073 U	0.00084 U	0.00091 U	0.001 U	1.8 U
cis-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.0007 U	0.00082 U	0.00095 U	0.001 U	0.0011 U	1.5 U
Cyclohexane	NE	NE	NE	mg/kg	0.00068 U	0.0008 U	0.00092 U	0.001 U	0.0013 J	1.4 U
Dibromochloromethane	NE	NE	NE	mg/kg	0.00062 U	0.00073 U	0.00084 UJ	0.00091 U	0.001 U	3.1 U
Dichlorodifluoromethane (Freon 12)	NE	NE	NE	mg/kg	0.0004 U	0.00047 U	0.00054 U	0.00059 U	0.00065 U	2.8 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[a]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-8 17-18.3 5/15/2015	SB-8 21-22.2 5/15/2015	SB-8 25-26.6 5/15/2015	SB-9 1-2 5/6/2015	SB-9 7-8.3 5/19/2015	SB-9 11-11.7 5/19/2015
Isopropylbenzene (Cumene)	NE	NE	NE	mg/kg	0.00073 U	0.00086 U	0.00099 U	0.0011 U	0.0041 J	33 J
Methyl acetate	NE	NE	NE	mg/kg	0.0029 U	0.0034 U	0.004 U	0.0043 U	0.0048 U	3 U
Methylcyclohexane	NE	NE	NE	mg/kg	0.00074 U	0.00086 U	0.001 U	0.0011 U	0.005 J	3 UJ
Methylene chloride	1000	12	0.05	mg/kg	0.0022 U	0.0026 U	0.003 U	0.0033 U	0.0036 U	1.3 U
Styrene	NE	NE	NE	mg/kg	0.00024 U	0.00028 U	0.00033 U	0.00036 U	0.00068 J	1.5 U
tert-Butyl methyl ether (MTBE)	1000	NE	0.93	mg/kg	0.00048 U	0.00056 U	0.00065 U	0.0007 U	0.00078 U	2.4 U
Tetrachloroethene (PCE)	300	2	1.3	mg/kg	0.00065 U	0.00076 U	0.00088 U	0.00096 U	0.0011 U	0.85 U
trans-1,2-Dichloroethene	1000	NE	0.19	mg/kg	0.0005 U	0.00059 U	0.00068 U	0.00074 U	0.00082 U	1.5 U
trans-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.0021 U	0.0025 U	0.0029 U	0.0031 U	0.0035 U	0.63 U
Trichloroethene (TCE)	400	2	0.47	mg/kg	0.0011 U	0.0012 U	0.0014 U	0.0016 U	0.0017 U	1.8 U
Trichlorofluoromethane (Freon 11)	NE	NE	NE	mg/kg	0.00046 U	0.00054 U	0.00062 U	0.00067 U	0.00075 U	3 U
Vinyl chloride	27	NE	0.02	mg/kg	0.00059 U	0.00069 U	0.0008 U	0.00087 U	0.00097 U	2.1 U
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1000	20	98	mg/kg	0.14 U	0.034 U	0.17 U	0.55 U	1.1 J	9.7 J
Acenaphthylene	1000	NE	107	mg/kg	0.12 U	0.03 U	0.15 U	3 J	20	48
Anthracene	1000	NE	1000	mg/kg	0.24 U	0.057 U	0.29 U	3.1 J	25	150
Benzo(a)anthracene	11	NE	1	mg/kg	0.096 U	0.023 U	0.12 U	**14**	**86**	**130**
Benzo(a)pyrene	1.1	2.6	22	mg/kg	0.14 U	0.034 U	0.17 U	**12**	**59**	**90**
Benzo(b)fluoranthene	11	NE	1.7	mg/kg	0.15 U	0.036 U	0.19 U	**14**	**87**	**110**
Benzo(g,h,i)perylene	1000	NE	1000	mg/kg	0.1 U	0.024 U	0.12 U	8.1	33	48
Benzo(k)fluoranthene	110	NE	1.7	mg/kg	0.12 U	0.03 U	0.15 U	**8.6**	**37**	**54**
Chrysene	110	NE	1	mg/kg	0.22 U	0.051 U	0.26 U	**12**	**79**	**110**
Dibenz(a,h)anthracene	1.1	NE	1000	mg/kg	0.17 U	0.041 U	0.21 U	**3 J**	0.69 U	**19 J**
Fluoranthene	1000	NE	1000	mg/kg	0.1 U	0.024 U	0.12 U	19	130	280
Fluorene	1000	30	386	mg/kg	0.11 U	0.027 U	0.14 U	1 J	11	**160**
Indeno(1,2,3-c,d)pyrene	11	NE	8.2	mg/kg	0.12 U	0.028 U	0.15 U	7.6	**40**	**53**
Naphthalene	1000	NE	12	mg/kg	0.12 U	0.03 U	0.15 U	1.9 J	4.7	**820**
Phenanthrene	1000	NE	1000	mg/kg	0.14 U	0.034 U	0.17 U	11	90	440
Pyrene	1000	NE	1000	mg/kg	0.11 U	0.027 U	0.14 U	16	110	200
2-Methylnaphthalene	NE	NE	NE	mg/kg	0.19 U	0.046 U	0.24 U	1.3 J	2.8 J	160
Total PAHS	NE	NE	NE	mg/kg	ND	ND	ND	136	816	2882
Other SVOCs										
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	0.26 U	0.062 U	0.32 U	1 U	1.1 U	5.6 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	0.19 U	0.046 U	0.24 U	0.75 U	0.78 U	4.2 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	0.1 U	0.024 U	0.12 U	0.4 U	0.41 U	2.2 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	0.23 U	0.055 U	0.28 U	0.91 U	0.94 U	20 J
2,4-Dinitrophenol	NE	NE	NE	mg/kg	4.4 U	1.1 U	5.4 U	17 U	18 U	96 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	0.2 U	0.047 U	0.24 U	0.77 U	0.8 U	4.3 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	0.11 U	0.027 U	0.14 U	0.44 U	0.46 U	2.4 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-8 17-18.3 5/15/2015	SB-8 21-22.2 5/15/2015	SB-8 25-26.6 5/15/2015	SB-9 1-2 5/6/2015	SB-9 7-8.3 5/19/2015	SB-9 11-11.7 5/19/2015
2-Chloronaphthalene	NE	NE	NE	mg/kg	0.16 U	0.038 U	0.19 U	0.62 U	0.64 U	3.4 U
2-Chlorophenol	NE	NE	NE	mg/kg	0.18 U	0.042 U	0.21 U	0.68 U	0.71 U	3.8 U
2-Methylphenol (o-cresol)	1000	NE	0.33	mg/kg	0.11 U	0.027 U	0.14 U	0.44 U	0.46 U	**15 J**
2-Nitroaniline	NE	NE	NE	mg/kg	0.14 U	0.034 U	0.17 U	0.55 U	0.57 U	3.1 U
2-Nitrophenol	NE	NE	NE	mg/kg	0.27 U	0.065 U	0.33 U	1.1 U	1.1 U	5.9 U
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	1.1 U	0.27 U	1.4 U	4.4 U	4.6 U	24 U
3-Nitroaniline	NE	NE	NE	mg/kg	0.27 U	0.063 U	0.33 U	1 U	1.1 U	5.7 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	0.96 U	0.23 U	1.2 U	3.8 U	3.9 U	21 U
4-Bromophenyl phenyl ether	NE	NE	NE	mg/kg	0.14 U	0.032 U	0.17 U	0.53 U	0.55 U	2.9 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	0.24 U	0.057 U	0.29 U	0.93 U	0.96 U	5.1 U
4-Chloroaniline	NE	NE	NE	mg/kg	0.24 U	0.057 U	0.29 U	0.93 U	0.96 U	5.1 U
4-Chlorophenyl phenyl ether	NE	NE	NE	mg/kg	0.12 U	0.028 U	0.15 U	0.46 U	0.48 U	2.6 U
4-Methylphenol	1000	NE	0.33	mg/kg	0.11 U	0.027 U	0.14 U	0.44 U	0.46 U	**39 J**
4-Nitroaniline	NE	NE	NE	mg/kg	0.51 U	0.12 U	0.62 U	2 U	2 U	11 U
4-Nitrophenol	NE	NE	NE	mg/kg	0.68 U	0.16 U	0.83 U	2.6 U	2.7 U	15 U
Acetophenone	NE	NE	NE	mg/kg	0.13 U	0.031 U	0.16 U	0.51 U	0.95 J	6.2 J
Atrazine	NE	NE	NE	mg/kg	0.33 U	0.08 U	0.41 U	1.3 U	1.3 U	7.2 U
Benzaldehyde	NE	NE	NE	mg/kg	0.77 U	0.18 U	0.94 U	3 U	3.1 U	17 U
Benzyl butyl phthalate	NE	NE	NE	mg/kg	0.16 U	0.038 U	0.19 U	0.62 U	0.64 U	3.4 U
Biphenyl (Diphenyl)	NE	NE	NE	mg/kg	0.14 U	0.034 U	0.17 U	0.55 U	0.82 J	23
bis(2-Chloroethoxy)methane	NE	NE	NE	mg/kg	0.2 U	0.049 U	0.25 U	0.8 U	0.82 U	4.4 U
bis(2-Chloroethyl)ether	NE	NE	NE	mg/kg	0.12 U	0.03 U	0.15 U	0.49 U	0.5 U	2.7 U
bis(2-Chloroisopropyl)ether	NE	NE	NE	mg/kg	0.19 U	0.046 U	0.24 U	0.75 U	0.78 U	4.2 U
bis(2-Ethylhexyl)phthalate	NE	NE	NE	mg/kg	0.33 U	0.078 U	0.4 U	1.3 U	1.3 U	7.1 U
Caprolactam	NE	NE	NE	mg/kg	0.29 U	0.069 U	0.35 U	1.1 U	1.2 U	6.2 U
Carbazole	NE	NE	NE	mg/kg	0.11 U	0.027 U	0.14 U	1.1 J	15	61
Dibenzofuran	1000	NE	210	mg/kg	0.11 U	0.027 U	0.14 U	1.1 J	6.5	100
Diethyl phthalate	NE	NE	NE	mg/kg	0.12 U	0.03 U	0.15 U	0.49 U	0.5 U	2.7 U
Dimethyl phthalate	NE	NE	NE	mg/kg	0.11 U	0.027 U	0.14 U	0.44 U	0.46 U	2.4 U
dI-n-Butyl phthalate	NE	NE	NE	mg/kg	0.16 U	0.039 U	0.2 U	0.64 U	0.66 U	3.5 U
dI-n-Octyl phthalate	NE	NE	NE	mg/kg	0.11 U	0.027 U	0.14 U	0.44 U	0.46 U	2.4 U
Hexachlorobenzene	12	NE	3.2	mg/kg	0.13 U	0.031 U	0.16 U	0.51 U	0.53 U	2.8 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	0.14 U	0.034 U	0.17 U	0.55 U	0.57 U	3.1 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	0.13 U	0.031 U	0.16 U	0.51 U	0.53 U	2.8 U
Hexachloroethane	NE	NE	NE	mg/kg	0.12 U	0.03 U	0.15 U	0.49 U	0.5 U	2.7 U
Isophorone	NE	NE	NE	mg/kg	0.2 U	0.049 U	0.25 U	0.8 U	0.82 U	4.4 U
Nitrobenzene	NE	NE	NE	mg/kg	0.11 U	0.026 U	0.13 U	0.42 U	0.43 U	2.3 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	0.16 U	0.039 U	0.2 U	0.64 U	0.66 U	3.5 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	0.78 U	0.19 U	0.96 U	3 U	3.2 U	17 U
Pentachlorophenol	55	0.8	0.8	mg/kg	0.96 U	0.23 U	1.2 U	3.8 U	3.9 UJ	21 UJ
Phenol	1000	30	0.33	mg/kg	0.15 U	0.035 U	0.18 U	0.57 U	0.59 U	**29**

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-8 17-18.3 5/15/2015	SB-8 21-22.2 5/15/2015	SB-8 25-26.6 5/15/2015	SB-9 1-2 5/6/2015	SB-9 7-8.3 5/19/2015	SB-9 11-11.7 5/19/2015
Inorganic Constituents										
Cyanide, total	10000	NE	40	mg/kg	0.55 U	0.65 U	0.67 U	1.6	3.5	1.3
Aluminum	NE	NE	NE	mg/kg	2460	16400	9370	3410	2910	7210 J
Antimony	NE	NE	NE	mg/kg	3 J	0.9 J	0.54 U	3.6 J	0.78 J	0.5 U
Arsenic	16	13	16	mg/kg	**14.5**	6.9	3.7	**47.2**	7.6	7.9
Barium	10000	433	820	mg/kg	16.8	133	78.3	53.3	36.5	53.1
Beryllium	2700	10	47	mg/kg	1.4	0.85	0.5	0.59	0.22 J	0.85 J
Cadmium	60	4	7.5	mg/kg	0.17 U	0.21 J	0.16 J	0.15 J	0.035 U	0.19 J
Calcium	NE	NE	NE	mg/kg	6760 B	23700 B	2630 B	2510 B	764 B	9700 J
Chromium	NE	NE	19	mg/kg	**37**	**20.6**	11.1	**34.2**	12	14.9
Cobalt	NE	NE	NE	mg/kg	7.9	17.7	9	6	5.6	11.8
Copper	10000	50	1720	mg/kg	13	32.9	10.5	41.8	36.2	45.1
Iron	NE	NE	NE	mg/kg	159000 B	39800 B	13600 B	89500 B	23100 B	22900 B
Lead	3900	63	450	mg/kg	14.7	19.2	6.8	**126**	55.9	53.9
Magnesium	NE	NE	NE	mg/kg	826	8070	3330	779 B	907	2640
Manganese	10000	1600	2000	mg/kg	1450	1050	166	534 B	213	364 J
Nickel	10000	30	130	mg/kg	9.4	**33**	14.6	19	10.8	27.9 J
Potassium	NE	NE	NE	mg/kg	221	3350	1110	683	749	1720 J
Selenium	6800	3.9	4	mg/kg	22 U	5.2 U	0.54 U	2.8 J	0.56 J	0.64 J
Silver	6800	2	8.3	mg/kg	1.1 U	0.26 U	0.27 U	0.44 U	0.23 U	0.25 U
Sodium	NE	NE	NE	mg/kg	770 U	255 U	316 U	183 U	162 U	640 U
Thallium	NE	NE	NE	mg/kg	1.7 U	0.39 U	0.4 U	0.33 U	0.35 U	0.37 U
Vanadium	NE	NE	NE	mg/kg	143	28.9	14.8	56.6	20.3	21.5
Zinc	10000	109	2480	mg/kg	21.5 B	64.4 B	49.7 B	82.5 B	26.4 B	72.2 B
Mercury	5.7	0.18	0.73	mg/kg	0.012 J	0.029	0.015 J	0.14 F1	**0.3**	0.11 J
Pesticides										
4,4'-DDD	180	0.0033	14	mg/kg	0.00037 U	0.00044 U	0.00045 U	0.018 U	0.015 U	**0.038 J**
4,4'-DDE	120	0.0033	17	mg/kg	0.00039 U	0.00048 U	0.00067 J	0.019 U	0.016 U	0.022 U
4,4'-DDT	94	0.0033	136	mg/kg	0.00044 U	0.00053 U	0.00054 U	0.022 U	**0.035 J**	**0.048 J**
Aldrin	1.4	0.14	0.19	mg/kg	0.00046 U	0.00056 U	0.00056 U	0.023 U	0.019 U	0.026 U
alpha Endosulfan (Endosulfan I)	920	NE	102	mg/kg	0.00036 U	0.00044 U	0.00044 U	0.018 U	0.014 U	0.02 U
beta Endosulfan (Endosulfan II)	920	NE	102	mg/kg	0.00034 U	0.00041 U	0.00041 U	0.017 U	0.014 U	0.019 U
BHC, alpha	6.8	0.04	0.02	mg/kg	0.00034 U	0.00041 U	0.00041 U	0.017 U	0.014 U	0.1 U
BHC, beta	14	0.6	0.09	mg/kg	0.00034 U	0.00041 U	0.00041 U	0.017 U	0.014 U	0.1 U
BHC, delta	1000	0.04	0.25	mg/kg	0.00035 U	0.00042 U	0.00043 U	0.017 U	0.014 U	0.031
BHC, gamma (Lindane)	23	6	0.1	mg/kg	0.00035 U	0.00042 U	0.00042 U	0.017 U	0.014 U	0.019 U
Chlordane, alpha	47	1.3	2.9	mg/kg	0.00094 U	0.0011 U	0.0011 U	0.046 U	0.038 U	0.052 U
Chlordane, beta	NE	NE	NE	mg/kg	0.0006 U	0.00073 U	0.00073 U	0.041 J	0.024 U	0.033 U
Dieldrin	2.8	0.006	0.1	mg/kg	0.00045 U	0.00055 U	0.00055 U	0.022 U	0.018 U	0.025 U
Endosulfan sulfate	920	NE	1000	mg/kg	0.00035 U	0.00043 U	0.00043 U	0.017 U	0.014 U	0.11 U
Endrin	410	0.014	0.06	mg/kg	0.00037 U	0.00045 U	0.00045 U	0.018 U	0.015 U	0.021 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-8 17-18.3 5/15/2015	SB-8 21-22.2 5/15/2015	SB-8 25-26.6 5/15/2015	SB-9 1-2 5/6/2015	SB-9 7-8.3 5/19/2015	SB-9 11-11.7 5/19/2015
Endrin aldehyde	NE	NE	NE	mg/kg	0.00048 U	0.00058 U	0.0011 J	0.023 U	0.019 U	0.027 U
Endrin ketone	NE	NE	NE	mg/kg	0.00046 U	0.00056 U	0.00056 U	0.023 U	0.084	0.072 J
Heptachlor	29	0.14	0.38	mg/kg	0.00041 U	0.00049 U	0.0005 U	0.02 U	0.016 U	0.023 U
Heptachlor epoxide	NE	NE	NE	mg/kg	0.00049 U	0.00059 U	0.00059 U	0.024 U	0.019 U	0.027 U
Methoxychlor	NE	NE	NE	mg/kg	0.00038 U	0.00047 U	0.00047 U	0.019 U	0.55 U	0.44 J
Toxaphene	NE	NE	NE	mg/kg	0.011 U	0.013 U	0.013 U	0.53 U	0.44 U	0.61 U
Polychlorinated Biphenyls (PCBs)										
Aroclor 1016	NE	NE	3.2	mg/kg	0.046 U	0.063 U	0.059 U	0.051 U	0.053 U	0.059 U
Aroclor 1221	NE	NE	3.2	mg/kg	0.046 U	0.063 U	0.059 U	0.051 U	0.053 U	0.059 U
Aroclor 1232	NE	NE	3.2	mg/kg	0.046 U	0.063 U	0.059 U	0.051 U	0.053 U	0.059 U
Aroclor 1242	NE	NE	3.2	mg/kg	0.046 U	0.063 U	0.059 U	0.051 U	0.053 U	0.059 U
Aroclor 1248	NE	NE	3.2	mg/kg	0.046 U	0.063 U	0.059 U	0.051 U	0.053 U	0.059 U
Aroclor 1254	NE	NE	3.2	mg/kg	0.11 U	0.15 U	0.14 U	0.12 U	0.13 U	0.14 U
Aroclor 1260	NE	NE	3.2	mg/kg	0.11 U	0.15 U	0.14 U	0.12 U	0.13 U	0.14 U
Total PCBs	25	1.0	3.2	mg/kg	ND	ND	ND	ND	ND	ND

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value show is approximate and may be inaccurate or imprecise.
N J - The analyte detection if tentative in indentification and estimated in value.
B - Constituent was found in the blank and the sample.
R - Result rejected as determined by the data validator.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
F2 - MS/MSD Relative Percent Difference (RPD) exceeds control limits.
^ - Instrument related QC is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
NE - Not established.
ND - Not detected
(a) - City of Troy Official Zoning Map

Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for: Protection of Public Health for Industrially Zoned Properties, Protection of Ecological Resources, and/or Protection of Groundwater.

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-9 DUP 11-11.7 5/19/2015	SB-9 17-18.8 5/19/2015	SB-9 23-24.3 5/19/2015	SB-9 29-29.6 5/19/2015	SB-9 35-36.2 5/19/2015	TP-1 8-9 5/27/2015
Volatile Organic Compounds (VOCs)										
BTEX										
Benzene	89	70	0.06	mg/kg	**3600 J**	0.005	0.02	0.011	0.0068 UJ	0.0006 U
Toluene	1000	36	0.7	mg/kg	**1900 J**	0.00092 J	0.0048 J	0.0033 J	0.0068 UJ	0.00093 U
Ethylbenzene	780	NE	1	mg/kg	**29 J**	0.00033 U	0.00049 U	0.00036 U	0.00047 UJ	0.00085 U
Xylenes, total	1000	0.26	1.6	mg/kg	**660 J**	0.00081 U	0.0012 U	0.0011 J	0.0011 UJ	0.0021 U
Total BTEX	NE	NE	NE	mg/kg	6189 J	0.0059	0.025	0.015	ND	ND
Other VOCs										
1,1,1-Trichloroethane	1000	NE	0.68	mg/kg	1.8 U	0.00035 U	0.00052 U	0.00038 U	0.0005 UJ	0.00089 U
1,1,2,2-Tetrachloroethane	NE	NE	NE	mg/kg	1 U	0.00078 U	0.0012 UJ	0.00084 U	0.0011 UJ	0.002 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NE	NE	NE	mg/kg	3.2 U	0.0011 U	0.0016 U	0.0012 U	0.0016 UJ	0.0028 U
1,1,2-Trichloroethane	NE	NE	NE	mg/kg	1.3 U	0.00063 U	0.00092 U	0.00067 U	0.00089 UJ	0.0016 U
1,1-Dichloroethane	480	NE	0.27	mg/kg	2 U	0.00059 U	0.00087 U	0.00063 U	0.00083 UJ	0.0015 U
1,1-Dichloroethene	1000	NE	0.33	mg/kg	2.2 U	0.00059 U	0.00087 U	0.00063 U	0.00084 UJ	0.0015 U
1,2,4-Trichlorobenzene	NE	NE	NE	mg/kg	2.4 U	0.00029 U	0.00043 UJ	0.00031 U	0.00042 UJ	0.00075 UJ
1,2-Dibromo-3-chloropropane (DBCP)	NE	NE	NE	mg/kg	3.2 U	0.0024 U	0.0035 UJ	0.0026 U	0.0034 UJ	0.0062 UJ
1,2-Dibromoethane (EDB)	NE	NE	NE	mg/kg	1.1 U	0.00062 U	0.00091 U	0.00066 U	0.00088 UJ	0.0016 U
1,2-Dichlorobenzene	1000	NE	1.1	mg/kg	1.6 U	0.00038 U	0.00055 UJ	0.0004 U	0.00053 UJ	0.00096 UJ
1,2-Dichloroethane	60	10	0.02	mg/kg	2.6 U	0.00024 U	0.00036 U	0.00026 U	0.00034 UJ	0.00062 U
1,2-Dichloropropane	NE	NE	NE	mg/kg	1 U	0.0024 U	0.0035 U	0.0026 U	0.0034 UJ	0.0062 U
1,3-Dichlorobenzene	560	NE	2.4	mg/kg	1.7 U	0.00025 U	0.00036 UJ	0.00027 U	0.00035 UJ	0.00063 UJ
1,4-Dichlorobenzene	250	20	1.8	mg/kg	0.89 U	0.00068 U	0.00099 UJ	0.00072 U	0.00096 UJ	0.0017 UJ
2-Butanone (MEK)	1000	100	0.12	mg/kg	19 U	0.0018 U	0.0026 U	0.0019 U	0.0025 UJ	0.0045 U
2-Hexanone	NE	NE	NE	mg/kg	13 U	0.0024 U	0.0035 U	0.0026 U	0.0034 UJ	0.0062 U
4-Methyl-2-pentanone (MIBK)	NE	NE	NE	mg/kg	2 U	0.0016 U	0.0023 U	0.0017 U	0.0022 UJ	0.004 U
Acetone	1000	2.2	0.05	mg/kg	26 U	0.024 U	0.006 U	0.026 U	0.034 UJ	0.01 U
Bromodichloromethane	NE	NE	NE	mg/kg	1.3 U	0.00065 U	0.00095 U	0.00069 U	0.00092 UJ	0.0016 U
Bromoform	NE	NE	NE	mg/kg	3.2 U	0.0024 U	0.0035 U	0.0026 U	0.0034 UJ	0.0062 U
Bromomethane	NE	NE	NE	mg/kg	1.4 U	0.00044 U	0.00064 U	0.00047 U	0.00062 UJ	0.0011 U
Carbon disulfide	NE	NE	NE	mg/kg	8.9 J	0.0024 U	0.0035 U	0.0026 U	0.0034 UJ	0.0062 U
Carbon tetrachloride	44	NE	0.76	mg/kg	1.6 U	0.00047 U	0.00069 U	0.0005 U	0.00066 UJ	0.0012 U
Chlorobenzene	1000	40	1.1	mg/kg	0.84 U	0.00064 U	0.00094 U	0.00068 U	0.0009 UJ	0.0016 U
Chloroethane	NE	NE	NE	mg/kg	1.3 U	0.0011 U	0.0016 U	0.0012 U	0.0015 UJ	0.0028 U
Chloroform	700	12	0.37	mg/kg	4.4 U	0.0003 U	0.00044 U	0.00032 U	0.00042 UJ	0.00076 U
Chloromethane	NE	NE	NE	mg/kg	1.5 U	0.00029 U	0.00043 U	0.00031 U	0.00041 UJ	0.00074 U
cis-1,2-Dichloroethene	1000	NE	0.25	mg/kg	1.8 U	0.00062 U	0.00091 U	0.00066 U	0.00088 UJ	0.0016 U
cis-1,3-Dichloropropene	NE	NE	NE	mg/kg	1.5 U	0.0007 U	0.001 U	0.00075 U	0.00099 UJ	0.0018 U
Cyclohexane	NE	NE	NE	mg/kg	1.4 U	0.00068 U	0.00099 U	0.00072 U	0.00096 UJ	0.0017 U
Dibromochloromethane	NE	NE	NE	mg/kg	3.1 U	0.00062 U	0.00091 U	0.00066 U	0.00088 UJ	0.0016 U
Dichlorodifluoromethane (Freon 12)	NE	NE	NE	mg/kg	2.8 U	0.0004 U	0.00059 U	0.00043 U	0.00057 UJ	0.001 U

TABLE 7
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TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[a]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-9 DUP 11-11.7 5/19/2015	SB-9 17-18.8 5/19/2015	SB-9 23-24.3 5/19/2015	SB-9 29-29.6 5/19/2015	SB-9 35-36.2 5/19/2015	TP-1 8-9 5/27/2015
Isopropylbenzene (Cumene)	NE	NE	NE	mg/kg	130 J	0.00073 U	0.0011 UJ	0.002 J	0.013 J	0.0019 UJ
Methyl acetate	NE	NE	NE	mg/kg	3 U	0.0029 U	0.0043 U	0.0031 U	0.0041 UJ	0.0074 U
Methylcyclohexane	NE	NE	NE	mg/kg	8.6 J	0.00073 U	0.0011 U	0.00079 U	0.001 UJ	0.0019 U
Methylene chloride	1000	12	0.05	mg/kg	1.3 U	0.0022 U	0.0033 U	0.0024 U	0.0031 UJ	0.0057 U
Styrene	NE	NE	NE	mg/kg	1.5 U	0.00024 U	0.00035 U	0.00026 U	0.00034 UJ	0.00062 U
tert-Butyl methyl ether (MTBE)	1000	NE	0.93	mg/kg	2.4 U	0.00047 U	0.0007 U	0.00051 U	0.00067 UJ	0.0012 U
Tetrachloroethene (PCE)	300	2	1.3	mg/kg	0.86 U	0.00065 U	0.00095 U	0.00069 U	0.00092 UJ	0.0017 U
trans-1,2-Dichloroethene	1000	NE	0.19	mg/kg	1.5 U	0.0005 U	0.00073 U	0.00053 U	0.00071 UJ	0.0013 U
trans-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.63 U	0.0021 U	0.0031 U	0.0023 U	0.003 UJ	0.0054 U
Trichloroethene (TCE)	400	2	0.47	mg/kg	1.8 U	0.0011 U	0.0016 U	0.0011 U	0.0015 UJ	0.0027 U
Trichlorofluoromethane (Freon 11)	NE	NE	NE	mg/kg	3 U	0.00046 U	0.00067 U	0.00049 U	0.00065 UJ	0.0012 U
Vinyl chloride	27	NE	0.02	mg/kg	2.1 U	0.00059 U	0.00087 U	0.00063 U	0.00083 UJ	0.0015 U
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1000	20	98	mg/kg	14 J	1.4 U	0.17 U	0.14 U	0.2 J	0.16 U
Acenaphthylene	1000	NE	107	mg/kg	61	1.3 U	0.15 U	0.13 U	0.13 U	0.43 J
Anthracene	1000	NE	1000	mg/kg	210	2.4 U	0.28 U	0.24 U	0.37 JF2	0.62 J
Benzo(a)anthracene	11	NE	1	mg/kg	**180**	0.98 U	0.18 J	0.26 J	0.99 JF1F2	**1.9**
Benzo(a)pyrene	1.1	2.6	22	mg/kg	**130**	1.4 U	0.17 U	0.19 J	0.91 JF1F2	**1.4**
Benzo(b)fluoranthene	11	NE	1.7	mg/kg	**160**	1.6 U	0.18 U	0.26 J	0.96 JF1F2	**1.9**
Benzo(g,h,i)perylene	1000	NE	1000	mg/kg	68	1 U	0.12 U	0.13 J	0.47 JF2	0.58 J
Benzo(k)fluoranthene	110	NE	1.7	mg/kg	**93**	1.3 U	0.15 U	0.13 U	0.47 JF2	1.2
Chrysene	110	NE	1	mg/kg	**160**	2.2 U	0.25 U	0.28 J	1 F1F2	**2**
Dibenz(a,h)anthracene	1.1	NE	1000	mg/kg	6.8 U	1.7 U	0.2 U	0.17 U	0.18 U	0.19 U
Fluoranthene	1000	NE	1000	mg/kg	400	1 J	0.22 J	0.45 J	1.9 F1F2	4.1
Fluorene	1000	30	386	mg/kg	**200**	1.2 U	0.13 U	0.12 U	0.15 J	0.49 J
Indeno(1,2,3-c,d)pyrene	11	NE	8.2	mg/kg	**78**	1.2 U	0.14 U	0.12 U	0.42 JF2	0.67 J
Naphthalene	1000	NE	12	mg/kg	**1200**	1.3 J	0.54 J	1	0.21 J	0.14 U
Phenanthrene	1000	NE	1000	mg/kg	610	1.4 J	0.29 J	0.36 J	0.77 JF1F2	2.9
Pyrene	1000	NE	1000	mg/kg	280	1.2 U	0.19 J	0.43 J	1.8 F1F2	3.4
2-Methylnaphthalene	NE	NE	NE	mg/kg	210	2 U	0.22 U	0.2 U	0.2 U	0.22 U
Total PAHS	NE	NE	NE	mg/kg	4054	3.7 J	1.4 J	3.4	11	22
Other SVOCs										
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	10 U	2.7 U	0.3 U	0.26 U	0.27 U	0.3 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	7.7 U	2 U	0.22 U	0.2 U	0.2 U	0.22 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	4.1 U	1 U	0.12 U	0.1 U	0.11 U	0.12 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	25 J	2.4 U	0.27 U	0.24 U	0.24 U	0.26 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	180 U	45 U	5.2 U	4.5 U	4.6 U	5 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	8 U	2 U	0.23 U	0.2 U	0.21 U	0.23 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	4.6 U	1.2 U	0.13 U	0.12 U	0.12 U	0.13 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-9 DUP 11-11.7 5/19/2015	SB-9 17-18.8 5/19/2015	SB-9 23-24.3 5/19/2015	SB-9 29-29.6 5/19/2015	SB-9 35-36.2 5/19/2015	TP-1 8-9 5/27/2015
2-Chloronaphthalene	NE	NE	NE	mg/kg	6.4 U	1.6 U	0.19 U	0.16 U	0.17 U	0.18 U
2-Chlorophenol	NE	NE	NE	mg/kg	7.1 U	1.8 U	0.21 U	0.18 U	0.18 U	0.2 U
2-Methylphenol (o-cresol)	1000	NE	0.33	mg/kg	**18 J**	1.2 U	0.13 U	0.12 U	0.12 U	0.13 U
2-Nitroaniline	NE	NE	NE	mg/kg	5.7 U	1.4 U	0.17 U	0.14 U	0.15 U	0.16 U
2-Nitrophenol	NE	NE	NE	mg/kg	11 U	2.8 U	0.32 U	0.28 U	0.28 U	0.31 U
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	46 U	12 U	1.3 U	1.2 U	1.2 U	1.3 U
3-Nitroaniline	NE	NE	NE	mg/kg	11 U	2.7 U	0.31 U	0.27 U	0.28 U	0.3 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	39 U	9.8 U	1.1 U	0.98 U	1 U	1.1 U
4-Bromophenyl phenyl ether	NE	NE	NE	mg/kg	5.5 U	1.4 U	0.16 U	0.14 U	0.14 U	0.15 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	9.6 U	2.4 U	0.28 U	0.24 U	0.25 U	0.27 U
4-Chloroaniline	NE	NE	NE	mg/kg	9.6 U	2.4 U	0.28 U	0.24 U	0.25 U	0.27 U
4-Chlorophenyl phenyl ether	NE	NE	NE	mg/kg	4.8 U	1.2 U	0.14 U	0.12 U	0.12 U	0.14 U
4-Methylphenol	1000	NE	0.33	mg/kg	**50 J**	1.2 U	0.13 U	0.12 U	0.12 U	0.13 U
4-Nitroaniline	NE	NE	NE	mg/kg	20 U	5.1 U	0.59 U	0.51 U	0.53 U	0.57 U
4-Nitrophenol	NE	NE	NE	mg/kg	27 U	6.9 U	0.79 U	0.69 U	0.71 U	0.77 U
Acetophenone	NE	NE	NE	mg/kg	8.1 J	1.3 U	0.15 U	0.13 U	0.14 U	0.15 U
Atrazine	NE	NE	NE	mg/kg	13 U	3.4 U	0.39 U	0.34 U	0.35 U	0.38 U
Benzaldehyde	NE	NE	NE	mg/kg	31 U	7.8 U	0.89 U	0.78 U	0.8 U	0.87 U
Benzyl butyl phthalate	NE	NE	NE	mg/kg	6.4 U	1.6 U	0.19 U	0.16 U	0.17 U	0.18 U
Biphenyl (Diphenyl)	NE	NE	NE	mg/kg	31 J	1.4 U	0.17 U	0.14 U	0.15 U	0.16 U
bis(2-Chloroethoxy)methane	NE	NE	NE	mg/kg	8.2 U	2.1 U	0.24 U	0.21 U	0.21 U	0.23 U
bis(2-Chloroethyl)ether	NE	NE	NE	mg/kg	5 U	1.3 U	0.15 U	0.13 U	0.13 U	0.14 U
bis(2-Chloroisopropyl)ether	NE	NE	NE	mg/kg	7.7 U	2 U	0.22 U	0.2 U	0.2 U	0.22 U
bis(2-Ethylhexyl)phthalate	NE	NE	NE	mg/kg	13 U	3.3 U	0.38 U	0.33 U	0.34 U	0.37 U
Caprolactam	NE	NE	NE	mg/kg	12 U	2.9 U	0.34 U	0.29 U	0.3 U	0.33 U
Carbazole	NE	NE	NE	mg/kg	83	1.2 U	0.13 U	0.12 U	0.12 U	0.23 J
Dibenzofuran	1000	NE	210	mg/kg	140	1.2 U	0.13 U	0.12 U	0.12 U	0.21 J
Diethyl phthalate	NE	NE	NE	mg/kg	5 U	1.3 U	0.15 U	0.13 U	0.13 U	0.14 U
Dimethyl phthalate	NE	NE	NE	mg/kg	4.6 U	1.2 U	0.13 U	0.12 U	0.12 U	0.13 U
dI-n-Butyl phthalate	NE	NE	NE	mg/kg	6.6 U	1.7 U	0.19 U	0.17 U	0.17 U	0.19 U
dI-n-Octyl phthalate	NE	NE	NE	mg/kg	4.6 U	1.2 U	0.13 U	0.12 U	0.12 U	0.13 U
Hexachlorobenzene	12	NE	3.2	mg/kg	5.2 U	1.3 U	0.15 U	0.13 U	0.14 U	0.15 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	5.7 U	1.4 U	0.17 U	0.14 U	0.15 U	0.16 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	5.2 U	1.3 U	0.15 U	0.13 U	0.14 U	0.15 U
Hexachloroethane	NE	NE	NE	mg/kg	5 U	1.3 U	0.15 U	0.13 U	0.13 U	0.14 U
Isophorone	NE	NE	NE	mg/kg	8.2 U	2.1 U	0.24 U	0.21 U	0.21 U	0.23 U
Nitrobenzene	NE	NE	NE	mg/kg	4.3 U	1.1 U	0.13 U	0.11 U	0.11 U	0.12 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	6.6 U	1.7 U	0.19 U	0.17 U	0.17 U	0.19 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	31 U	8 U	0.91 U	0.79 U	0.82 U	0.89 U
Pentachlorophenol	55	0.8	0.8	mg/kg	39 UJ	9.8 UJ	1.1 UJ	0.98 UJ	1 UJ	1.1 U
Phenol	1000	30	0.33	mg/kg	**32 J**	1.5 U	0.17 U	0.15 U	0.15 U	0.17 R

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-9 DUP 11-11.7 5/19/2015	SB-9 17-18.8 5/19/2015	SB-9 23-24.3 5/19/2015	SB-9 29-29.6 5/19/2015	SB-9 35-36.2 5/19/2015	TP-1 8-9 5/27/2015
Inorganic Constituents										
Cyanide, total	10000	NE	40	mg/kg	2.1	0.55 U	0.64 U	0.56 U	0.58 UJ	1.8
Aluminum	NE	NE	NE	mg/kg	3540 J	3860	10700	7710	9680 J	1760
Antimony	NE	NE	NE	mg/kg	0.5 U	8.7 U	2.6 U	0.43 U	0.48 UJ	0.5 J
Arsenic	16	13	16	mg/kg	9.6	**84**	**20.7**	7	7.9	**15**
Barium	10000	433	820	mg/kg	40.5	28.7	84.5	38.7	60.7 J	34.8
Beryllium	2700	10	47	mg/kg	0.31 J	2 J	1.3	0.64	0.53	0.18 J
Cadmium	60	4	7.5	mg/kg	0.056 J	0.65 U	0.04 U	0.033 U	0.036 U	0.14 J
Calcium	NE	NE	NE	mg/kg	4410 J	14100 B	13100 B	2210 B	19200 J	1260 B
Chromium	NE	NE	19	mg/kg	13.7	**69.9**	**33.2**	12.6	15.6 J	5.8 B
Cobalt	NE	NE	NE	mg/kg	7.1	19.8	16.2	15.7	11.6	2.1
Copper	10000	50	1720	mg/kg	45.7	**63.4**	28.1	15.9	28.5	14
Iron	NE	NE	NE	mg/kg	24600 B	177000 B	82400 B	20400 B	25100 B	15700 B
Lead	3900	63	450	mg/kg	**77.2**	51.5	18.1	12.4	**249 J**	19.5
Magnesium	NE	NE	NE	mg/kg	1470	1170	5290	3880	6400 J	203
Manganese	10000	1600	2000	mg/kg	297 J	**3190**	1480	264	726	59.4 B
Nickel	10000	30	130	mg/kg	14.3 J	**35**	29.1	**33.8**	24.5	6 J
Potassium	NE	NE	NE	mg/kg	922 J	433 U	2130	1500	1710 J	461
Selenium	6800	3.9	4	mg/kg	0.7 J	8.7 U	2.6 U	0.43 U	0.48 UF1	1.3 J
Silver	6800	2	8.3	mg/kg	0.25 U	4.3 U	1.3 U	0.22 U	0.24 U	0.25 U
Sodium	NE	NE	NE	mg/kg	527 U	3030 U	924 U	152 U	167 U	201
Thallium	NE	NE	NE	mg/kg	0.38 U	1.6 U	2 U	0.33 U	0.36 U	0.38 U
Vanadium	NE	NE	NE	mg/kg	20.3	155	82.2	17.8	19.7 J	14.5
Zinc	10000	109	2480	mg/kg	51.5 B	43.7 B	67.9 B	63.2 ^B	56.5 J	14.7 B
Mercury	5.7	0.18	0.73	mg/kg	**0.28 J**	**0.34**	0.025 J	0.082	0.16	0.054
Pesticides										
4,4'-DDD	180	0.0033	14	mg/kg	0.019 U	0.00036 U	0.00043 U	0.00037 U	0.00039 U	0.00083 U
4,4'-DDE	120	0.0033	17	mg/kg	0.02 U	0.00039 U	0.00046 U	0.0004 U	0.00042 U	0.0009 U
4,4'-DDT	94	0.0033	136	mg/kg	**0.04 NJ**	0.00044 U	0.00051 U	0.00045 U	0.00046 U	0.0015 J
Aldrin	1.4	0.14	0.19	mg/kg	0.023 U	0.00046 U	0.00054 U	0.00047 U	0.00049 U	0.0011 U
alpha Endosulfan (Endosulfan I)	920	NE	102	mg/kg	0.018 U	0.00036 U	0.00042 U	0.00037 U	0.00038 U	0.00082 U
beta Endosulfan (Endosulfan II)	920	NE	102	mg/kg	0.017 U	0.00034 U	0.00039 U	0.00034 U	0.00036 U	0.00077 U
BHC, alpha	6.8	0.04	0.02	mg/kg	0.096 U	0.00034 U	0.00039 U	0.00034 U	0.00036 U	0.00077 U
BHC, beta	14	0.6	0.09	mg/kg	0.096 U	0.00034 U	0.00039 U	0.00034 U	0.00036 U	0.00077 U
BHC, delta	1000	0.04	0.25	mg/kg	0.026 J	0.00035 U	0.00041 U	0.00036 U	0.00037 U	0.0008 U
BHC, gamma (Lindane)	23	6	0.1	mg/kg	0.018 U	0.00034 U	0.0004 U	0.00035 U	0.00036 U	0.0018 NJ
Chlordane, alpha	47	1.3	2.9	mg/kg	0.048 U	0.00093 U	0.0011 U	0.00095 U	0.00099 U	0.0021 U
Chlordane, beta	NE	NE	NE	mg/kg	0.03 U	0.0006 U	0.0007 U	0.00061 U	0.00063 U	0.0014 U
Dieldrin	2.8	0.006	0.1	mg/kg	0.023 U	0.00045 U	0.00053 U	0.00046 U	0.00048 U	0.001 U
Endosulfan sulfate	920	NE	1000	mg/kg	0.096 U	0.0019 U	0.00041 U	0.00036 U	NJ	0.0043 U
Endrin	410	0.014	0.06	mg/kg	0.019 U	0.00037 U	0.00043 U	0.00038 U	0.00039 U	0.00085 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	SB-9 DUP 11-11.7 5/19/2015	SB-9 17-18.8 5/19/2015	SB-9 23-24.3 5/19/2015	SB-9 29-29.6 5/19/2015	SB-9 35-36.2 5/19/2015	TP-1 8-9 5/27/2015
Endrin aldehyde	NE	NE	NE	mg/kg	0.024 U	0.00048 U	0.00056 U	0.00049 U	0.00051 U	0.0011 U
Endrin ketone	NE	NE	NE	mg/kg	0.051 J	0.0027 U	0.00054 U	0.00047 U	0.00049 U	0.0011 U
Heptachlor	29	0.14	0.38	mg/kg	0.021 U	0.00041 U	0.00047 U	0.00041 U	0.00043 U	0.00093 U
Heptachlor epoxide	NE	NE	NE	mg/kg	0.025 U	0.00048 U	0.00057 U	0.00049 U	0.00051 U	0.0011 U
Methoxychlor	NE	NE	NE	mg/kg	0.3 NJ	0.00038 U	0.00045 U	0.00039 U	0.0027 U	0.0056 U
Toxaphene	NE	NE	NE	mg/kg	0.56 U	0.011 U	0.013 U	0.011 U	0.012 U	0.025 U
Polychlorinated Biphenyls (PCBs)										
Aroclor 1016	NE	NE	3.2	mg/kg	0.047 U	0.049 U	0.057 U	0.049 U	0.053 U	0.049 U
Aroclor 1221	NE	NE	3.2	mg/kg	0.047 U	0.049 U	0.057 U	0.049 U	0.053 U	0.049 U
Aroclor 1232	NE	NE	3.2	mg/kg	0.047 U	0.049 U	0.057 U	0.049 U	0.053 U	0.049 U
Aroclor 1242	NE	NE	3.2	mg/kg	0.047 U	0.049 U	0.057 U	0.049 U	0.053 U	0.049 U
Aroclor 1248	NE	NE	3.2	mg/kg	0.047 U	0.049 U	0.057 U	0.049 U	0.053 U	0.049 U
Aroclor 1254	NE	NE	3.2	mg/kg	0.11 U	0.12 U	0.14 U	0.12 U	0.13 U	0.12 U
Aroclor 1260	NE	NE	3.2	mg/kg	0.11 U	0.12 U	0.14 U	0.12 U	0.13 U	0.12 U
Total PCBs	25	1.0	3.2	mg/kg	ND	ND	ND	ND	ND	ND

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value show is approximate and may be inaccurate or imprecise.
N J - The analyte detection if tentative in indentification and estimated in value.
B - Constituent was found in the blank and the sample.
R - Result rejected as determined by the data validator.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
F2 - MS/MSD Relative Percent Difference (RPD) exceeds control limits.
^ - Instrument related QC is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
NE - Not established.
ND - Not detected
(a) - City of Troy Official Zoning Map

Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for: Protection of Public Health for Industrially Zoned Properties, Protection of Ecological Resources, and/or Protection of Groundwater.

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TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	TP-1 DUP 8-9 5/27/2015	TP-1B 9-10 5/27/2015	TP-2 4-5 5/28/2015	TP-3 4-5 5/28/2015	TP-4 7.5-8 5/27/2015	TP-5 7-7.5 5/28/2015
Volatile Organic Compounds (VOCs)										
BTEX										
Benzene	89	70	0.06	mg/kg	0.00063 U	0.00043 J	0.00046 U	0.00023 U	0.00022 U	0.0052 J
Toluene	1000	36	0.7	mg/kg	0.00097 U	0.00052 U	0.00071 U	0.00044 J	0.00033 U	0.003 J
Ethylbenzene	780	NE	1	mg/kg	0.00089 U	0.00048 U	0.00065 U	0.00033 U	0.0003 U	0.00054 UJ
Xylenes, total	1000	0.26	1.6	mg/kg	0.0022 U	0.0012 U	0.0016 U	0.00079 U	0.00074 U	0.0013 UJ
Total BTEX	NE	NE	NE	mg/kg	ND	0.00043 J	ND	0.00044 J	ND	0.0082 J
Other VOCs										
1,1,1-Trichloroethane	1000	NE	0.68	mg/kg	0.00093 U	0.0005 U	0.00068 U	0.00034 U	0.00032 U	0.00057 UJ
1,1,2,2-Tetrachloroethane	NE	NE	NE	mg/kg	0.0021 UJ	0.0011 UJ	0.0015 U	0.00077 U	0.00071 U	0.0013 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NE	NE	NE	mg/kg	0.0029 U	0.0016 U	0.0021 U	0.0011 U	0.001 U	0.0018 UJ
1,1,2-Trichloroethane	NE	NE	NE	mg/kg	0.0017 U	0.0009 U	0.0012 U	0.00061 U	0.00057 U	0.001 UJ
1,1-Dichloroethane	480	NE	0.27	mg/kg	0.0016 U	0.00084 U	0.0011 U	0.00058 U	0.00054 U	0.00095 UJ
1,1-Dichloroethene	1000	NE	0.33	mg/kg	0.0016 U	0.00085 U	0.0011 U	0.00058 U	0.00054 U	0.00095 UJ
1,2,4-Trichlorobenzene	NE	NE	NE	mg/kg	0.00078 UJ	0.00042 UJ	0.00057 U	0.00029 U	0.00027 UJ	0.00047 UJ
1,2-Dibromo-3-chloropropane (DBCP)	NE	NE	NE	mg/kg	0.0064 UJ	0.0035 UJ	0.0047 U	0.0024 U	0.0022 U	0.0039 UJ
1,2-Dibromoethane (EDB)	NE	NE	NE	mg/kg	0.0017 U	0.00089 U	0.0012 U	0.00061 U	0.00056 UJ	0.001 UJ
1,2-Dichlorobenzene	1000	NE	1.1	mg/kg	0.001 UJ	0.00054 UJ	0.00073 U	0.00037 U	0.00034 U	0.00061 UJ
1,2-Dichloroethane	60	10	0.02	mg/kg	0.00065 U	0.00035 U	0.00047 U	0.00024 U	0.00022 UJ	0.00039 UJ
1,2-Dichloropropane	NE	NE	NE	mg/kg	0.0064 U	0.0035 U	0.0047 U	0.0024 U	0.0022 U	0.0039 UJ
1,3-Dichlorobenzene	560	NE	2.4	mg/kg	0.00066 UJ	0.00036 UJ	0.00048 U	0.00024 U	0.00023 U	0.0004 UJ
1,4-Dichlorobenzene	250	20	1.8	mg/kg	0.0018 UJ	0.00097 UJ	0.0013 U	0.00066 U	0.00062 U	0.0011 UJ
2-Butanone (MEK)	1000	100	0.12	mg/kg	0.0047 U	0.0025 U	0.0034 U	0.0017 U	0.0016 UF1	0.0028 UJ
2-Hexanone	NE	NE	NE	mg/kg	0.0064 U	0.0035 U	0.0047 U	0.0024 U	0.0022 U	0.0039 UJ
4-Methyl-2-pentanone (MIBK)	NE	NE	NE	mg/kg	0.0042 U	0.0023 U	0.0031 U	0.0015 U	0.0014 UF1	0.0026 UJ
Acetone	1000	2.2	0.05	mg/kg	0.011 U	0.0058 U	0.0079 U	0.004 U	0.0037 UF1	0.0066 UJ
Bromodichloromethane	NE	NE	NE	mg/kg	0.0017 U	0.00093 U	0.0013 U	0.00063 U	0.00059 U	0.001 UJ
Bromoform	NE	NE	NE	mg/kg	0.0064 U	0.0035 U	0.0047 U	0.0024 U	0.0022 UJ	0.0039 UJ
Bromomethane	NE	NE	NE	mg/kg	0.0012 U	0.00062 U	0.00084 U	0.00043 U	0.0004 U	0.0007 UJ
Carbon disulfide	NE	NE	NE	mg/kg	0.0064 U	0.0035 U	0.0047 U	0.0024 U	0.0022 U	0.0039 UJ
Carbon tetrachloride	44	NE	0.76	mg/kg	0.0012 U	0.00067 U	0.00091 U	0.00046 U	0.00043 U	0.00075 UJ
Chlorobenzene	1000	40	1.1	mg/kg	0.0017 U	0.00091 U	0.0012 U	0.00062 U	0.00058 U	0.001 UJ
Chloroethane	NE	NE	NE	mg/kg	0.0029 U	0.0016 U	0.0021 U	0.0011 U	0.00099 U	0.0018 UJ
Chloroform	700	12	0.37	mg/kg	0.0008 U	0.00043 U	0.00058 U	0.00029 U	0.00027 U	0.00048 UJ
Chloromethane	NE	NE	NE	mg/kg	0.00078 U	0.00042 U	0.00057 U	0.00029 U	0.00027 U	0.00047 UJ
cis-1,2-Dichloroethene	1000	NE	0.25	mg/kg	0.0016 U	0.00088 U	0.0012 U	0.0006 U	0.00056 U	0.001 UJ
cis-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.0019 U	0.001 U	0.0014 U	0.00068 U	0.00063 UJ	0.0011 UJ
Cyclohexane	NE	NE	NE	mg/kg	0.0018 U	0.00097 U	0.0013 U	0.00066 U	0.00062 U	0.0011 UJ
Dibromochloromethane	NE	NE	NE	mg/kg	0.0016 U	0.00088 U	0.0012 U	0.0006 U	0.00056 U	0.001 UJ
Dichlorodifluoromethane (Freon 12)	NE	NE	NE	mg/kg	0.0011 U	0.00057 U	0.00077 U	0.00039 U	0.00036 U	0.00064 UJ

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[a]	Protection of Ecological Resources	Protection of Groundwater	Units	TP-1 DUP 8-9 5/27/2015	TP-1B 9-10 5/27/2015	TP-2 4-5 5/28/2015	TP-3 4-5 5/28/2015	TP-4 7.5-8 5/27/2015	TP-5 7-7.5 5/28/2015
Isopropylbenzene (Cumene)	NE	NE	NE	mg/kg	0.0019 UJ	0.001 UJ	0.0014 U	0.00071 U	0.00066 U	0.0012 UJ
Methyl acetate	NE	NE	NE	mg/kg	0.0078 U	0.0042 U	0.0057 U	0.0029 U	0.0027 U	0.0047 UJ
Methylcyclohexane	NE	NE	NE	mg/kg	0.002 U	0.0011 U	0.0014 U	0.00072 U	0.00067 U	0.0012 UJ
Methylene chloride	1000	12	0.05	mg/kg	0.0059 U	0.0032 U	0.0043 U	0.0022 U	0.002 U	0.0036 UJ
Styrene	NE	NE	NE	mg/kg	0.00064 U	0.00035 U	0.00047 U	0.00024 U	0.00022 UF1	0.00039 UJ
tert-Butyl methyl ether (MTBE)	1000	NE	0.93	mg/kg	0.0013 U	0.00068 U	0.00092 U	0.00046 U	0.00043 U	0.00076 UJ
Tetrachloroethene (PCE)	300	2	1.3	mg/kg	0.0017 U	0.00093 U	0.0013 U	0.00063 U	0.00059 U	0.001 UJ
trans-1,2-Dichloroethene	1000	NE	0.19	mg/kg	0.0013 U	0.00071 U	0.00097 U	0.00049 U	0.00045 U	0.0008 UJ
trans-1,3-Dichloropropene	NE	NE	NE	mg/kg	0.0057 U	0.003 U	0.0041 U	0.0021 U	0.0019 U	0.0034 UJ
Trichloroethene (TCE)	400	2	0.47	mg/kg	0.0028 U	0.0015 U	0.0021 U	0.001 U	0.00097 U	0.0017 UJ
Trichlorofluoromethane (Freon 11)	NE	NE	NE	mg/kg	0.0012 U	0.00065 U	0.00089 U	0.00045 U	0.00042 U	0.0024 J
Vinyl chloride	27	NE	0.02	mg/kg	0.0016 U	0.00084 U	0.0011 U	0.00058 U	0.00054 U	0.00095 UJ
Semi-volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	1000	20	98	mg/kg	0.16 U	0.27 U	0.58 U	0.54 U	0.14 U	0.33 U
Acenaphthylene	1000	NE	107	mg/kg	0.14 U	1.4 J	0.51 U	4	0.12 U	0.29 U
Anthracene	1000	NE	1000	mg/kg	0.26 U	0.54 J	0.97 U	3.7	0.23 U	0.56 U
Benzo(a)anthracene	11	NE	1	mg/kg	0.45 J	**6.4**	**6**	**13**	0.17 J	0.4 J
Benzo(a)pyrene	1.1	2.6	22	mg/kg	0.32 J	**6**	**7.7**	**10**	0.15 J	0.33 U
Benzo(b)fluoranthene	11	NE	1.7	mg/kg	0.46 J	**4.9**	**8.8**	**13**	0.23 J	0.36 U
Benzo(g,h,i)perylene	1000	NE	1000	mg/kg	0.11 U	3.9	6.1	5.6	0.099 U	0.24 U
Benzo(k)fluoranthene	110	NE	1.7	mg/kg	0.23 J	**3.6**	**6.3**	**7.4**	0.12 U	0.29 U
Chrysene	110	NE	1	mg/kg	0.48 J	**6**	**6.1**	**14**	0.21 U	0.5 U
Dibenz(a,h)anthracene	1.1	NE	1000	mg/kg	0.19 U	0.98 J	**1.9 J**	**2.1 J**	0.17 U	0.4 U
Fluoranthene	1000	NE	1000	mg/kg	0.81 J	5.7	5.4	21	0.2 J	0.31 J
Fluorene	1000	30	386	mg/kg	0.13 U	0.28 J	0.46 U	1.6 J	0.11 U	0.27 U
Indeno(1,2,3-c,d)pyrene	11	NE	8.2	mg/kg	0.15 J	2.9	7.5	6.5	0.12 U	0.28 U
Naphthalene	1000	NE	12	mg/kg	0.14 U	0.24 U	0.51 U	1.1 J	0.12 U	0.36 J
Phenanthrene	1000	NE	1000	mg/kg	0.49 J	1.3 J	2.8 J	13	0.14 U	0.41 J
Pyrene	1000	NE	1000	mg/kg	0.68 J	14	5.9	21	0.25 J	0.31 J
2-Methylnaphthalene	NE	NE	NE	mg/kg	0.21 U	0.37 U	0.78 U	0.85 J	0.19 U	0.45 U
Total PAHS	NE	NE	NE	mg/kg	4.1 J	58	65	138	1.0 J	1.8 J
Other SVOCs										
2,4,5-Trichlorophenol	NE	NE	NE	mg/kg	0.29 U	0.51 U	1.1 U	0.99 U	0.25 U	0.61 U
2,4,6-Trichlorophenol	NE	NE	NE	mg/kg	0.21 U	0.37 U	0.78 U	0.73 U	0.19 U	0.45 U
2,4-Dichlorophenol	NE	NE	NE	mg/kg	0.11 U	0.2 U	0.42 U	0.39 U	0.099 U	0.24 U
2,4-Dimethylphenol	NE	NE	NE	mg/kg	0.26 U	0.45 U	0.95 U	0.88 U	0.23 U	0.54 U
2,4-Dinitrophenol	NE	NE	NE	mg/kg	4.9 U	8.6 U	18 U	17 U	4.3 U	10 U
2,4-Dinitrotoluene	NE	NE	NE	mg/kg	0.22 U	0.38 U	0.81 U	0.75 U	0.19 U	0.46 U
2,6-Dinitrotoluene	NE	NE	NE	mg/kg	0.13 U	0.22 U	0.46 U	0.43 U	0.11 U	0.27 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	TP-1 DUP 8-9 5/27/2015	TP-1B 9-10 5/27/2015	TP-2 4-5 5/28/2015	TP-3 4-5 5/28/2015	TP-4 7.5-8 5/27/2015	TP-5 7-7.5 5/28/2015
2-Chloronaphthalene	NE	NE	NE	mg/kg	0.18 U	0.31 U	0.65 U	0.6 U	0.15 U	0.37 U
2-Chlorophenol	NE	NE	NE	mg/kg	0.19 U	0.34 U	0.72 U	0.67 U	0.17 U	0.41 U
2-Methylphenol (o-cresol)	1000	NE	0.33	mg/kg	0.13 U	0.22 U	0.46 U	0.43 U	0.11 U	0.27 U
2-Nitroaniline	NE	NE	NE	mg/kg	0.16 U	0.27 U	0.58 U	0.54 U	0.14 U	0.33 U
2-Nitrophenol	NE	NE	NE	mg/kg	0.3 U	0.53 U	1.1 U	1 U	0.27 U	0.64 U
3,3'-Dichlorobenzidine	NE	NE	NE	mg/kg	1.3 U	2.2 U	4.6 U	4.3 U	1.1 U	2.7 U
3-Nitroaniline	NE	NE	NE	mg/kg	0.29 U	0.52 U	1.1 U	1 U	0.26 U	0.62 U
4,6-Dinitro-2-methylphenol	NE	NE	NE	mg/kg	1.1 U	1.9 U	3.9 U	3.7 U	0.94 U	2.3 U
4-Bromophenyl phenyl ether	NE	NE	NE	mg/kg	0.15 U	0.26 U	0.55 U	0.52 U	0.13 U	0.32 U
4-Chloro-3-methylphenol	NE	NE	NE	mg/kg	0.26 U	0.46 U	0.97 U	0.9 U	0.23 U	0.56 U
4-Chloroaniline	NE	NE	NE	mg/kg	0.26 U	0.46 U	0.97 U	0.9 U	0.23 U	0.56 U
4-Chlorophenyl phenyl ether	NE	NE	NE	mg/kg	0.13 U	0.23 U	0.48 U	0.45 U	0.12 U	0.28 U
4-Methylphenol	1000	NE	0.33	mg/kg	0.13 U	0.22 U	0.46 U	0.43 U	0.11 U	0.27 U
4-Nitroaniline	NE	NE	NE	mg/kg	0.56 U	0.98 U	2.1 U	1.9 U	0.49 U	1.2 U
4-Nitrophenol	NE	NE	NE	mg/kg	0.74 U	1.3 U	2.7 U	2.6 U	0.66 U	1.6 U
Acetophenone	NE	NE	NE	mg/kg	0.14 U	0.25 U	0.53 U	0.49 U	0.13 U	0.31 U
Atrazine	NE	NE	NE	mg/kg	0.37 U	0.65 U	1.4 U	1.3 U	0.33 U	0.78 U
Benzaldehyde	NE	NE	NE	mg/kg	0.84 U	1.5 U	3.1 U	2.9 U	0.75 U	1.8 U
Benzyl butyl phthalate	NE	NE	NE	mg/kg	0.18 U	0.31 U	0.65 U	0.6 U	0.15 U	0.37 U
Biphenyl (Diphenyl)	NE	NE	NE	mg/kg	0.16 U	0.27 U	0.58 U	0.54 U	0.14 U	0.33 U
bis(2-Chloroethoxy)methane	NE	NE	NE	mg/kg	0.23 U	0.4 U	0.83 U	0.77 U	0.2 U	0.48 U
bis(2-Chloroethyl)ether	NE	NE	NE	mg/kg	0.14 U	0.24 U	0.51 U	0.47 U	0.12 U	0.29 U
bis(2-Chloroisopropyl)ether	NE	NE	NE	mg/kg	0.21 U	0.37 U	0.78 U	0.73 U	0.19 U	0.45 U
bis(2-Ethylhexyl)phthalate	NE	NE	NE	mg/kg	0.36 U	0.64 U	1.3 U	1.2 U	0.32 U	0.77 U
Caprolactam	NE	NE	NE	mg/kg	0.32 U	0.56 U	1.2 U	1.1 U	0.28 U	0.68 U
Carbazole	NE	NE	NE	mg/kg	0.13 U	0.22 U	0.46 U	0.56 J	0.11 U	0.27 U
Dibenzofuran	1000	NE	210	mg/kg	0.13 U	0.22 U	0.46 U	0.8 J	0.11 U	0.27 U
Diethyl phthalate	NE	NE	NE	mg/kg	0.14 U	0.24 U	0.51 U	0.47 U	0.12 U	0.29 U
Dimethyl phthalate	NE	NE	NE	mg/kg	0.13 U	0.22 U	0.46 U	0.43 U	0.11 U	0.27 U
dI-n-Butyl phthalate	NE	NE	NE	mg/kg	0.18 U	0.32 U	0.67 U	0.62 U	0.16 U	0.39 U
dI-n-Octyl phthalate	NE	NE	NE	mg/kg	0.13 U	0.22 U	0.46 U	0.43 U	0.11 U	0.27 U
Hexachlorobenzene	12	NE	3.2	mg/kg	0.14 U	0.25 U	0.53 U	0.49 U	0.13 U	0.31 U
Hexachlorobutadiene	NE	NE	NE	mg/kg	0.16 U	0.27 U	0.58 U	0.54 U	0.14 U	0.33 U
Hexachlorocyclopentadiene	NE	NE	NE	mg/kg	0.14 U	0.25 U	0.53 U	0.49 U	0.13 U	0.31 U
Hexachloroethane	NE	NE	NE	mg/kg	0.14 U	0.24 U	0.51 U	0.47 U	0.12 U	0.29 U
Isophorone	NE	NE	NE	mg/kg	0.23 U	0.4 U	0.83 U	0.77 U	0.2 U	0.48 U
Nitrobenzene	NE	NE	NE	mg/kg	0.12 U	0.21 U	0.44 U	0.41 U	0.1 U	0.25 U
N-Nitroso-di-n-propylamine	NE	NE	NE	mg/kg	0.18 U	0.32 U	0.67 U	0.62 U	0.16 U	0.39 U
N-Nitrosodiphenylamine	NE	NE	NE	mg/kg	0.86 U	1.5 U	3.2 U	3 U	0.76 U	1.8 U
Pentachlorophenol	55	0.8	0.8	mg/kg	1.1 U	1.9 U	3.9 U	3.7 U	0.94 U	2.3 U
Phenol	1000	30	0.33	mg/kg	0.16 R	0.29 R	0.6 U	0.56 U	0.14 R	0.35 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	TP-1 DUP 8-9 5/27/2015	TP-1B 9-10 5/27/2015	TP-2 4-5 5/28/2015	TP-3 4-5 5/28/2015	TP-4 7.5-8 5/27/2015	TP-5 7-7.5 5/28/2015
Inorganic Constituents										
Cyanide, total	10000	NE	40	mg/kg	0.61 U	0.53 U	0.57 U	0.52 U	0.54 UF1F2	0.64 U
Aluminum	NE	NE	NE	mg/kg	1780	3800	7080	6330 J	6800 J	3610 J
Antimony	NE	NE	NE	mg/kg	0.47 U	0.44 U	0.47 U	4 UJ	2.1 UJ	2.5 UJ
Arsenic	16	13	16	mg/kg	**15**	**14.6**	8.7	**50.3 F1**	12.9	**23.1**
Barium	10000	433	820	mg/kg	32.8	35.3	53.4	91.1 J	47.8 J	56.4 F1
Beryllium	2700	10	47	mg/kg	0.2 J	0.49	0.52	2.1 J	0.95 JF1	0.67 J
Cadmium	60	4	7.5	mg/kg	0.15 J	0.23	0.066 J	0.3 UJ	0.28 JF1	0.19 U
Calcium	NE	NE	NE	mg/kg	1360 B	2040 B	4040 B	13300 J	4700 J	2950 J
Chromium	NE	NE	19	mg/kg	5.4 B	10.7 B	13.3	**154 J**	**46.2 J**	16.2 J
Cobalt	NE	NE	NE	mg/kg	2	9.4	6.2	10.4	6.8	12.4
Copper	10000	50	1720	mg/kg	15.7	34.9	21.7	2.1 UF2	23 F1	**88.7 F1F2**
Iron	NE	NE	NE	mg/kg	15900 B	24600 B	17200 B	198000 J	93700 J	70600 ^
Lead	3900	63	450	mg/kg	16.4	43.1	31.1	**64.7 F2F1**	40.9 J	57.8 F1
Magnesium	NE	NE	NE	mg/kg	160	898	2550 B	1940 J	1800 J	903 J
Manganese	10000	1600	2000	mg/kg	58.5 B	559 B	290 B^	**5110 J**	**1730 J**	**1890 ^F2**
Nickel	10000	30	130	mg/kg	5.7 J	18.4	18.2	22.5 F1	18 J	28.1
Potassium	NE	NE	NE	mg/kg	411	702	1340 B	560 BF1	809	538
Selenium	6800	3.9	4	mg/kg	1.6 J	0.82 J	0.47 U	4 UJ	2.1 UF1	2.5 U
Silver	6800	2	8.3	mg/kg	0.24 U	0.22 U	0.24 U	2 UJ	1.1 UJ	1.2 UF1F2
Sodium	NE	NE	NE	mg/kg	184	379	165 U	1390 U	197 JF1	867 U
Thallium	NE	NE	NE	mg/kg	0.35 U	0.33 U	0.35 U	3 U	1.6 UF1	1.9 U
Vanadium	NE	NE	NE	mg/kg	14.6	25.2	20.9	267 J	74.1 J	40.4 J
Zinc	10000	109	2480	mg/kg	15.3 B	46.4 B	48.4 B	58.9 J	52.3 J	**147 J**
Mercury	5.7	0.18	0.73	mg/kg	0.049	**0.38**	**0.23**	0.088	0.059	0.15
Pesticides										
4,4'-DDD	180	0.0033	14	mg/kg	0.00081 U	0.0071 U	0.019 U	0.017 U	0.0018 U	0.0043 U
4,4'-DDE	120	0.0033	17	mg/kg	0.00088 U	0.0077 U	0.02 U	0.019 U	0.0019 U	**0.0048 J**
4,4'-DDT	94	0.0033	136	mg/kg	0.0016 J	0.0086 U	0.023 U	**0.024 J**	0.0022 U	0.0052 U
Aldrin	1.4	0.14	0.19	mg/kg	0.001 U	0.009 U	0.024 U	0.022 U	0.0023 U	0.0054 U
alpha Endosulfan (Endosulfan I)	920	NE	102	mg/kg	0.0008 U	0.007 U	0.019 U	0.017 U	0.0018 U	0.0042 U
beta Endosulfan (Endosulfan II)	920	NE	102	mg/kg	0.00075 U	0.0066 U	0.017 U	0.016 U	0.0017 U	0.004 U
BHC, alpha	6.8	0.04	0.02	mg/kg	0.0042 U	0.0066 U	0.017 U	0.016 U	0.0017 U	0.004 U
BHC, beta	14	0.6	0.09	mg/kg	0.0042 U	0.0066 U	0.017 U	0.016 U	0.0017 U	0.004 U
BHC, delta	1000	0.04	0.25	mg/kg	0.0042 U	0.0068 U	0.018 U	0.017 U	0.0017 U	0.0041 U
BHC, gamma (Lindane)	23	6	0.1	mg/kg	0.0063 J	0.0067 UJ	0.018 U	0.016 U	0.0017 UJ	0.004 U
Chlordane, alpha	47	1.3	2.9	mg/kg	0.0021 U	0.018 U	0.048 U	0.044 U	0.0046 U	0.011 U
Chlordane, beta	NE	NE	NE	mg/kg	0.0013 U	0.012 U	0.031 U	0.028 U	0.0029 U	0.007 U
Dieldrin	2.8	0.006	0.1	mg/kg	0.001 U	0.0088 U	0.023 U	0.021 U	0.0022 U	0.0053 U
Endosulfan sulfate	920	NE	1000	mg/kg	0.0015 J	0.0069 U	0.018 U	0.017 U	0.0017 U	0.022 U
Endrin	410	0.014	0.06	mg/kg	0.00083 U	0.0073 U	0.019 U	0.018 U	0.0018 U	0.0044 U

TABLE 7
SUBSURFACE SOIL ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Soil Cleanup Objectives [6 NYCRR Subpart 375-6] Protection of Public Health - Industrial Zoning[(a)]	Protection of Ecological Resources	Protection of Groundwater	Units	TP-1 DUP 8-9 5/27/2015	TP-1B 9-10 5/27/2015	TP-2 4-5 5/28/2015	TP-3 4-5 5/28/2015	TP-4 7.5-8 5/27/2015	TP-5 7-7.5 5/28/2015
Endrin aldehyde	NE	NE	NE	mg/kg	0.0011 U	0.0094 U	0.025 U	0.023 U	0.0023 U	0.0056 U
Endrin ketone	NE	NE	NE	mg/kg	0.001 U	0.009 U	0.024 U	0.022 U	0.0023 U	0.0054 U
Heptachlor	29	0.14	0.38	mg/kg	0.0009 U	0.008 U	0.021 U	0.019 U	0.002 U	0.0048 U
Heptachlor epoxide	NE	NE	NE	mg/kg	0.0011 U	0.0095 U	0.025 U	0.023 U	0.0024 U	0.0057 U
Methoxychlor	NE	NE	NE	mg/kg	0.0076 U	0.037 U	0.02 U	0.018 U	0.0019 U	0.022 U
Toxaphene	NE	NE	NE	mg/kg	0.024 U	0.21 U	0.56 U	0.52 U	0.053 U	0.13 U
Polychlorinated Biphenyls (PCBs)										
Aroclor 1016	NE	NE	3.2	mg/kg	0.052 U	0.044 U	0.053 U	0.038 U	0.04 U	0.057 U
Aroclor 1221	NE	NE	3.2	mg/kg	0.052 U	0.044 U	0.053 U	0.038 U	0.04 U	0.057 U
Aroclor 1232	NE	NE	3.2	mg/kg	0.052 U	0.044 U	0.053 U	0.038 U	0.04 U	0.057 U
Aroclor 1242	NE	NE	3.2	mg/kg	0.052 U	0.044 U	0.053 U	0.038 U	0.04 U	0.057 U
Aroclor 1248	NE	NE	3.2	mg/kg	0.052 U	0.044 U	0.053 U	0.038 U	0.04 U	0.057 U
Aroclor 1254	NE	NE	3.2	mg/kg	0.12 U	0.11 U	0.13 U	0.09 U	0.095 U	0.14 U
Aroclor 1260	NE	NE	3.2	mg/kg	0.12 U	0.11 U	0.13 U	0.09 U	0.095 U	0.14 U
Total PCBs	25	1.0	3.2	mg/kg	ND	ND	ND	ND	ND	ND

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value show is approximate and may be inaccurate or imprecise.
N J - The analyte detection if tentative in indentification and estimated in value.
B - Constituent was found in the blank and the sample.
R - Result rejected as determined by the data validator.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
F2 - MS/MSD Relative Percent Difference (RPD) exceeds control limits.
^ - Instrument related QC is outside acceptance limits.
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
NE - Not established.
ND - Not detected
(a) - City of Troy Official Zoning Map

Boxes and bolded values indicate concentrations are above New York State Subpart 375 Soil Cleanup Objectives for: Protection of Public Health for Industrially Zoned Properties, Protection of Ecological Resources, and/or Protection of Groundwater.

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703[(1)] Standard	Units	MW-1 6/11/2015	MW-1 9/21/2015	MW-1 DUP 9/21/2015	MW-1D 6/12/2015	MW-1D 9/22/2015	MW-2S 6/12/2015	MW-2S 9/23/2015
Volatile Organic Compounds (VOCs)										
BTEX										
Benzene	NE	1	µg/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	**1300**	**18**
Toluene	NE	5	µg/L	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	**320**	0.51 U
Ethylbenzene	NE	5	µg/L	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	7.4 U	0.74 U
Xylenes, total	NE	5	µg/L	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	**150**	0.66 U
Total BTEX	NE	NE		ND	ND	ND	ND	ND	1770	18
Other VOCs										
1,1,1-Trichloroethane	NE	5	µg/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	8.2 U	0.82 U
1,1,2,2-Tetrachloroethane	NE	5	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	2.1 U	0.21 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NE	5	µg/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	3.1 U	0.31 U
1,1,2-Trichloroethane	NE	1	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	2.3 U	0.23 U
1,1-Dichloroethane	NE	5	µg/L	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	3.8 U	0.38 U
1,1-Dichloroethene	NE	5	µg/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	2.9 U	0.29 U
1,2,4-Trichlorobenzene	10	5	µg/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	4.1 U	0.41 U
1,2-Dibromo-3-chloropropane (DBCP)	NE	0.04	µg/L	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	3.9 U	0.39 U
1,2-Dibromoethane (EDB)	NE	0.0006	µg/L	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	7.3 U	0.73 U
1,2-Dichlorobenzene	NE	3	µg/L	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	7.9 U	0.79 U
1,2-Dichloroethane	NE	0.6	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	2.1 U	0.21 U
1,2-Dichloropropane	NE	1	µg/L	0.72 UF1	0.72 U	0.72 U	0.72 U	0.72 U	7.2 U	0.72 U
1,3-Dichlorobenzene	NE	3	µg/L	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	7.8 U	0.78 U
1,4-Dichlorobenzene	NE	3	µg/L	0.84 U	0.84 U	0.84 U	0.84 U	0.84 U	8.4 U	0.84 U
2-Butanone (MEK)	50	NE	µg/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	13 U	1.3 U
2-Hexanone	50	NE	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	12 U	1.2 U
4-Methyl-2-pentanone (MIBK)	NE	NE	µg/L	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	21 U	2.1 U
Acetone	50	NE	µg/L	3 U	3 U	3 U	3 U	3 U	30 U	3 U
Bromodichloromethane	50	NE	µg/L	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	3.9 U	0.39 U
Bromoform	50	NE	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	2.6 U	0.26 U
Bromomethane	NE	5	µg/L	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	6.9 U	0.69 U
Carbon disulfide	60	60	µg/L	0.19 U	0.19 U	0.19 U	0.62 J	0.19 U	1.9 U	0.19 U
Carbon tetrachloride	NE	5	µg/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	2.7 U	0.27 U
Chlorobenzene	NE	5	µg/L	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	7.5 U	0.75 U
Chloroethane	NE	5	µg/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	3.2 U	0.32 U
Chloroform	NE	7	µg/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.4 U	0.34 U
Chloromethane	NE	5	µg/L	0.35 UF1	0.35 U	0.35 U	0.35 U	0.35 U	3.5 U	0.35 U
cis-1,2-Dichloroethene	NE	5	µg/L	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	8.1 U	0.81 U
cis-1,3-Dichloropropene	NE	0.4	µg/L	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	3.6 U	0.36 U
Cyclohexane	NE	NE	µg/L	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	3.1 J^	0.18 U
Dibromochloromethane	50	NE	µg/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	3.2 U	0.32 U
Dichlorodifluoromethane (Freon 12)	NE	5	µg/L	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	6.8 U	0.68 U
Isopropylbenzene (Cumene)	NE	5	µg/L	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	**64**	0.79 U
Methyl acetate	NE	NE	µg/L	0.5 U	1.3 U	1.3 U	0.5 U	1.3 U	5 U	1.3 U
Methylcyclohexane	NE	NE	µg/L	0.16 U	0.16 U	0.16 U	0.33 J	0.16 U	2.4 J	0.16 U
Methylene chloride	NE	5	µg/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	4.4 U	0.44 U
Styrene	NE	5	µg/L	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	7.3 U	0.73 U

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703[(1)] Standard	Units	MW-1 6/11/2015	MW-1 9/21/2015	MW-1 DUP 9/21/2015	MW-1D 6/12/2015	MW-1D 9/22/2015	MW-2S 6/12/2015	MW-2S 9/23/2015
tert-Butyl methyl ether (MTBE)	10	NE	µg/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.6 U	0.16 U
Tetrachloroethene (PCE)	NE	5	µg/L	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	3.6 U	0.36 U
trans-1,2-Dichloroethene	NE	5	µg/L	0.9 UF1	0.9 U	0.9 U	0.9 U	0.9 U	9 U	0.9 U
trans-1,3-Dichloropropene	NE	0.4	µg/L	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	3.7 U	0.37 U
Trichloroethene (TCE)	NE	5	µg/L	0.46 UF1	0.46 U	0.46 U	0.46 U	0.46 U	4.6 U	0.46 U
Trichlorofluoromethane (Freon 11)	NE	5	µg/L	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U	8.8 U	0.88 U
Vinyl chloride	NE	2	µg/L	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	9 U	0.9 U
Semi-Volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	20	NE	µg/L	0.4 U	0.38 U	0.51 U	1.3 J	0.81 J	0.42 J	0.42 U
Acenaphthylene	NE	NE	µg/L	0.38 UF2	0.35 U	0.47 U	1.7 J	1.2 J	0.48 J	0.39 U
Anthracene	50	NE	µg/L	0.28 UF2	0.26 U	0.35 U	0.65 J	0.44 J	0.99 J	0.45 J
Benzo(a)anthracene	0.002	NE	µg/L	0.36 UF2	0.33 U	0.45 U	0.36 U	0.37 U	**0.64 J**	**0.45 J**
Benzo(a)pyrene	NE	0	µg/L	0.46 UF1F2	0.44 U	0.59 U	0.47 U	0.48 U	**0.52 J**	0.48 U
Benzo(b)fluoranthene	0.002	NE	µg/L	0.34 UF1F2	0.31 U	0.42 U	0.34 U	0.35 U	**0.7 J**	**0.39 J**
Benzo(g,h,i)perylene	NE	NE	µg/L	0.35 UF1F2	0.32 U	0.44 U	0.35 U	0.36 U	0.58 J	0.36 U
Benzo(k)fluoranthene	0.002	NE	µg/L	0.72 UF1F2	0.68 U	0.91 U	0.74 U	0.74 U	0.72 U	0.74 U
Chrysene	0.002	NE	µg/L	0.33 UF1F2	0.31 U	0.41 U	0.33 U	0.34 U	**0.6 J**	**0.35 J**
Dibenz(a,h)anthracene	NE	NE	µg/L	0.41 UF1F2	0.39 U	0.52 U	0.42 U	0.43 U	0.65 J	0.43 U
Fluoranthene	50	NE	µg/L	0.4 UF2	0.37 U	0.5 U	0.65 J	0.6 J	1.2 J	1.4 J
Fluorene	50	NE	µg/L	0.36 UF2	0.33 U	0.45 U	1.9 J	1.2 J	3.7 J	1.4 J
Indeno(1,2,3-c,d)pyrene	0.002	NE	µg/L	0.46 UF1F2	0.44 U	0.59 U	0.47 U	0.48 U	**0.65 J**	0.48 U
Naphthalene	10	NE	µg/L	0.75 U	0.7 U	0.95 U	0.77 U	2.4 J	7.4	1.9 J
Phenanthrene	50	NE	µg/L	0.43 UF2	0.41 U	0.55 U	2.7 J	2 J	3.8 J	1.3 J
Pyrene	50	NE	µg/L	0.34 UF2	0.31 U	0.42 U	0.44 J	0.49 J	0.67 J	0.89 J
2-Methylnaphthalene	NE	NE	µg/L	0.59 UF2	0.56 U	0.75 U	0.61 U	0.7 J	1.6 J	0.61 U
Total PAHs	NE	NE	µg/L	ND	ND	ND	9.34 J	9.84 J	24.6	8.53 J
Other SVOCs										
2,4,5-Trichlorophenol	NE	1	µg/L	0.47 UF2	0.44 U	0.6 U	0.48 U	0.49 U	0.47 U	0.49 U
2,4,6-Trichlorophenol	NE	1	µg/L	0.6 UF2	0.57 U	0.76 U	0.62 U	0.62 U	0.6 U	0.62 U
2,4-Dichlorophenol	NE	1	µg/L	0.5 UF2	0.47 U	0.63 U	0.51 U	0.52 U	0.5 U	0.52 U
2,4-Dimethylphenol	50	1	µg/L	0.49 U	0.46 U	0.62 U	5 U	0.71 J	**22**	0.51 U
2,4-Dinitrophenol	10	1	µg/L	2.2 U	2.1 U	2.8 U	2.2 U	2.3 U	2.2 U	2.3 U
2,4-Dinitrotoluene	NE	5	µg/L	0.44 UF2	0.41 U	0.56 U	0.45 U	0.45 U	4.9 U	0.46 U
2,6-Dinitrotoluene	NE	5	µg/L	0.4 UF2	0.37 U	0.5 U	0.4 U	0.41 U	0.39 U	0.41 U
2-Chloronaphthalene	10	NE	µg/L	0.45 UF2	0.43 U	0.57 U	0.46 U	0.47 U	0.45 U	0.47 U
2-Chlorophenol	NE	1	µg/L	0.52 U	0.49 U	0.66 U	0.53 U	0.54 U	0.52 U	0.54 U
2-Methylphenol (o-cresol)	NE	1	µg/L	0.4 UF2	0.37 U	0.5 U	0.93 J	0.41 U	**3.3 J**	0.41 U
2-Nitroaniline	NE	5	µg/L	0.41 UF2	0.39 U	0.52 U	0.42 U	0.43 U	0.41 U	0.43 U
2-Nitrophenol	NE	1	µg/L	0.47 UF2	0.44 U	0.6 U	0.48 U	0.49 U	0.47 U	0.49 U
3,3'-Dichlorobenzidine	NE	5	µg/L	0.4 U	0.37 U	0.5 U	0.4 U	0.41 U	0.39 U	0.41 U
3-Nitroaniline	NE	5	µg/L	0.47 UF2	0.44 U	0.6 U	0.48 U	0.49 U	0.47 U	0.49 U
4,6-Dinitro-2-methylphenol	NE	1	µg/L	2.2 UF2	2 U	2.7 U	2.2 U	2.2 U	2.2 U	2.2 U
4-Bromophenyl phenyl ether	NE	NE	µg/L	0.44 UF2	0.42 U	0.56 U	0.45 U	0.46 U	0.44 U	0.46 U
4-Chloro-3-methylphenol	NE	1	µg/L	0.44 U	0.42 U	0.56 U	0.45 U	0.46 U	0.44 U	0.46 U

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703[(1)] Standard	Units	MW-1 6/11/2015	MW-1 9/21/2015	MW-1 DUP 9/21/2015	MW-1D 6/12/2015	MW-1D 9/22/2015	MW-2S 6/12/2015	MW-2S 9/23/2015
4-Chloroaniline	NE	5	µg/L	0.58 UF1F2	0.55 U	0.73 U	0.59 U	0.6 U	0.58 U	0.6 U
4-Chlorophenyl phenyl ether	NE	NE	µg/L	0.35 UF2	0.32 U	0.44 U	0.35 U	0.36 U	0.34 U	0.36 U
4-Methylphenol	NE	1	µg/L	0.36 UF2	0.33 U	0.45 U	**2.2 J**	0.37 U	0.35 U	0.37 U
4-Nitroaniline	NE	5	µg/L	0.25 UF2	0.23 U	0.31 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Nitrophenol	NE	1	µg/L	1.5 U	1.4 U	1.9 U	1.5 U	1.5 U	1.5 U	1.5 U
Acetophenone	NE	NE	µg/L	0.53 U	0.5 U	0.67 U	0.54 U	0.55 U	3.3 J	0.8 J
Atrazine	NE	7.5	µg/L	0.45 UF2	0.43 U	0.57 U	0.46 U	0.47 U	0.54 J	0.47 U
Benzaldehyde	NE	NE	µg/L	4.9 U	4.6 U	6.2 U	0.27 UJ	5.1 U	4.9 UJ	5.1 U
Benzyl butyl phthalate	50	NE	µg/L	0.41 UF2	0.39 U	0.52 U	0.45 J	0.43 U	0.58 J	0.45 J
Biphenyl (Diphenyl)	NE	5	µg/L	0.65 UF2	0.6 U	0.81 U	0.66 U	0.66 U	0.64 U	0.67 U
bis(2-Chloroethoxy)methane	NE	5	µg/L	0.35 UF2	0.32 U	0.44 U	0.35 U	0.36 U	0.34 U	0.36 U
bis(2-Chloroethyl)ether	NE	1	µg/L	0.4 U	0.37 U	0.5 U	0.4 U	0.41 U	0.39 U	0.41 U
bis(2-Chloroisopropyl)ether	NE	5	µg/L	0.51 UJ	0.48 U	0.65 U	0.52 UJ	0.53 U	0.51 UJ	0.53 U
bis(2-Ethylhexyl)phthalate	NE	5	µg/L	1.8 UJ	4.6 U	6.2 U	1.8 U	5.1 U	1.8 U	5.1 U
Caprolactam	NE	NE	µg/L	2.2 UF1F2	2 U	2.7 U	2.2 U	2.2 U	2.2 U	2.2 U
Carbazole	NE	NE	µg/L	0.3 UF2	0.28 U	0.37 U	1.8 J	1 J	2.4 J	1 J
Dibenzofuran	NE	NE	µg/L	0.5 UF2	0.47 U	0.63 U	0.92 J	0.52 U	1.9 J	0.74 J
Diethyl phthalate	50	NE	µg/L	0.22 UF2	0.2 U	0.27 U	0.22 U	0.22 U	6.3	5.1 U
Dimethyl phthalate	50	NE	µg/L	0.36 UF2	0.33 U	0.45 U	0.36 U	0.37 U	0.35 U	0.37 U
dI-n-Butyl phthalate	NE	50	µg/L	4.9 U	0.29 U	0.39 U	5 U	0.31 U	4.9 U	0.32 U
dI-n-Octyl phthalate	50	NE	µg/L	0.46 UF1F2	0.44 U	0.59 U	0.47 U	0.48 U	0.77 J	0.48 U
Hexachlorobenzene	NE	0.04	µg/L	0.5 UF2	0.47 U	0.63 U	0.51 U	0.52 U	0.5 U	0.52 U
Hexachlorobutadiene	NE	0.5	µg/L	0.67 U	0.63 U	0.85 U	0.69 U	0.69 U	0.67 U	0.69 U
Hexachlorocyclopentadiene	NE	5	µg/L	0.58 U	0.55 U	0.73 U	0.59 U	0.6 U	0.58 U	0.6 U
Hexachloroethane	NE	5	µg/L	0.58 U	0.55 U	0.73 U	0.59 U	0.6 U	0.58 U	0.6 U
Isophorone	50	NE	µg/L	0.42 UF2	0.4 U	0.54 U	0.43 U	0.44 U	0.42 U	0.44 U
Nitrobenzene	NE	0.4	µg/L	0.29 UF2	0.27 U	0.36 U	0.29 U	0.29 U	0.28 U	0.3 U
N-Nitroso-di-n-propylamine	NE	NE	µg/L	0.53 U	0.5 U	0.67 U	0.54 U	0.55 U	0.53 U	0.55 U
N-Nitrosodiphenylamine	50	NE	µg/L	0.5 UF2	0.47 U	0.63 U	1.3 J	0.52 U	0.5 U	0.52 U
Pentachlorophenol	NE	1	µg/L	2.2 U	2 U	2.7 U	2.2 U	2.2 U	2.2 U	2.2 U
Phenol	NE	1	µg/L	0.39 U	0.36 U	0.49 U	1 J	0.4 U	**7.9**	**2.5 J**
Inorganic Constituents										
Cyanide, total	NE	200	µg/L	23 B	26	24	5 U	5 U	40	23
Aluminum	NE	NE	µg/L	71 J	60 U	60 U	3700	1100	100 J	6300
Antimony	NE	3	µg/L	6.8 U	6.8 U	6.8 U	6.8 U	6.8 U	6.8 U	6.8 U
Arsenic	NE	25	µg/L	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	16
Barium	NE	1000	µg/L	80	89	87	200	180	21	63
Beryllium	3	NE	µg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	1.1 J
Cadmium	NE	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Calcium	NE	NE	µg/L	98400 B	113000	110000	133000	120000	432000	245000
Chromium	NE	50	µg/L	1 U	1 U	1 U	4.6	1.9 J	1 U	12
Cobalt	NE	NE	µg/L	0.63 U	0.63 U	0.63 U	1.7 J	0.63 U	0.63 U	5.7
Copper	NE	200	µg/L	1.6 U	1.6 U	1.6 U	5.6 J	2.2 J	1.6 U	14
Iron	NE	300	µg/L	**25200**	**24700**	**23900**	**22800**	**22200**	**26400**	**98900**
Lead	NE	25	µg/L	11	6.4 J	5.5 J	7.2 J	9.7 J	3 U	15
Magnesium	35000	NE	µg/L	10900	11600	11200	**41700**	**39400**	16800	15100

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703[(1)] Standard	Units	MW-1 6/11/2015	MW-1 9/21/2015	MW-1 DUP 9/21/2015	MW-1D 6/12/2015	MW-1D 9/22/2015	MW-2S 6/12/2015	MW-2S 9/23/2015
Manganese	NE	300	µg/L	**890**	**1000**	**970**	**720 B**	**650**	**9300 B**	**3800**
Nickel	NE	100	µg/L	3.1 J	1.6 J	2.2 J	4.8 J	1.9 J	1.5 J	14
Potassium	NE	NE	µg/L	4100	4700	4500	11500	11700	9400	9000
Selenium	NE	10	µg/L	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U
Silver	NE	50	µg/L	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Sodium	NE	20000	µg/L	16500 J	**28300**	**24900**	**266000**	**219000**	**128000**	**85800**
Thallium	0.5	NE	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vanadium	NE	NE	µg/L	1.5 U	1.5 U	1.5 U	7.3	2.6 J	1.5 U	33
Zinc	2000	NE	µg/L	6.4 J	10 U	10 U	13	10 U	4.9 J	58
Mercury	NE	0.7	µg/L	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Pesticides										
4,4'-DDD	NE	0.3	µg/L	0.011 U	0.018 J	0.022 J	0.0088 U	0.0096 U	0.051 U	0.018 U
4,4'-DDE	NE	0.2	µg/L	0.013 U	0.011 U	0.011 U	0.013 NJ	0.012 U	0.048 J	0.023 U
4,4'-DDT	NE	0.2	µg/L	0.013 U	0.049 U	0.048 U	0.011 U	0.012 U	0.043 J	0.022 U
Aldrin	NE	0	µg/L	0.0093 U	0.008 U	0.0078 U	**0.0084 J**	0.0085 U	0.0083 U	0.016 U
alpha Endosulfan (Endosulfan I)	NE	NE	µg/L	0.013 U	0.011 U	0.011 U	0.011 U	0.012 U	0.011 U	0.022 U
beta Endosulfan (Endosulfan II)	NE	NE	µg/L	0.057 U	0.012 U	0.012 U	0.011 U	0.013 U	0.012 U	0.024 U
BHC, alpha	NE	0.01	µg/L	0.057 U	0.0076 U	0.0074 U	0.048 U	0.052 U	**0.012 J**	0.015 U
BHC, beta	NE	0.04	µg/L	0.028 U	0.024 U	0.024 U	0.024 U	0.026 U	0.051 U	0.049 U
BHC, delta	NE	0.04	µg/L	0.011 U	0.013 J	0.0097 U	0.023 J	0.014 J	0.01 U	0.02 U
BHC, gamma (Lindane)	NE	0.05	µg/L	0.0092 U	0.0079 U	0.0077 U	0.048 U	0.011 J	0.021 J	0.016 U
Chlordane, alpha	NE	NE	µg/L	0.02 J	0.015 U	0.014 U	0.014 U	0.015 U	0.015 U	0.029 U
Chlordane, beta	NE	NE	µg/L	0.013 U	0.011 U	0.011 U	0.011 U	0.012 U	0.31	0.022 U
Dieldrin	NE	0.004	µg/L	0.011 U	0.0097 U	0.0095 U	0.0094 U	0.01 U	**0.027 J**	0.019 U
Endosulfan sulfate	NE	NE	µg/L	0.018 U	0.015 U	0.015 U	0.015 U	0.016 U	0.051 U	0.031 U
Endrin	NE	0	µg/L	0.016 U	0.014 U	0.013 U	0.013 U	0.014 U	0.051 U	0.027 U
Endrin aldehyde	NE	5	µg/L	0.019 U	0.049 U	0.024 J	0.016 U	0.017 U	0.051 U	0.032 U
Endrin ketone	NE	5	µg/L	0.014 U	0.049 U	0.048 U	0.011 U	0.052 U	0.012 U	0.099 U
Heptachlor	NE	0.04	µg/L	0.0098 U	0.0084 U	0.0082 U	0.0081 U	0.0089 U	0.051 U	0.017 U
Heptachlor epoxide	NE	0.03	µg/L	0.0085 U	0.0073 U	0.0071 U	0.0071 U	0.0077 U	0.0076 U	0.015 U
Methoxychlor	NE	35	µg/L	0.016 U	0.039 J	0.042 J	0.013 U	0.038	0.051 U	0.079 J
Toxaphene	NE	0.06	µg/L	0.14 U	0.12 U	0.12 U	0.11 U	0.13 U	0.12 U	0.24 U

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703[(1)] Standard	Units	MW-1 6/11/2015	MW-1 9/21/2015	MW-1 DUP 9/21/2015	MW-1D 6/12/2015	MW-1D 9/22/2015	MW-2S 6/12/2015	MW-2S 9/23/2015
Polychlorinated Biphenyls (PCBs)										
Aroclor 1016	NE	0.09	µg/L	0.16 U	0.16 U	0.17 U	0.17 U	0.19 U	0.17 U	0.2 U
Aroclor 1221	NE	0.09	µg/L	0.16 U	0.16 U	0.17 U	0.17 U	0.19 U	0.17 U	0.2 U
Aroclor 1232	NE	0.09	µg/L	0.16 U	0.16 U	0.17 U	0.17 U	0.19 U	0.17 U	0.2 U
Aroclor 1242	NE	0.09	µg/L	0.16 U	0.16 U	0.17 U	0.17 U	0.19 U	0.17 U	0.2 U
Aroclor 1248	NE	0.09	µg/L	0.16 U	0.16 U	0.17 U	0.17 U	0.19 U	0.17 U	0.2 U
Aroclor 1254	NE	0.09	µg/L	0.23 U	0.23 U	0.24 U	0.24 U	0.27 U	0.25 U	0.28 U
Aroclor 1260	NE	0.09	µg/L	0.23 U	0.23 U	0.24 U	0.24 U	0.27 U	0.25 U	0.28 U
Total PCBs	NE	0.09	µg/L	ND	ND	ND	ND	ND	ND	ND

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value show is approximate and may be inaccurate or imprecise.
B - Constituent was found in the blank and the sample.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
F2 - MS/MSD Relative Percent Difference (RPD) exceeds control limits.
^ - Instrument related Quality Control (QC) is outside acceptance limits.

NE - Standard and/or guidance value not established.
ND - Not detected

Boxed and bolded values indicates concentration above New York State Class GA Groundwater Standards or Guidance values.

(1) - Notes applicable to NYS Part 703 Standards:
(a) - Any detected concentration for Benzo(a)pyrene, aldrin, or endrin is considered above the Part 703 Standard.
(b) - The standard for the sum of phenolic compounds is 1 µg/L
(c) - The standard of the sum of PCBs in 0.9 µg/L

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TROY, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703[(1)] Standard	Units	MW-2D 6/11/2015	MW-2D DUP 6/11/2015	MW-2D 9/23/2015	MW-3S 6/12/2015	MW-3S 9/23/2015	MW-4 6/12/2015	MW-4 9/21/2015
Volatile Organic Compounds (VOCs)										
BTEX										
Benzene	NE	1	µg/L	**10**	**10**	**4.9**	**8900 J**	**7500**	0.41 U	0.41 U
Toluene	NE	5	µg/L	2.7	2.9	0.51 U	**1300**	**260**	0.51 U	0.51 U
Ethylbenzene	NE	5	µg/L	0.74 U	0.74 U	0.74 U	**21**	74 U	0.74 U	0.74 U
Xylenes, total	NE	5	µg/L	1.3 J	1.4 J	0.66 U	**340**	**160 J**	0.66 U	0.66 U
Total BTEX	NE	NE		14	14.3	4.9	10561	7920	ND	ND
Other VOCs										
1,1,1-Trichloroethane	NE	5	µg/L	0.82 U	0.82 U	0.82 U	16 U	82 U	0.82 U	0.82 U
1,1,2,2-Tetrachloroethane	NE	5	µg/L	0.21 U	0.21 U	0.21 U	4.2 U	21 U	0.21 U	0.21 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NE	5	µg/L	0.31 U	0.31 U	0.31 U	6.2 U	31 U	0.31 U	0.31 U
1,1,2-Trichloroethane	NE	1	µg/L	0.23 U	0.23 U	0.23 U	4.6 U	23 U	0.23 U	0.23 U
1,1-Dichloroethane	NE	5	µg/L	0.38 U	0.38 U	0.38 U	7.6 U	38 U	0.38 U	0.38 U
1,1-Dichloroethene	NE	5	µg/L	0.29 U	0.29 U	0.29 U	5.8 U	29 U	0.29 U	0.29 U
1,2,4-Trichlorobenzene	10	5	µg/L	0.41 U	0.41 U	0.41 U	8.2 U	41 U	0.41 U	0.41 U
1,2-Dibromo-3-chloropropane (DBCP)	NE	0.04	µg/L	0.39 U	0.39 U	0.39 U	7.8 U	39 U	0.39 U	0.39 U
1,2-Dibromoethane (EDB)	NE	0.0006	µg/L	0.73 U	0.73 U	0.73 U	15 U	73 U	0.73 U	0.73 U
1,2-Dichlorobenzene	NE	3	µg/L	0.79 U	0.79 U	0.79 U	16 U	79 U	0.79 U	0.79 U
1,2-Dichloroethane	NE	0.6	µg/L	0.21 U	0.21 U	0.21 U	4.2 U	21 U	0.21 U	0.21 U
1,2-Dichloropropane	NE	1	µg/L	0.72 U	0.72 U	0.72 U	14 U	72 U	0.72 U	0.72 U
1,3-Dichlorobenzene	NE	3	µg/L	0.78 U	0.78 U	0.78 U	16 U	78 U	0.78 U	0.78 U
1,4-Dichlorobenzene	NE	3	µg/L	0.84 U	0.84 U	0.84 U	17 U	84 U	0.84 U	0.84 U
2-Butanone (MEK)	50	NE	µg/L	1.3 U	1.3 U	1.3 U	26 U	130 U	1.3 U	1.3 U
2-Hexanone	50	NE	µg/L	1.2 U	1.2 U	1.2 U	25 U	120 U	1.2 U	1.2 U
4-Methyl-2-pentanone (MIBK)	NE	NE	µg/L	2.1 U	2.1 U	2.1 U	42 U	210 U	2.1 U	2.1 U
Acetone	50	NE	µg/L	3 U	3 U	3 U	60 U	300 U	3 U	3 U
Bromodichloromethane	50	NE	µg/L	0.39 U	0.39 U	0.39 U	7.8 U	39 U	0.39 U	0.39 U
Bromoform	50	NE	µg/L	0.26 U	0.26 U	0.26 U	5.2 U	26 U	0.26 U	0.26 U
Bromomethane	NE	5	µg/L	0.69 U	0.69 U	0.69 U	14 U	69 U	0.69 U	0.69 U
Carbon disulfide	60	60	µg/L	0.19 U	0.19 U	0.19 U	7.3 J	19 U	0.5 J	0.19 U
Carbon tetrachloride	NE	5	µg/L	0.27 U	0.27 U	0.27 U	5.4 U	27 U	0.27 U	0.27 U
Chlorobenzene	NE	5	µg/L	0.75 U	0.75 U	0.75 U	15 U	75 U	0.75 U	0.75 U
Chloroethane	NE	5	µg/L	0.32 U	0.32 U	0.32 U	6.4 U	32 U	0.32 U	0.32 U
Chloroform	NE	7	µg/L	0.34 J	0.36 J	0.34 U	6.8 U	34 U	0.34 U	0.34 U
Chloromethane	NE	5	µg/L	0.35 U	0.35 U	0.35 U	7 U	35 U	0.35 U	0.35 U
cis-1,2-Dichloroethene	NE	5	µg/L	0.81 U	0.81 U	0.81 U	16 U	81 U	0.81 U	0.81 U
cis-1,3-Dichloropropene	NE	0.4	µg/L	0.36 U	0.36 U	0.36 U	7.2 U	36 U	0.36 U	0.36 U
Cyclohexane	NE	NE	µg/L	0.18 U	0.18 U	0.18 U	3.6 U	18 U	0.18 U	0.18 U
Dibromochloromethane	50	NE	µg/L	0.32 U	0.32 U	0.32 U	6.4 U	32 U	0.32 U	0.32 U
Dichlorodifluoromethane (Freon 12)	NE	5	µg/L	0.68 U	0.68 U	0.68 U	14 U	68 U	0.68 U	0.68 U
Isopropylbenzene (Cumene)	NE	5	µg/L	0.8 J	0.82 J	0.79 U	**47**	79 U	0.79 U	0.79 U
Methyl acetate	NE	NE	µg/L	0.5 U	0.5 U	1.3 U	10 U	130 U	0.5 U	1.3 U
Methylcyclohexane	NE	NE	µg/L	0.16 U	0.16 U	0.16 U	3.2 U	16 U	0.16 U	0.16 U
Methylene chloride	NE	5	µg/L	0.44 U	0.44 U	0.44 U	8.8 U	44 U	0.44 U	0.44 U
Styrene	NE	5	µg/L	0.73 U	0.73 U	0.73 U	15 U	73 U	0.73 U	0.73 U

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TROY, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703[(1)] Standard	Units	MW-2D 6/11/2015	MW-2D DUP 6/11/2015	MW-2D 9/23/2015	MW-3S 6/12/2015	MW-3S 9/23/2015	MW-4 6/12/2015	MW-4 9/21/2015
tert-Butyl methyl ether (MTBE)	10	NE	µg/L	0.16 U	0.16 U	0.16 U	3.2 U	16 U	0.16 U	0.16 U
Tetrachloroethene (PCE)	NE	5	µg/L	0.36 U	0.36 U	0.36 U	7.2 U	36 U	0.36 U	0.36 U
trans-1,2-Dichloroethene	NE	5	µg/L	0.9 U	0.9 U	0.9 U	18 U	90 U	0.9 U	0.9 U
trans-1,3-Dichloropropene	NE	0.4	µg/L	0.37 U	0.37 U	0.37 U	7.4 U	37 U	0.37 U	0.37 U
Trichloroethene (TCE)	NE	5	µg/L	0.46 U	0.46 U	0.46 U	9.2 U	46 U	0.46 U	0.46 U
Trichlorofluoromethane (Freon 11)	NE	5	µg/L	0.88 U	0.88 U	0.88 U	18 U	88 U	0.88 U	0.88 U
Vinyl chloride	NE	2	µg/L	0.9 U	0.9 U	0.9 U	18 U	90 U	0.9 U	0.9 U
Semi-Volatile Organic Compounds (SVOCs)										
Polycyclic Aromatic Hydrocarbons (PAHs)										
Acenaphthene	20	NE	µg/L	1 J	0.84 J	1.1 J	2.5 J	0.46 U	0.4 U	0.38 U
Acenaphthylene	NE	NE	µg/L	0.5 J	0.41 U	0.41 U	0.36 U	0.43 U	0.37 U	0.35 U
Anthracene	50	NE	µg/L	0.49 J	0.37 J	0.3 U	0.26 U	0.32 U	0.27 U	0.26 U
Benzo(a)anthracene	0.002	NE	µg/L	0.38 U	0.39 U	0.38 U	0.34 U	0.41 U	0.35 U	0.33 U
Benzo(a)pyrene	NE	0	µg/L	0.49 U	0.51 U	0.5 U	0.44 U	0.53 U	0.46 U	0.43 U
Benzo(b)fluoranthene	0.002	NE	µg/L	0.36 U	0.37 U	0.36 U	0.32 U	**0.47 J**	0.33 U	0.31 U
Benzo(g,h,i)perylene	NE	NE	µg/L	0.37 U	0.38 UJ	0.37 U	0.33 U	0.39 U	0.34 U	0.32 U
Benzo(k)fluoranthene	0.002	NE	µg/L	0.76 U	0.8 U	0.78 U	0.69 U	0.82 U	0.71 U	0.67 U
Chrysene	0.002	NE	µg/L	0.34 U	0.36 U	0.35 U	0.31 U	0.37 U	0.32 U	0.3 U
Dibenz(a,h)anthracene	NE	NE	µg/L	0.44 U	0.46 UJ	0.45 U	0.4 U	0.47 U	0.41 U	0.38 U
Fluoranthene	50	NE	µg/L	0.51 J	0.48 J	0.58 J	0.6 J	0.75 J	0.39 U	0.37 U
Fluorene	50	NE	µg/L	1.3 J	0.86 J	0.49 J	0.34 U	0.41 U	0.35 U	0.33 U
Indeno(1,2,3-c,d)pyrene	0.002	NE	µg/L	0.49 U	0.51 UJ	0.5 U	0.44 U	0.53 U	0.46 U	0.43 U
Naphthalene	10	NE	µg/L	4.6 J	0.83 U	1 J	0.72 U	0.86 U	0.74 U	0.7 U
Phenanthrene	50	NE	µg/L	2.2 J	1.3 J	1 J	0.42 U	0.5 U	0.43 U	0.4 U
Pyrene	50	NE	µg/L	0.36 U	0.37 U	0.36 U	0.64 J	0.82 J	0.33 U	0.31 U
2-Methylnaphthalene	NE	NE	µg/L	0.92 J	0.65 U	0.64 U	0.57 U	0.68 U	0.59 U	0.55 U
Total PAHs	NE	NE	µg/L	11.52 J	3.85 J	4.17 J	3.74 J	2.04 J	ND	ND
Other SVOCs										
2,4,5-Trichlorophenol	NE	1	µg/L	0.5 U	0.52 U	0.51 U	0.45 U	0.54 U	0.47 U	0.44 U
2,4,6-Trichlorophenol	NE	1	µg/L	0.64 U	0.67 U	0.65 U	0.58 U	0.69 U	0.6 U	0.56 U
2,4-Dichlorophenol	NE	1	µg/L	0.53 U	0.56 U	0.54 U	0.48 U	0.57 U	0.5 U	0.47 U
2,4-Dimethylphenol	50	1	µg/L	0.52 U	0.55 U	0.53 U	**45**	**21**	0.49 U	0.46 U
2,4-Dinitrophenol	10	1	µg/L	2.3 U	2.4 U	2.4 U	2.1 U	2.5 U	2.2 U	2 U
2,4-Dinitrotoluene	NE	5	µg/L	0.47 U	0.49 U	0.48 U	0.42 U	0.5 U	0.44 U	0.41 U
2,6-Dinitrotoluene	NE	5	µg/L	0.42 U	0.44 U	0.43 U	0.38 U	0.45 U	0.39 U	0.37 U
2-Chloronaphthalene	10	NE	µg/L	0.48 U	0.5 U	0.49 U	0.43 U	0.52 U	0.45 U	0.42 U
2-Chlorophenol	NE	1	µg/L	0.55 U	0.58 U	0.57 U	0.5 U	0.6 U	0.52 U	0.49 U
2-Methylphenol (o-cresol)	NE	1	µg/L	0.42 U	0.44 U	0.43 U	**57**	**16**	0.39 U	0.37 U
2-Nitroaniline	NE	5	µg/L	0.44 U	0.46 U	0.45 U	0.4 UF1	0.47 U	0.41 U	0.38 U
2-Nitrophenol	NE	1	µg/L	0.5 U	0.52 U	0.51 U	0.45 U	0.54 U	0.47 U	0.44 U
3,3'-Dichlorobenzidine	NE	5	µg/L	0.42 U	0.44 U	0.43 U	0.38 U	0.45 U	0.39 U	0.37 U
3-Nitroaniline	NE	5	µg/L	0.5 U	0.52 U	0.51 U	0.45 U	0.54 U	0.47 U	0.44 U
4,6-Dinitro-2-methylphenol	NE	1	µg/L	2.3 U	2.4 UJ	2.3 U	2.1 U	2.5 U	2.2 U	2 U
4-Bromophenyl phenyl ether	NE	NE	µg/L	0.47 U	0.49 U	0.48 U	0.43 U	0.51 U	0.44 U	0.41 U
4-Chloro-3-methylphenol	NE	1	µg/L	0.47 U	0.49 U	0.48 U	0.43 U	0.51 U	0.44 U	0.41 U

TABLE 8
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TROY, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703[(1)] Standard	Units	MW-2D 6/11/2015	MW-2D DUP 6/11/2015	MW-2D 9/23/2015	MW-3S 6/12/2015	MW-3S 9/23/2015	MW-4 6/12/2015	MW-4 9/21/2015
4-Chloroaniline	NE	5	µg/L	0.62 U	0.64 U	0.63 U	0.56 U	0.66 U	0.58 U	0.54 U
4-Chlorophenyl phenyl ether	NE	NE	µg/L	0.37 U	0.38 U	0.37 U	0.33 U	0.39 U	0.34 U	0.32 U
4-Methylphenol	NE	1	µg/L	0.72 J	**5.1 J**	0.38 U	**29 F1**	**10 J**	0.35 U	0.33 U
4-Nitroaniline	NE	5	µg/L	0.26 U	0.27 U	0.27 U	0.24 UF1	0.28 U	0.24 U	0.23 U
4-Nitrophenol	NE	1	µg/L	1.6 U	1.7 U	1.6 U	1.4 U	1.7 U	1.5 U	1.4 U
Acetophenone	NE	NE	µg/L	0.56 U	0.59 U	0.58 U	25	2.2 J	0.53 U	0.49 U
Atrazine	NE	7.5	µg/L	0.48 U	0.5 U	0.49 U	0.43 U	0.52 U	0.45 U	0.42 U
Benzaldehyde	NE	NE	µg/L	5.2 U	0.29 UJ	5.3 U	0.25 UJ	0.3 U	4.9 UJ	4.6 U
Benzyl butyl phthalate	50	NE	µg/L	0.44 U	0.46 U	0.45 U	4.7 U	0.47 U	0.41 U	0.38 U
Biphenyl (Diphenyl)	NE	5	µg/L	0.68 U	0.71 U	0.7 U	0.62 U	0.73 U	0.64 U	0.6 U
bis(2-Chloroethoxy)methane	NE	5	µg/L	0.37 U	0.38 U	0.37 U	0.33 U	0.39 U	0.34 U	0.32 U
bis(2-Chloroethyl)ether	NE	1	µg/L	0.42 U	0.44 U	0.43 U	0.38 U	0.45 U	0.39 U	0.37 U
bis(2-Chloroisopropyl)ether	NE	5	µg/L	0.54 UJ	0.57 U	0.55 U	0.49 UJ	0.59 U	0.51 UJ	0.48 U
bis(2-Ethylhexyl)phthalate	NE	5	µg/L	1.9 U	2 U	5.3 U	1.7 UF2	5.6 U	1.8 U	4.6 U
Caprolactam	NE	NE	µg/L	2.3 U	2.4 U	2.3 U	2.1 U	2.5 U	2.2 U	2 U
Carbazole	NE	NE	µg/L	0.95 J	0.91 J	0.41 J	0.28 U	0.46 J	0.29 U	0.27 U
Dibenzofuran	NE	NE	µg/L	0.71 J	0.56 U	0.54 U	0.48 U	0.57 U	0.5 U	0.47 U
Diethyl phthalate	50	NE	µg/L	0.23 U	0.24 U	0.23 U	0.21 U	5.6 U	0.22 U	0.2 U
Dimethyl phthalate	50	NE	µg/L	0.38 U	0.39 U	0.38 U	0.34 U	0.41 U	0.35 U	0.33 U
dI-n-Butyl phthalate	NE	50	µg/L	0.32 U	0.34 U	0.33 U	0.29 U	0.35 U	4.9 U	0.28 U
dI-n-Octyl phthalate	50	NE	µg/L	0.49 U	0.51 U	0.5 U	0.44 U	0.53 U	0.46 U	0.43 U
Hexachlorobenzene	NE	0.04	µg/L	0.53 U	0.56 U	0.54 U	0.48 U	0.57 U	0.5 U	0.47 U
Hexachlorobutadiene	NE	0.5	µg/L	0.71 U	0.74 U	0.73 U	0.64 U	0.77 U	0.67 U	0.62 U
Hexachlorocyclopentadiene	NE	5	µg/L	0.62 U	0.64 U	0.63 U	0.56 U	0.66 U	0.58 U	0.54 U
Hexachloroethane	NE	5	µg/L	0.62 U	0.64 U	0.63 U	0.56 U	0.66 U	0.58 U	0.54 U
Isophorone	50	NE	µg/L	0.45 U	0.47 U	0.46 U	0.41 U	0.48 U	0.42 U	0.39 U
Nitrobenzene	NE	0.4	µg/L	0.3 U	0.32 U	0.31 U	0.27 U	0.33 U	0.28 U	0.27 U
N-Nitroso-di-n-propylamine	NE	NE	µg/L	0.56 U	0.59 U	0.58 U	0.51 U	0.61 U	0.53 U	0.49 U
N-Nitrosodiphenylamine	50	NE	µg/L	0.53 U	0.56 U	0.54 U	0.48 U	0.57 U	0.5 U	0.47 U
Pentachlorophenol	NE	1	µg/L	2.3 U	2.4 UJ	2.3 U	2.1 U	2.5 U	2.2 U	2 U
Phenol	NE	1	µg/L	0.41 U	**2.2 J**	0.42 U	**56 F1**	**430**	0.38 U	0.36 U
Inorganic Constituents										
Cyanide, total	NE	200	µg/L	12	14	14	130 B	130	5 U	7.2 J
Aluminum	NE	NE	µg/L	850	690	5400	130 J	60 U	140 J	73 J
Antimony	NE	3	µg/L	6.8 U	6.8 U	6.8 U	6.8 U	6.8 U	6.8 U	6.8 U
Arsenic	NE	25	µg/L	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U
Barium	NE	1000	µg/L	180	170	170	1.7 J	2.5	73	51
Beryllium	3	NE	µg/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Cadmium	NE	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Calcium	NE	NE	µg/L	129000 B	127000 B	120000	57400	55000	171000	129000
Chromium	NE	50	µg/L	1.1 J	1.4 J	7.1	1 U	1 U	1.1 J	1.9 J
Cobalt	NE	NE	µg/L	0.63 U	0.63 U	2.7 J	1.9 J	0.63 U	0.63 U	0.63 U
Copper	NE	200	µg/L	1.6 U	1.6 U	6.7 J	1.6 U	1.6 U	1.6 U	1.6 U
Iron	NE	300	µg/L	**21200**	**20900**	**29200**	**40800**	**26100**	**460**	170
Lead	NE	25	µg/L	14	11	3 U	3 U	3 U	3 U	4.1 J
Magnesium	35000	NE	µg/L	21800	21400	21100	6700	7600	33900	25600

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703[(1)] Standard	Units	MW-2D 6/11/2015	MW-2D DUP 6/11/2015	MW-2D 9/23/2015	MW-3S 6/12/2015	MW-3S 9/23/2015	MW-4 6/12/2015	MW-4 9/21/2015
Manganese	NE	300	µg/L	**730**	**700**	**640**	**720 B**	**650**	**470 B**	120
Nickel	NE	100	µg/L	3.2 J	2.5 J	5.7 J	5.4 J	2.2 J	2.4 J	1.3 U
Potassium	NE	NE	µg/L	10300	10200	11900	2700	4200	8600	8200
Selenium	NE	10	µg/L	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U
Silver	NE	50	µg/L	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Sodium	NE	20000	µg/L	**281000**	**278000**	**266000**	7900	8800	**535000**	**490000**
Thallium	0.5	NE	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vanadium	NE	NE	µg/L	2.1 J	1.5 U	9.2	1.5 U	1.5 U	1.5 U	1.5 U
Zinc	2000	NE	µg/L	8.3 J	4.3 J	21	54	7.1 J	13	10 U
Mercury	NE	0.7	µg/L	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Pesticides										
4,4'-DDD	NE	0.3	µg/L	0.0088 U	0.0092 U	0.011 U	0.02 J	0.0096 U	0.0089 UF2	0.0096 U
4,4'-DDE	NE	0.2	µg/L	0.011 U	0.012 U	0.013 U	0.011 U	0.012 U	0.011 J	0.012 U
4,4'-DDT	NE	0.2	µg/L	0.01 U	0.011 U	0.058 U	0.021 J	0.012 U	0.011 UF2	0.012 U
Aldrin	NE	0	µg/L	0.0077 U	0.0081 U	0.0094 U	0.048 U	0.0085 U	0.0078 UF2	0.0085 U
alpha Endosulfan (Endosulfan I)	NE	NE	µg/L	0.01 U	0.011 U	0.013 U	0.01 U	0.012 U	0.011 UF2	0.012 U
beta Endosulfan (Endosulfan II)	NE	NE	µg/L	0.011 U	0.012 U	0.014 U	0.011 U	0.013 U	0.012 UF2	0.013 U
BHC, alpha	NE	0.01	µg/L	0.0073 U	0.0077 U	0.009 U	0.097 U	**0.018 J**	0.0074 UF2	0.0081 U
BHC, beta	NE	0.04	µg/L	0.024 U	0.025 U	0.029 U	0.024 U	0.026 U	0.024 U	0.026 U
BHC, delta	NE	0.04	µg/L	0.0095 U	0.01 U	0.012 U	0.059 U	0.011 J	0.0096 UF2	0.01 U
BHC, gamma (Lindane)	NE	0.05	µg/L	0.0076 U	0.008 U	0.0093 U	0.0076 U	0.0084 U	0.0077 UF2	0.0084 U
Chlordane, alpha	NE	NE	µg/L	0.014 U	0.015 U	0.017 U	0.048 U	0.016 U	0.014 UF2	0.015 U
Chlordane, beta	NE	NE	µg/L	0.01 U	0.011 U	0.013 U	0.048 U	0.012 U	0.048 U	0.012 U
Dieldrin	NE	0.004	µg/L	0.0093 U	0.0098 U	0.011 U	0.0093 U	0.01 U	0.0094 UF2	0.01 U
Endosulfan sulfate	NE	NE	µg/L	0.015 U	0.016 U	0.018 U	0.015 U	0.016 U	0.015 UF2	0.016 U
Endrin	NE	0	µg/L	0.013 U	0.014 U	0.016 U	0.048 U	0.014 U	0.013 UF2	0.014 U
Endrin aldehyde	NE	5	µg/L	0.016 U	0.016 U	0.019 U	0.048 U	0.017 U	0.016 UF2	0.017 U
Endrin ketone	NE	5	µg/L	0.011 U	0.012 U	0.058 U	0.011 U	0.013 U	0.012 U	0.013 U
Heptachlor	NE	0.04	µg/L	0.0081 U	0.0085 U	0.012 J	0.048 U	0.0089 U	0.0082 UF2	0.0089 U
Heptachlor epoxide	NE	0.03	µg/L	0.0071 U	0.0074 U	0.0086 U	0.048 U	0.0078 U	0.0071 UF2	0.0077 U
Methoxychlor	NE	35	µg/L	0.013 U	0.014 U	0.048 J	0.013 U	0.047 J	0.014 UF2	0.037 J
Toxaphene	NE	0.06	µg/L	0.11 U	0.12 U	0.14 U	0.11 U	0.13 U	0.12 U	0.13 U

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703[(1)] Standard	Units	MW-2D 6/11/2015	MW-2D DUP 6/11/2015	MW-2D 9/23/2015	MW-3S 6/12/2015	MW-3S 9/23/2015	MW-4 6/12/2015	MW-4 9/21/2015
Polychlorinated Biphenyls (PCBs)										
Aroclor 1016	NE	0.09	µg/L	0.17 U	0.17 U	0.19 U	0.18 U	0.19 U	0.17 U	0.18 U
Aroclor 1221	NE	0.09	µg/L	0.17 U	0.17 U	0.19 U	0.18 U	0.19 U	0.17 U	0.18 U
Aroclor 1232	NE	0.09	µg/L	0.17 U	0.17 U	0.19 U	0.18 U	0.19 U	0.17 U	0.18 U
Aroclor 1242	NE	0.09	µg/L	0.17 U	0.17 U	0.19 U	0.18 U	0.19 U	0.17 U	0.18 U
Aroclor 1248	NE	0.09	µg/L	0.17 U	0.17 U	0.19 U	0.18 U	0.19 U	0.17 U	0.18 U
Aroclor 1254	NE	0.09	µg/L	0.24 U	0.25 U	0.27 U	0.25 U	0.27 U	0.25 U	0.26 U
Aroclor 1260	NE	0.09	µg/L	0.24 U	0.25 U	0.27 U	0.25 U	0.27 U	0.25 U	0.26 U
Total PCBs	NE	0.09	µg/L	ND	ND	ND	ND	ND	ND	ND

Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value show is approximate and may be inaccurate or imprecise.
B - Constituent was found in the blank and the sample.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
F2 - MS/MSD Relative Percent Difference (RPD) exceeds control limits.
^ - Instrument related Quality Control (QC) is outside acceptance limits.

NE - Standard and/or guidance value not established.
ND - Not detected

Boxed and bolded values indicates concentration above New York State Class GA Groundwater Standards or Guidance values.

(1) - Notes applicable to NYS Part 703 Standards:
(a) - Any detected concentration for Benzo(a)pyrene, aldrin, or endrin is considered above the Part 703 Standard.
(b) - The standard for the sum of phenolic compounds is 1 µg/L
(c) - The standard of the sum of PCBs in 0.9 µg/L

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703[(1)] Standard	Units	MW-4S 6/12/2015	MW-4S 9/23/2015	MW-4D 6/10/2015	MW-4D 9/21/2015
Volatile Organic Compounds (VOCs)							
BTEX							
Benzene	NE	1	µg/L	**18**	**4.9**	0.41 U	0.41 U
Toluene	NE	5	µg/L	3.6	0.64 J	0.51 U	0.51 U
Ethylbenzene	NE	5	µg/L	0.74 U	0.74 U	0.74 U	0.74 U
Xylenes, total	NE	5	µg/L	0.72 J	0.66 U	0.66 U	0.66 U
Total BTEX	NE	NE		22.32	5.54	ND	ND
Other VOCs							
1,1,1-Trichloroethane	NE	5	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
1,1,2,2-Tetrachloroethane	NE	5	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NE	5	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
1,1,2-Trichloroethane	NE	1	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
1,1-Dichloroethane	NE	5	µg/L	0.38 U	0.38 U	0.38 U	0.38 U
1,1-Dichloroethene	NE	5	µg/L	0.29 U	0.29 U	0.29 U	0.29 U
1,2,4-Trichlorobenzene	10	5	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
1,2-Dibromo-3-chloropropane (DBCP)	NE	0.04	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
1,2-Dibromoethane (EDB)	NE	0.0006	µg/L	0.73 U	0.73 U	0.73 U	0.73 U
1,2-Dichlorobenzene	NE	3	µg/L	0.79 U	0.79 U	0.79 U	0.79 U
1,2-Dichloroethane	NE	0.6	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	NE	1	µg/L	0.72 U	0.72 U	0.72 U	0.72 U
1,3-Dichlorobenzene	NE	3	µg/L	0.78 U	0.78 U	0.78 U	0.78 U
1,4-Dichlorobenzene	NE	3	µg/L	0.84 U	0.84 U	0.84 U	0.84 U
2-Butanone (MEK)	50	NE	µg/L	1.3 U	1.3 U	1.3 U	1.3 U
2-Hexanone	50	NE	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (MIBK)	NE	NE	µg/L	2.1 U	2.1 U	2.1 U	2.1 U
Acetone	50	NE	µg/L	7.3 J	3 U	6.4 J	3 U
Bromodichloromethane	50	NE	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
Bromoform	50	NE	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Bromomethane	NE	5	µg/L	0.69 U	0.69 U	0.69 U	0.69 U
Carbon disulfide	60	60	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
Carbon tetrachloride	NE	5	µg/L	0.27 U	0.27 U	0.27 U	0.27 U
Chlorobenzene	NE	5	µg/L	0.75 U	0.75 U	0.75 U	0.75 U
Chloroethane	NE	5	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
Chloroform	NE	7	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
Chloromethane	NE	5	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
cis-1,2-Dichloroethene	NE	5	µg/L	0.81 U	0.81 U	0.81 U	0.81 U
cis-1,3-Dichloropropene	NE	0.4	µg/L	0.36 U	0.36 U	0.36 U	0.36 U
Cyclohexane	NE	NE	µg/L	0.18 U	0.18 U	0.18 U	0.18 U
Dibromochloromethane	50	NE	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
Dichlorodifluoromethane (Freon 12)	NE	5	µg/L	0.68 U	0.68 U	0.68 U	0.68 U
Isopropylbenzene (Cumene)	NE	5	µg/L	0.79 U	0.79 U	0.79 U	0.79 U
Methyl acetate	NE	NE	µg/L	0.5 U	1.3 U	0.5 U	1.3 U
Methylcyclohexane	NE	NE	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	NE	5	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
Styrene	NE	5	µg/L	0.73 U	0.73 U	0.73 U	0.73 U

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703[(1)] Standard	Units	MW-4S 6/12/2015	MW-4S 9/23/2015	MW-4D 6/10/2015	MW-4D 9/21/2015
tert-Butyl methyl ether (MTBE)	10	NE	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
Tetrachloroethene (PCE)	NE	5	µg/L	0.36 U	0.36 U	0.36 U	0.36 U
trans-1,2-Dichloroethene	NE	5	µg/L	0.9 U	0.9 U	0.9 U	0.9 U
trans-1,3-Dichloropropene	NE	0.4	µg/L	0.37 U	0.37 U	0.37 U	0.37 U
Trichloroethene (TCE)	NE	5	µg/L	0.46 U	0.46 U	0.46 U	0.46 U
Trichlorofluoromethane (Freon 11)	NE	5	µg/L	0.88 U	0.88 U	0.88 U	0.88 U
Vinyl chloride	NE	2	µg/L	0.9 U	0.9 U	0.9 U	0.9 U
Semi-Volatile Organic Compounds (SVOCs)							
Polycyclic Aromatic Hydrocarbons (PAHs)							
Acenaphthene	20	NE	µg/L	0.39 U	0.42 U	0.45 U	0.4 U
Acenaphthylene	NE	NE	µg/L	0.36 U	0.39 U	0.42 U	0.37 U
Anthracene	50	NE	µg/L	0.27 U	0.29 U	0.31 U	0.27 U
Benzo(a)anthracene	0.002	NE	µg/L	0.34 U	0.37 U	0.4 U	0.35 U
Benzo(a)pyrene	NE	0	µg/L	0.45 U	0.48 U	0.52 U	0.46 U
Benzo(b)fluoranthene	0.002	NE	µg/L	0.32 U	0.35 U	0.38 U	0.33 U
Benzo(g,h,i)perylene	NE	NE	µg/L	0.33 U	0.36 U	0.39 U	0.34 UF1
Benzo(k)fluoranthene	0.002	NE	µg/L	0.7 U	0.75 U	0.81 U	0.71 U
Chrysene	0.002	NE	µg/L	0.31 U	0.34 U	0.36 U	0.32 U
Dibenz(a,h)anthracene	NE	NE	µg/L	0.4 U	0.43 U	0.46 U	0.41 UF2
Fluoranthene	50	NE	µg/L	0.46 J	0.49 J	0.44 U	0.39 U
Fluorene	50	NE	µg/L	0.36 J	0.37 U	0.4 U	0.35 U
Indeno(1,2,3-c,d)pyrene	0.002	NE	µg/L	0.45 U	0.48 U	0.52 U	0.46 UF1F2
Naphthalene	10	NE	µg/L	5	0.85 J	0.84 U	0.74 U
Phenanthrene	50	NE	µg/L	0.86 J	0.59 J	0.49 U	0.43 U
Pyrene	50	NE	µg/L	0.32 U	0.35 U	0.38 U	0.33 U
2-Methylnaphthalene	NE	NE	µg/L	0.57 U	0.62 U	0.66 U	0.58 U
Total PAHs	NE	NE	µg/L	6.68	1.93 J	ND	ND
Other SVOCs							
2,4,5-Trichlorophenol	NE	1	µg/L	0.46 U	0.49 U	0.53 U	0.47 U
2,4,6-Trichlorophenol	NE	1	µg/L	0.58 U	0.63 U	0.67 U	0.59 U
2,4-Dichlorophenol	NE	1	µg/L	0.49 U	0.52 U	0.56 U	0.5 U
2,4-Dimethylphenol	50	1	µg/L	**1.9 J**	0.51 U	0.55 U	0.49 U
2,4-Dinitrophenol	10	1	µg/L	2.1 U	2.3 U	2.5 U	2.2 U
2,4-Dinitrotoluene	NE	5	µg/L	0.43 U	0.46 U	0.49 U	0.43 U
2,6-Dinitrotoluene	NE	5	µg/L	0.38 U	0.41 U	0.44 U	0.39 U
2-Chloronaphthalene	10	NE	µg/L	0.44 U	0.47 U	0.51 U	0.45 U
2-Chlorophenol	NE	1	µg/L	0.51 U	0.54 U	0.58 U	0.51 U
2-Methylphenol (o-cresol)	NE	1	µg/L	**1.1 J**	0.41 U	0.44 U	0.39 U
2-Nitroaniline	NE	5	µg/L	0.4 U	0.43 U	0.46 U	0.41 U
2-Nitrophenol	NE	1	µg/L	0.46 U	0.49 U	0.53 U	0.47 U
3,3'-Dichlorobenzidine	NE	5	µg/L	0.38 U	0.41 U	0.44 U	0.39 U
3-Nitroaniline	NE	5	µg/L	0.46 U	0.49 U	0.53 U	0.47 U
4,6-Dinitro-2-methylphenol	NE	1	µg/L	2.1 U	2.3 U	2.4 U	2.1 U
4-Bromophenyl phenyl ether	NE	NE	µg/L	0.43 U	0.46 U	0.5 U	0.44 U
4-Chloro-3-methylphenol	NE	1	µg/L	0.43 U	0.46 U	0.5 U	0.44 U

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703[(1)] Standard	Units	MW-4S 6/12/2015	MW-4S 9/23/2015	MW-4D 6/10/2015	MW-4D 9/21/2015
4-Chloroaniline	NE	5	µg/L	0.56 U	0.61 U	0.65 U	0.57 U
4-Chlorophenyl phenyl ether	NE	NE	µg/L	0.33 U	0.36 U	0.39 U	0.34 U
4-Methylphenol	NE	1	µg/L	**3 J**	0.37 U	0.4 U	0.35 U
4-Nitroaniline	NE	5	µg/L	0.24 U	0.26 U	0.28 U	0.24 U
4-Nitrophenol	NE	1	µg/L	1.5 U	1.6 U	1.7 U	1.5 U
Acetophenone	NE	NE	µg/L	0.52 U	0.55 U	0.6 U	0.52 U
Atrazine	NE	7.5	µg/L	0.44 U	0.47 U	0.51 U	0.45 U
Benzaldehyde	NE	NE	µg/L	4.8 UJ	5.1 U	0.29 U	4.9 U
Benzyl butyl phthalate	50	NE	µg/L	0.4 U	0.43 U	0.46 U	0.41 U
Biphenyl (Diphenyl)	NE	5	µg/L	0.62 U	0.67 U	0.72 U	0.63 U
bis(2-Chloroethoxy)methane	NE	5	µg/L	0.33 U	0.36 U	0.39 U	0.34 U
bis(2-Chloroethyl)ether	NE	1	µg/L	0.38 U	0.41 U	0.44 U	0.39 U
bis(2-Chloroisopropyl)ether	NE	5	µg/L	0.5 UJ	0.53 U	0.57 UJ	0.5 U
bis(2-Ethylhexyl)phthalate	NE	5	µg/L	1.7 U	5.1 U	2 U	4.9 U
Caprolactam	NE	NE	µg/L	2.1 U	2.3 U	2.4 U	2.1 U
Carbazole	NE	NE	µg/L	0.29 J	0.31 U	0.33 U	0.29 U
Dibenzofuran	NE	NE	µg/L	0.49 U	0.52 U	0.56 U	0.5 U
Diethyl phthalate	50	NE	µg/L	0.21 U	0.23 U	0.24 U	0.21 U
Dimethyl phthalate	50	NE	µg/L	0.34 U	0.37 U	0.4 U	0.35 U
dl-n-Butyl phthalate	NE	50	µg/L	4.8 U	0.32 U	5.5 U	0.3 U
dl-n-Octyl phthalate	50	NE	µg/L	0.45 U	0.48 U	0.52 U	0.46 UF2
Hexachlorobenzene	NE	0.04	µg/L	0.49 U	0.52 U	0.56 U	0.5 U
Hexachlorobutadiene	NE	0.5	µg/L	0.65 U	0.7 U	0.75 U	0.66 U
Hexachlorocyclopentadiene	NE	5	µg/L	0.56 U	0.61 U	0.65 U	0.57 U
Hexachloroethane	NE	5	µg/L	0.56 U	0.61 U	0.65 U	0.57 U
Isophorone	50	NE	µg/L	0.41 U	0.44 U	0.47 U	0.42 U
Nitrobenzene	NE	0.4	µg/L	0.28 U	0.3 U	0.32 U	0.28 U
N-Nitroso-di-n-propylamine	NE	NE	µg/L	0.52 U	0.55 U	0.6 U	0.52 U
N-Nitrosodiphenylamine	50	NE	µg/L	0.49 U	0.52 U	0.56 U	0.5 U
Pentachlorophenol	NE	1	µg/L	2.1 U	2.3 U	2.4 U	2.1 U
Phenol	NE	1	µg/L	**1.3 J**	0.4 U	0.43 U	0.38 U
Inorganic Constituents							
Cyanide, total	NE	200	µg/L	37 B	**560**	14	14 J
Aluminum	NE	NE	µg/L	340	4000	860	5100 J
Antimony	NE	3	µg/L	6.8 U	6.8 U	6.8 U	6.8 U
Arsenic	NE	25	µg/L	5.6 U	6.4 J	5.6 U	5.6 U
Barium	NE	1000	µg/L	120	85	350	170 J
Beryllium	3	NE	µg/L	0.3 U	0.31 J	0.3 U	0.3 U
Cadmium	NE	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U
Calcium	NE	NE	µg/L	240000	215000	122000 B	78700 J
Chromium	NE	50	µg/L	10	16	1.5 J	8.7
Cobalt	NE	NE	µg/L	0.63 U	3.4 J	0.63 U	3.4 J
Copper	NE	200	µg/L	1.6 U	14	1.6 U	8.4 J
Iron	NE	300	µg/L	32 J	**18000**	**6400**	**11300 J**
Lead	NE	25	µg/L	3 U	3.6 J	11	16
Magnesium	35000	NE	µg/L	130 J	13800	34900	24200 J

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703[1] Standard	Units	MW-4S 6/12/2015	MW-4S 9/23/2015	MW-4D 6/10/2015	MW-4D 9/21/2015
Manganese	NE	300	µg/L	3 U	**450**	**540**	**500 J**
Nickel	NE	100	µg/L	5.1 J	11	1.7 J	9.5 J
Potassium	NE	NE	µg/L	15500	9700	21000	18900 F1
Selenium	NE	10	µg/L	8.7 U	8.7 U	8.7 U	8.7 U
Silver	NE	50	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Sodium	NE	20000	µg/L	**21500**	16200	**218000**	**193000 J**
Thallium	0.5	NE	µg/L	10 U	10 U	10 U	10 U
Vanadium	NE	NE	µg/L	1.5 U	13	1.5 U	9.3
Zinc	2000	NE	µg/L	1.5 U	40	5.6 J	28 J
Mercury	NE	0.7	µg/L	0.12 U	0.12 U	0.12 U	0.12 U
Pesticides							
4,4'-DDD	NE	0.3	µg/L	0.009 U	0.0099 U	0.01 U	0.0092 U
4,4'-DDE	NE	0.2	µg/L	0.011 U	0.013 U	0.013 U	0.012 U
4,4'-DDT	NE	0.2	µg/L	0.011 U	0.012 U	0.012 U	0.011 U
Aldrin	NE	0	µg/L	0.0079 U	0.0088 U	0.0089 U	0.0081 U
alpha Endosulfan (Endosulfan I)	NE	NE	µg/L	0.011 U	0.012 U	0.012 U	0.011 UF2
beta Endosulfan (Endosulfan II)	NE	NE	µg/L	0.012 U	0.013 U	0.013 U	0.012 U
BHC, alpha	NE	0.01	µg/L	0.049 U	0.0083 U	0.0085 U	0.0077 U
BHC, beta	NE	0.04	µg/L	0.024 U	0.027 U	0.027 U	0.025 U
BHC, delta	NE	0.04	µg/L	0.0098 U	0.011 U	0.011 U	0.01 UF2
BHC, gamma (Lindane)	NE	0.05	µg/L	0.0078 U	0.0086 U	0.0088 U	0.008 U
Chlordane, alpha	NE	NE	µg/L	0.014 U	0.016 U	0.016 U	0.015 U
Chlordane, beta	NE	NE	µg/L	0.049 U	0.012 U	0.012 U	0.011 U
Dieldrin	NE	0.004	µg/L	0.0096 U	0.011 U	0.011 U	0.0098 U
Endosulfan sulfate	NE	NE	µg/L	0.015 U	0.017 U	0.017 U	0.016 U
Endrin	NE	0	µg/L	0.013 U	0.015 U	0.015 U	0.014 U
Endrin aldehyde	NE	5	µg/L	0.016 U	0.018 U	0.018 U	0.016 U
Endrin ketone	NE	5	µg/L	0.012 U	0.054 U	0.013 U	0.012 U
Heptachlor	NE	0.04	µg/L	0.0083 U	0.0092 U	0.0094 U	0.0085 U
Heptachlor epoxide	NE	0.03	µg/L	**0.21**	0.008 U	0.0082 U	0.0074 U
Methoxychlor	NE	35	µg/L	0.014 J	0.043 J	0.016 U	0.038 JF2
Toxaphene	NE	0.06	µg/L	0.12 U	0.13 U	0.13 U	0.12 U

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703[(1)] Standard	Units	MW-4S 6/12/2015	MW-4S 9/23/2015	MW-4D 6/10/2015	MW-4D 9/21/2015
Polychlorinated Biphenyls (PCBs)							
Aroclor 1016	NE	0.09	µg/L	0.19 U	0.2 U	0.18 U	0.16 U
Aroclor 1221	NE	0.09	µg/L	0.19 U	0.2 U	0.18 U	0.16 U
Aroclor 1232	NE	0.09	µg/L	0.19 U	0.2 U	0.18 U	0.16 U
Aroclor 1242	NE	0.09	µg/L	0.19 U	0.2 U	0.18 U	0.16 U
Aroclor 1248	NE	0.09	µg/L	0.19 U	0.2 U	0.18 U	0.16 U
Aroclor 1254	NE	0.09	µg/L	0.27 U	0.28 U	0.25 U	0.23 U
Aroclor 1260	NE	0.09	µg/L	0.27 U	0.28 U	0.25 U	0.23 U
Total PCBs	NE	0.09	µg/L	ND	ND	ND	ND

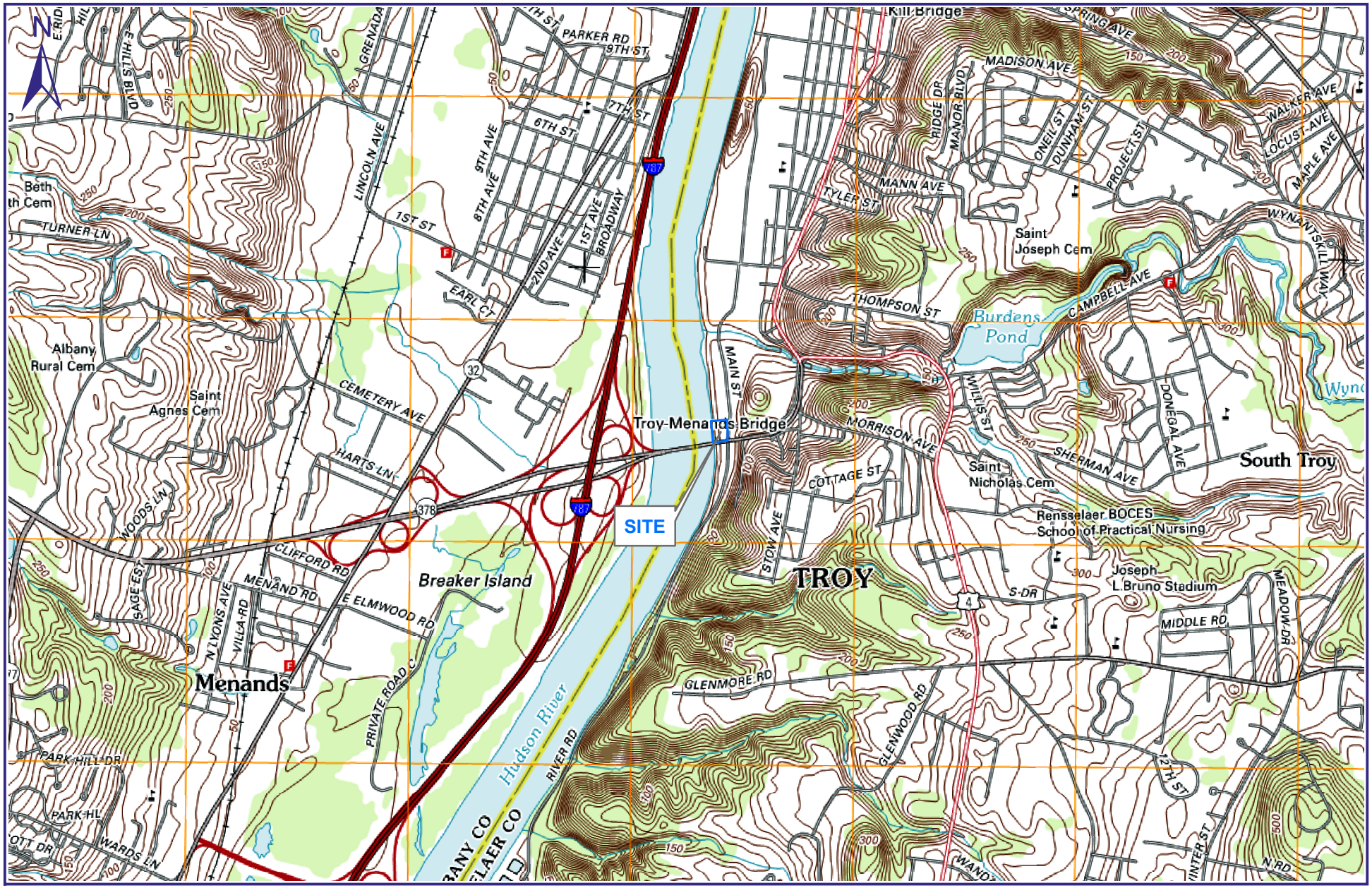
Notes:
U - The analyte was analyzed for, but was not detected. Value shown is representative of the method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the quantitation limit but above the method detection limit.
UJ - The analyte was analyzed for, but was not detected. Value show is approximate and may be inaccurate or imprecise.
B - Constituent was found in the blank and the sample.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
F2 - MS/MSD Relative Percent Difference (RPD) exceeds control limits.
^ - Instrument related Quality Control (QC) is outside acceptance limits.

NE - Standard and/or guidance value not established.
ND - Not detected

Boxed and bolded values indicates concentration above New York State Class GA Groundwater Standards or Guidance values.

(1) - Notes applicable to NYS Part 703 Standards:
(a) - Any detected concentration for Benzo(a)pyrene, aldrin, or endrin is considered above the Part 703 Standard.
(b) - The standard for the sum of phenolic compounds is 1 µg/L
(c) - The standard of the sum of PCBs in 0.9 µg/L

Figures



Author: BFTaylor Path: P:\GIS\National_Grid\Troy\Troy_Area_3\TroyArea3_SiteLoc.mxd 1/6/2016

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FIGURE 1
SITE LOCATION
NATIONAL GRID
TROY (WATER ST.) SITE - AREA 3, TROY, NEW YORK

Source: USGS 7.5 Minute Topographic Map
Troy South Quadrangle (2013)

0 1,000 2,000
Feet

3/2/2016

TROY (WATER ST.) SITE - AREA 2

LOT 111.75-1-1
TROY LOCAL DEVELOPMENT CORPORATION

N

SB-6
FORMER TARVIA TANK
CONCRETE PADS
SB-5
A
SS-8
SB-3
SS-7
SS-1
SS-2
MW-2D
MW-2S
TP-4
LOT 111.75-1-2
RENSSELAER COUNTY
SEWER DISTRICT NO. 1
B'
MW-4
MW-1S
MW-1D
FORMER TAR PRODUCTS
TP-3
FORMER FLUX OIL TANK
(10,000 GALs.)
POST
SB-7
FORMER BRICK SHED
SUBSURFACE VAULT
FORMER TARVIA TANK
SB-2
B
SS-9
SS-10
FORMER
TANK T-41
TP-2
TP-5
WATER STREET
HUDSON RIVER
MW-3D
MW-3S
MW-1
FORMER
TANK T-27
SS-4
SS-3
CONCRETE PAD
SB-4
SB-8
SB-9
SS-11
LOT 111.83-1-1
CHEVRON USA, INC.
SS-12
MW-4S
MW-4D
SB-1
TP-1
TP-1A
TP-1B
CONCRETE BRIDGE PIER
SS-6
SS-5
BOLLARDS
A'
NYS ROUTE 378
TROY-MENANDS BRIDGE

Legend

- Soil Boring
- Monitoring Well
- Surface Soil Sample
- Test Pit
- Gas Line
- Sewer Line
- Suspected Utility
- Metal Anomaly
- EMI-31 Anomaly Demaracation Between Fill Types
- Road
- Property Line
- Chainlink Fence
- Site Boundary
- Historic Chevron USA, Inc. Aboveground Pipe, partially or fully demolished in 2006. Locations and dimensions are approximate; based on Figure 2 from report entitled "Facility Closure Site Investigation Report" (TRC 2005).
- Former Chevron Tank
- Cross-Section Line
- Historic Structures. Locations based on drawing: Map of Plant, Hudson Valley Coke & Products Corp. Troy, N.Y. (Date Unknown).
- Historic Structures. Locations based on drawing: New York Power & Light, Hudson Valley Fuel Plant, Troy, N.Y. (1946)
- Former alignment of shoreline and channel/inlet. Locations are approximate; based on 1855 Barton's Map
- Ground Surface Elevation Contour (ft., NGVD). Contour Interval = 1 ft.

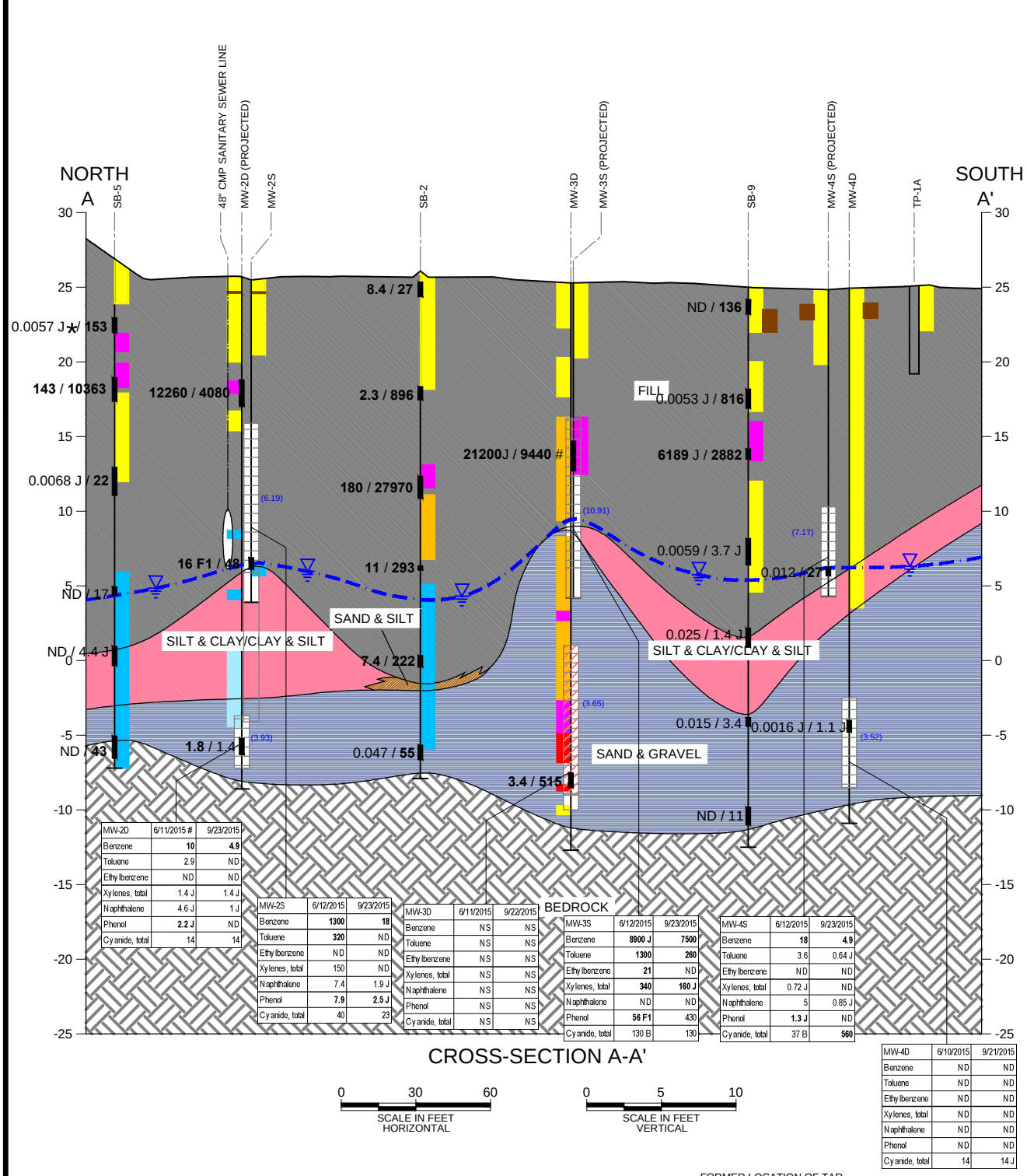
Author: BFTaylor Path: P:\GIS\National_Grid\Troy\Troy_Area_3\TroyArea3_SitePlan_BFT.mxd

Brown AND Caldwell

FIGURE 2
SITE PLAN
NATIONAL GRID
TROY (WATER ST.) SITE - AREA 3, TROY, NEW YORK

Sources: Base map developed based on drawing prepared by CT Male Associates (June 15, 2015) and based on drawing prepared by NAEVA Geophysics, Inc. (April, 2015)

0 15 30 60
Feet



MW-2D	6/11/2015 #	9/23/2015
Benzene	**10**	**4.9**
Toluene	2.9	ND
Ethylbenzene	ND	ND
Xylenes, total	1.4 J	1.4 J
Naphthalene	4.6 J	1 J
Phenol	**2.2 J**	ND
Cyanide, total	14	14

MW-2S	6/12/2015	9/23/2015
Benzene	**1300**	**18**
Toluene	**320**	ND
Ethylbenzene	ND	ND
Xylenes, total	150	ND
Naphthalene	7.4	1.9 J
Phenol	**7.9**	**2.5 J**
Cyanide, total	40	23

MW-3D	6/11/2015	9/22/2015
Benzene	NS	NS
Toluene	NS	NS
Ethylbenzene	NS	NS
Xylenes, total	NS	NS
Naphthalene	NS	NS
Phenol	NS	NS
Cyanide, total	NS	NS

MW-3S	6/12/2015	9/23/2015
Benzene	**8900 J**	**7500**
Toluene	**1300**	**260**
Ethylbenzene	**21**	ND
Xylenes, total	**340**	**160 J**
Naphthalene	ND	ND
Phenol	**56 F1**	430
Cyanide, total	130 B	130

MW-4S	6/12/2015	9/23/2015
Benzene	**18**	**4.9**
Toluene	3.6	0.64 J
Ethylbenzene	ND	ND
Xylenes, total	0.72 J	ND
Naphthalene	5	0.85 J
Phenol	**1.3 J**	ND
Cyanide, total	37 B	**560**

MW-4D	6/10/2015	9/21/2015
Benzene	ND	ND
Toluene	ND	ND
Ethylbenzene	ND	ND
Xylenes, total	ND	ND
Naphthalene	ND	ND
Phenol	ND	ND
Cyanide, total	14	14 J

CROSS-SECTION A-A'

0 30 60
SCALE IN FEET
HORIZONTAL

0 5 10
SCALE IN FEET
VERTICAL

LEGEND:

MW-111S — MONITORING WELL / SOIL BORING / TEST PIT IDENTIFICATION AND APPROXIMATE LOCATION

GENERALIZED GROUND SURFACE

0.012 / **27** — TOTAL BTEX/TOTAL PAH(mg/kg) CONCENTRATION WITHIN SAMPLE INTERVAL. BOLD VALUE INDICATES ONE OR MORE CONSTITUENT CONCENTRATIONS ABOVE NYS PART 375 SOIL CLEANUP OBJECTIVES (PROTECTION OF PUBLIC HEALTH-INDUSTRIAL ZONING, PROTECTION OF ECOLOGICAL RESOURCES, AND/OR PROTECTION OF GROUNDWATER)

WELL SCREEN INTERVAL

SUMP

TOTAL DEPTH OF BOREHOLE

FILL

SILT & CLAY/CLAY & SILT

SAND & SILT

SAND & GRAVEL

BEDROCK

MW-2D	6/11/2015 #	9/23/2015
Benzene	**10**	**4.9**
Toluene	2.9	ND
Ethylbenzene	ND	ND
Xylenes, total	1.4 J	1.4 J
Naphthalene	4.6 J	1 J
Phenol	**2.2 J**	ND
Cyanide, total	14	14

GROUNDWATER QUALITY DATA. VALUES REPORTED IN MICROGRAMS PER LITER (ug/L). BOLD VALUE INDICATES THAT ONE OR MORE CONSTITUENTS ARE ABOVE CLASS GA CRITERIA.

WATER TABLE, 6/11/15

(295.21) — WATER ELEVATION, 6/11/15

VISUAL/OLFACTORY IMPACTS (SEE NOTE 3)

TAR SATURATED

COATED MATERIAL, LENSES

HARDENED TAR

BLEBS, GLOBS, SHEEN

STAINING, ODOR

PETROLEUM IMPACTS SATURATION & SHEENS

PETROLEUM IMPACTS STAINING & ODORS

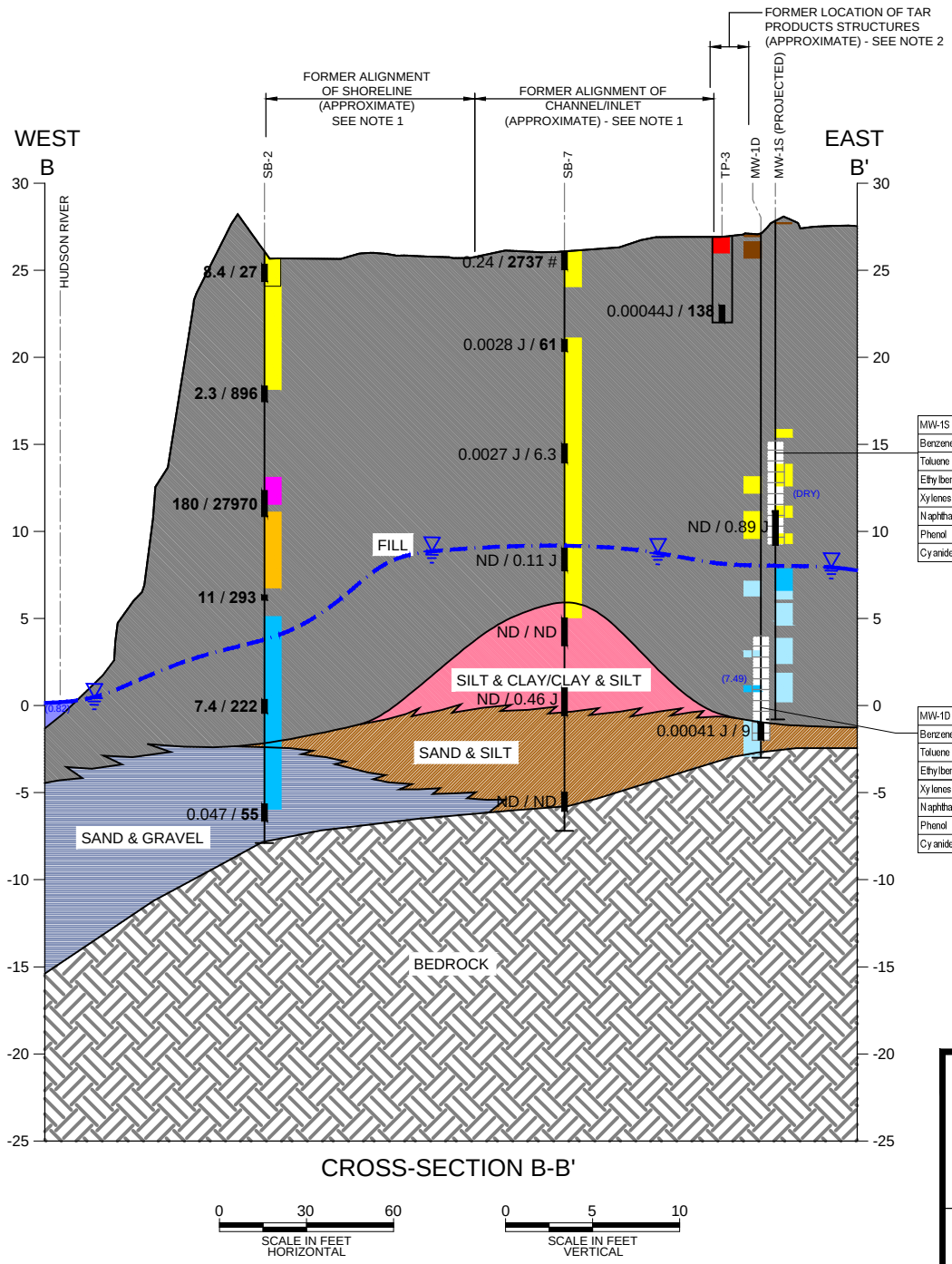
NAPL OBSERVED WITHIN WELL CASING DURING JUNE AND SEPTEMBER 2015 GAUGING EVENT

ABBREVIATIONS:

NS	NOT SAMPLED DUE TO NAPL PRESENCE (MW-3D) OR DUE TO DRY WELL (MW-1S)
ND	NOT DETECTED
J	ESTIMATED CONCENTRATION
F1	MS AND/OR MSD RECOVERY IS OUTSIDE ACCEPTANCE LIMITS
B	CONSTITUENT WAS FOUND IN THE BLANK AND THE SAMPLE
*	LABORATORY CONTROL SAMPLE (LCS) OR LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) IS OUTSIDE ACCEPTANCE LIMITS
#	HIGHEST CONCENTRATION FROM ORIGINAL AND DUPLICATE SAMPLE

NOTES:

1. FORMER ALIGNMENT OF SHORELINE AND CHANNEL/INLET BASED ON 1855 BARTON'S MAP.
2. LOCATION BASED ON DRAWING: NEW YORK POWER & LIGHT, HUDSON VALLEY FUEL PLANT, TROY, N.Y. (1946).
3. NYSDEC'S STANDARD COLORS AND ASSOCIATED DESCRIPTORS FOR REPORTING MGP-RELTATED OR OTHER IMPACTS WERE USED TO DEPICT INTERVALS WHERE IMPACTS WERE OBSERVED.



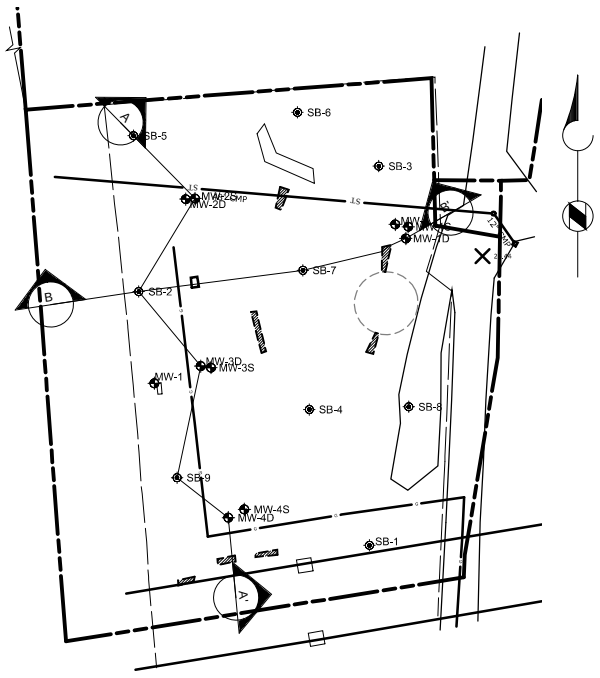
MW-1S	6/11/2015	9/22/2015
Benzene	NS	NS
Toluene	NS	NS
Ethylbenzene	NS	NS
Xylenes, total	NS	NS
Naphthalene	NS	NS
Phenol	NS	NS
Cyanide, total	NS	NS

MW-1D	6/12/2015	9/22/2015
Benzene	ND	ND
Toluene	ND	ND
Ethylbenzene	ND	ND
Xylenes, total	ND	ND
Naphthalene	ND	2.4 J
Phenol	1 J	ND
Cyanide, total	ND	ND

CROSS-SECTION B-B'

0 30 60
SCALE IN FEET
HORIZONTAL

0 5 10
SCALE IN FEET
VERTICAL



SECTION KEY MAP

0 60 120
SCALE IN FEET

FIGURE 3

GEOLOGIC
CROSS-SECTIONS A-A' & B-B'

TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

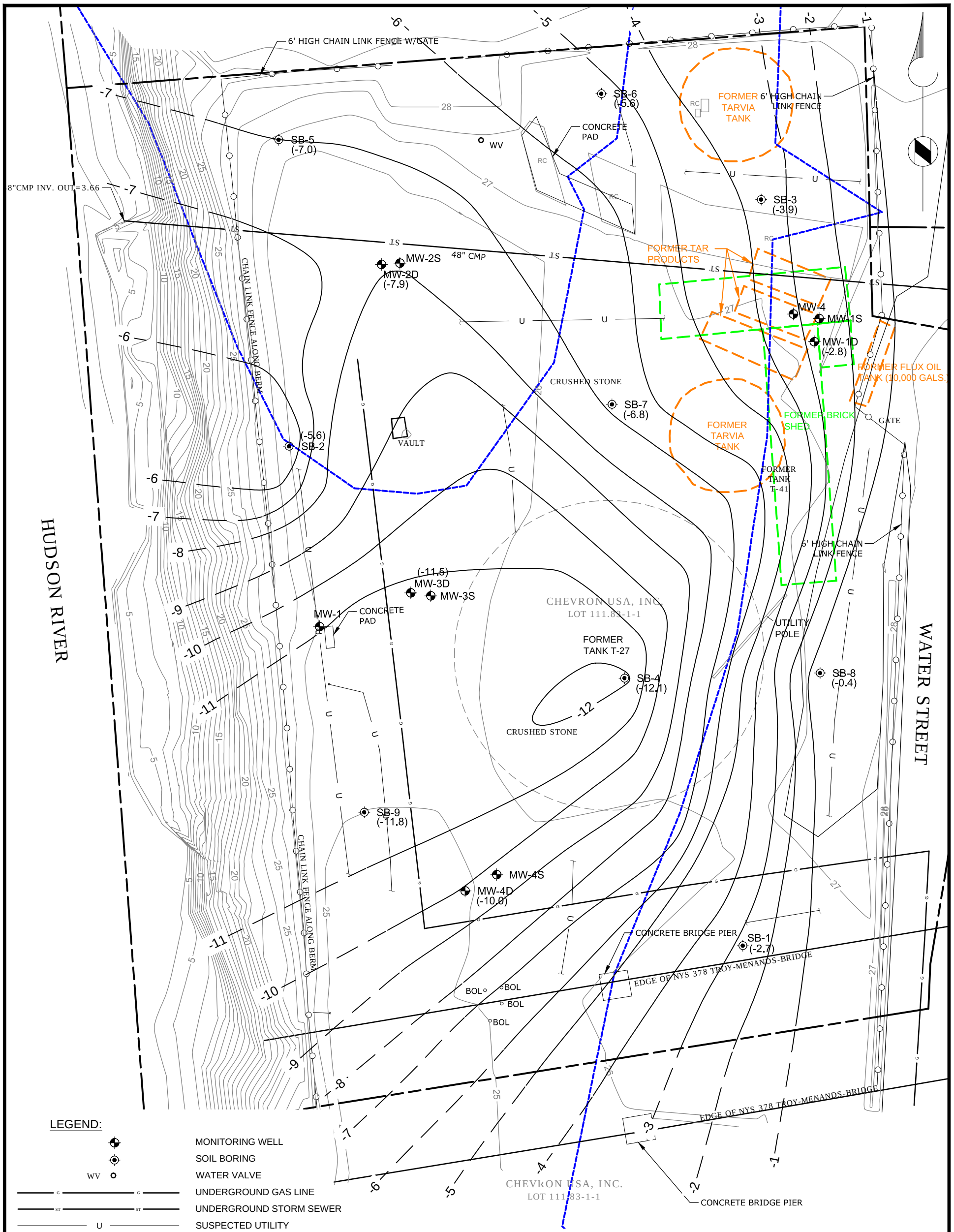
DATE 03/16

PROJECT NUMBER 146094

Brown AND Caldwell

UPPER SADDLE RIVER, NEW JERSEY

P:\National_Grid\Nimo_Troy_Area_3\146094_Troy_Area3_RI_CAD\2-SHEETS\C-CIVIL\146094-FIG-3.dwg



LEGEND:

- MONITORING WELL
- SOIL BORING
- WV — WATER VALVE
- G — UNDERGROUND GAS LINE
- ST — UNDERGROUND STORM SEWER
- U — SUSPECTED UTILITY
- PROPERTY LINE
- CHAINLINK FENCE
- FORMER CHEVRON TANK
- HISTORIC STRUCTURES. LOCATIONS BASED ON DRAWING: MAP OF PLANT, HUDSON VALLEY COKE & PRODUCTS CORP. TROY, N.Y. (DATE UNKNOWN)
- HISTORIC STRUCTURES. LOCATIONS BASED ON DRAWING: NEW YORK POWER & LIGHT, HUDSON VALLEY FUEL PLANT, TROY, N.Y. (1946)
- FORMER ALIGNMENT OF SHORELINE AND CHANNEL/INLET. LOCATIONS ARE APPROXIMATE BASED ON 1855 BARTON'S MAP
- 20 — GROUND SURFACE ELEVATION CONTOUR (FT. NGVD). CONTOUR INTERVAL = 1 FT.
- -3 — TOP OF BEDROCK ELEVATION CONTOUR (FT. NGVD) DASHED WHERE INFERRED
- (-12.1) — TOP OF BEDROCK ELEVATION (FT. NGVD)

0 30 60

SCALE IN FEET

SOURCE:

1. BASE MAP DEVELOPED ON DRAWINGS PREPARED BY NAEVA GEOPHYSICS, INC. (APRIL 28, 2015) AND C.T. MALE ASSOCIATES, P.C. (JUNE 15, 2015).
2. VERTICAL DATUM SHOWN HEREON IS NGVD 29.

FIGURE 4

TOP OF BEDROCK SURFACE CONTOUR MAP

TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

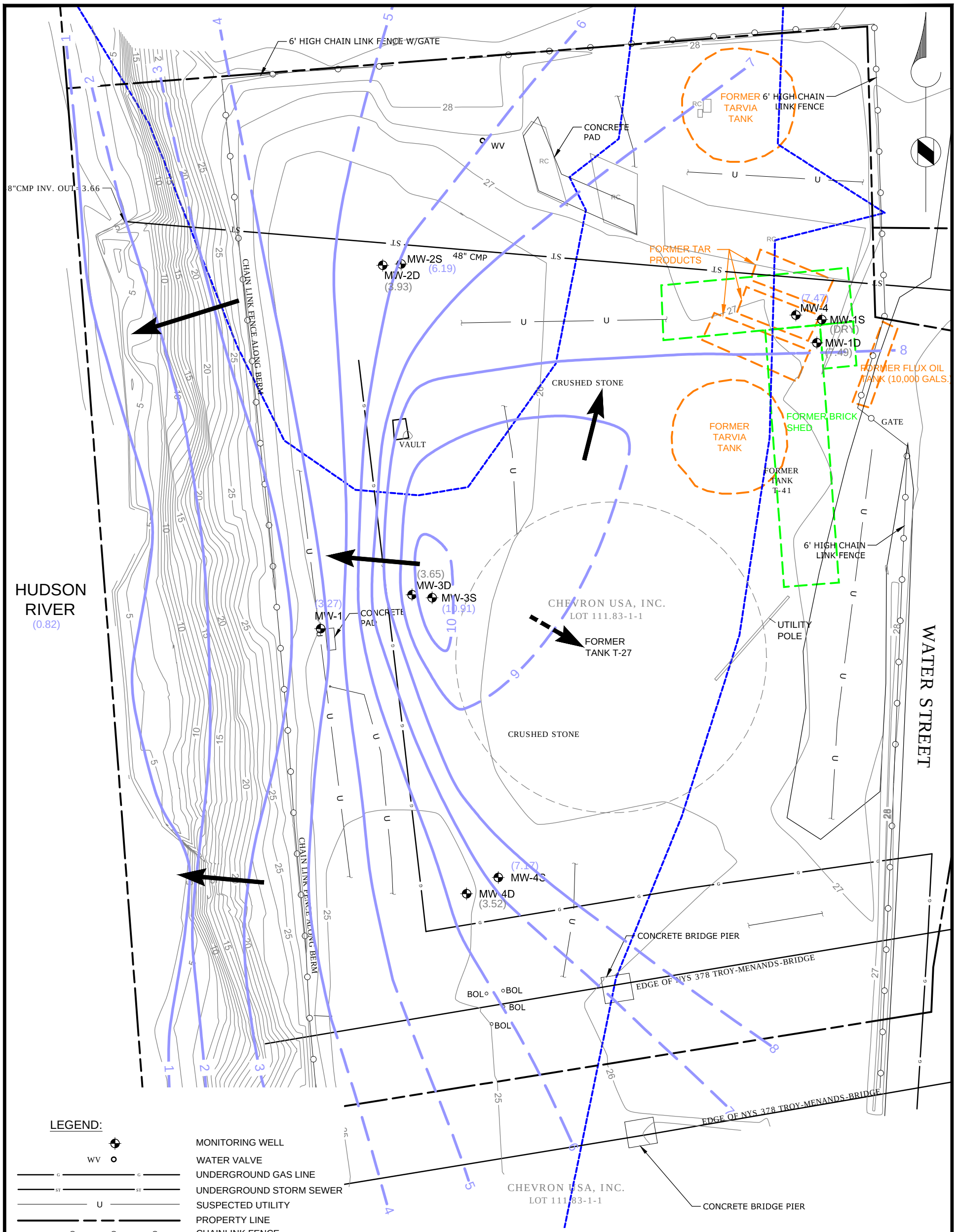
DATE: 03/16

PROJECT NUMBER: 146094

Brown AND Caldwell

UPPER SADDLE RIVER, NEW JERSEY

P:\National_Grid\Nimo_Troy_Area_3\146094_Troy_Area3_RI_CAD\2-SHEETS\C-CIVIL\146094-FIG-4.dwg



P:\National_Grid\Nimo_Troy_Area_3\146094_Troy_Area3_RI_CAD\2-SHEETS\C-CIVIL\146094-FIG-5.dwg

LEGEND:

- MONITORING WELL
- WV — WATER VALVE
- UNDERGROUND GAS LINE
- UNDERGROUND STORM SEWER
- U — SUSPECTED UTILITY
- PROPERTY LINE
- CHAINLINK FENCE
- FORMER CHEVRON TANK
- HISTORIC STRUCTURES. LOCATIONS BASED ON DRAWING: MAP OF PLANT, HUDSON VALLEY COKE & PRODUCTS CORP. TROY, N.Y. (DATE UNKNOWN)
- HISTORIC STRUCTURES. LOCATIONS BASED ON DRAWING: NEW YORK POWER & LIGHT, HUDSON VALLEY FUEL PLANT, TROY, N.Y. (1946)
- FORMER ALIGNMENT OF SHORELINE AND CHANNEL/INLET. LOCATIONS ARE APPROXIMATE BASED ON 1855 BARTON'S MAP
- 20 — GROUND SURFACE ELEVATION CONTOUR (FT. NGVD). CONTOUR INTERVAL = 1 FT.
- 2 — WATER TABLE ELEVATION CONTOUR (FT. NGVD) DASHED WHERE INFERRED
- (3.27) WATER TABLE OR SURFACE WATER ELEVATION (FT. NGVD)
- (3.52) GROUNDWATER ELEVATION (FT. NGVD) FOR WELLS SCREENED BELOW WATER TABLE (DEEPER OVERBURDEN WELLS)
- GENERALIZED DIRECTION OF GROUNDWATER FLOW

0 30 60

SCALE IN FEET

SOURCE:

1. BASE MAP DEVELOPED ON DRAWINGS PREPARED BY NAEVA GEOPHYSICS, INC. (APRIL 28, 2015) AND C.T. MALE ASSOCIATES, P.C. (JUNE 15, 2015).
2. VERTICAL DATUM SHOWN HEREON IS NGVD 29.

FIGURE 5

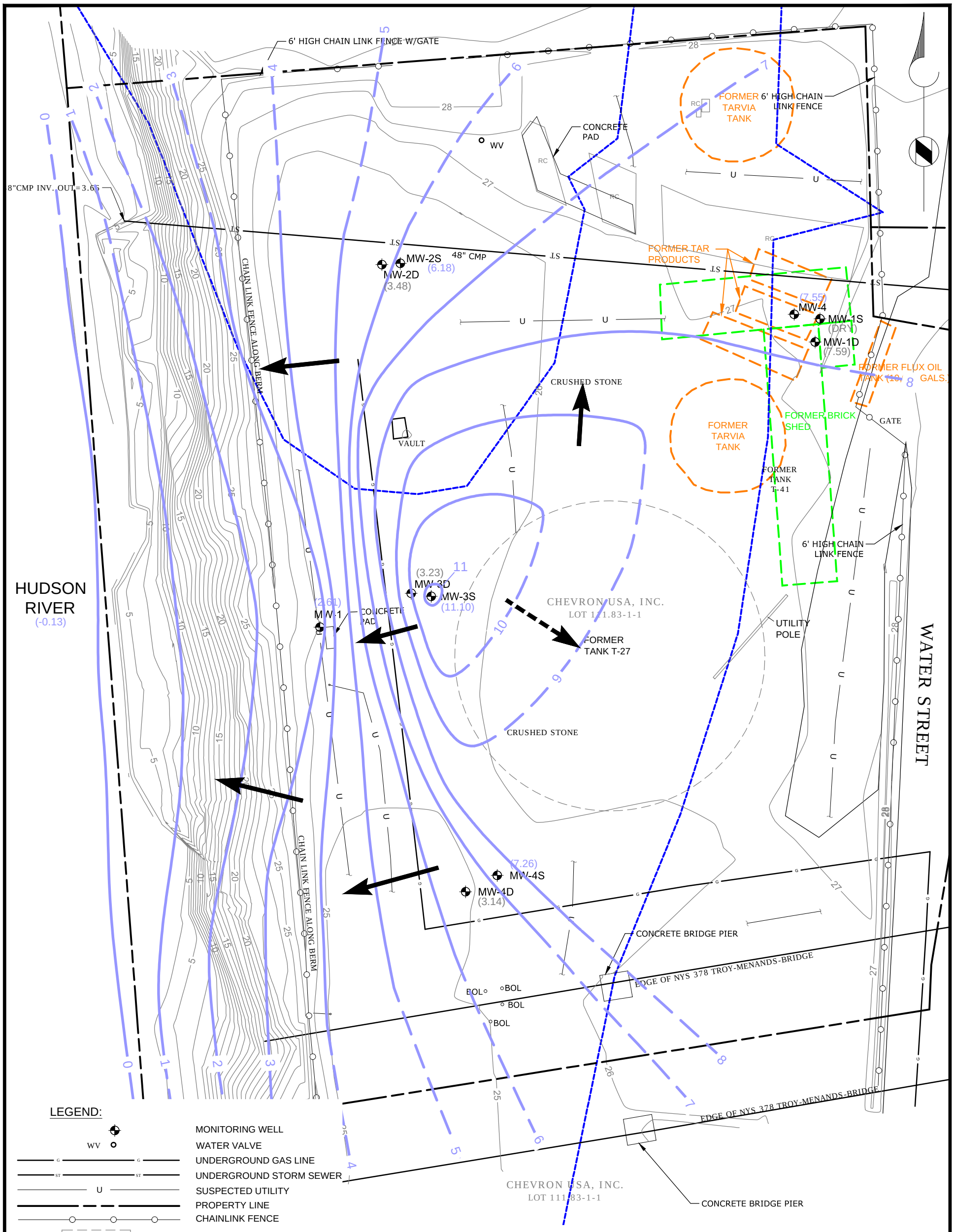
WATER TABLE CONTOUR MAP JUNE 11, 2015

TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

DATE	PROJECT NUMBER
03/16	146094

Brown AND Caldwell

UPPER SADDLE RIVER, NEW JERSEY



LEGEND:

- MONITORING WELL
- WV — WATER VALVE
- G — UNDERGROUND GAS LINE
- ST — UNDERGROUND STORM SEWER
- U — SUSPECTED UTILITY
- PROPERTY LINE
- CHAINLINK FENCE
- FORMER CHEVRON TANK
- HISTORIC STRUCTURES. LOCATIONS BASED ON DRAWING: MAP OF PLANT, HUDSON VALLEY COKE & PRODUCTS CORP. TROY, N.Y. (DATE UNKNOWN)
- HISTORIC STRUCTURES. LOCATIONS BASED ON DRAWING: NEW YORK POWER & LIGHT, HUDSON VALLEY FUEL PLANT, TROY, N.Y. (1946)
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- 20 — GROUND SURFACE ELEVATION CONTOUR (FT. NGVD). CONTOUR INTERVAL = 1 FT.
- 2 — WATER TABLE ELEVATION CONTOUR (FT. NGVD) DASHED WHERE INFERRED
- (3.27) — WATER TABLE OR SURFACE WATER ELEVATION (FT. NGVD)
- (3.52) — GROUNDWATER ELEVATION (FT. NGVD) FOR WELLS SCREENED BELOW WATER TABLE (DEEPER OVERBURDEN WELLS)
- GENERALIZED DIRECTION OF GROUNDWATER FLOW

0 30 60

SCALE IN FEET

SOURCE:

1. BASE MAP DEVELOPED ON DRAWINGS PREPARED BY NAEVA GEOPHYSICS, INC. (APRIL 28, 2015) AND C.T. MALE ASSOCIATES, P.C. (JUNE 15, 2015).
2. VERTICAL DATUM SHOWN HEREON IS NGVD 29.

FIGURE 6

WATER TABLE CONTOUR MAP SEPTEMBER 22, 2015

TROY (WATER ST.) SITE - AREA 3
TROY, NEW YORK

DATE: 03/16

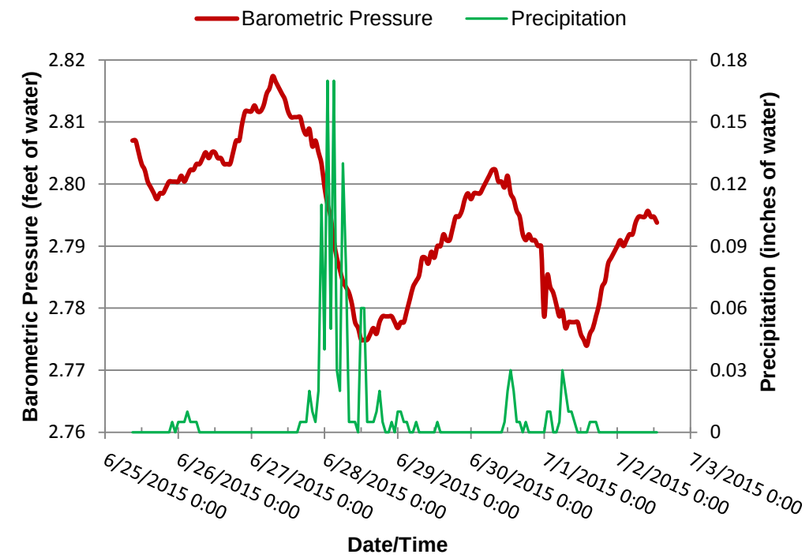
PROJECT NUMBER: 146094

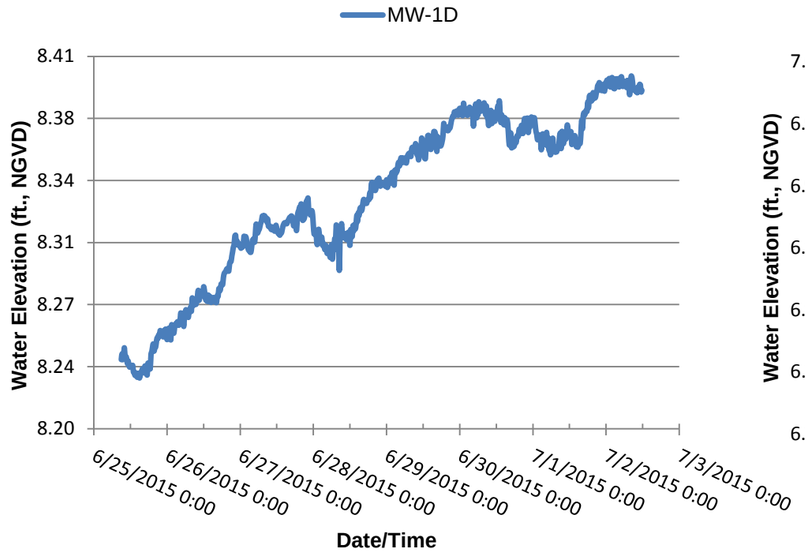
Brown and Caldwell

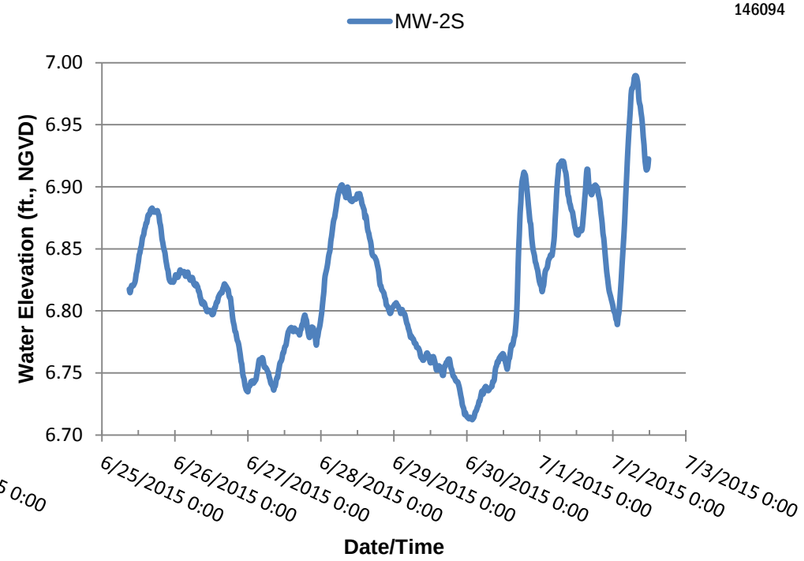
UPPER SADDLE RIVER, NEW JERSEY

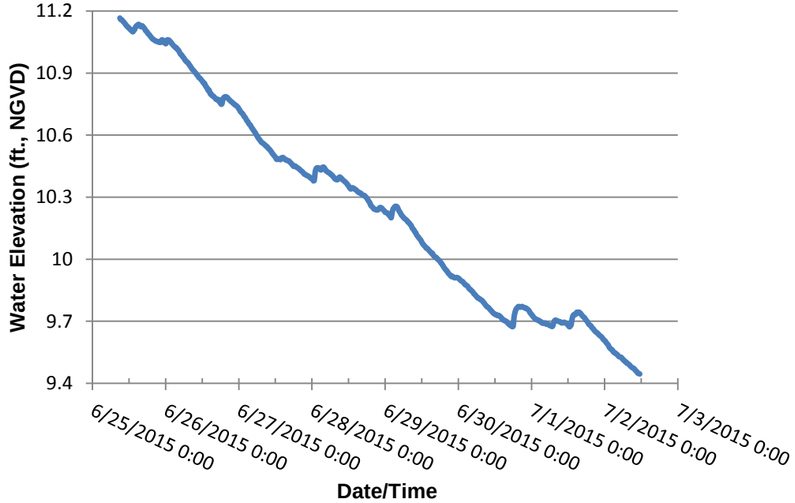
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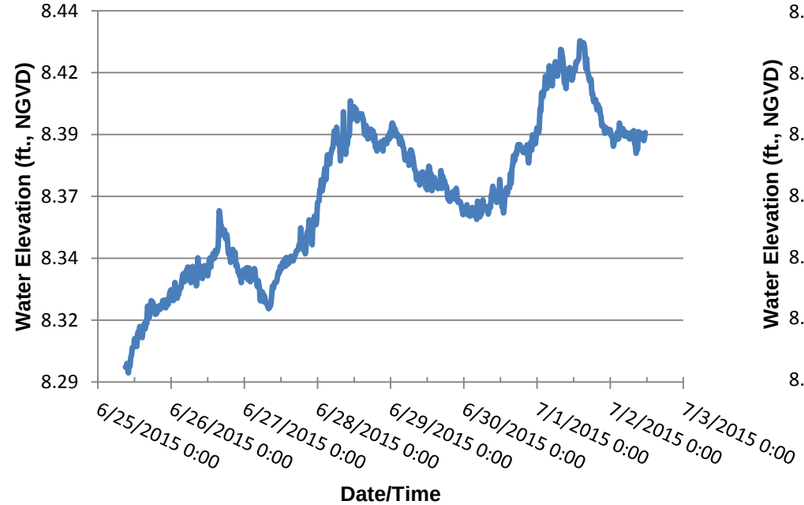
146094











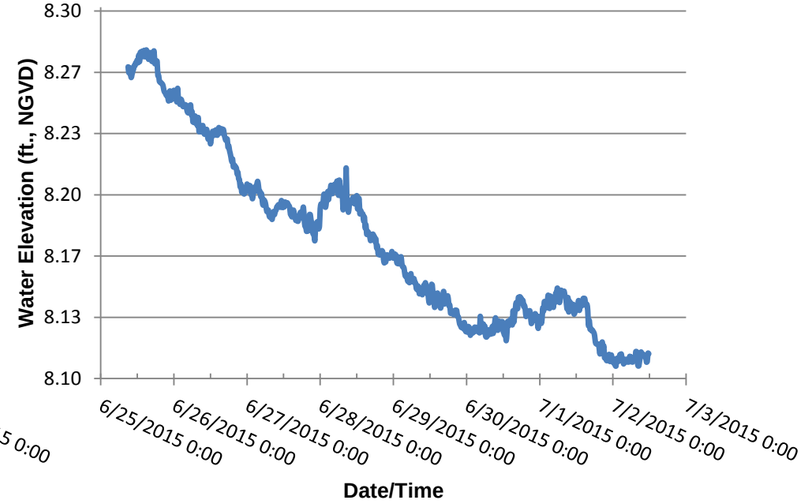


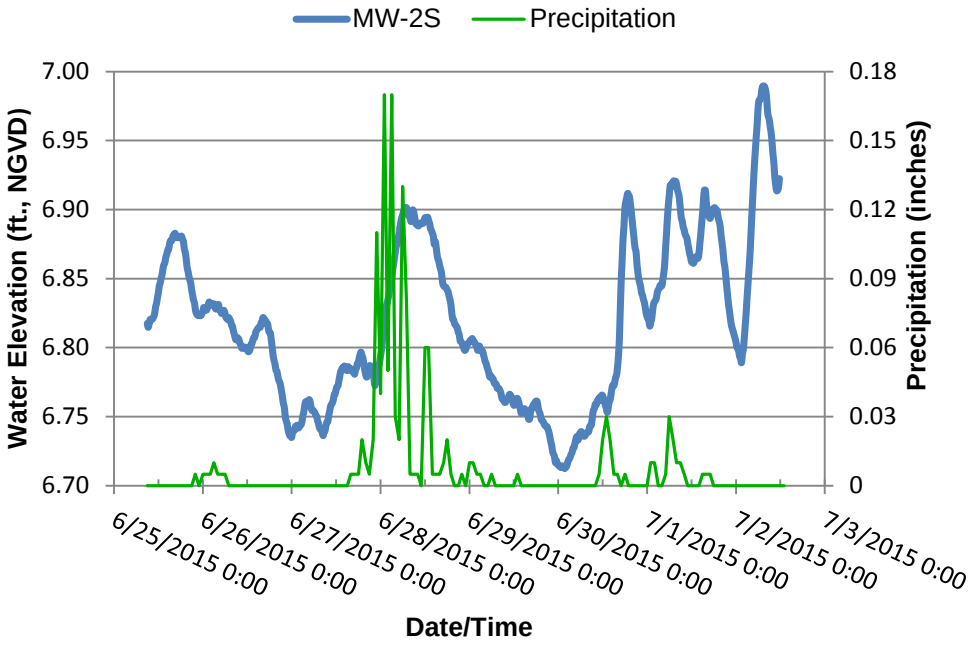
FIGURE 7

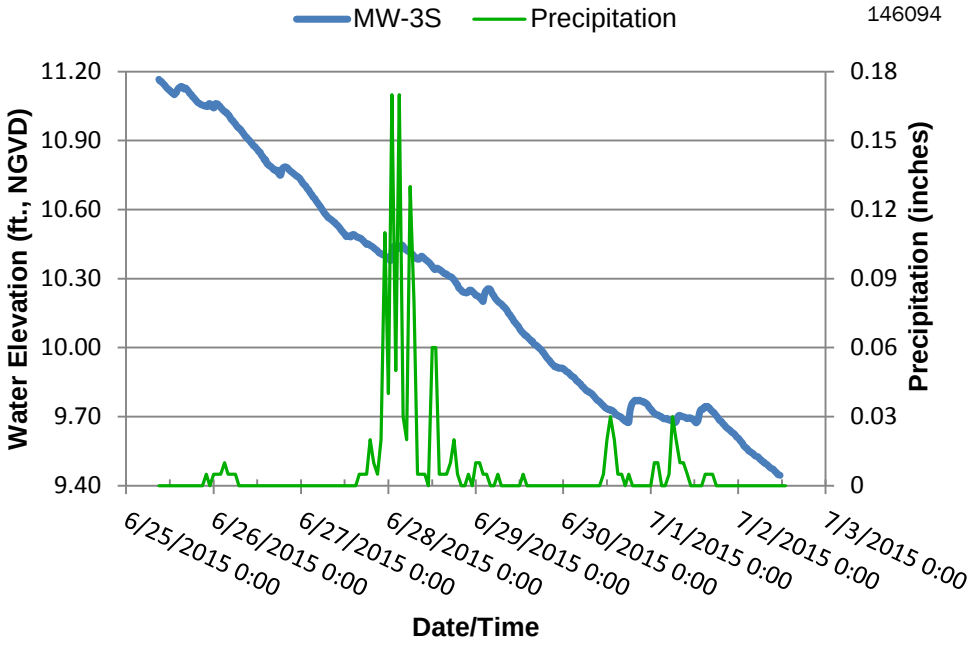
BAROMETRIC PRESSURE, PRECIPITATION AND GROUNDWATER ELEVATION DATA (June 25–July 2, 2015)

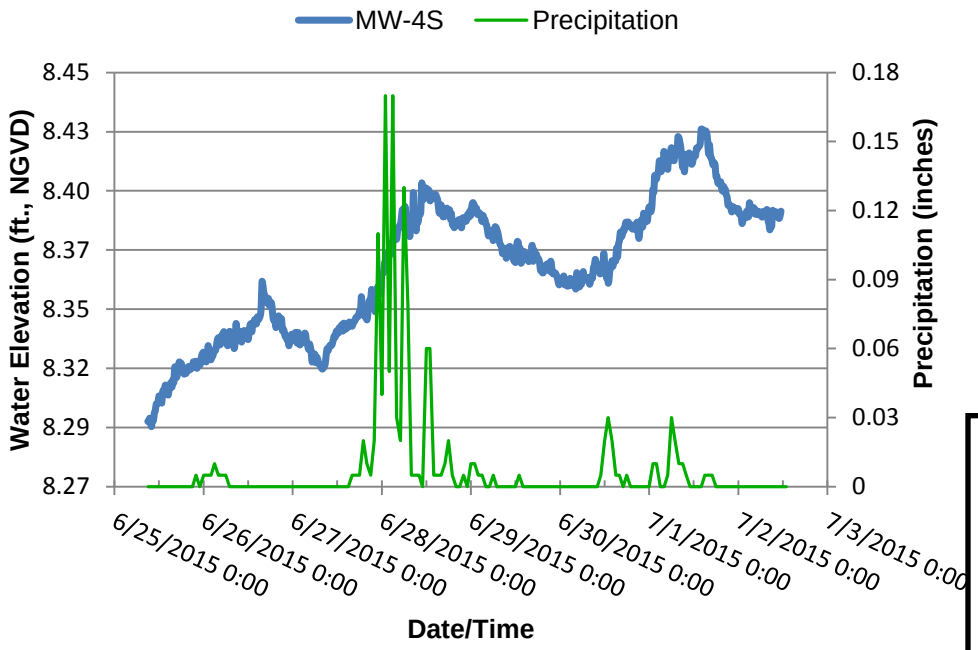
NATIONAL GRID
TROY (WATER ST.) SITE – AREA 3
TROY, NEW YORK

Brown AND Caldwell

\\bcusrfp01\projects\National_Grid\Nimo_Troy_Area_3\146094_Troy_Area3_RI\RI_Implementation\DataSummaryRpt\Figures\Fig_7_BP_precip_GW.pptx







146094

FIGURE 8

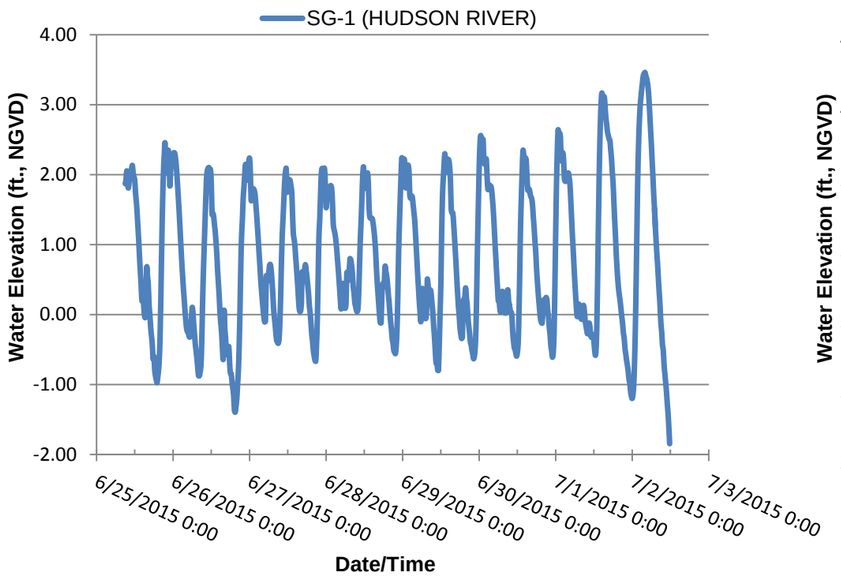
WATER TABLE ELEVATION AND PRECIPITATION DATA –
(June 25 - July 2, 2015)

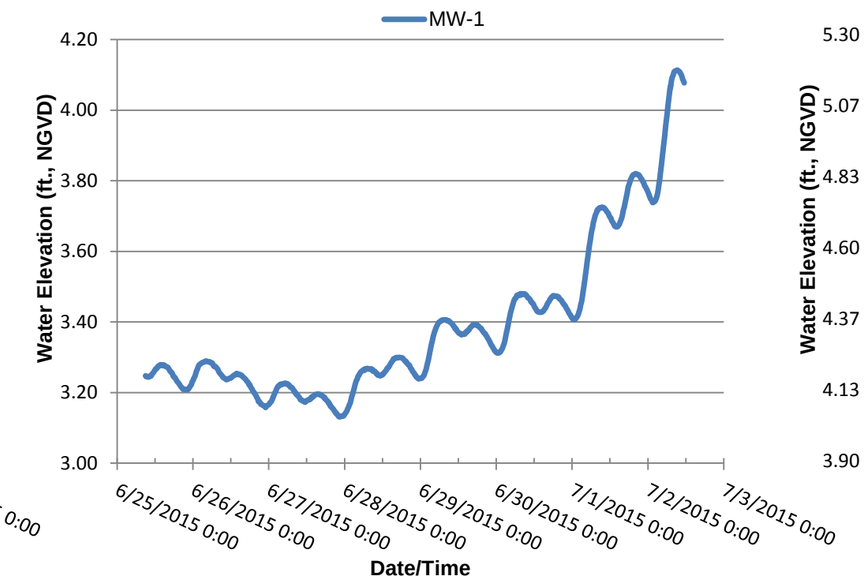
NATIONAL GRID
TROY (WATER ST.) SITE – AREA 3
TROY, NEW YORK

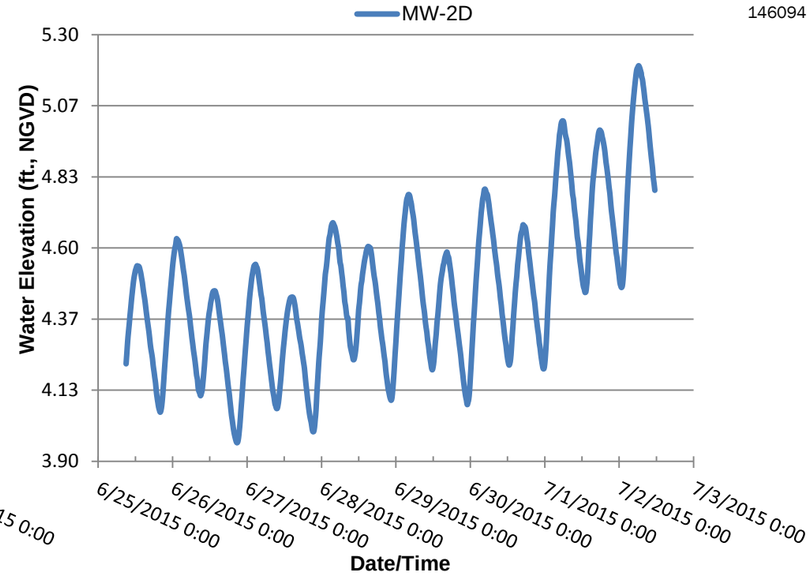
Brown AND Caldwell

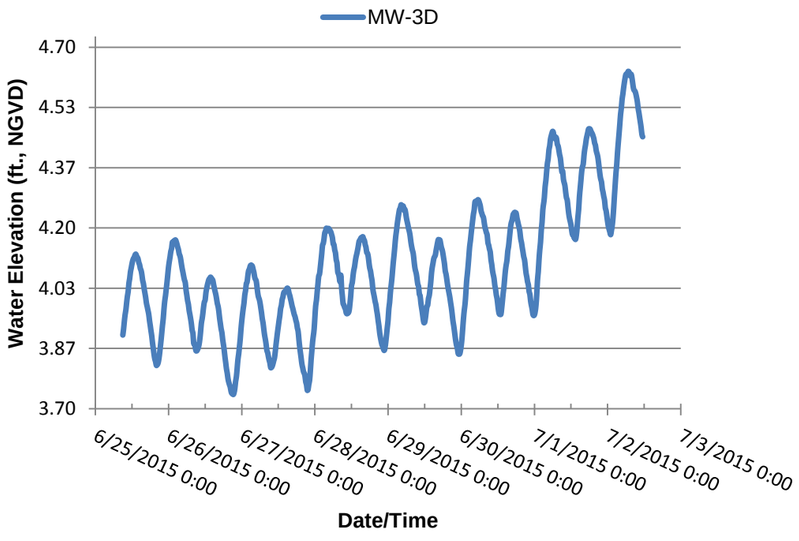
\\bcusrfp01\projects\National_Grid\Nimo_Troy_Area_3\146094_Troy_Area3_RI\RI_Implementation\DataSummaryRpt\Figures\Fig_8_WT_hydrographs_Precip.pptx

146094









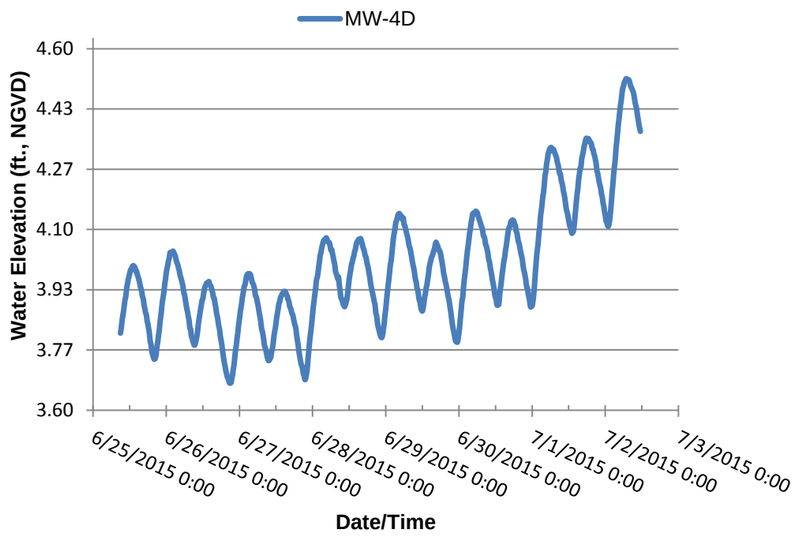


FIGURE 9A

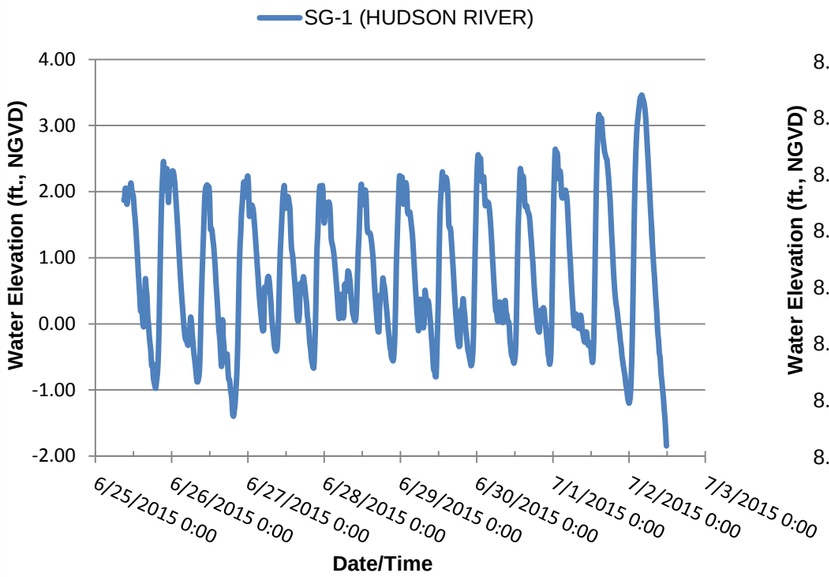
TIDAL EFFECTS ON SURFACE WATER AND GROUNDWATER LEVELS
(June 25–July 2, 2015)

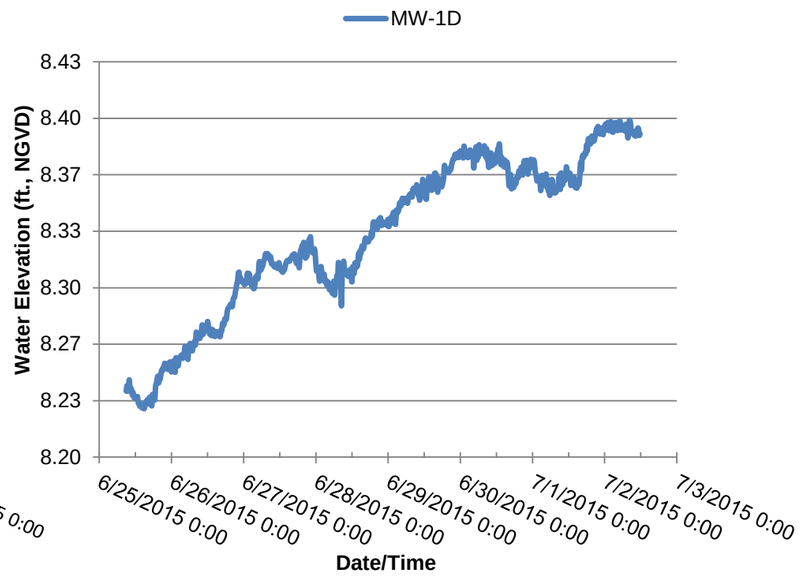
NATIONAL GRID
TROY (WATER ST.) SITE – AREA 3
TROY, NEW YORK

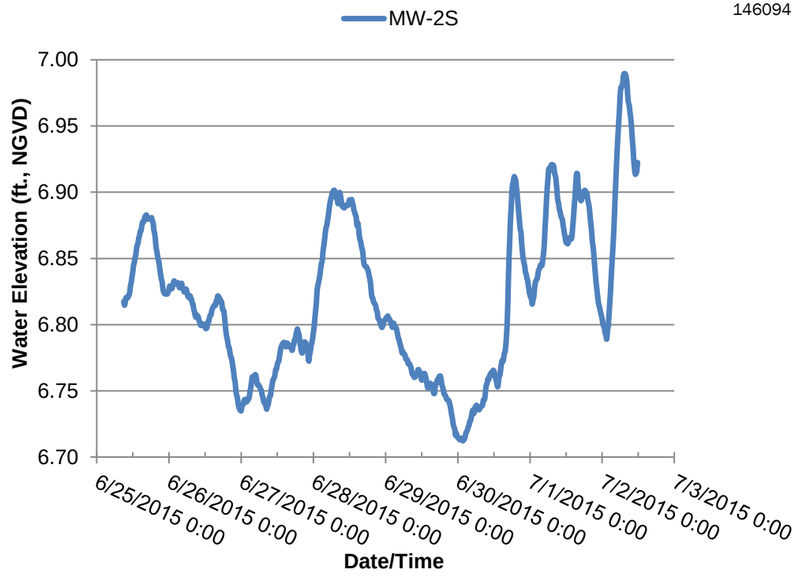
Brown AND Caldwell

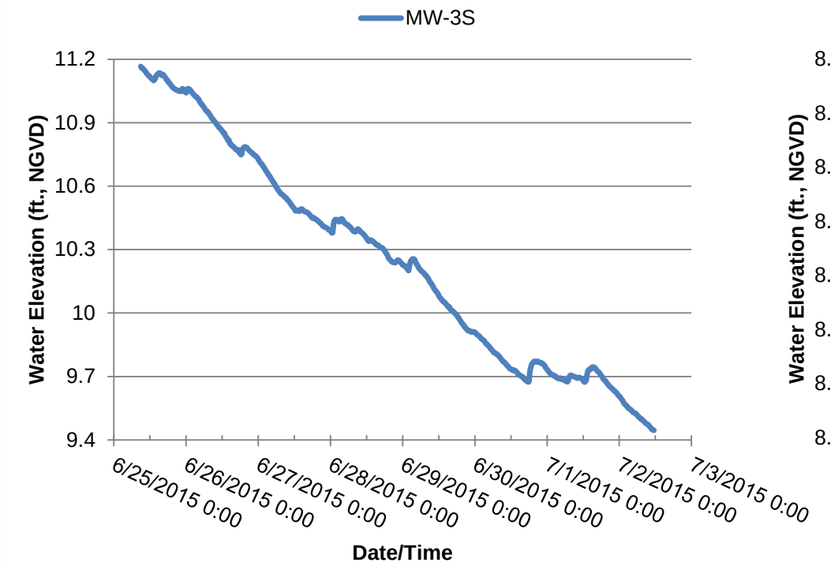
\\bcusrfp01\projects\National_Grid\Nimo_Troy_Area_3\146094_Troy_Area3_RI\RI_Implementation\DataSummaryRpt\Figures\Fig_9A_tidal_response.pptx

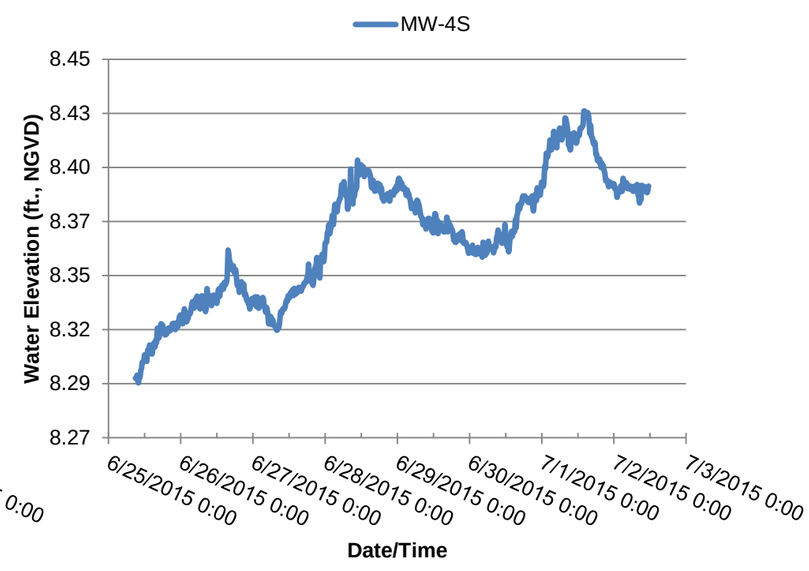
146094











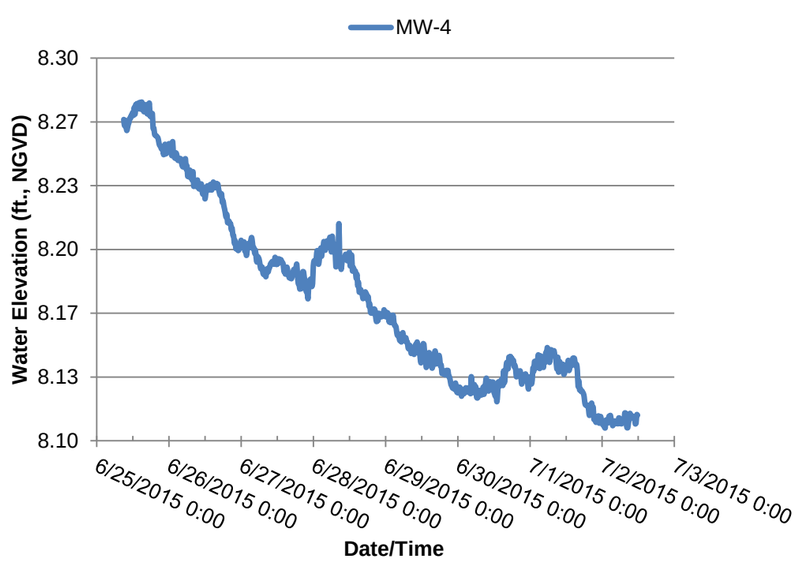


FIGURE 9B

GROUNDWATER LEVELS NOT EFFECTED BY TIDAL FLUCTUATIONS
(June 25–July 2, 2015)

NATIONAL GRID
TROY (WATER ST.) SITE – AREA 3
TROY, NEW YORK

Brown AND Caldwell

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3/3/2016

TROY (WATER ST.) SITE - AREA 2
LOT 111.75-1-1
TROY LOCAL DEVELOPMENT CORPORATION

N

SB-6
FORMER TARVIA TANK
SB-5
CONCRETE PADS
SB-3
MW-2D
MW-2S
TP-4
LOT 111.75-1-2
RENSSELAER COUNTY
SEWER DISTRICT NO. 1
MW-1S
MW-1D
FORMER TAR PRODUCTS
FORMER FLUX OIL TANK
(10,000 GALs.)
POST
SB-7
FORMER BRICK SHED
SUBSURFACE VAULT
FORMER TARVIA TANK
TP-3
SB-2
FORMER
TANK T-41
TP-2
TP-5
MW-3D
MW-3S
FORMER
TANK T-27
SB-4
SB-8
HUDSON RIVER
WATER STREET
CONCRETE PAD
SB-9
LOT 111.83-1-1
CHEVRON USA, INC.
MW-4S
MW-4D
SB-1
TP-1A
TP-1
TP-1B
CONCRETE BRIDGE PIER
BOLLARDS
NYS ROUTE 378

Legend

Visual/Olfactory Impacts (See Note 2)

- Purifier Waste and Odor
- Petroleum Impacts: Staining and Odors
- Petroleum Impacts: Saturation and Sheens
- Staining, Odor
- Blebs, Globs, Sheen
- Hardened Tar
- Coated Material, Lenses
- Tar Saturated
- NAPL/Tar observed in monitoring well during gauging events
- Semi-Solid/Hardened Surficial Tar Deposit
- Hardened Shoreline Tar Deposit

Notes:
1) Refer to Table 4 for descriptions and depth intervals of NAPL/tar observations and to hydrogeologic cross-sections (Figure 3) for vertifical position of observations.
2) NYSDEC's standard colors and associated desciptors for reporting MGP-related or other impacts were used to depict locations where impacts were observed

- Gas Line
- Sewer Liner
- Suspected Utility
- Road
- Property Line
- Ground Surface Elevation Contour (ft., NGVD). Contour Interval = 1 ft.
- Site Boundary
- Historic Chevron USA, Inc. Aboveground Pipe, partially or fullydemolished in 2006. Locations and dimensions are approximate; based on Figure 2 from report entitled "Facility Closure Site Investigation Report" (TRC 2005).
- Former Chevron Tank
- Historic Structures. Locations based on drawing: Map of Plant, Hudson Valley Coke & Products Corp. Troy, N.Y. (Date Unknown).
- Historic Structures. Locations based on drawing: New York Power & Light, Hudson Valley Fuel Plant, Troy, N.Y. (1946)

Author: BFTaylor Path: P:\GIS\National_Grid\Troy\Troy_Area_3\TroyArea3_Visual&Olfactory_observations_OB.mxd

Brown AND Caldwell

FIGURE 10
VISIAL/OLFACTORY OBSERVATIONS
NATIONAL GRID
TROY (WATER ST.) SITE - AREA 3, TROY, NEW YORK

Sources: Base map developed based on drawing prepared by CT Male Associates (June 15, 2015) and based on drawing prepared by NAEVA Geophysics, Inc. (April, 2015)

0 15 30 60
Feet

3/3/2016

TROY (WATER ST.) SITE - AREA 2

LOT 111.75-1-1
TROY LOCAL DEVELOPMENT CORPORATION

N

SS-1	0-2"
Total PAHs	1.2 J
Total Cyanide	ND

SS-2	0-2"
Total PAHs	**14 J**
Total Cyanide	ND

SS-3	0-2"
Total PAHs	ND
Total Cyanide	2.6

SS-4	0-2"
Total PAHs	ND
Total Cyanide	0.53 J

SS-5 #	0-2"
Total PAHs	**54**
Total Cyanide	4.2

SS-6	0-2"
Total PAHs	ND
Total Cyanide	3.1

SS-7	0-2"
Total PAHs	**7998**
Total Cyanide	0.75 J

SS-8	0-2"
Total PAHs	**256**
Total Cyanide	0.61 J

SS-9	0-2"
Total PAHs	**106**
Total Cyanide	ND

SS-10	0-2"
Total PAHs	**88**
Total Cyanide	ND

SS-11 #	0-2"
Total PAHs	**51**
Total Cyanide	ND

SS-12	0-2"
Total PAHs	**24 J**
Total Cyanide	ND

MW-2D MW-2S
MW-3D MW-3S
MW-4 MW-1S MW-1D
MW-4S MW-4D

FORMER TARVIA TANK
TE PADS
POST
SUBSURFACE VAULT
FORMER TAR PRODUCTS
FORMER FLUX OIL TANK (10,000 GALs.)
FORMER BRICK SHED
FORMER TARVIA TANK
FORMER TANK T-41
FORMER TANK T-27
CONCRETE PAD
LOT 111.75-1-2 RENSSELAER COUNTY SEWER DISTRICT NO. 1
LOT 111.83-1-1 CHEVRON USA, INC.
HUDSON RIVER
WATER STREET
BOLLARDS
CONCRETE BRIDGE PIER
NYS ROUTE 378 TROY-MENANDS BRIDGE

Legend

- Monitoring Well
- Surface Soil Sample
- Semi-Solid/Hardened Surficial Tar Deposit
- Hardened Shoreline Tar Deposit
- Gas Line
- Sewer Line
- Suspected Utility
- Road
- Property Line
- Chainlink Fence
- Site Boundary
- Ground Surface Elevation Contour (ft., NGVD).
- Historic Chevron USA, Inc. Aboveground Pipe, partially or fully demolished in 2006. Locations and dimensions are approximate; based on Figure 2 from report entitled "Facility Closure Site Investigation Report" (TRC 2005).
- Former Chevron Tank
- Historic Structures. Locations based on drawing: Map of Plant, Hudson Valley Coke & Products Corp. Troy, N.Y. (Date Unknown).
- Historic Structures. Locations based on drawing: New York Power & Light, Hudson Valley Fuel Plant, Troy, N.Y. (1946)

Explanation of terms and abbreviations:
PAHs - Polycyclic Aromatic Hydrocarbons
ND - Not Detected
J - Estimated Concentration
Bold Value - Indicates concentration of one or more constituents in constituent group are above NYS Part 375 SCOs for: Protection of Public Health for Industrial Zoned Properties; Protection of Ecological Resources; and/or Protection of Groundwater.

Results reported in milligrams per kilogram (mg/kg)

- Table lists the highest concetration from original and duplicate sample

Author: BFTaylor Path: P:\GIS\National_Grid\Troy\Troy_Area_3\Troy_Area3_DSR_SS_0-2.mxd

Brown AND Caldwell

FIGURE 11
PAHs AND CYANIDE IN SURFACE SOIL (0-2")
NATIONAL GRID
TROY (WATER ST.) SITE - AREA 3, TROY, NEW YORK

Sources: Base map developed based on drawing prepared by CT Male Associates (June 15, 2015) and based on drawing prepared by NAEVA Geophysics, Inc. (April, 2015)

0 15 30 60
Feet

3/3/2016

TROY (WATER ST.) SITE - AREA 2

LOT 111.75-1-1
TROY LOCAL DEVELOPMENT CORPORATION

N

SS-1	0-6"
Total PAHs	**11 J**
Total Cyanide	ND

SS-2	0-6"
Total PAHs	**15 J**
Total Cyanide	ND

SS-3	0-6"
Total PAHs	**78**
Total Cyanide	0.63 J

SS-4	0-6"
Total PAHs	ND
Total Cyanide	1.2

SS-5	0-6"
Total PAHs	ND
Total Cyanide	2.8

SS-6	0-6"
Total PAHs	ND
Total Cyanide	ND

SS-7	0-6"
Total PAHs	**4471**
Total Cyanide	0.51 J

SS-8	0-6"
Total PAHs	**473**
Total Cyanide	0.93 J

SS-9	0-6"
Total PAHs	**51**
Total Cyanide	ND

SS-10	0-6"
Total PAHs	**126 J**
Total Cyanide	ND

SS-11	0-6"
Total PAHs	**88**
Total Cyanide	ND

SS-12	0-6"
Total PAHs	**40**
Total Cyanide	ND

FORMER TARVIA TANK

TE PADS

MW-2D
MW-2S

LOT 111.75-1-2
RENSSELAER COUNTY
SEWER DISTRICT NO. 1

MW-4
MW-1S
MW-1D

FORMER TAR PRODUCTS

FORMER FLUX OIL TANK
(10,000 GALs.)

FORMER BRICK SHED

FORMER TARVIA TANK

POST

SUBSURFACE VAULT

FORMER
TANK T-41

WATER STREET

MW-3D
MW-3S

HUDSON RIVER

CONCRETE PAD

FORMER
TANK T-27

LOT 111.83-1-1
CHEVRON USA, INC.

MW-4S
MW-4D

CONCRETE BRIDGE PIER

BOLLARDS

NYS ROUTE 378
TROY-MENANDS BRIDGE

Legend

- Monitoring Well
- Surface Soil Sample
- Semi-Solid/Hardened Surficial Tar Deposit
- Hardened Shoreline Tar Deposit
- Gas Line
- Sewer Line
- Suspected Utility
- Road
- Property Line
- Chainlink Fence
- Site Boundary
- Ground Surface Elevation Contour (ft., NGVD).
- Historic Chevron USA, Inc. Aboveground Pipe, partially or fully demolished in 2006. Locations and dimensions are approximate; based on Figure 2 from report entitled "Facility Closure Site Investigation Report" (TRC 2005).
- Former Chevron Tank
- Historic Structures. Locations based on drawing: Map of Plant, Hudson Valley Coke & Products Corp. Troy, N.Y. (Date Unknown).
- Historic Structures. Locations based on drawing: New York Power & Light, Hudson Valley Fuel Plant, Troy, N.Y. (1946)

Explanation of terms and abbreviations:
PAHs - Polycyclic Aromatic Hydrocarbons
ND - Not Detected
J - Estimated Concentration
Bold Value - Indicates concentration of one or more constituents in constituent group are above: 1) NYS Part 375 SCOs for: Protection of Ecological Resources 2) USEPA Ecological Soil Screening Levels for PAHs (Soil Invertebrates); 3) USEPA Ecological Screening Levels PAHs (Mammals).

Results reported in milligrams per kilogram (mg/kg)

Author: BFTaylor Path: P:\GIS\National_Grid\Troy\Troy_Area_3\Troy_Area3_DSR_SS_0-6.mxd

Brown AND Caldwell

FIGURE 12
PAHs AND CYANIDE IN SURFACE SOIL (0-6")
NATIONAL GRID
TROY (WATER ST.) SITE - AREA 3, TROY, NEW YORK

Sources: Base map developed based on drawing prepared by CT Male Associates (June 15, 2015) and based on drawing prepared by NAEVA Geophysics, Inc. (April, 2015)

0 15 30 60
Feet

3/3/2016

TROY (WATER ST.) SITE - AREA 2

LOT 111.75-1-1
TROY LOCAL DEVELOPMENT CORPORATION

N

FORMER TARVIA TANK

SB-6	2-3	5-5.8	9.5-10	15-15.5	19.5-20	25-25.5	31-31.5
Total BTEX	0.046	0.0034 J	0.0007 J	ND	0.00057 J*	ND	ND
Total PAHs	**678**	**264**	**14 J**	1.6 J	ND	2.5 J	1.6 J
Total Cyanide	0.95 J	ND	1.4	ND	0.92 J	ND	ND

SB-3	3-4	7-8.7	13-14	21-22.3	25-25.4	29-29.7
Total BTEX	ND	ND	ND	ND	ND	0.0048 J
Total PAHs	**161**	3.4 J	0.13 J	ND	ND	ND
Total Cyanide	1.7	ND	ND	ND	ND	ND

SB-5	3-4	7-8.6	13-14.9	21-21.6	25-26.3	31-32.5
Total BTEX	0.00057 J*	**143**	0.0068 J	ND	ND	ND
Total PAHs	**153**	**10363**	**22**	17	4.4 J	**43**
Total Cyanide	1.1	10	ND	ND	ND	ND

TP-4	7.5-8
Total BTEX	ND
Total PAHs	1.0 J
Total Cyanide	ND

MW-2D	7-8.8	31-32.1
Total BTEX	**12260**	**1.8**
Total PAHs	**4080**	1.4
Total Cyanide	ND	ND

MW-2S	19-19.8
Total BTEX	**16 F1**
Total PAHs	**48**
Total Cyanide	ND R

MW-1S	16-18
Total BTEX	ND
Total PAHs	0.89 J
Total Cyanide	ND

LOT 111.75-1-2
RENSSELAER COUNTY
SEWER DISTRICT NO. 1

FORMER TAR PRODUCTS

MW-1D	28-29
Total BTEX	0.00041 J
Total PAHs	9
Total Cyanide	ND

FORMER FLUX OIL TANK
(10,000 GALs.)

POST

SB-2	0-1	7-7.9	13-14.5	19-19.3	25-25.8	31-32
Total BTEX	**8.4**	**2.3**	**180**	**11**	**7.4**	0.047
Total PAHs	**27**	**896**	**27970**	**293**	**222**	**55**
Total Cyanide	7.1	ND	7.7	ND	ND	ND

SUBSURFACE VAULT

SB-7	0-1 #	5-5.7	11-12.1	17-18.3	21-22.6 #	25-26.6	31-32.1
Total BTEX	0.24	0.0028 J	0.00027 J	ND	ND	ND	ND
Total PAHs	**2737**	**61**	6.3	0.11 J	ND	0.46 J	ND
Total Cyanide	0.71 J	ND	ND	ND	ND	ND	ND

FORMER TARVIA TANK

TP-3	4-5
Total BTEX	0.00044 J
Total PAHs	**138**
Total Cyanide	ND

FORMER
TANK T-41

WATER STREET

HUDSON RIVER

MW-3S	11-13 #
Total BTEX	**21200 J**
Total PAHs	**9440**
Total Cyanide	2.3

TP-5	7-7.5
Total BTEX	0.0082 J
Total PAHs	1.8 J
Total Cyanide	ND

TP-2	4-5
Total BTEX	ND
Total PAHs	**65**
Total Cyanide	ND

MW-3D	33.5-34
Total BTEX	**3.4**
Total PAHs	**515**
Total Cyanide	ND

CONCRETE PAD

FORMER
TANK T-27

SB-4	3-4	9-10.5	15-15.6	21-22.1	27-28.7	35-36.9	39-40.3
Total BTEX	ND	0.007 J	ND	0.0021 J	0.14 J	ND	ND
Total PAHs	3.6 J	0.94 J	ND	4.8 J	0.36 F1	**25**	0.14 J
Total Cyanide	ND	ND	ND	ND	ND	ND	ND

SB-8	0-1	5-6.3	11-12.0	17-18.3	21-22.2	25-26.6
Total BTEX	0.0008 J	ND	ND	ND	ND	ND
Total PAHs	ND	3.7 J	1.3 J	ND	ND	ND
Total Cyanide	ND	ND	ND	ND	ND	ND

SB-9	1-2	7-8.3	11-11.7 #	17-18.8	23-24.3	29-29.6	35-36.2
Total BTEX	ND	0.0053 J	**6189 J**	0.0059	0.025	0.015	ND
Total PAHs	**136**	**816**	**2882**	3.7 J	1.4 J	3.4	11
Total Cyanide	1.6	3.5	2.1	ND	ND	ND	ND

LOT 111.83-1-1
CHEVRON USA, INC.

MW-4S	19-19.6
Total BTEX	0.012
Total PAHs	**27**
Total Cyanide	0.76 J

MW-4D	29-29.8
Total BTEX	0.0016 J
Total PAHs	1.1 J
Total Cyanide	ND

SB-1	1-2	5-5.7	11-12.3	17-18.2	23-24.3	27-27.8
Total BTEX	0.0035 J	0.00089 J	0.0017 J	ND	0.0017 J	ND
Total PAHs	**76**	4.4 J	2.8 J	1.5 J	ND	ND
Total Cyanide	1.2	ND	ND	ND	ND	ND

TP-1B	9-10
Total BTEX	0.00043 J
Total PAHs	**58**
Total Cyanide	ND

TP-1	8-9 #
Total BTEX	ND
Total PAHs	**22**
Total Cyanide	1.8

BOLLARDS

NYS ROUTE 378
TROY-MENANDS BRIDGE

Legend

- Soil Boring: green symbol indicates no exceedance of SCOs; red symbol indicates one or more constiuents exceed SCO(s)
- Monitoring Well: green symbol indicates no exceedance of SCOs; red symbol indicates one or more constiuents exceed SCO(s)
- Test Pit Sample: green symbol indicates no exceedance of SCOs; red symbol indicates one or more constiuents exceed SCO(s)
- Gas Line
- Sewer Line
- Suspected Utility
- Road
- Property Line
- Chainlink Fence
- Site Boundary
- Ground Surface Elevation Contour (ft., NGVD).
- Former Chevron Tank
- Historic Chevron USA, Inc. Aboveground Pipe, partially or fully demolished in 2006. Locations and dimensions are approximate; based on Figure 2 from report entitled "Facility Closure Site Investigation Report" (TRC 2005).
- Historic Structures. Locations based on drawing: New York Power & Light, Hudson Valley Fuel Plant, Troy, N.Y. (1946)
- Historic Structures. Locations based on drawing: Map of Plant, Hudson Valley Coke & Products Corp. Troy, N.Y.(Date Unknown).

Explanation of terms and abbreviations:
BTEX - Benzene, Toluene, Ethylbenzene, Xylenes
PAHs - Polycyclic Aromatic Hydrocarbons
J - Estimated Concentration
B - Constituent was found in the blank and the sample.
F1 - MS and/or MSD Recovery is outside acceptance limits.
ND - Not Detected
* - Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits
R - The data are unusable. The results are rejected due to serious deficiencies in meeting quality control limits.

Bold Value - Indicates concentration of one or more constituents in a consituent group are above NYS PART 375 SCOs (Protection of Public Health for Industrial Zoned Properties; Protection of Ecological Resources; and/or Protection of Groundwater)

Results are reported in milligrams per kilogram (mg/kg)

- Table lists the highest concentration from original and duplicate sample.

Brown AND Caldwell

FIGURE 13
BTEX, PAHs AND CYANIDE IN SUBSURFACE SOIL
NATIONAL GRID
TROY (WATER ST.) SITE - AREA 3, TROY, NEW YORK

Sources: Base map developed based on drawing prepared by CT Male Associates (June 15, 2015) and based on drawing prepared by NAEVA Geophysics, Inc. (April, 2015)

0 15 30 60
Feet

Author: BFTaylor Path: P:\GIS\National_Grid\Troy\Troy_Area_3\TroyArea3_SubSurfaceSoils_BFT.mxd

3/3/2016

TROY (WATER ST.) SITE - AREA 2

LOT 111.75-1-1
TROY LOCAL DEVELOPMENT CORPORATION

N

FORMER TARVIA TANK

CONCRETE PADS

MW-2D	6/11/2015 #	9/23/2015
Benzene	**10**	**4.9**
Toluene	2.9	ND
Ethylbenzene	ND	ND
Xylenes, total	1.4 J	1.4 J
Naphthalene	4.6 J	1 J
Phenol	**2.2 J**	ND
Cyanide, total	14	14

MW-2S	6/12/2015	9/23/2015
Benzene	**1300**	**18**
Toluene	**320**	ND
Ethylbenzene	ND	ND
Xylenes, total	150	ND
Naphthalene	7.4	1.9 J
Phenol	**7.9**	**2.5 J**
Cyanide, total	40	23

MW-4	6/12/2015	9/21/2015
Benzene	ND	ND
Toluene	ND	ND
Ethylbenzene	ND	ND
Xylenes, total	ND	ND
Naphthalene	ND	ND
Phenol	ND	ND
Cyanide, total	ND	7.2 J

MW-1S	6/11/2015	9/22/2015
Benzene	NS	NS
Toluene	NS	NS
Ethylbenzene	NS	NS
Xylenes, total	NS	NS
Naphthalene	NS	NS
Phenol	NS	NS
Cyanide, total	NS	NS

11.75-1-2
AER COUNTY
STRICT NO. 1

POST

FORMER TAR PRODUCTS

MW-1D	6/12/2015	9/22/2015
Benzene	ND	ND
Toluene	ND	ND
Ethylbenzene	ND	ND
Xylenes, total	ND	ND
Naphthalene	ND	2.4 J
Phenol	1 J	ND
Cyanide, total	ND	ND

LUX OIL TANK
0 GALs.)

FORMER BL

SUBSURFACE VAULT

FORMER TARVIA TANK

FORMER
TANK T-41

WATER STREET

MW-3D	6/11/2015	9/22/2015
Benzene	NS	NS
Toluene	NS	NS
Ethylbenzene	NS	NS
Xylenes, total	NS	NS
Naphthalene	NS	NS
Phenol	NS	NS
Cyanide, total	NS	NS

MW-3S	6/12/2015	9/23/2015
Benzene	**8900 J**	**7500**
Toluene	**1300**	**260**
Ethylbenzene	**21**	ND
Xylenes, total	**340**	**160 J**
Naphthalene	ND	ND
Phenol	**56 F1**	**430**
Cyanide, total	130 B	130

HUDSON RIVER

MW-1	6/11/2015	9/21/2015 #
Benzene	ND	ND
Toluene	ND	ND
Ethylbenzene	ND	ND
Xylenes, total	ND	ND
Naphthalene	ND	ND
Phenol	ND	ND
Cyanide, total	23 B	26

CONCRETE PAD

FORMER
TANK T-27

LOT 111.83-1-1
CHEVRON USA, INC.

MW-4S	6/12/2015	9/23/2015
Benzene	**18**	**4.9**
Toluene	3.6	0.64 J
Ethylbenzene	ND	ND
Xylenes, total	0.72 J	ND
Naphthalene	5	0.85 J
Phenol	**1.3 J**	ND
Cyanide, total	37 B	**560**

MW-4D	6/10/2015	9/21/2015
Benzene	ND	ND
Toluene	ND	ND
Ethylbenzene	ND	ND
Xylenes, total	ND	ND
Naphthalene	ND	ND
Phenol	ND	ND
Cyanide, total	14	14 J

CONCRETE BRIDGE PIER

BOLLARDS

NYS ROUTE 378
TROY-MENANDS BRIDGE

Legend

- Monitoring Well: green symbol indicates no exceedance of constituent above Class GA Criteria; red symbol indicates one or more exceedance of constituent above Class GA Criteria
- Monitoring Well w/ NAPL
- Monitoring Well
- Gas Line
- Sewer Line
- Suspected Utility
- Road
- Property Line
- Chainlink Fence
- Site Boundary
- Ground Surface Elevation Contour (ft., NGVD).
- Historic Chevron USA, Inc. Aboveground Pipe, partially or fully demolished in 2006. Locations and dimensions are approximate; based on Figure 2 from report entitled "Facility Closure Site Investigation Report" (TRC 2005).
- Former Chevron Tank
- Historic Structures. Locations based on drawing: New York Power & Light, Hudson Valley Fuel Plant, Troy, N.Y. (1946)
- Historic Structures. Locations based on drawing: Map of Plant, Hudson Valley Coke & Products Corp. Troy, N.Y. (Date Unknown).

Explanation of terms and abbreviations:

BTEX - Benzene, Toluene, Ethylbenzene, Xylenes
ND - Not Detected
NS - Not Sampled (MW-1S - dry well, MW-3D - NAPL present in well)
J - Result is less than the reportling limit, but greater than or equal to the minimum detection limit and the concentration is an approximate value.
B - Compound was found in the blank and sample.
F1 - Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) Recovery is outside acceptance limits.
Bold Value - Indicates constituent concentration above Class GA Criterion
Results are reported in milligrams per kilogram (ug/l)
- Table lists the highest concentration from original and duplicate sample.

Author: BFTaylor Path: P:\GIS\National_Grid\Troy\Troy_Area_3\TroyArea3_GW_BFT.mxd

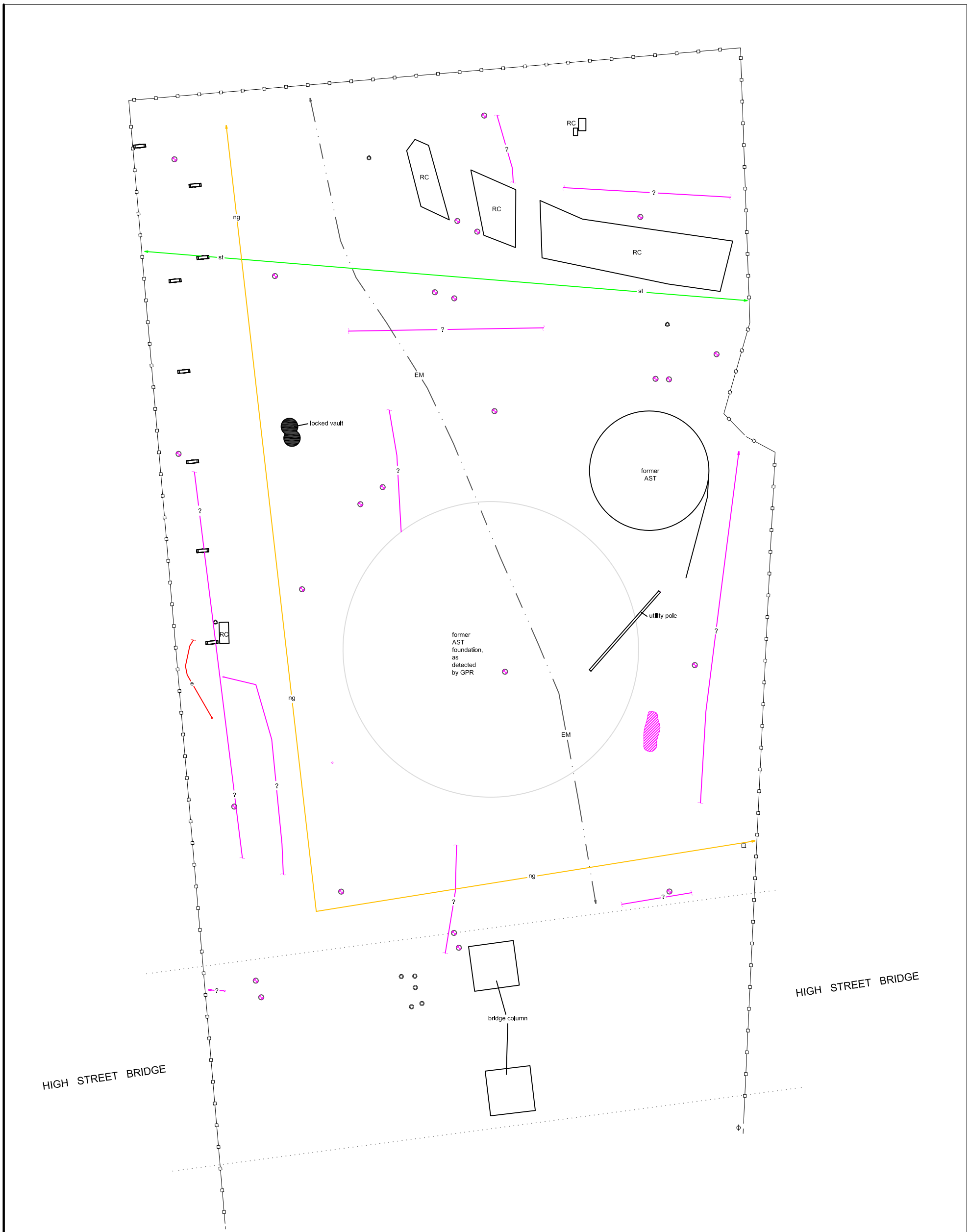
Brown AND Caldwell

FIGURE 14
BTEX, NAPHTHALENE, PHENOL AND CYANIDE IN GROUNDWATER
NATIONAL GRID
TROY (WATER ST.) SITE - AREA 3, TROY, NEW YORK

Sources: Base map developed based on drawing prepared by CT Male Associates (June 15, 2015) and based on drawing prepared by NAEVA Geophysics, Inc. (April, 2015)

0 15 30 60
Feet

Appendix A: Subsurface Obstruction Survey



LEGEND

e — electric line	? — suspected utility	proposed exploratory boring site	electrical conduit
ng — natural gas line	chain-link fence	gas valve	unknown conduit
st — storm sewer	metal-detector anomaly	bollard	pipe rank stand
EM — EM-31 demarcation between fill types	monitoring well	utility pole	RC — reinforced concrete
former AST foundation, as detected by GPR			

approximately

20 10 0 10 20 ft

Scale: One inch equals approximately twenty feet

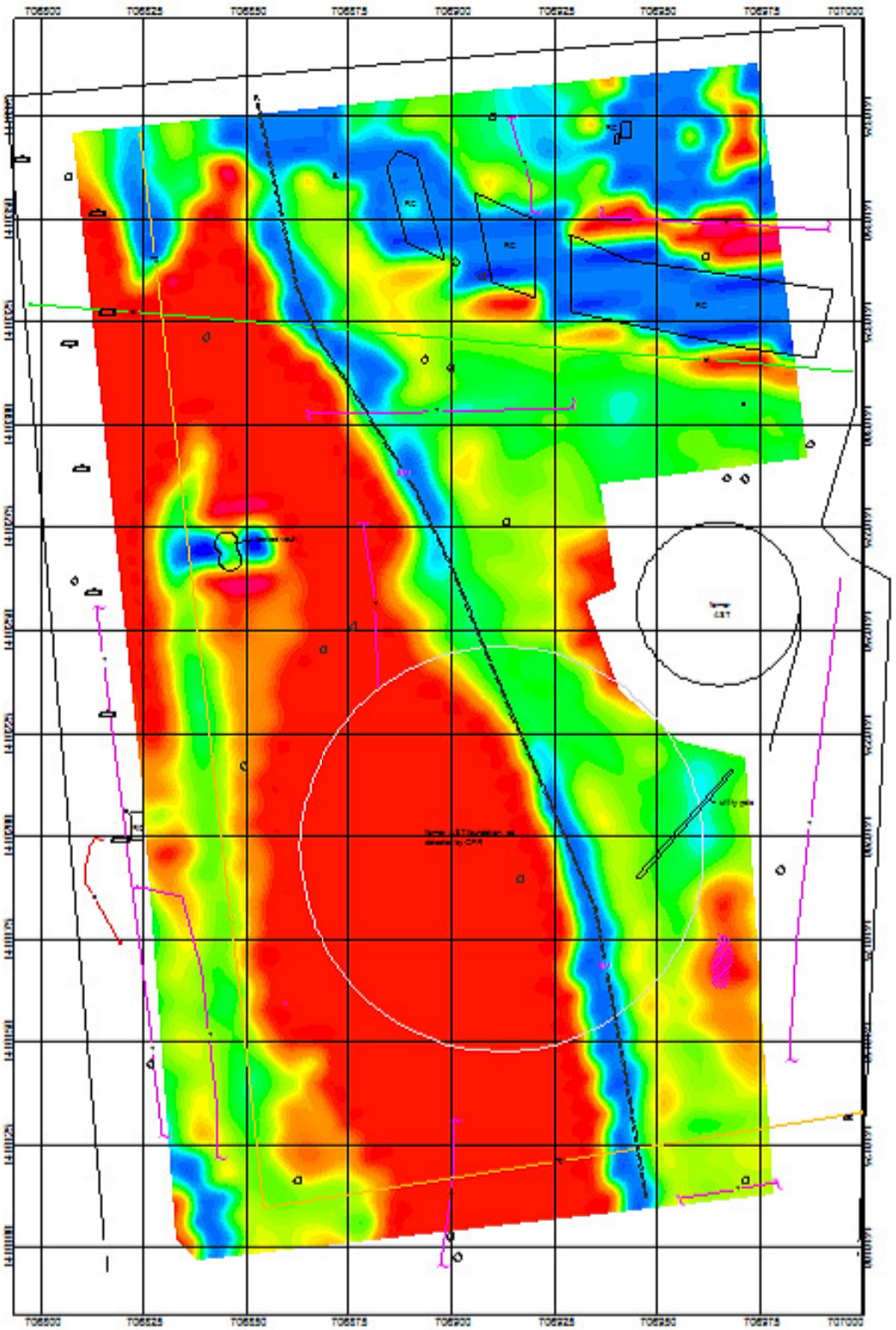
NAEVA GEOPHYSICS, INC.
THE LEADER IN SUBSURFACE DETECTION
Subsurface Geophysical Surveys

225 N. Route 303, Sulte 102
Congers, NY, 10920
(845)268-1800
(845)268-1802 FAX

Plate 1. Area of Geophysical Investigation
National Grid Site
King Road and Water Street
Troy, New York

Client	Brown and Caldwell	Date of Work	April 27 & 28, 2015
Project No.	C1504271R	Map By	Daniel Latini

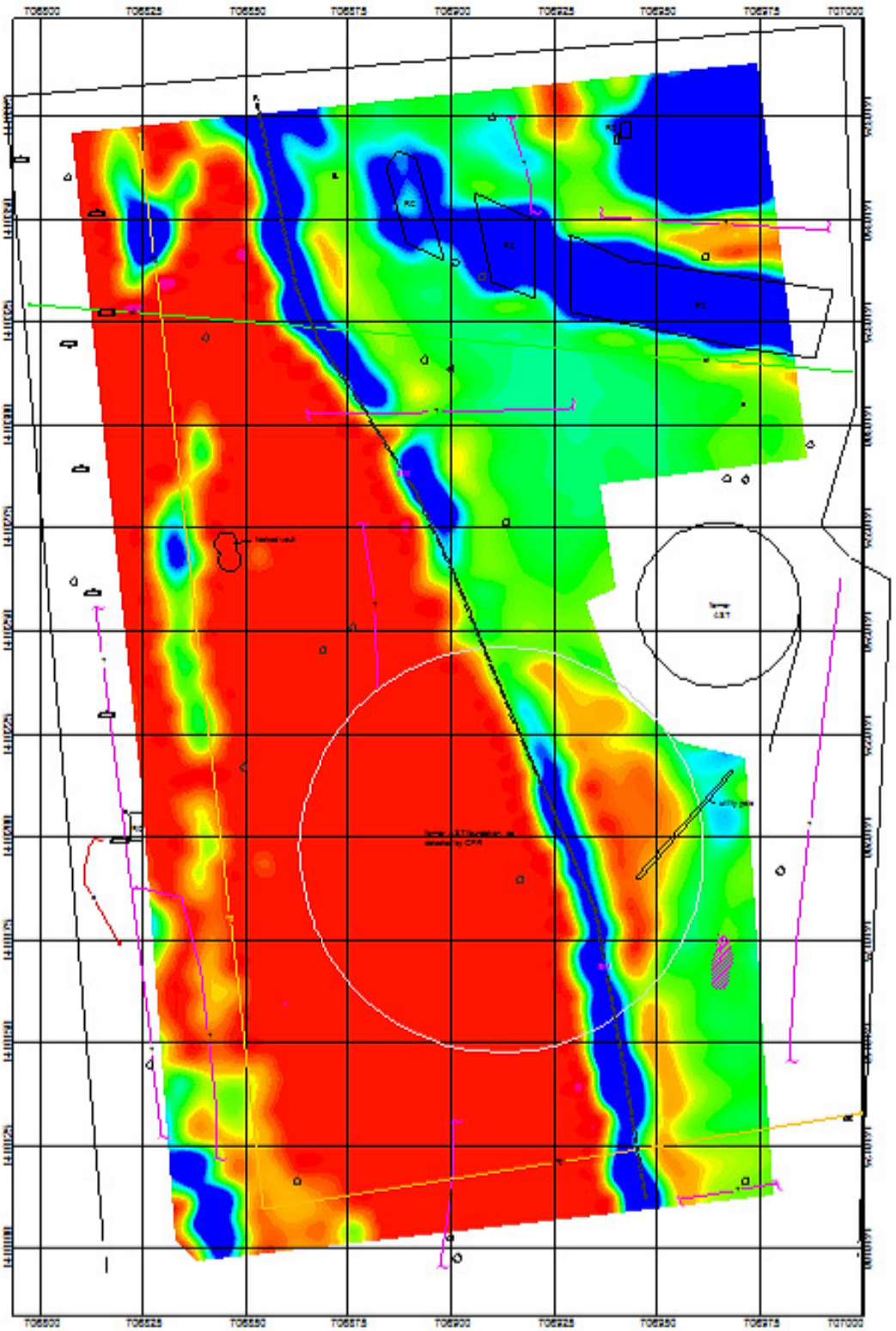
ALL UNDERGROUND FACILITIES MAY NOT BE DEPICTED ON THIS MAP

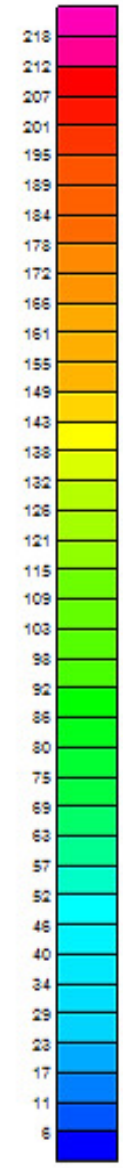


NAEVA Geophysics for Brown and Caldwell

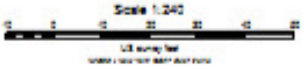
Plate 2. In-Phase Data for National Grid Site
King Road and Water Street
Troy, New York

Dates of Survey: April 27 & 28, 2015
Map Created by: R. Dobler









NAEVA Geophysics for Brown and Caldwell

Plate 3. Quadrature Data for National Grid Site
King Road and Water Street
Troy, New York

Dates of Survey: April 27 & 28, 2015
Map Created by: R. Dobler

Appendix B: Soil Boring, Monitoring Well Construction and Test Pit Logs

WELL LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Well No.** **MW-1D** **Page** 1 **of** 2

Inspector/Office	**Checked By:**	**Borehole Diameter:**	**Screen Diameter and Type:**	**Slot Size:**	**Total Boring Depth (ft)**
JA/Albany, NY	JLM	8.25"	2" PVC	0.020"	30.0 ft.

Start/Finish Date	**Drilling Contractor:**	**Sampling:** Split Spoon	**Development Method:**
5/7/15 - 5/26/15	Atlantic Testing Laboratories, Inc.	**Hammer Type:** 140lb Auto.	Surge and Purge w/ Whale Pump: ~165 gallons purged.

Driller:	**Drilling Method:**	**Drilling Equipment:**		
A. Conant	HSA	CME 75	**Horiz Datum/Proj:** NYS Plane NAD83 **Vert Datum:** NGVD 29 **Ground Surface Elev:** 27.0 ft.	**Easting:** 706977.2 ft. **Northing:** 1410296.7 ft. **TOC Elev:** 29.6 ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well	ppm Readings (ppm)	Remarks
		SP	**FILL** Brown mf SAND, trace Silt. Dry.	8-6-5	1		27.4	0.15' BGS: Solid tar-like material. 0.5-1.4' BGS: Black semi-solid, tacky, tar-like material, strong tar-like odor.
	25		No recovery.	5-8-4-4	2		--	
		SP	Dark brown mf SAND, little f Gravel (slag), little Silt. Moist.	2-3-13-12	3		3.7	
5								
		SP	Dark brown mf SAND. little f Gravel. Moist.	8-6-5-6	4		8	
	20							
		SW	Dark brown cmf SAND. Moist.	1-6-6-5	5		1.7	
		SP	Grey f SAND. Moist.					
		SW	Dark brown cmf SAND. Moist.					
10		SW	Dark brown cmf SAND. Wet.	1-2-2-4	6		0.6	*0.0-20.0' BGS: Cement/Bentonite Grout*
	15							
		SW	Same as above.	4-5-6-7	7		6.4	
		GW/SW	Black cmf GRAVEL and mf SAND. Wet.	22-34-50/3"	8		0.9	14.0-14.9' BGS: Black discolored grains (flat luster).
15								
		SP	Black mf SAND, trace Silt. Wet.	40-56-23-17	9		10.8	16.0-17.5' BGS: Black discolored grains (flat luster).
	10							
		SP	Black mf SAND, little Silt, little (-) mf Gravel (brick). Wet.					
		SW	Dark brown cmf SAND, trace Silt. Wet.	26-37-24-18	10		0.5	
		CL	Dark green/gray CLAY (non-plastic). Wet.					
20		GM	Brown/gray SILT and cmf GRAVEL. Saturated.	3-5-7-7	11		224.9	20.0-20.8' BGS: Moderate petroleum-like odor.
		GW	Dark brown cmf GRAVEL. Saturated.					*20.0-22.0' BGS: Bentonite Seal*
	5		No recovery. Slough.	5-4-3-3	12		--	*22.0-29.0' BGS: #1 Filter Sand*
								23.0-29.0' BGS: 0.020" Slot PVC Screen.
			No recovery. Slough.	2-2-2-4	13		--	24.0-24.3' BGS: Slight petroleum-like odors.
25								
	0		No recovery. Slough.	8-6-3-6	14		--	26.0-26.3' BGS: Slight petroleum-like odors, slight sheen on surface of water in split-spoon.
		SP	**SAND AND SILT** Gray f SAND and SILT. Saturated.	1-1-1-50/5"	15		5.1	28.0-30.0' BGS: Black discolored grains (flat luster), slight petroleum-like odor.
30		BR	**WEATHERED BEDROCK** Gray weathered Shale.					Sample MW-1D-28-29

WELL LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Well No.** **MW-1D** **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Well	ppm Readings (ppm)	Remarks
											collected and submitted for laboratory analysis Split-spoon refusal on top of rock surface @ 29.8' BGS.

WELL LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Well No.** **MW-1S** **Page** 1 **of** 2

Inspector/Office	**Checked By:**	**Borehole Diameter:**	**Screen Diameter and Type:**	**Slot Size:**	**Total Boring Depth (ft)**
BFT/Albany, NY	JLM	8.25"	2" PVC	0.020"	28.0 ft.

Start/Finish Date	**Drilling Contractor:**	**Sampling:** Split Spoon	**Development Method:**
5/7/15 - 5/27/15	Atlantic Testing Laboratories, Inc.	**Hammer Type:** 140lb Auto.	Insufficient amount of water in well to perform development.

Driller:	**Drilling Method:**	**Drilling Equipment:**		
A. Conant	HSA	CME 75	**Horiz Datum/Proj:** NYS Plane NAD83 **Vert Datum:** NGVD 29 **Ground Surface Elev:** 27.2 ft.	**Easting:** 706978.7 ft. **Northing:** 1410304.0 ft. **TOC Elev:** 29.6 ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well	ppm Readings (ppm)	Remarks
			FILL Split-spoon samples not collected from 0-12' BGS. Refer to MW-1D boring log for description of soils from this interval					0.15' BGS: Solid tar-like material.
	25							
5								*0.0-8.0' BGS: Cement/Bentonite Grout*
	20							*8.0-10.0' BGS: Bentonite Seal*
10								*10.0-18.0' BGS: #1 Filter Sand*
	15	GP	Black cm GRAVEL, little mf Sand, trace Silt. Moist-Saturated.	5-9-8-5	1		0.1	*12.0-18.0' BGS: 0.020" Slot PVC Screen.* 12.0-12.4' BGS: Black discolored grains (flat luster).
		GP	Brown mf GRAVEL, some mf Sand, trace Silt. Saturated.	3-9-22-4	2		0	14.0-15.2' BGS: Black discolored grains (flat luster).
15		GW	Brown cmf GRAVEL (fire brick), little mf Sand. Moist-Saturated.	30-32-36-41	3		0.2	Sample MW-1S-16-18 collected and submitted for laboratory analysis.
	10	SP	Brown mf SAND, some mf Gravel, little Silt. Saturated.	50/5"	4		0.3	16.4-17.0' BGS: Black discolored grains (flat luster).
		GP/SP	Brown/red brown mf GRAVEL and cmf SAND, little Silt. Saturated.					18.0-18.5' BGS: Black discolored grains (flat luster).
20		SP	Brown mf SAND, little mf Gravel, trace Silt. Moist-Saturated.	18-3-4-5	5		59	*18.0' BGS: Begin using 3" split-spoon.*
		SP	Same as above.					*18.0-28.0' BGS: Bentonite Backfill*
	5	ML	Grey Clayey SILT, little mf Sand, trace f Gravel. Moist.	3-4-6-7	6		13.7	20.0-21.3' BGS: Black discolored grains (flat luster), moderate petroleum-like odor, slight sheen on surface of water in split-spoon.
		ML	Grey Clayey SILT, little mf Sand, little mf Gravel. Moist.					21.3-21.7' BGS: Slight petroleum-like odor.
		GP	Black mf GRAVEL, little (+) mf Sand. Saturated.	6-4-5-9	7		26	22.0-23.0' BGS: Sporadic black discoloration of grains, moderate petroleum-like odor.
25		GW	Brown cmf GRAVEL (brick, slag), some (+) cmf Sand. Saturated.	7-4-4-9	8		0.1	23.0-23.2' BGS: Black discolored grains (flat luster), moderate petroleum-like odor.
	0	GW	Same as above.					
		SP	Grey f SAND, trace Silt. Saturated.					
		GW	Brown cmf GRAVEL (brick, slag), some (+) cmf Sand. Saturated.					
		SP	Grey f SAND, trace Silt. Saturated.					
		GW	Brown cmf GRAVEL (brick, slag), some (+) cmf Sand. Saturated.					

WELL LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Well No.** **MW-1S** **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Well	ppm Readings (ppm)	Remarks
											24.0-25.4' BGS: Slight petroleum-like odor. 26.0-27.6' BGS: Slight petroleum-like odor.

WELL LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Well No.** **MW-2D** **Page** 1 **of** 2

Inspector/Office	**Checked By:**	**Borehole Diameter:**	**Screen Diameter and Type:**	**Slot Size:**	**Total Boring Depth (ft)**
RB/Albany, NY	JLM	8.25"	2" PVC	0.020"	34.4 ft.

Start/Finish Date	**Drilling Contractor:**	**Sampling:** Split Spoon	**Development Method:**
5/6/15 - 5/21/15	Atlantic Testing Laboratories, Inc.	**Hammer Type:** 140lb Auto.	Surge and Purge w/ Whale Pump: ~55 gallons purged.

Driller:	**Drilling Method:**	**Drilling Equipment:**		
A. Conant	HSA	CME 75	**Horiz Datum/Proj:** NYS Plane NAD83 **Vert Datum:** NGVD 29 **Ground Surface Elev:** 25.8 ft.	**Easting:** 706839.7 ft. **Northing:** 1410321.2 ft. **TOC Elev:** 29.0 ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well	ppm Readings (ppm)	Remarks
	25	SW	**FILL** Dark brown cmf SAND and GRAVEL (slag, brick), some Silt. Dry.	N/A	1			*Boring hand cleared to 5' BGS.* 0.0-5.0' BGS: Black discolored soils (flat luster). 1.0-1.2' BGS: Black solid tar-like material (submetallic luster).
		SW						
		GW	Dark brown cmf SAND and GRAVEL (slag, brick), little Silt. Dry.					
		GW	Dark brown cmf GRAVEL (slag, brick), some (+) cmf Sand, little Silt. Dry.					
		GW						
5	20	GW	Dark brown cmf GRAVEL (slag, brick), some cmf Sand, little Silt. Dry.	1-WOH-WOH-2	2		1.9	5.0-5.7' BGS: Infrequent black discoloration (flat to sub-metallic luster).
			Dark brown cmf GRAVEL (slag, brick), some cmf Sand, little Silt. Dry.					
		SW	Dark gray cmf GRAVEL (slag, brick), some cmf Sand, little Silt. Dry.	15-33-50/2"	3		>2000	Sample MW-2D-7-8.8 collected and submitted for laboratory analysis.
		SW						
		SW	Black mf SAND and SILT, trace f Gravel (slag, brick). Moist.					
		SW		15-16-33-26	4		15.3	7.0-7.8' BGS: Black tacky tar-like material (taffy-like consistency, flat to submetallic luster), strong mothball/petroleum-like odor.
10	15		Black mf SAND and SILT, trace f Gravel (slag, brick). Wet.					
		SW	Dark/red brown cmf GRAVEL and SAND (slag, brick), trace Silt. Wet.	19-19-30-43	5		28.9	
		SW	Dark/red brown cmf SAND and GRAVEL (slag, brick), little Silt. Moist.					7.8-8.1' BGS: Black discoloration (flat to submetallic).
		SW	Dark/red brown cmf SAND and GRAVEL (slag, brick), some Silt. Moist.	50/3"	6		9.3	9.0-10.3' BGS: Sporadic black discoloration (flat luster).
			Dark/red brown cmf SAND, some Silt, little mf Gravel, little Clay. Moist.					
15	10	GW		35-18-44-23	7		123.1	11.0-12.6' BGS: Sporadic black discoloration (flat luster).
		GW	Dark/red brown cmf SAND and GRAVEL (slag, brick), some Silt. Moist.					
		SW	Same as above.	27-50/3"	8		51.4	17.0-17.5' BGS: Black tacky/greasy tar-like material (flat to submetallic luster), faint petroleum-like odor, specks of sheen on surface of water in split-spoon.
			Dark/red brown cmf Gravel (slag, brick), some cmf Sand, some Silt. Wet.					
			Dark/red brown cmf Gravel (slag, brick), some cmf Sand, some Silt. Saturated.	3-2-3-10	9			
20	5		Black cmf SAND, little Silt, trace f Gravel (slag, brick, coal). Saturated.					
		CL/ML	No recovery.	14-18-9-10	10		26.1	*0.0-27.0' BGS: Cement/Bentonite Grout* 21.0-21.6' BGS: Specks of sheen on surface of water in split-spoon, faint petroleum-like odor.
			SILT & CLAY/ CLAY & SILT Gray brown/gray SILT & CLAY/CLAY & SILT, trace f Sand. Wet.					
		CL/ML		1-2-1-2	11		5.1	
			Green brown/gray SILT & CLAY/CLAY & SILT, trace f Sand, trace Organics (roots, wood). Wet.					
25	0	CL/ML	Green brown/gray SILT & CLAY/CLAY & SILT, trace Organics (roots, wood) (increasing Clay content with depth). Wet.	1-1-1-2	12		9.8	
		CL/ML	Same as above.	3-2-5-6	13		10.0	25.0-30.1' BGS: Faint petroleum-like odor.
								27.0-29.0' BGS: Bentonite Seal
		SW	**SAND AND GRAVEL**	1-WOH-5-6	14		5.0	Sample MW-2D-31-32.1 collected and submitted for laboratory analysis.
30	-5	SW	Dark gray cmf SAND and GRAVEL (angular to sub-angular), little Silt. Saturated.					
		SW						

WELL LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Well No.** **MW-2D** **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Well	ppm Readings (ppm)	Remarks
		SW	Dark gray cmf SAND, little mf Gravel (sub-angular to rounded), little Silt. Saturated.	10-9-2-8	15					2.3	*29.0-33.0' BGS: #1 Filter Sand* *29.5-33.0' BGS: 0.020" Slot PVC Screen.*
		SW SP	Dark gray cmf SAND and Gravel (sub-angular to rounded), little Silt. Saturated. Wood fragments. Saturated. Dark gray cmf SAND and GRAVEL (sub-angular to rounded), some Silt, becoming more coarse with depth. Saturated. Dark gray cmf SAND, some Silt, little mf Gravel (sub-angular to rounded). Saturated.	19-19-50/4"	16					1.8	Split-spoon refusal on top of rock surface @ 33.7' BGS.
			WEATHERED BEDROCK Black weathered, decomposed bedrock (Silt and Clay), pieces of angular Shale. Saturated. Black weathered, decomposed bedrock (Silt and Clay), pieces of angular Shale.								

WELL LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Well No.** **MW-2S** **Page** 1 **of** 1

Inspector/Office	**Checked By:**	**Borehole Diameter:**	**Screen Diameter and Type:**	**Slot Size:**	**Total Boring Depth (ft)**
RB/Albany, NY	JLM	8.25"	2" PVC	0.020"	22.0 ft.

Start/Finish Date	**Drilling Contractor:**	**Sampling:** Split Spoon	**Development Method:**
5/7/15 - 5/22/15	Atlantic Testing Laboratories, Inc.	**Hammer Type:** 140lb Auto.	Bailer: ~10 gallons removed.

Driller:	**Drilling Method:**	**Drilling Equipment:**		
A. Conant	HSA	CME 75	**Horiz Datum/Proj:** NYS Plane NAD83 **Vert Datum:** NGVD 29 **Ground Surface Elev:** 25.9 ft.	**Easting:** 706845.6 ft. **Northing:** 1410321.6 ft. **TOC Elev:** 28.5 ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well	ppm Readings (ppm)	Remarks
	25	SW	**FILL** Dark brown cmf SAND and GRAVEL (slag, brick), some Silt. Dry.	N/A	1			*Boring hand cleared to 5' BGS.* 0.0-5.0' BGS: Black discolored grains (flat luster). 0.8-1.0' BGS: Black gravel sized solid tar-like material (submetallic luster).
		SW	Dark brown cmf SAND and GRAVEL (slag, brick), some Silt. Moist.					
		GW	Same as above.					
5		GW	Red brown/gray cmf GRAVEL (slag, brick), some (-) Sand, little Silt. Moist					*0.0-6.0' BGS: Cement/Bentonite Grout*
	20		Same as above.					
			Split-spoon samples not collected from 5-13' BGS. Refer to MW-2D boring log for description of soils from this interval.					*6.0-7.0' BGS: Bentonite Seal*
10								
	15							
		SW	Dark brown/white cmf SAND, some cmf Gravel (slag, fire brick, ash), little Silt. Dry.	28-51-50/2"	2		145.5	*13.0' BGS: Begin using 3" split-spoon.* 13.0-13.8' BGS: Faint mothball-like odor.
15		GW	Dark brown cmf GRAVEL (slag, brick), some cmf Sand, little Silt. Saturated.	20-28-33-50/2"	3		23.0	*7.0-20.0' BGS: #1 Filter Sand*
	10	SW	Black cmf SAND (slag, brick), some Silt. Saturated.					15.0-15.6' BGS: Black discoloration (flat luster). *10.0-20.0' BGS: 0.020" Slot PVC Screen.*
		GW	Black cmf GRAVEL (slag, brick), little mf Sand, little Silt. Saturated.	8-2-4-12	4		67.9	19.0-19.8' BGS: Black greasy tar-like material (flat to submetallic luster), moderate petroleum-like odor. Sample MW-2S-19-19.8 collected and submitted for laboratory analysis.
20		CL/ML	**SILT & CLAY/CLAY & SILT** Green brown/gray SILT & CLAY/ CLAY & SILT (increasing Clay content with depth). Wet.					*20.0-22.0' BGS: 2" PVC Sump w/ bentonite in annular space between borehole and sump.*
	5							

WELL LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Well No.** **MW-3D** **Page** 1 **of** 2

Inspector/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
RB/Albany, NY	JLM	8.25"	2" PVC	0.020"	38.2 ft.

Start/Finish Date	Drilling Contractor:	Sampling:	Development Method:
5/6/15 - 5/20/15	Atlantic Testing Laboratories, Inc.	Split Spoon **Hammer Type:** 140lb Auto.	Surge and Purge w/ Whale Pump: ~70 gallons purged.

Driller:	Drilling Method:	Drilling Equipment:		
A. Conant	HSA	CME 75	**Horiz Datum/Proj:** NYS Plane NAD83 **Vert Datum:** NGVD 29 **Ground Surface Elev:** 25.5 ft.	**Easting:** 706849.0 ft. **Northing:** 1410216.9 ft. **TOC Elev:** 28.1 ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well	ppm Readings (ppm)	Remarks
	25	SW	**FILL** Dark brown cmf SAND and GRAVEL (slag, brick), some Silt. Dry.	N/A	1			*Boring hand cleared to 5' BGS.* 0.0-1.4' BGS: Black discolored grains (flat to submetallic luster).
		ML	Dark to light brown Clayey SILT, little mf Sand. Dry.					1.4-2.8' BGS: Infrequent black discoloration (flat luster).
		GW	Black cmf GRAVEL, some cm Sand, little Silt. Dry					
		GW	Same as above.					
5	20	GW	Dark brown cmf GRAVEL (slag, brick), some cm Sand, trace Silt and Organics (dried grass, roots). Moist.	WOH-1-WOH-3	2		19.7	2.8-3.0' BGS: Black discolored grains (flat to submetallic luster).
		GW	Dark brown cmf GRAVEL (slag, brick), some cm Sand, trace Silt. Moist.	1-1-3-12	3		11.7	5.0-7.6'BGS: Infrequent black discoloration (flat luster), faint to moderate mothball-like odor.
		GW	Black cmf GRAVEL (slag, brick), little c Sand. Saturated.	31-13-10-13	4		518.3	
10	15							*0.0-20.0' BGS: Cement/Bentonite Grout*
		GW	Black cmf GRAVEL (slag, brick), little c Sand. Saturated.	20-20-17-25	5		301.7	
		GW	Brown cmf SAND (slag, brick), little mf Gravel, little Silt. Wet.	21-18-18-19	6		552.9	9.0-15.9' BGS: Black tacky/greasy tar-like material (flat to submetallic luster), strong mothball/petroleum-like odor, specks of sheen on surface of water in split-spoon.
15	10	GW	Same as above.	6-10-10-14	7		143.9	
		SW	**SAND AND GRAVEL** Dark gray cmf SAND, some (-) Silt. Saturated.	10-20-25-20	8		908.2	17.0-32.1' BGS: Black tacky/greasy tar-like material (flat to metallic luster) strong mothball-like odor, specks of sheen on surface of water in split-spoon.
		SW	Black cmf SAND and mf GRAVEL, little Silt. Saturated.	7-7-5-37	9		1557	
20	5	SW	Black cmf SAND, some (-) Gravel (sub-angular to sub-rounded), some (-) Silt. Saturated.	36-8-21-14	10		743.9	*20.0-22.5' BGS: Bentonite Seal*
		SW	Same as above.					
		SW	Black cmf SAND and cmf GRAVEL (sub-rounded), little Silt. Saturated.	2-3-4-5	11		648.0	23.0-23.7' BGS: Sporadic NAPL blebs, sand grains partially coated with NAPL, black tacky/greasy tar-like material (flat to submetallic luster), strong mothball-like odor, specks of sheen on surface of water in split-spoon.
			Same as above.					
25	0	SW	Black cmf SAND and cmf GRAVEL (sub-rounded), little Silt, trace Organics (roots). Saturated.	4-5-5-12	12		1351	
		SW	Black cmf SAND, some Silt, little mf Gravel (sub-rounded to rounded), little Organics (roots). Wet.	14-9-8-9	13		393.5	*22.5-34.5' BGS: #1 Filter Sand*
		SW	Black cmf SAND, some cmf Gravel (sub-rounded to rounded), some Silt. Saturated.	2-4-5-4	14		239.4	Sample MW-3D-33.5-34 collected and submitted for laboratory analysis
30	-5							

WELL LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Well No.** **MW-3D** **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well	ppm Readings (ppm)	Remarks
		SW	Same as above.	4-7-6-6	15		496.3	29.0-30.2' BGS: Sporadic NAPL blebs, sand grains partially coated with NAPL, black tacky/greasy tar-like material (flat to submetallic luster), strong mothball-like odor, specks of sheen on surface of water in split-spoon. *24.5-34.5' BGS: 0.020" Slot PVC Screen.* 32.1-32.4' BGS: Grains coated to saturated with NAPL, black tacky/greasy tar-like material (flat to submetallic luster), strong mothball-like odor, specks of sheen on surface of water in split-spoon. 33.6-34.0' BGS: Grains coated to saturated with NAPL, black tacky/greasy tar-like material (flat to submetallic luster), strong mothball-like odor, specks of sheen on surface of water in split-spoon. *34.5-35.5' BGS: 2" PVC Sump w/ bentonite in annual space between borehole and sump.* 35.0-35.6' BGS: Black discoloration (flat to sub-metallic), strong mothball-like odor. *35.5-38.2' BGS: Bentonite backfill* Split-spoon refsual on top of rock surface @ 37' BGS.
		GW ML GW	Black cmf GRAVEL (angular to sub-rounded), some cmf Sand and Silt, trace Organics (roots). Saturated. Dark gray Clayey SILT, some f Sand, trace Organics (roots). Moist.	8-12-10-11	16		81.9	
35	-10	SW SW	Black cmf GRAVEL (angular to sub-rounded), some cmf Sand and Silt, trace Organics (roots). Saturated. Dark gray/black cmf SAND and cmf GRAVEL (sub-angular to sub-rounded), some Silt. Same as above with pieces of black weathered, decomposed bedrock (Silt and Clay), pieces of angular Shale. Saturated.	14-12-19-16 15-22-50/2"	17 18		241 19.5	
			WEATHERED BEDROCK Black weathered, decomposed bedrock (Silt and Clay), pieces of angular Shale. Saturated.					

WELL LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Well No.** **MW-3S** **Page** 1 **of** 1

Inspector/Office	**Checked By:**	**Borehole Diameter:**	**Screen Diameter and Type:**	**Slot Size:**	**Total Boring Depth (ft)**
RB/Albany, NY	JLM	8.25"	2" PVC	0.020"	19.5 ft.

Start/Finish Date	**Drilling Contractor:**	**Sampling:** Split Spoon	**Development Method:**
5/7/15 - 5/21/15	Atlantic Testing Laboratories, Inc.	**Hammer Type:** 140lb Auto.	Bailer: ~20 gallons removed.

Driller:	**Drilling Method:**	**Drilling Equipment:**		
A. Conant	HSA	CME 75	**Horiz Datum/Proj:** NYS Plane NAD83 **Vert Datum:** NGVD 29 **Ground Surface Elev:** 25.7 ft.	**Easting:** 706855.4 ft. **Northing:** 1410216.0 ft. **TOC Elev:** 28.3 ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well	ppm Readings (ppm)	Remarks
	25	SW	**FILL** Dark brown cmf SAND and GRAVEL (slag, brick), some (-) Silt. Dry.	N/A	1			*Boring hand cleared to 5' BGS* 0.0-5.0' BGS Black discolored grains (flat to submetallic luster).
		SW	Same as above.					*0.0-5.0' BGS: Cement/Bentonite Grout*
		ML	Dark to light brown Clayey SILT, little mf Sand. Dry.					
		SW	Dark brown/black cmf SAND and GRAVEL (slag, brick), some (-) Silt. Dry.					
5	20		Same as above.					
			Split-spoon samples not collected from 5-9' BGS. Refer to MW-3D boring log for description of soils from this interval.					*5.0-7.5' BGS: Bentonite Seal*
		GW	Dark brown cmf GRAVEL (slag, brick), some cm Sand, trace Silt. Saturated.	16-13-13-8	2		>2000	9.0'-12.8' BGS: Sporadic occurrences of black tacky tar-like material (taffy-like consistency, flat to submetallic luster), strong mothball-like odor, specks of sheen on surface of water in split-spoon. Sample MW-3S-11-13 collected and submitted for laboratory analysis
10	15							
		SW	Black cmf SAND, little mf Gravel (slag, brick). Saturated.	15-32-44-50/2"	3		>2000	
		GW	Red brick fragments					
		SW	Black cmf SAND and GRAVEL (slag, brick), trace Silt. Saturated.	13-16-33-37	4		1911	
		SW	Black cmf SAND, little mf Gravel (slag, brick) and Silt. Saturated.					
15	10	GW	Black cmf Gravel (slag, brick), some cmf Sand, trace Silt. Saturated.	10-8-6-6	5		1841	*7.5-19.5' BGS: #1 Filter Sand* *9.5-19.5' BGS: 0.020" Slot PVC Screen*
		SW	**SAND AND SILT** Black cmf SAND, some Silt, little Organics (roots, wood). Saturated.	10-76-23-15	6		1756	
		SW	Black mf SAND and SILT, trace Organics (roots, wood), trace Clay, compact. Wet.					
		SW	Black mf SAND and SILT, little f Gravel (sub-angular to sub-rounded), trace Organics (roots, wood), trace Clay. Wet.					*19.5-21.5' BGS: 2" PVC Sump w/ bentonite in annular space between borehole and sump.*

WELL LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Well No.** **MW-4D** **Page** 1 **of** 2

Inspector/Office	**Checked By:**	**Borehole Diameter:**	**Screen Diameter and Type:**	**Slot Size:**	**Total Boring Depth (ft)**
RB/Albany, NY	JLM	8.25"	2" PVC	0.020"	35.9 ft.

Start/Finish Date	**Drilling Contractor:**	**Sampling:** Split Spoon	**Development Method:**
5/6/15 - 5/19/15	Atlantic Testing Laboratories, Inc.	**Hammer Type:** 140lb Auto.	Surge and Purge w/ Whale Pump: ~90 gallons purged.

Driller:	**Drilling Method:**	**Drilling Equipment:**		
A. Conant	HSA	CME 75	**Horiz Datum/Proj:** NYS Plane NAD83 **Vert Datum:** NGVD 29 **Ground Surface Elev:** 25.0 ft.	**Easting:** 706866.3 ft. **Northing:** 1410122.3 ft. **TOC Elev:** 27.7 ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well	ppm Readings (ppm)	Remarks
		SW	**FILL** Dark brown cmf SAND and cmf GRAVEL (slag, brick), some Silt. Dry.	N/A	1			*Boring hand cleared to 5' BGS.* 0.0-5.0' BGS: Black discolored grains (flat to sub-metallic luster). 1.0-2.0'BGS: Gravel sized nodules of solid tar-like material (submetallic luster).
		SW	Black cmf SAND, some (+) mf Gravel (slag, brick), some (+) Silt. Dry.					
		GW	Black cmf SAND and cmf GRAVEL (slag, brick), little Silt. Dry.					
		GW	Black cmf GRAVEL, some (-) cm Sand (slag, brick). Dry.					
5	20	SW	Same as above.	1-WOH-WOH-2	2		0.9	
		GW	Dark brown/black cmf SAND, little Gravel (slag, brick, coal), little Silt. Moist.	11-13-9-8	3		1.0	
		GW	Same as above.					
		GW	Black cmf GRAVEL and cmf SAND (slag, brick, coal), little Silt. Dry.	5-12-21-32	4		0.8	
		SW	Dark/red brown cmf SAND, some Silt, little Gravel (slag, brick). Dry.					
10	15	SW	Dark/red brown cmf SAND, some Silt, little Gravel (slag, brick). Moist.	26-30-32-42	5		0.3	*0.0-23.0' BGS: Cement/Bentonite Grout*
		SW	Dark/red brown cmf SAND, some Silt, little Gravel (slag, brick), little Clay. Wet.	40-50/5"	6		0.6	
		SW	Dark gray mf SAND and SILT, trace f Gravel (slag, brick, coal), trace Clay, trace Organics (roots, wood). Saturated.	5-11-7-4	7		0.9	5.0-21.4' BGS: Sporadic black discolored grains (flat to sub-metallic luster).
15	10	SW	Same as above.	13-26-26-21	8		0.8	
		SW	**SAND AND SILT** Dark gray cmf SAND, some Silt, some mf Gravel (sub-angular to sub-rounded), little Organics (roots). Saturated.	6-8-7-15	9		0.1	
		SW	Same as above.	15-12-10-9	10		0.2	
20	5	SW	Dark gray mf SAND and SILT, little Clay, trace f Gravel, trace Organics (roots). Saturated.	4-5-6-5	11		0.3	
			SAND AND GRAVEL					*23.0-25.5' BGS: Bentonite Seal*
		GW	Dark gray cmf SAND, some mf Gravel (sub-angular to sub-rounded), trace Silt, trace Organics (roots). Saturated.	5-25-26-6	12		0.4	
		GW	Dark gray cmf GRAVEL (sub-angular to sub-rounded), some cmf Sand, trace Organics (roots), trace Silt. Saturated.	5-5-5-6	13		0.5	
25	0		Same as above.					
		SW	Dark gray cmf SAND, little Silt, little Gravel, little Organics (roots, wood). Saturated.	1-3-4-2	14		0.5	Sample MW-4D-29-29.8 collected and submitted for laboratory analysis.
30	-5							

WELL LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Well No.** **MW-4D** **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Well	ppm Readings (ppm)	Remarks
		SW	Same as above.	3-3-9-9	15					0.1	*25.5-34.0' BGS: #1 Filter Sand* *27.5-33.5' BGS: 0.020" Slot PVC Screen*
		SW	Same as above.	1-3-3-4	16					0.2	
		ML	Gray Clayey SILT, little f Sand. Saturated.								
35	-10		**WEATHERED BEDROCK** Black weathered, decomposed bedrock (Silt and Clay), pieces of angular Shale. Wet	14-50/5"	17					0.3	*34.0-35.9' BGS: Bentonite backfill* Split-spoon refusal on top of rock surface @ 35' BGS.

WELL LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Well No.** **MW-4S** **Page** 1 **of** 1

Inspector/Office	**Checked By:**	**Borehole Diameter:**	**Screen Diameter and Type:**	**Slot Size:**	**Total Boring Depth (ft)**
RB/Albany, NY	JLM	8.25"	2" PVC	0.020"	21.0 ft.

Start/Finish Date	**Drilling Contractor:**	**Sampling:** Split Spoon	**Development Method:**
5/6/15 - 5/20/15	Atlantic Testing Laboratories, Inc.	**Hammer Type:** 140lb Auto.	Bailer: ~20 gallons removed.

Driller:	**Drilling Method:**	**Drilling Equipment:**		
A. Conant	HSA	CME 75	**Horiz Datum/Proj:** NYS Plane NAD83 **Vert Datum:** NGVD 29 **Ground Surface Elev:** 25.3 ft.	**Easting:** 706876.3 ft. **Northing:** 1410127.4 ft. **TOC Elev:** 28.1 ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Well	ppm Readings (ppm)	Remarks
		SW	**FILL** Dark brown cmf SAND and cmf GRAVEL (slag, brick), some Silt. Dry.	N/A	1			*Boring hand cleared to 5' BGS.*
		SW	Black cmf SAND, some (+) mf Gravel (slag, brick), some(+) Silt. Dry.					
		GW	Black cmf SAND and cmf GRAVEL (slag, brick), littleSilt. Dry.					0.0-5.0' BGS: Black discolored grains (flat luster).
		GW	Black cmf GRAVEL, some (-) cm Sand (slag, brick). Dry.					
5	20		Same as above.					*0.0-12.0' BGS: Cement/Bentonite Grout*
			Split-spoon samples not collected from 5-15' bgs. Refer to MW-4D boring log for description of soils from this interval.					
10	15							*12.0-13.0' BGS: Bentonite Seal*
15	10	SW	Black cmf SAND, some Silt, little Gravel (slag, brick), little Organics (wood fragments). Wet.	53-50/2"	2		2.6	*15.0' BGS: Begin using 3" split-spoon.*
		SW	Black cmf SAND, some Silt, little Gravel (slag, brick), little Organics (wood fragments). Saturated	30-50/1"	3		3.5	*13.0-21.0' BGS: #1 Filter Sand* *15.0-21.0' BGS: 0.020" Slot PVC Screen*
		SW	Same as above.	2-5-6-7	4		1.9	Sample MW-4S-19-19.6 collected and submitted for laboratory analysis.
20	5	CL/ML	**SILT & CLAY/CLAY & SILT** Green brown/gray SILT & CLAY/CLAY & SILT. Wet.					

BORING LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Boring No.** SB-1 **Page** 1 **of** 1

Inspector/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
RB/Albany, NY	JLM	8.25"	NA	N/A"	29.7 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
5/7/15 - 5/18/15	Atlantic Testing Laboratories, Inc.	Hammer Type: 140lb Auto.	N/A

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NYS Plane NAD83	Easting: 706954.5 ft.
A. Conant	HSA	CME 75	Vert Datum: NGVD 29	Northing: 1410104.9 ft.
			Ground Surface Elev: 26.4 ft.	TOC Elev: N/A ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Backfill	ppm Readings (ppm)	Remarks
		SW	**FILL** Dark brown cmf SAND and GRAVEL (slag, brick), some (-) Silt. Dry.	N/A	1			*Boring backfilled with cement/bentonite grout. Boring hand cleared to 5' BGS.*
	25	SW	Same as above.					0.0-2.15' BGS: Sporadic nodules of gravel-sized black material with a submetallic luster.
		ML	Dark to light brown Clayey SILT, little mf Sand. Dry.					
		SW	Dark brown cmf SAND and GRAVEL (slag, brick), some (-) Silt. Dry.					
5		GW	Same as above.	4-6-4-4	2		11.2	Sample SB-1-1-2 collected and submitted for laboratory analysis.
	20		Dark brown cmf GRAVEL (slag, brick), some (+) cm Sand, trace Silt. Dry.					2.15-2.6' BGS: Few occurrences of black discoloration (flat luster).
		GW	Same as above.	8-7-10-28	3		5.3	2.6-5.0' BGS: Black discoloration (flat to sub-metallic luster).
		GW	Dark brown cmf GRAVEL (slag, brick, ash, coal), little cm Sand. Moist.	7-13-13-7	4		5.9	Sample SB-1-5-5.7 collected and submitted for laboratory analysis.
10								
	15	GW	Dark/red brown cmf GRAVEL (slag, brick, ash, coal), little cm Sand, trace Silt. Moist.	15-15-12-13	5		5.0	Sample SB-1-11-12.3 collected and submitted for laboratory analysis.
		GW	Same as above.	8-6-7-16	6		0.3	
15		SW	Dark brown cmf SAND and SILT, some cm Gravel (slag, brick, coal). Moist.	13-7-10-51	7		0.0	5.0-21.1' BGS: Sporadic occurences of black discoloration (flat to submetallic luster).
	10							
		SW	Dark brown cmf SAND and SILT, some cm Gravel (slag, brick, coal), little Organics (wood fragments). Wet.	44-30-23-24	8		0.1	Sample SB-1-17-18.2 collected and submitted for laboratory analysis.
		SW	Dark brown cmf SAND and SILT, little Gravel (rounded), trace Organics (roots).	11-11-8-10	9		0.2	
20		GW	Saturated.					
	5	SW	Black cmf Gravel, some cm Sand (slag) Sand, trace Silt. Saturated.	11-10-5-3	10		0.0	
			SAND AND SILT					
		SP	Dark gray cmf SAND, some mf Gravel. Saturated.	4-7-6-4	11		0.0	Sample SB-1-23-24.3 collected and submitted for laboratory analysis.
			Dark gray f SAND and SILT, trace Organics (roots), @ 23.6' BGS lens of wood					
25		SP	fragments/coal. Saturated.	7-4-4-5	12		0.0	
	0		Dark gray f SAND and SILT, trace Organics (roots), trace f Gravel (sub-rounded) with layers/varve. Saturated.					
		SP	Same as above.	3-9-9-8	13		0.1	Sample SB-1-27-27.8 collected and submitted for laboratory analysis.
			WEATHERED BEDROCK Black weathered, decomposed bedrock (Silt and Clay), pieces of angular Shale. Wet.	25-44-50/3"	14		0.0	Split-spoon refusal on top of rock surface @ 29.1' BGS.

BORING LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Boring No.** **SB-2** **Page** 1 **of** 2

Inspector/Office	**Checked By:**	**Borehole Diameter:**	**Screen Diameter and Type:**	**Slot Size:**	**Total Boring Depth (ft)**
RB/Albany, NY	JLM	8.25"	NA	N/A"	33.2 ft.

Start/Finish Date	**Drilling Contractor:**	**Sampling:** Split Spoon	**Development Method:**
5/7/15 - 5/13/15	Atlantic Testing Laboratories, Inc.	**Hammer Type:** 140lb Auto.	N/A

Driller:	**Drilling Method:**	**Drilling Equipment:**		
A. Conant	HSA	CME 75	**Horiz Datum/Proj:** NYS Plane NAD83 **Vert Datum:** NGVD 29 **Ground Surface Elev:** 25.4 ft.	**Easting:** 706810.4 ft. **Northing:** 1410263.5 ft. **TOC Elev:** N/A ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Backfill	ppm Readings (ppm)	Remarks
		SW	**FILL** Brown cmf SAND and GRAVEL (slag, brick), some Silt. Dry.	N/A	1			*Boring backfilled with cement/bentonite grout. Boring hand cleared to 5' BGS.* Sample SB-2-0-1 collected and submitted for laboratory analysis. 0.0-2.0' BGS Black discoloration (flat to submetallic luster), sporadic nodules of gravel-sized black material with a submetallic luster. 2.0-5.0' BGS: Black discoloration (flat luster). 5.0-7.9' BGS: Infrequent black discoloration (flat to submetallic luster), faint mothball-like odor. Sample SB-2-7-7.9 collected and submitted for laboratory analysis. Sample SB-2-13-14.5 collected and submitted for laboratory analysis. 13.0-14.5' BGS: Black tacky/stringy tar-like material (sub-metallic to metallic luster), strong mothball-like odor. 15.0-19.3' BGS: Infrequent black discoloration (flat luster), faint to moderate mothball-like odor, specks of sheen on surface of water in split-spoon. Sample SB-2-19-19.3 collected and submitted for laboratory analysis. 21.0-32.0' BGS: Black discoloration (sub-metallic to metallic luster), faint to moderate petroleum-like odor, specks of sheen on surface of water in split-spoon. Sample SB-2-25-25.8 collected and submitted for laboratory analysis.
		SW	Black cm SAND, some (+) mf Gravel (slag, brick), little Silt. Dry.					
		SW	Brown cmf SAND and GRAVEL (slag, brick), littleSilt. Dry.					
		SW	Same as above.					
5	20	SW	Same as above.	13-10-2-3	2		22.8	
		SW	Black cmf SAND and mf GRAVEL (slag, brick), little (-) Silt. Dry.	9-32-50/2"	3		72.4	
		GW	Red brown cmf GRAVEL (slag, brick), little (-) cm Sand. Dry.	1-3-1-2	4		1.3	
10	15	GW	Red brown cmf GRAVEL (slag, brick), little (-) cm Sand. Moist	2-2-2-2	5		8.6	
		GW	Black cmf GRAVEL (slag, brick), some cm Sand, trace Silt, trace Organics (roots). Moist.	14-19-14-32	6		335.4	
15	10	SW	Black cmf SAND, some (-) Gravel (slag, brick), little Silt. Moist.	15-28-15-16	7		59.2	
		SW	Black cmf SAND and GRAVEL (slag, brick, ash), trace Silt. Moist.					
		GW	Black cmf SAND and GRAVEL (slag, brick, ash), trace Silt. Wet.	13-13-14-15	8		16.3	
		GW	Dark gray cmf GRAVEL (slag, brick), little cm Sand. Moist.	2-3-2-2	9		72.3	
20	5	GW	Dark gray cmf GRAVEL (slag, brick), little cm Sand. Saturated	4-4-4-7	10		56.4	
		GW	Black cmf GRAVEL (slag, brick). Saturated.	4-6-2-2	11		37.9	
25	0	GW	Black cmf GRAVEL (slag, brick), some mf Sand. Saturated.	1-5-5-3	12		45.6	
		GW	Same as above.	7-8-9-10	13		19.7	
		SP	**SAND AND SILT**					
		SW	Dark gray/black f SAND and SILT. Saturated.	16-13-11-9	14		30.6	
30	-5		**SAND AND GRAVEL** Dark gray/black cmf GRAVEL (sub					

BORING LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Boring No.** **SB-2** **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Backfill	ppm Readings (ppm)	Remarks
		SW	angular to rounded), some (+) cm Sand, trace Silt. Saturated.	7-50/5"	15					30.1	Sample SB-2-31-32 collected and submitted for laboratory analysis.
			Same as above.								
			Dark gray cmf SAND and cmf GRAVEL (sub-rounded), little (+) SIlt. Saturated.	50/2"	16					73.2	31.9' BGS: Top of weathered bedrock.
			WEATHERED BEDROCK Black weathered, decomposed bedrock (Silt and Clay), pieces of angular Shale.								

BORING LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Boring No.** **SB-3** **Page** 1 **of** 2

Inspector/Office	**Checked By:**	**Borehole Diameter:**	**Screen Diameter and Type:**	**Slot Size:**	**Total Boring Depth (ft)**
RB/Albany, NY	JLM	8.25"	NA	N/A"	31.3 ft.

Start/Finish Date	**Drilling Contractor:**	**Sampling:** Split Spoon	**Development Method:**
5/5/15 - 5/14/15	Atlantic Testing Laboratories, Inc.	**Hammer Type:** 140lb Auto.	N/A

Driller:	**Drilling Method:**	**Drilling Equipment:**		
A. Conant	HSA	CME 75	**Horiz Datum/Proj:** NYS Plane NAD83 **Vert Datum:** NGVD 29 **Ground Surface Elev:** 27.5 ft.	**Easting:** 706960.3 ft. **Northing:** 1410341.8 ft. **TOC Elev:** N/A ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Backfill	ppm Readings (ppm)	Remarks
		SW	**FILL** Dark brown cmf SAND, some Silt, little f Gravel (slag, brick). Dry.	N/A	1						*Boring backfilled with cement/bentonite grout. Boring hand cleared to 5' BGS.* 0.0-3.0' BGS: Faint to moderate mothball-like odor. 0.3-5.0' BGS: Black discoloration (flat luster).
	25	SW	Same as above.								
		SW	Same as above.								
		SW	Dark brown cmf SAND and GRAVEL (slag, brick), some Silt. Dry.								
		SW	Same as above.								
5		SW	Dark brown cmf SAND, some (-) Gravel (slag, brick, coal), little Silt, little Organics (roots). Dry.	2-6-6-3	2					4.5	Sample SB-3-3-4 collected and submitted for laboratory analysis.
	20	SW	Dark/red brown cmf SAND, some (-) Gravel (slag, brick, coal), little Silt. Dry.	6-10-13-15	3					3.7	5.0-5.9' BGS: Black discoloration (sub-metallic to metallic luster).
		SW	Same as above.	13-9-9-13	4					5.3	Sample SB-3-7-8.7 collected and submitted for laboratory analysis.
10											
		SW	Same as above.	22-11-8-6	5					0.2	
	15										
		GW	Red brown cmf GRAVEL, some Sand, trace Silt. Moist.	4-31-33-12	6					0.5	Sample SB-3-13-14 collected and submitted for laboratory analysis.
15		GW	Same as above.	25-13-17-17	7					0.0	7.0-22.3' BGS: Sporadic occurences of black discoloration (flat luster).
	10	GW	Red brown cmf GRAVEL, some Sand, trace Silt. Wet	7-8-9-25	8					0.1	
		GW	Same as above.	8-14-10-6	9					1.4	
20		SW	White/red cmf SAND (fire brick, brick). Moist.								
		SW	Dark brown cmf SAND and GRAVEL (slag, brick). Wet.	8-4-3-3	10					2.4	Sample SB-3-21-22.3 collected and submitted for laboratory analysis.
	5		**SAND AND SILT**								
		SP	Dark gray/black f SAND and SILT, little f Gravel (rounded). Saturated.	WOH-WOH-WOH-1	11					0.1	
25		SP	Dark gray/black f SAND and SILT, some (-) Silty Clay, trace Gravel. Moist.								
		SP	Dark gray f SAND and SILT, some (-) Silty Clay. some Organics (wood), trace Gravel (shells). Moist.	2-3-24-21	12					25.9	Sample SB-3-25-25.4 collected and submitted for laboratory analysis.
	0		Dark gray/black f SAND and SILT, some (-) Silty Clay, trace Gravel with black weathered, decomposed bedrock (Silt andCclay), pieces of angular shale and core-sized pieces of wood.	62-37-44-33	13						
		SP		8-12-11-14	14					1.2	Sample SB-3-29-29.7 collected and submitted for laboratory analysis.
30		—	Wood fragments.								
			Dark gray f SAND and SILT, some (-) Silty								

BORING LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Boring No.** SB-3 **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Backfill	ppm Readings (ppm)	Remarks
			Clay, trace Gravel (black weathered, decomposed bedrock (Silt and Clay), pieces of angular Shale). Saturated. **WEATHERED BEDROCK** Black weathered, decomposed bedrock (Silt and Clay), pieces of angular Shale.	25-50/3"	15					0.0	Split-spoon refusal on top of rock surface @ 31.3' BGS.

BORING LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Boring No.** **SB-4** **Page** 1 **of** 2

Inspector/Office	**Checked By:**	**Borehole Diameter:**	**Screen Diameter and Type:**	**Slot Size:**	**Total Boring Depth (ft)**
RB/Albany, NY	JLM	8.25"	NA	N/A"	40.7 ft.

Start/Finish Date	**Drilling Contractor:**	**Sampling:** Split Spoon	**Development Method:**
5/7/15 - 5/13/15	Atlantic Testing Laboratories, Inc.	**Hammer Type:** 140lb Auto.	N/A

Driller:	**Drilling Method:**	**Drilling Equipment:**		
A. Conant	HSA	CME 75	**Horiz Datum/Proj:** NYS Plane NAD83 **Vert Datum:** NGVD 29 **Ground Surface Elev:** 26.9 ft.	**Easting:** 706916.9 ft. **Northing:** 1410189.8 ft. **TOC Elev:** N/A ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Backfill	ppm Readings (ppm)	Remarks
		SW	**FILL** Light brown cmf SAND, some mf Gravel and Silt. Dry.	N/A	1						*Boring backfilled with cement/bentonite grout. Boring hand cleared to 5' BGS.*
	25		Concrete pad								2.0-5.0' BGS: Black discoloration (flat luster). Sample SB-4-3-4 collected and submitted for laboratory analysis.
		SW	Dark brown cmf SAND, some cmf Gravel (slag, brick) and Silt. Moist.								
		GW	Dark brown cmf SAND and GRAVEL (slag, brick). Moist.								
5		GW	Dark brown cmf GRAVEL (slag, brick), some cm Sand, little Silt. Moist.	1-2-2-2	2					1.6	
	20		Black cmf GRAVEL (slag, brick, fire brick),								
		GW	some (-) cm Sand, trace Silt. Dry. Same as above.	2-2-2-2	3					0.8	5.0-10.5' BGS: Infrequent occurrences of black discoloration (flat to sub-metallic luster). Sample SB-4-9-10.5 collected and submitted for laboratory analysis.
		SW	Red/light brown cmf SAND, some Silt,	1-WOH-WOH-8	4					1.2	
10		SW	trace f Gravel. Moist. Dark brown f SAND and SILT, trace f								
	15	GW	Gravel. Moist. Black cmf GRAVEL (slag, brick), little cm Sand. Moist.	24-10-6-17	5					0.3	
		GW	Black cmf GRAVEL (slag, brick), trace c Sand. Moist.	11-50/1"	6					0.0	
15		SW	Dark brown cmf SAND and mf GRAVEL (slag, brick, ash). Moist.	23-50/4"	7					0.9	Sample SB-4-15-15.6 collected and submitted for laboratory analysis.
	10										
		SW	Black cmf SAND and mf GRAVEL, little	14-5-4-60	8					9.1	
		SW	Silt. Saturated. Dark gray/black f SAND and SILT. Moist.								
20		GW	Dark brown cmf GRAVEL (slag, brick, ash), some cmf Sand, trace Silt. Saturated.	9-12-44-32	9					0.3	17.0-22.1' BGS: Infrequent occurences of black discoloration (flat to sub-metallic), faint petroleum-like odor, specks of sheen of surface of water in split-spoon.
	5	GW	Same as above.	17-14-20-27	10					5.6	
		GW	Same as above.	3-3-6-8	11					0.7	Sample SB-4-21-22.1 collected and submitted for laboratory analysis.
		CL/ML	**SILT & CLAY/CLAY & SILT** Green brown/gray SILT & CLAY/CLAY								
25		CL/ML	& SILT. Wet. Same as above.	7-8-8-12	12					0.3	
	0										
		CL/ML	Green brown/gray SILT & CLAY/CLAY & SILT, trace c Sand, trace f Gravel. Wet.	8-9-15-15	13					0.8	Sample SB-4-27-28.7 collected and submitted for laboratory analysis.
		CL/ML	Green brown/gray SILT & CLAY/CLAY	1-3-3-5	14					0.0	
30			& SILT, trace c Sand, trace f Gravel, trace Organics, with layering/varving. Wet.								

BORING LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Boring No.** **SB-4** **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Backfill	ppm Readings (ppm)	Remarks
	-5	CL/ML	Same as above.	7-8-11-9	15					0.0	
		SP	**SAND AND SILT**								
		SP	Brown/dark gray f SAND, some (+) Silt, some (+) Organics (wood). Wet.	1-2-1-2	16					0.4	
			Same as above.								
35		ML	Gray Clayey SILT, trace f SAND. Saturated.	6-8-12-27	17					0.0	Sample SB-4-35-36.9 collected and submitted for laboratory analysis.
		SP	Dark gray f SAND, some Silt, some Organics (wood), Wet.								
	-10										
		SW	**SAND AND GRAVEL**	25-23-22-26	18					0.0	
			Dark gray cmf SAND and GRAVEL (sub-rounded), little Silt. Saturated.								
			WEATHERED BEDROCK	7-20-60-50/2"	19					0.0	Sample SB-4-39-40.3 collected and submitted for laboratory analysis.
40			Black weathered, decomposed bedrock (Silt and Clay), pieces of angular Shale.								Split-spoon refusal on top of rock surface @ 39' BGS.

BORING LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Boring No.** **SB-5** **Page** 1 **of** 2

Inspector/Office	**Checked By:**	**Borehole Diameter:**	**Screen Diameter and Type:**	**Slot Size:**	**Total Boring Depth (ft)**
RB/Albany, NY	JLM	8.25"	NA	N/A"	33.1 ft.

Start/Finish Date	**Drilling Contractor:**	**Sampling:** Split Spoon	**Development Method:**
5/6/15 - 5/12/15	Atlantic Testing Laboratories, Inc.	**Hammer Type:** 140lb Auto.	N/A

Driller:	**Drilling Method:**	**Drilling Equipment:**		
A. Conant	HSA	CME 75	**Horiz Datum/Proj:** NYS Plane NAD83 **Vert Datum:** NGVD 29 **Ground Surface Elev:** 26.0 ft.	**Easting:** 706807.1 ft. **Northing:** 1410360.8 ft. **TOC Elev:** N/A ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Backfill	ppm Readings (ppm)	Remarks
	25	SW	**FILL** Dark brown cmf SAND and cmf GRAVEL (slag, brick), some Silt. Dry.	N/A	1						*Boring backfilled with cement/bentonite grout. Boring hand cleared to 5' BGS.* 0.0-3.0' BGS: Black discoloration (flat to submetallic luster), sporadic nodules of gravel-sized black material (submetallic luster).
		SW	Dark brown cmf SAND and cmf GRAVEL (slag, brick), some Silt. Moist.								
		GW	Dark/red brown cmf GRAVEL (slag, brick), some (-) cm Sand, little Silt. Moist.								
		GW	Same as above.								
5		ML	Same as above.	4-3-4-5	2					224.8	Sample SB-5-3-4 collected and submitted for laboratory analysis.
	20		Dark brown Clayey SILT, some (-) Sand, little Gravel (slag, brick). Wet.								
		ML	Same as above.	9-9-16-12	3					120.3	5.0-8.6' BGS: Black tacky/stringy tar-like material (sub-metallic to metallic luster),strong mothball-like odor. Sample SB-5-7-8.6 collected and submitted for laboratory analysis.
		ML	Dark brown Clayey SILT, some (-) Sand, little Gravel (slag, brick), little Organics								
		ML									
		SW	(wood fragments). Wet.	1-2-6-8	4					8.6	
10			Dark brown Clayey SILT, some (-) Sand, little Gravel (slag, brick). Wet.								
	15										
		SW	Black cm SAND and mf GRAVEL (slag, brick). Moist.	N/A	5					3.6	9.0-14.9' BGS: Faint mothball-like odor.
			Dark brown cmf SAND and cmf GRAVEL (slag, brick), little (-) Silt. Moist.								
		ML	Red brown Clayey SILT, some (+) cmf Sand. Moist.	7-8-16-42	6					2.2	Sample SB-5-13-14.9 collected and submitted for laboratory analysis.
		SW	Red brown cmf SAND and GRAVEL (slag,								
15		GW	brick), little Silt. Moist.	16-70-83-50/2"	7					7.7	
	10	GW	Dark gray cmf GRAVEL (slag, brick), some (-) Sand, trace Silt. Moist.								
		ML	Red brown cmf GRAVEL (slag, brick), some (-) Sand, trace Silt. Moist.	10-6-6-10	8					0.4	
		ML	Brown Clayey SILT, trace (-) f Sand. Moist.								
			Same as above.								
		SW	Black cm SAND and GRAVEL (slag,	11-17-12-9	9					8.2	
20		SW	brick), trace Silt. Moist.								
	5										
		GW	Black cm SAND and GRAVEL (slag, brick), trace Silt. Saturated	6-6-4-3	10					96.4	Sample SB-5-21-21.6 collected and submitted for laboratory analysis.
			Black mf GRAVEL, some (-) Sand, trace Silt. Saturated.								
		GW	Same as above.	1-2-3-2	11					124.3	
25											21.0-34.5' BGS: Strong to moderate petroleum-like odor, specks of sheen on surface of water in split-spoon.
	0	CL/ML	**SILT & CLAY/CLAY & SILT** Green brown/gray SILT & CLAY/CLAY & SILT, trace (-) f Sand. Wet.	2-4-6-6	12					61.0	
		CL/ML	Same as above.	2-2-2-3	13					28.6	Sample SB-5-25-23.6 collected and submitted for laboratory analysis.
		—									
		SW	**SAND AND SILT** Dark gray/black mf SAND, some Silt, little Gravel. Saturated.	8-10-8-5	14					19.6	
30	-5										

BORING LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Boring No.** SB-5 **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Backfill	ppm Readings (ppm)	Remarks
		SW	Dark gray mf SAND, some Silt, little f Gravel. Saturated.	3-3-3-50/4"	15					25.5	Sample SB-5-31-32.5 collected and submitted for laboratory analysis.
			WEATHERED BEDROCK Black weathered, decomposed bedrock (Silt and Clay), pieces of angular Shale. Black weathered, decomposed bedrock (Silt and Clay), pieces of angular Shale.	50/1"	16					22.2	Split-spoon refusal on top of rock surface @ 32.9' BGS.

BORING LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Boring No.** **SB-6** **Page** 1 **of** 2

Inspector/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
RB/Albany, NY	JLM	8.25"	NA	N/A"	33.6 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
5/5/15 - 5/11/15	Atlantic Testing Laboratories, Inc.	Hammer Type: 140lb Auto.	N/A

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NYS Plane NAD83	Easting: 706909.6 ft.
A. Conant	HSA	CME 75	Vert Datum: NGVD 29	Northing: 1410375.4 ft.
			Ground Surface Elev: 27.4 ft.	TOC Elev: N/A ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Backfill	ppm Readings (ppm)	Remarks
		SW	**FILL** Dark brown cmf SAND, some (-) Silt, little mf Gravel (slag, brick). Dry.	N/A	1			*Boring backfilled with cement/bentonite grout. Boring hand cleared to 5' BGS.*
	25	SW	Black cm SAND and mf GRAVEL (slag, brick), some Silt. Dry.					1.5-5.0' BGS: Black discoloration (flat luster), moderate to strong mothball-like odor.
		GW	Same as above.					
		GW	Black cmf GRAVEL (slag, brick), some cm Sand, little Silt. Dry.					
5		SW	Same as above.	6-3-5-4	2		18.4	Sample SB-6-2-3 collected and submitted for laboratory analysis.
			Black cmf SAND, some f Gravel (slag, brick) and Silt. Dry.					1.5 -3.0' BGS: Gravel to cobble sized solid tar-like material (submetallic luster), strong mothball-like odor.
	20		No recovery	6-5-3-3	3			Sample SB-6-5-5.8 collected and submitted for laboratory analysis.
		SW	Red cm SAND, little (+) Gravel (slag, brick), little (+)Silt. Dry.	6-12-8-7	4		1.2	5.0-5.8' BGS: Black discoloration (flat to sub-metallic luster), strong mothball-like odor.
10		GW	Dark gray cmf GRAVEL (slag, brick), some cmf Sand. Moist.	17-17-13-8	5		3.0	Sample SB-6-9.5-10 collected and submitted for laboratory analysis.
	15	SW	Black cmf Sand (slag, brick), little (-) Silt. Moist.	3-2-2-9	6		0.4	9.0-14.0' BGS: Sporadic black discoloration (flat to submetallic), faint mothball-like odor.
		SW	Brown cmf Sand (slag, brick), little (-) Clayey Silt. Moist.	11-12-16-20	7		1.3	Sample SB-6-15-15.5 collected and submitted for laboratory analysis.
15		SW	Black cmf Sand (slag, brick), little (-) Silt. Wet.	6-10-11-9	8		0.8	
			Dark gray cmf SAND, some Silt, some f Gravel (slag, brick). Wet.	5-3-9-8	9		18.0	Sample SB-6-19.5-20 collected and submitted for laboratory analysis.
	10	SW	Same as above.	8-13-10-8	10		52.7	
20		GW	Dark gray/black mf GRAVEL (slag, brick), some (-) cm Sand, little Silt. Saturated	2-4-6-13	11		129	19.0-32.1' BGS: Faint to moderate petroleum-like odor.
		GW	Same as above.	6-4-2-4	12		66.5	Sample SB-6-25-25.5 collected and submitted for laboratory analysis.
	5	ML	Green gray Clayey SILT, little f Sand. Wet.	4-5-5-6	13		6.6	
		GW	Dark gray mf GRAVEL (slag, brick), some (-) cm Sand, little Silt. Saturated.	5-5-5-6	14		21.8	
25		GW	Dark gray mf GRAVEL (slag, brick), some (-) cm Sand, little Silt. Saturated.					
		SW						
	0	SW	**SAND AND SILT** Dark gray/black mf SAND and SILT, little (-) Clay, little (-) Organics (roots). Moist.					
		SP	Dark gray mf SAND, some (+) Silt, little (-) Clay. Moist.					
30			Dark gray/black f SAND, some (-) Silt, some (-) Organics (roots). Wet.					

BORING LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Boring No.** SB-6 **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Backfill	ppm Readings (ppm)	Remarks
		SP	Same as above.	5-6-7-32	15					66.3	Sample SB-6-31-31.5 collected and submitted for laboratory analysis.
	-5	SW	**SAND AND GRAVEL** Dark gray cmf GRAVEL (sub-rounded) and cmf SAND, trace (-) Silt. Wet.								
				50/6"	16					42.5	Split-spoon refusal on top of rock surface @ 33' BGS.
			WEATHERED BEDROCK Black weathered, decomposed bedrock (Silt and Clay), pieces of angular Shale.								

BORING LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Boring No.** **SB-7** **Page** 1 **of** 2

Inspector/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
RB/Albany, NY	JLM	8.25"	NA	N/A"	33.2 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
5/5/15 - 5/14/15	Atlantic Testing Laboratories, Inc.	Hammer Type: 140lb Auto.	N/A

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NYS Plane NAD83	Easting: 706912.9 ft.
A. Conant	HSA	CME 75	Vert Datum: NGVD 29	Northing: 1410276.8 ft.
			Ground Surface Elev: 26.0 ft.	TOC Elev: N/A ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Backfill	ppm Readings (ppm)	Remarks
	25	SW	**FILL** Dark brown mf SAND, some cmf Gravel (slag, brick, fire brick) and Silt. Moist.	N/A	1						*Boring backfilled with cement/bentonite grout. Boring hand cleared to 5' BGS.* Sample SB-7-0-1 collected and submitted for laboratory analysis. 0.0-2.0' BGS: Black discoloration (flat luster), faint to moderate mothball-like odor.
		SW									
		GW	Same as above.								
		SW	Dark brown cmf GRAVEL, some cm Sand (slag, brick, fire brick), little Silt. Dry.								
		SW	Red cmf SAND and mf GRAVEL, little (+) Silt. Dry.								
5		GW	Same as above.	4-27-11-12	2					9.0	
	20		Dark brown cmf GRAVEL (slag, brick, coal), some Sand and Silt. Dry.								
		GW	Dark brown cmf GRAVEL (slag, brick, coal), some Sand, trace Silt. Dry.	8-8-9-9	3					5.9	Sample SB-7-5-5.7 collected and submitted for laboratory analysis.
		SW	Dark brown cmf SAND and cmf GRAVEL (slag, brick, coal), trace Silt. Dry.	10-8-7-7	4					2.0	
10	15										
		SW	Same as above.	20-34-18-15	5					1.6	Sample SB-7-11-12.1 collected and submitted for laboratory analysis.
		GW	Black cmf GRAVEL (slag, brick), some cm Sand. Dry.								
		SW	Dark brown cmf SAND and GRAVEL (slag, brick, ash), trace Silt. Moist.	10-17-14-13	6					0.4	5.0-21.0' BGS: Infrequent occurences of black discoloration (flat to submetallic luster).
15		SW	Dark brown cmf SAND and GRAVEL (slag, brick, ash), trace Silt. Wet.	14-50/5"	7					0.0	
	10										
		SW	Dark/red brown cmf SAND and cmf GRAVEL (slag, brick), little Clayey Silt. Wet.	19-18-15-53	8					0.0	Sample SB-7-17-18.3 collected and submitted for laboratory analysis.
		GW	Dark brown cmf GRAVEL (slag, brick), some (-) Sand. Wet.	22-24-13-10	9					0.0	
20		CL/ML									
	5		**SILT & CLAY/CLAY & SILT**								
		CL/ML	Green brown/gray SILT & CLAY/CLAY & SILT. Moist.	6-8-11-10	10					0.0	Sample SB-7-21-22.6 collected and submitted for laboratory analysis.
		CL/ML	Green brown/gray SILT & CLAY/CLAY & SILT, little Organics (roots). Wet. Same as above.	3-3-6-5	11					0.0	*21.0-27.0' BGS: 3" diamater split-spoons used.*
25		CL/ML	Same as above.	1-1-3-6	12					0.0	Sample SB-7-25-26.6 collected and submitted for laboratory analysis.
	0										
		SP	**SAND AND SILT**								
		SP	Dark gray f SAND, some Silt. Wet. Same as above.	10-10-13-13	13					0.0	
		SW	Dark gray cmf SAND, little Silt and Organics (roots, wood), trace f Gravel (rounded). Saturated.	3-6-8-8	14					0.0	
30											

BORING LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Boring No.** SB-7 **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Backfill	ppm Readings (ppm)	Remarks
		SW	Same as above.	14-13-25-50/2"	15					0.0	Sample SB-7-31-32.1 collected and submitted for laboratory analysis.
			WEATHERED BEDROCK Black weathered, decomposed bedrock (Silt and Clay), pieces of angular Shale.								
			Black weathered, decomposed bedrock (Silt and Clay), pieces of angular Shale.	50/3"	16					0.0	Split-spoon refusal on top of rock surface @ 32.8 BGS.

BORING LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Boring No.** SB-8 **Page** 1 **of** 1

Inspector/Office	Checked By:	Borehole Diameter:	Screen Diameter and Type:	Slot Size:	Total Boring Depth (ft)
RB/Albany, NY	JLM	8.25"	NA	N/A"	29.1 ft.

Start/Finish Date	Drilling Contractor:	Sampling: Split Spoon	Development Method:
5/8/15 - 5/15/15	Atlantic Testing Laboratories, Inc.	Hammer Type: 140lb Auto.	N/A

Driller:	Drilling Method:	Drilling Equipment:	Horiz Datum/Proj: NYS Plane NAD83	Easting: 706979.0 ft.
A. Conant	HSA	CME 75	Vert Datum: NGVD 29	Northing: 1410191.5 ft.
			Ground Surface Elev: 26.9 ft.	TOC Elev: N/A ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Backfill	ppm Readings (ppm)	Remarks
		GW	**FILL** Dark brown cmf GRAVEL (slag, brick), some (+) cm Sand, little Silt. Dry.	N/A	1			*Boring backfilled with cement/bentonite grout. Boring hand cleared to 5' BGS.* Sample SB-8-0-1 collected and submitted for laboratory analysis.
	25	SW	Dark brown cmf SAND and GRAVEL (slag, brick), some Silt. Dry.					
		GW	Same as above.					
		GW	Dark brown cmf GRAVEL (slag, brick), some cmf Sand, some Silt. Dry.					
5		SW	Same as above.	5-4-6-44	2		1.4	1.0-3.0' BGS: Infrequent occurences of black discoloration (flat luster).
	20		Black cmf SAND (slag, brick, coal), some (-) Silt, little Gravel. Dry.					Sample SB-8-5-6.3 collected and submitted for laboratory analysis.
		GW	Red brown cmf GRAVEL (slag, brick), some cm Sand, trace Silt. Dry.	34-23-27-18	3		1.0	5.0-8.2' BGS: Sporadic occurences black discoloration (flat to sub-metallic luster).
		GW	Same as above.	7-14-29-50/1"	4		1.4	
10								
	15	GW ML	Red brown cmf GRAVEL (slag, brick), some cm Sand, trace Silt. Wet.	16-6-4-2	5		0.4	Sample SB-8-11-12 collected and submitted for laboratory analysis.
			SAND AND SILT					11.0-12.0' BGS: Sporadic black discoloration (flat to sub-metallic luster).
		ML	Dark gray SILT, some f SAND, little Clay. Saturated.	1-2-2-7	6		0.2	
		SW	Dark gray SILT, some f SAND, some Organics (roots, wood), little Clay. Saturated.	2-2-34-43	7		0.0	
15		SW	Dark gray mf SAND, some (-) Silt. Saturated.					
	10	GW	Black cmf SAND and SILT, little Gravel (slag), trace Organics (wood). Wet.	17-26-25-18	8		0.5	Sample SB-8-17-18.3 collected and submitted for laboratory analysis.
		CL/ML	Dark gray cmf GRAVEL, some cm Sand, trace Silt. Wet.					15.0-20.4' BGS: Sporadic black discoloration (flat to sub-metallic luster).
		ML	Green gray Clayey SILT. Wet.	5-2-2-4	9		0.0	
20			Green gray Clayey SILT, some (-) f Sand, trace f Gravel (rounded), trace Organics (wood). Wet.					
	5	CL/ML	Green brown/gray SILT & CLAY/CLAY & SILT, trace Organics (wood fragments). Saturated.	3-3-4-8	10		1.4	Sample SB-8-21-22.2 collected and submitted for laboratory analysis.
			Wood fragments.	4-3-3-6	11			
25		SP	Dark gray f SAND, little Silt, little Organics (wood, roots). Wet.	2-4-5-7	12		0.0	Sample SB-8-25-26.6 collected and submitted for laboratory analysis.
	0	SP	Dark gray f SAND, little Silt, little Organics (wood, roots). Saturated.	50/4"	13		0.0	27.3 BGS: Top of weathered bedrock.
			WEATHERED BEDROCK Black weathered, decomposed bedrock (Silt and Clay), pieces of angular Shale.	50/1"	14		0.0	

BORING LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Boring No.** **SB-9** **Page** 1 **of** 2

Inspector/Office	**Checked By:**	**Borehole Diameter:**	**Screen Diameter and Type:**	**Slot Size:**	**Total Boring Depth (ft)**
RB/Albany, NY	JLM	8.25"	NA	N/A"	37.7 ft.

Start/Finish Date	**Drilling Contractor:**	**Sampling:** Split Spoon	**Development Method:**
5/6/15 - 5/19/15	Atlantic Testing Laboratories, Inc.	**Hammer Type:** 140lb Auto.	N/A

Driller:	**Drilling Method:**	**Drilling Equipment:**		
A. Conant	HSA	CME 75	**Horiz Datum/Proj:** NYS Plane NAD83 **Vert Datum:** NGVD 29 **Ground Surface Elev:** 25.2 ft.	**Easting:** 706834.3 ft. **Northing:** 1410147.2 ft. **TOC Elev:** N/A ft.

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int / Recovery / Lithology / Backfill	ppm Readings (ppm)	Remarks
		SW	**FILL** Dark brown cmf SAND and cmf GRAVEL (slag, brick), some Silt.	N/A	1			*Boring backfilled with cement/bentonite grout. Boring hand cleared to 5' BGS.*
		SW	Brown mf SAND, some (-) Silt. Dry.					0.0-3.0' BGS: Black discoloration (flat luster). Sample SB-9-1-2 collected and submitted for laboratory analysis.
		SW	Brown cmf SAND, some mf Gravel, some Silt. Dry.					
		SW	Same as above.					
5	20	SW	Brown cmf SAND and cmf GRAVEL, some Silt. Dry.	4-3-2-3	2		0.2	1.5 -3.0' BGS: Gravel to cobble sized solid tar-like material (submetallic luster), strong mothball-like odor. Sample SB-9-7-8.3 collected and submitted for laboratory analysis.
			Dark brown cmf SAND and GRAVEL (slag, brick), little Silt. Moist.					
		GW	Dark brown cmf GRAVEL (slag, brick, coal), little cm Sand. Moist.	3-2-2-2	3		0.3	
		GW	Dark brown cmf GRAVEL (slag, brick, coal), little cm Sand. Wet	1-1-3-22	4		1710	5.0-8.3' BGS: Black discoloration (flat to sub-metallic luster), faint to moderate mothball-like odor.
10	15							
		GW	Same as above.	11-5-8-6	5		>2000	
		ML	Brown Clayey SILT, little f Sand, little Organics (roots). Moist.					9.0-11.6' BGS: Black tacky/semi-solid tar-like material, black discolored grains (flat to sub-metallic luster), strong mothball-like odor. Sample SB-9-11-11.7 collected and submitted for laboratory analysis.
		SW	Dark brown cmf SAND and cmf GRAVEL (slag, brick, coal, ash), little (+) Silt. Moist.	6-9-10-15	6		191	
15	10	SW	Same as above.	3-6-23-21	7		36.0	
		SW	Dark brown cmf SAND (slag, brick), some (-) cmf Gravel, little Silt. Moist.	33-28-15-25	8		5.1	13.0-20.4' BGS: Black discoloration (flat luster). Sample SB-9-17-18.8 collected and submitted for laboratory analysis.
		ML	Dark brown Clayey SILT, some cmf Gravel, some Sand (slag, brick). Wet.	8-9-29-13	9		3.0	
20	5	SW	Dark brown cmf SAND and GRAVEL (slag, brick), some Clayey Silt. Wet.	5-4-9-8	10		1.4	
		SW	Same as above.					
		GW	Light/red brown cmf GRAVEL (slag, brick), little cm Sand, little Silt. Saturated.	1-1-2-2	11		4.6	Sample SB-9-23-24.3 collected and submitted for laboratory analysis.
		GW	Same as above.					
		CL/ML	**SILT & CLAY/CLAY & SILT** Green brown/gray SILT & CLAY/CLAY & SILT. Saturated.	2-3-5-3	12			
25	0		No Recovery					
			No Recovery	1-3-2-5	13		84.5	
		GW	**SAND AND GRAVEL**	4-6-7-8	14		2.2	Sample SB-9-29-29.9 collected and submitted for laboratory analysis.
30	-5		Dark gray cmf GRAVEL (angular to sub-angular), some cm Sand, little Silt.					

BORING LOG

Brown AND Caldwell	**Project Name:** Troy (Water St.) Site - Area 3 **Project Number:** 146094 **Project Location:** Troy, NY	**Permit Number:** N/A	**Boring No.** SB-9 **Page** 2 **of** 2

Depth (feet)	Elevation (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample Int	Graphic Log: Recovery	Graphic Log: Lithology	Graphic Log: Backfill	ppm Readings (ppm)	Remarks
		GW	Saturated. Dark gray to gray cmf GRAVEL (sub-angular to sub-rounded), some cmf	2-6-5-3	15					1.7	
		SW	Sand, some Silt, little Organics (roots,). Saturated. Dark gray mf SAND, some Silt, some Organics (roots). Saturated.	1-2-5-35	16					2.2	
35	-10	GW	Dark gray cmf GRAVEL (sub-angular to rounded) and cmf SAND , little Silt (black weathering, decomposing (Silt and Clay), angular Shale). Saturated.	21-27-15-14	17					0.1	Sample SB-9-35-36.2 collected and submitted for laboratory analysis.
			WEATHERED BEDROCK Black weathered, decomposed bedrock (Silt and Clay), pieces of angular Shale.	31-50/3"	18					0.0	Split-spoon refusal on top of rock surface @ 37' BGS.

Test Pit Log

SITE NAME	Troy (Water Street) Site – Area 3	TEST PIT ID	TP-1
SITE LOCATION	Troy, NY	BC REPRESENTATIVE	B. Taylor
GENERAL LOCATION	Below Span of Troy-Menands Bridge	CONTRACTOR	Atlantic Testing Laboratories, Inc.
DATE	5/27/2015	OTHERS	David Herman (NYSDEC)
TIME OPENED	14:45	TIME CLOSED	15:10
DEPTH TO WATER (ft.bgs)	Not Encountered	EQUIPMENT	Kobelco SK140SRLC-3
DEPTH TO BASE OF FILL (ft. BGS)	Not Encountered	TOTAL LENGTH (ft.)	12 (east-west orientation)
		TOTAL DEPTH (ft. BGS)	10
		NORTHING (ft., NAD83)	1410099.76
GS ELEV. (ft. NGVD 29)	25.35	EASTING (ft., NAD83)	706890.52

OBSERVATIONS	REMARKS
• 0-10.0' BGS: Black discoloration (flat luster). • No visual or olfactory observations/indications of potential purifier waste material	• Sample TP-1-8-9 collected and submitted for laboratory analysis.



Orientation: View is south.

0.0-8.0' BGS: Black cmf SAND, some cmf Gravel (slag, coal). Dry.

8.0-9.0' BGS: Black mf GRAVEL (lightweight slag-like material), some mf Sand. Dry.

9.0-10.0' BGS: Black mf SAND, trace f Gravel. Dry.

Test Pit Log

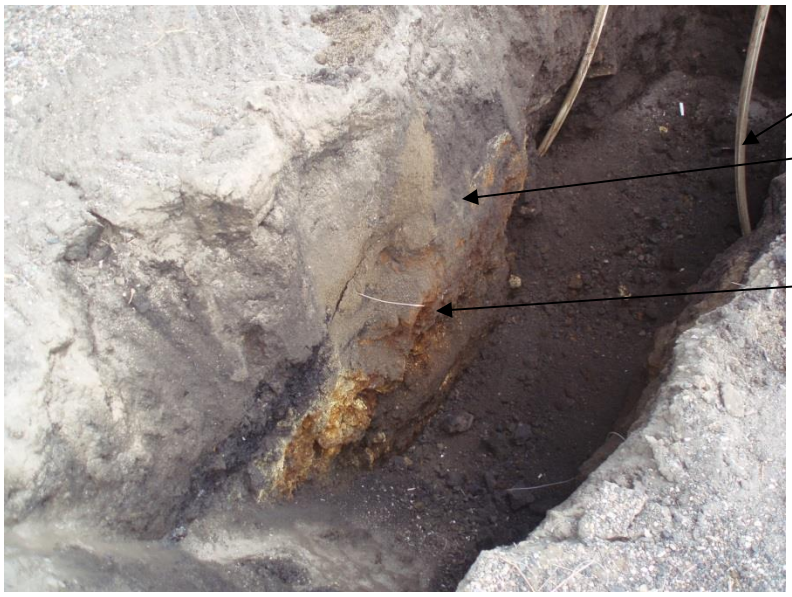
SITE NAME	Troy (Water Street) Site – Area 3	TEST PIT ID	TP-1A
SITE LOCATION	Troy, NY	BC REPRESENTATIVE	B. Taylor
GENERAL LOCATION	Below Span of Troy-Menands Bridge	CONTRACTOR	Atlantic Testing Laboratories, Inc.
DATE	5/27/2015	OTHERS	David Herman (NYSDEC)
TIME OPENED	15:15	TIME CLOSED	15:30
DEPTH TO WATER (ft.bgs)	Not Encountered	EQUIPMENT	Kobelco SK140SRLC-3
DEPTH TO BASE OF FILL (ft. BGS)	Not Encountered	TOTAL LENGTH (ft.)	11 (east-west orientation)
		TOTAL DEPTH (ft. BGS)	6
		NORTHING (ft., NAD83)	1410095.83
GS ELEV. (ft. NGVD 29)	25.24	EASTING (ft., NAD83)	706865.02

OBSERVATIONS

- 0-3.0' BGS: Black discoloration (flat luster).
- No visual or olfactory observations/indications of potential purifier waste material.

REMARKS

- Test pit termintated at 6' due to presence of 2" PVC pipe at 4.5' BGS. Pipe was kinked during excavation and exhibited no liquid flow or contents under pressure.



Orientation: View is southwest.

4.5' BGS: 2" PVC pipe oriented north-south.

0.0-3.0' BGS: Black/grey cmf SAND, little (+) mf Gravel. Dry.

3.0-6.0' BGS: Tan/red cmf GRAVEL (firebrick), little mf Sand. Dry.

Test Pit Log

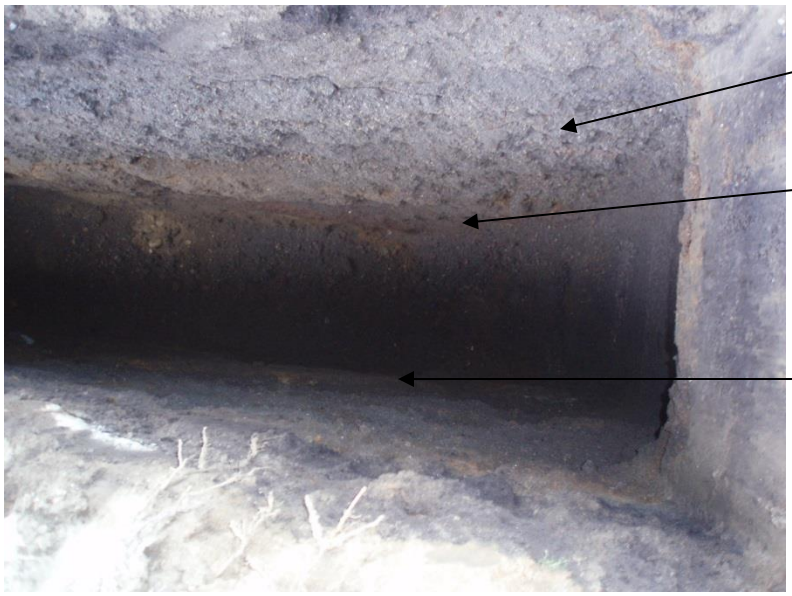
SITE NAME	Troy (Water Street) Site – Area 3	TEST PIT ID	TP-1B
SITE LOCATION	Troy, NY	BC REPRESENTATIVE	B. Taylor
GENERAL LOCATION	Below Span of Troy-Menands Bridge	CONTRACTOR	Atlantic Testing Laboratories, Inc.
DATE	5/27/2015	OTHERS	David Herman (NYSDEC)
TIME OPENED	15:45	TIME CLOSED	16:05
DEPTH TO WATER (ft.bgs)	Not Encountered	EQUIPMENT	Kobelco SK140SRLC-3
DEPTH TO BASE OF FILL (ft. BGS)	Not Encountered	TOTAL LENGTH (ft.)	10 (east-west orientation)
		TOTAL DEPTH (ft. BGS)	10
		NORTHING (ft., NAD83)	1410082.67
GS ELEV. (ft. NGVD 29)	24.27	EASTING (ft., NAD83)	706840.20

OBSERVATIONS

- 0-4.0' BGS: Black discoloration (flat luster).
- 6.0-10.0' BGS: Black discoloration (flat luster).
- No visual or olfactory observations/indications of potential purifier waste material.

REMARKS

- Sample TP-1B-9-10 collected and submitted for laboratory analysis.



Orientation: View is north.

0.0-4.0' BGS: Black cmf SAND and mf GRAVEL (light weight slag-like material, coal). Dry.

4.0-6.0' BGS: Red brown/grey mf GRAVEL, some Clayey Silt (fill material), little mf Sand. Dry.

6.0-10.0' BGS: Black cmf SAND, some mf Gravel, trace Silt. Moist.

Test Pit Log

SITE NAME	Troy (Water Street) Site – Area 3	TEST PIT ID	TP-2
SITE LOCATION	Troy, NY	BC REPRESENTATIVE	B. Taylor
GENERAL LOCATION	Northern portion of Former Tank T-27	CONTRACTOR	Atlantic Testing Laboratories, Inc.
DATE	5/28/2015	OTHERS	Jeff Anderson (BC), David Herman (NYSDEC)
TIME OPENED	07:35	TIME CLOSED	08:20
DEPTH TO WATER (ft.bgs)	Not Encountered	EQUIPMENT	Kobelco SK140SRLC-3
DEPTH TO BASE OF FILL (ft. BGS)	Not Encountered	TOTAL LENGTH (ft.)	29 (north-south orientation)
		TOTAL DEPTH (ft. BGS)	5
		NORTHING (ft., NAD83)	1410238.78
GS ELEV. (ft. NGVD 29)	25.86	EASTING (ft., NAD83)	7068853.10
OBSERVATIONS 2.0-5.0' BGS: Black discoloration (flat luster).		REMARKS • 0.4-1.0' BGS: Brittle concrete slab (grout-like texture). North edge of pad ~16' north of south wall of test pit. • Sample TP-2-4-5 collected and submitted for laboratory analysis.	



<u>Orientation:</u> View is northeast.

<u>0.0-0.4' BGS:</u> Brown mf SAND, trace f Gravel. Dry.

<u>0.4-1.0' BGS:</u> Brittle concrete slab w/ grout-like texture. Note: edge of concrete slab 16' north of southern wall of test pit.

<u>1.0-2.0' BGS:</u> Brown cmf SAND, some (+) cmf Gravel, little Silt. Dry.

<u>2.0-5.0' BGS:</u> Black cmf SAND, some mf Gravel (light weight slag/coal material). Dry

Test Pit Log

SITE NAME	Troy (Water Street) Site – Area 3	TEST PIT ID	TP-3
SITE LOCATION	Troy, NY	BC REPRESENTATIVE	B. Taylor
GENERAL LOCATION	North of Fomer Tank T-41	CONTRACTOR	Atlantic Testing Laboratories, Inc.
DATE	5/28/2015	OTHERS	Jeff Anderson (BC), David Herman (NYSDEC)
TIME OPENED	08:25	TIME CLOSED	09:40
DEPTH TO WATER (ft.bgs)	Not Encountered	EQUIPMENT	Kobelco SK140SRLC-3
DEPTH TO BASE OF FILL (ft. BGS)	Not Encountered	TOTAL LENGTH (ft.)	16 (north-south orientation)
		TOTAL DEPTH (ft. BGS)	5
		NORTHING (ft., NAD83)	1410284.08
GS ELEV. (ft. NGVD 29)	27.00	EASTING (ft., NAD83)	706964.03

OBSERVATIONS	REMARKS
9' North of T-41 - ~1' thick layer (just below ground surface) of semi-solid, stringy, tacky tar-like material mixed with gravel, PID headspace reading - 140.8 ppm.	• 0.4’ BGS: 3.5’ North of T-41: 2’ thick concrete slab extending south. • 5’ North of T-41: 2” metal pipe (at ground surface) containing viscous tar-like material, strong tar-like odor. • Sample TP-3-4-5 collected and submitted for laboratory analysis.



Orientation: View is south.

0.0-2.0 BGS: 3.5’ north of T-41: 2’ thick concrete slab extending south.

0.0-0.6’ BGS: Grey mf SAND, trace Silt. Dry.

0.6-3.0’ BGS: Brown mf SAND, little mf Gravel, trace Silt. Dry.

3.0-5.0’ BGS: Dark brown mf SAND, little mf Gravel, trace Silt. Dry.

Test Pit Log

SITE NAME	Troy (Water Street) Site – Area 3	TEST PIT ID	TP-3
Date	5/28/2015	BC REPRESENTATIVE	B. Taylor



Orientation: View is west.

12' North of T-41: 0.0-1.0' BGS: Semi-solid, tacky, stringy, tar-like material, mixed with Gravel. Strong tar-like odor.



Orientation: View is west.

5' North of T-41: 2" metal pipe, at ground surface, containing viscous tar-like material, strong tar-like odor.

Test Pit Log

SITE NAME	Troy (Water Street) Site – Area 3	TEST PIT ID	TP-4
SITE LOCATION	Troy, NY	BC REPRESENTATIVE	B. Taylor
GENERAL LOCATION	Area of Former Brick Shed	CONTRACTOR	Atlantic Testing Laboratories, Inc.
DATE	5/27/2015	OTHERS	Jim Marolda (BC), David Herman (NYSDEC)
TIME OPENED	13:43	TIME CLOSED	14:20
DEPTH TO WATER (ft.bgs)	Not Encountered	EQUIPMENT	Kobelco SK140SRLC-3
DEPTH TO BASE OF FILL (ft. BGS)	Not Encountered	TOTAL LENGTH (ft.)	15 (north-south orientation)
		TOTAL DEPTH (ft. BGS)	9.5
		NORTHING (ft., NAD83)	1410321.79
GS ELEV. (ft. NGVD 29)	26.63	EASTING (ft., NAD83)	706899.47
OBSERVATIONS 8' BGS: Piece of cemented lime-like matieral, white w/ blue-green tinge, slight to moderate sulfur-like odor.		REMARKS • No observations or indications of former/historical structures.	



<u>Orientation:</u> View is east.

<u>0.0-3.0' BGS:</u> Dark brown mf SAND, some cmf Gravel (brick/fire brick). Dry.

<u>3.0-4.0' BGS:</u> Brown f SAND, little Clayey Silt. Dry.

<u>4.0-8.0' BGS:</u> Dark brown cmf GRAVEL and cmf SAND (fill material: brick, firebrick, slag). Dry.

<u>8.0-9.5' BGS:</u> Brown cmf GRAVEL and cmf SAND (fill material: brick, fire brick, slag). Dry.

Test Pit Log

SITE NAME	Troy (Water Street) Site – Area 3	TEST PIT ID	TP-4
Date	5/27/2015	BC REPRESENTATIVE	B. Taylor



Orientation: View is northeast.

Spoils from TP-4 showing no observations or indications of MGP-related or other impacts.

Test Pit Log

SITE NAME	Troy (Water Street) Site – Area 3	TEST PIT ID	TP-5
SITE LOCATION	Troy, NY	BC REPRESENTATIVE	B. Taylor
GENERAL LOCATION	South of Former Tank T-41	CONTRACTOR	Atlantic Testing Laboratories, Inc.
DATE	5/28/2015	OTHERS	David Herman (NYSDEC)
TIME OPENED	09:40	TIME CLOSED	10:15
DEPTH TO WATER (ft.bgs)	Not Encountered	EQUIPMENT	Kobelco SK140SRLC-3
DEPTH TO BASE OF FILL (ft. BGS)	Not Encountered	TOTAL LENGTH (ft.)	13 (north-south orientation)
		TOTAL DEPTH (ft. BGS)	7.5
		NORTHING (ft., NAD83)	1410231.26
GS ELEV. (ft. NGVD 29)	26.80	EASTING (ft., NAD83)	706956.857

OBSERVATIONS	REMARKS
3.0-7.5’ BGS: Some black discoloration (flat luster) w/ ash-like material within fill, faint sulfur-like odor.	• 2’ south of T-41, south edge of 2’ thick concrete slab. • Sample TP-5-7-7.5 collected and submitted for laboratory analysis.



Orientation: View is north.

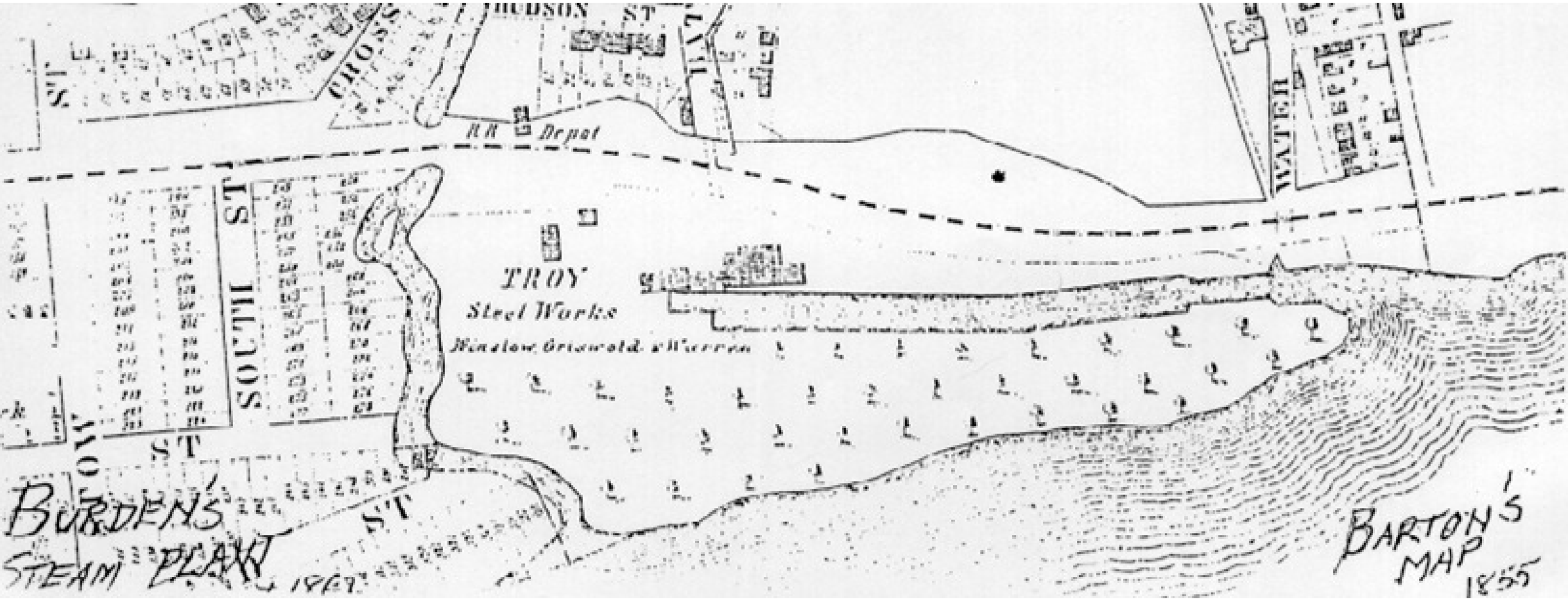
0.0-2.0’ BGS: 2’ South of T-41, south edge of concrete slab.

0.0-1.0’ BGS: Brown cmf SAND, little mf Gravel, trace Silt. Dry.

1.0-3.0’ BGS: Dark brown cmf SAND, some mf Gravel, trace Silt. Dry.

3.0-7.5’ BGS: Dark brown cmf SAND and cmf GRAVEL (brick, fire brick, slag). Dry.

Appendix C: Historical Site Drawings


HUDSON ST
CROSS
RR Depot
TROY
Steel Works
Winslow Griswold & Warren
ST
BURDEN'S
STEAM PLANT
BARTON'S
MAP
1855

PUBLIC UTILITY

486

ITEMS 241-294.

EASTERN INSPECTION BUREAU

111 JOHN ST. N.Y.C.

NEW YORK POWER & LIGHT CORP.

HUDSON VALLEY FUEL PLANT

TROY N. Y.

W. W. HANEY
J. W. ULMER

SCALE 1"=50'

MAR. 22-31, 1936.
AUGUST 7, 1936.

HUDSON RIVER

FLOW

RIVER BANK - NO WHARF OR DOCK

BOAT MOORING POST

DOCK

ITEM - 232 SECTION C-C

CONCRETE COAL BINS

SCREENING & CRUSHING

TRUCKS LOADED

CONCRETE RUN ON STEEL

ITEM - 253 COAL CONVEYORS

COAL BREAKER HOUSE

CONVEYOR TRANSFER BLDG.

ITEM-287 CONVEYOR

MEN RM.

COAL CAR UNLOADING

TRUCK SCALE HOUSE

ITEM-273 SCALE

CONVEYOR

CONDENSING EQUIPMENT

OPEN ASPHALT SIDE 137 FEET BY 153.43 FEET CONCRETE SLAB

1000 GAL. GASOLINE TANK (BURIED)

GASOLINE PUMPS

ITEM - 272

COKE 250-TON

SILOS EACH 400 TONS

COKE SILO

ITEM - 271 PLANE EQUIP. STGE. 35 x 66'

COKE HANDLING BUILDING, ELEVATED OVER TRACKS

CONVEYOR

ITEM - 252 COKE SCREEN HOUSE

IT-283-A

IT-294

IT-286 SUP. POST ENGINE NO.

IT-200 MENS ROOM & OFFICE

300' CONCRETE STACK REQUIRED

200' CONCRETE STACK REQUIRED

CALCIUM CHLORIDE SOLUTION

COKE CONVEYOR

COKE WHARF S. ITEM - 281 SUPERSTRUCTURE

COKE CONVEYOR PULLEY NO.

WATER TANK

ITEM-23 1-A COKE

ITEM 281-B COKE QUENCHING WATER TANK. ELEVATED DRUM. WATER TANK NOW HOUSE ROOF NOW

ITEM-286-A CAR HAULING CONTROL NO. & CAR PULLER

OPEN STEEL COKE CONVEYOR

IT- 259A PURIFIER BOXES

ITEM - 285 TARVIA TANKS

"B-1" TARVIA

"B-5" LIGHT TAR

TO TRACK SCALE NO.

TAR PRODUCTS

B-2

B-3

B-4

FLUX OIL

NAPHTHA

ITEM - 279 REPAIR SHOP

SULPHUR PASTE BARRELL LOADING & SHIPPING

ROUGH STORAGE

COKE TRUCK GARAGE

LOCKER ROOM

TRIDENT PROTECTION METER & PIT

WALLS: 8" BRICK, 15'8 12'4 & 8'-11". EXPOSED STEEL FRAME

IT-280 STORES HOUSE (STORES SUPPLIES) WALLS 8" BRICK

ITEM - 283 COKE OVENS

CONTROL ROOMS

ITEM - 283 COKE OVENS

PART PLAIN & PART HERE

ITEM-278 GAS HOLDER

ITEM-248 PRODUCER GAS BOOSTER NO.

ITEM-258 PRODUCER GAS NO.

ITEM-258-A COOLER SCRUBBER

ITEM-258-D PRODUCER GAS DILUENT BOOSTER HOUSE WALLS 12" BRICK

IT. 258-B

ITEM-258-C PRODUCER GAS SCRUBBER

IT-255 GAS HOLDER 50,000 CU.FT. AGE 1939

IT-282 CONTROLS & RECTIFIER NO.

IT-282-B EXHAUST ACCUMULATOR

IT-282-A CONTROL PRECIPITATOR

FROM CONTRACTOR'S TAR LIQUOR SEPARATOR

ITEM-282-C WATER GAS METER NO.

ITEM - 246 MACHINE SHOP

STORES ROOMS

OFF.

ITEM - 245 SUBSTATION

OUTDOOR SUBSTATION

2300 VOLT LIGHTING BANK

SUBSTATION

ELEC. TEST

ITEM-267 AMMONIA DECANTER TANKS

ITEM - 269 AMMONIA LIQUOR COOLING & COILS

ITEM-268 STILLING WELL

ITEM-266 SATURATORS

IT-241-A STORE ROOM

ITEM - 241 BY-PRODUCTS AMMONIUM SULPHATE STORAGE

SATURATORS

ITEM-265 PUMPS & METERS

ITEM-264

IT-249 GAS PURIFICATION PUMP HOUSE

PURIFIERS

THYLER PUMP HOUSE

IT-250 GALLON METER & SCALE

IT-289

ITEM-263-A FINAL GAS SCRUBBERS

ITEM-262 TRANSFER

ITEM-263 FINAL SCRUBBERS

ITEM-274 AREA VALVE NO.

ITEM-243 BOILER HOUSE 50' x 30'

IT-284 CONCRETE STACK 200' HIGH

ITEM - 241-B BLUE (WATER) GAS GENERATOR HOUSE

BLOWERS & GAS PUMPS

GENERATOR SETS

6-8'-0" GAS GENERATOR SETS

ITEM-275

ITEM-276 BUTANE PUMP NO.

IT-290 GAS HOLDER STORAGE TK.

IT-291 GAS SCRUBBERS

WIRE FENCE

ITEM - 256 GAS HOLDER (WATERLESS TYPE) 2,000,000 CU. FT. AGE 1935 281' DIA. 152' H.

ITEM 256A OIL DILUTION OIL TANK 10,000 GALS. STEEL TANK ON CONC. PIERS

SEAL CONDITIONING BUILDING WALLS 8" TONG BLK ROOF: CORR IRON ON EXPD STEEL

ITEM-277 PUMP NO.

See Sketch "A"

WOOD SHEDS & PLATFORMS

WALLS: BRICK, WOOD ROOF

IRON FENCE 8'0" HIGH

18" TO BURGESS-BYRON WORKS

ITEM-248 BOOSTERS

ITEM-258 EXCAVATE

SECTION J-J

EXPOSED PIPES ON EXPOSED STEEL

COKE BINS OPEN FLOOR ON EXPOSED STEEL

CAT. PRODUCER GAS TYPE EXPOSED STEEL

PUMP SKETCH "A" No SCALE

2-3000-GAL. & 1-3000-GAL. TYPE MAN. WORTHINGTON CENTRIF. PUMPS - MOTOR DRIVEN

2000 GAL. PER MIN. WORTHINGTON CENTRIFUGAL PUMP MOT. DRIVEN

TUNNEL TO HUDSON RIVER

16" TO COKE WORKS

18" TO BURGESS-BYRON WORKS

ITEM - 247 LOCKER & MENS ROOM 46' x 80'

ITEM EMPLOYEES LUNCH ROOM 33' x 45' WALLS 12" BRICK

ITEM - 244 OFFICES 52' x 50' WALLS 12" BRICK

IT-244-A LABORATORY

ITEM - 242-A

IT-293 NITRATION-DENSCO

COOLING COILS

ITEM - 242 NITRATION-DENSCO

"18" NITRATION-DENSCO 250,000-6

WASTE H2SO4 SEPARATION & LIGHT OIL

CHAMBER PICKLING CAUSTIC-TOSS

WET FRIENDS

SCRUBBER FRIENDLESS

TOWER

WALLS CONC. FROM ON FOUND. STEEL ROOF ROOF

"16"

"17"

NITRATION TOWER

NITRATION DENSCO

NITRATION TOWER

COMMERCIAL VALVE

ITEM - 1259 PURIFIER BOXES

(2-LIFTS) ITEM-254 GAS HOLDER 200,000 CU. FT. AGE 1935

(2-LIFTS) ITEM-254-A GAS HOLDER 200,000 CU. FT. AGE 1935

(2-LIFTS) ITEM-254-B GAS HOLDER 300,000 CU. FT. AGE 1936

ITEM - 241 BUTANE TANKS 25,000 GAL.

ITEM - 241-B BUTANE TANKS 25,000 GAL.

ITEM - 242 PUMPS

SECTION D-D

ITEM - 241-B

SECTION E-E

ITEM-244 SECT. N-N

ITEM-257 SECTION I-I

WYANTS KILL

VACANT

WATER ST.

TO ALBANY

TO TROY

ALBANY & TROY SELF LINE. RAILROAD

FIRE HOSE:-

5-HOSE HOUSES 4-150' HOSE EACH, 1 WITH 300' = 900'
4 HOSE REELS = 200' = 800'
10' EXTRA LENGTHS = 500'
TOTAL 25' C.R.L. 2200'

10-LENGTHS - 1½" C.R.L. HOSE 500' ALSO FIRE PLANE TRUCK WITH 200'-2½" C.R.L. HOSE & 200'-1½" C.R.L. HOSE.

FLOOD NOTE:-

In March 1936 Keno Av North End Only Flooded With 24" Of Water-Slight Loss.

SECTION L-L

SECTION M-M

SECTION A-A

SECTION B-B

SECTION G-G

SECTION K-K

SECTION F-F

SECTION H-H

NOTE: No Asbestos Protected Metal Or Covered Iron Used In Work Or Construction Or Conveyors, Etc. In This Plant.

Gypsum Slabs On Exposed Steel Purlins & Trusses

Composition On Celotex Insulated Hollow

Reinforced Concrete Ammonium Sulphate Storage & Drying

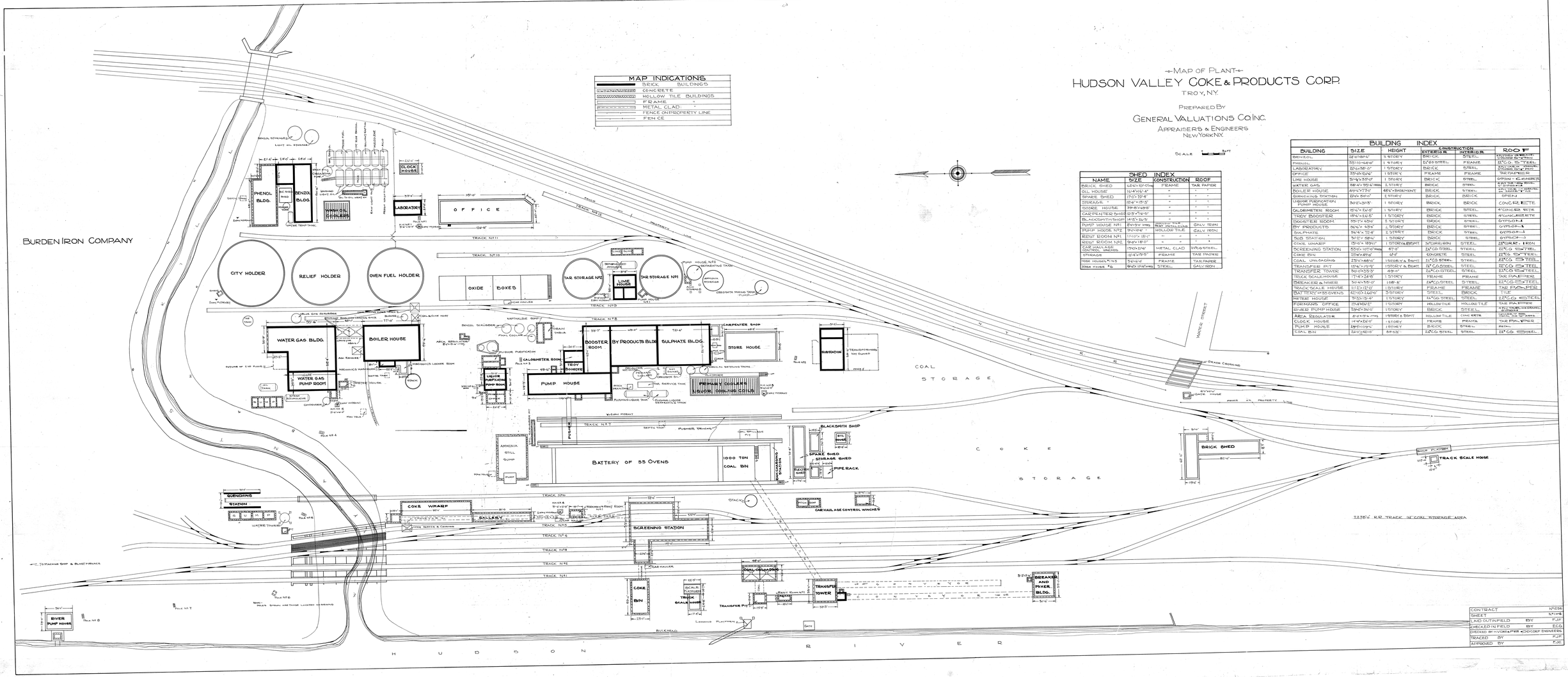
Caterpillar Power Generation House

Steel Wire Tower

Steel Structure

Outdoor Substation

Small Panels Of Asbestos Protected Metal Used In Machine Shop Were Removed & Replaced With Fire Resisting Material Composition On Steel Or Exposed Steel Trusses & Purlins Wired Glass Skylight



SHED INDEX

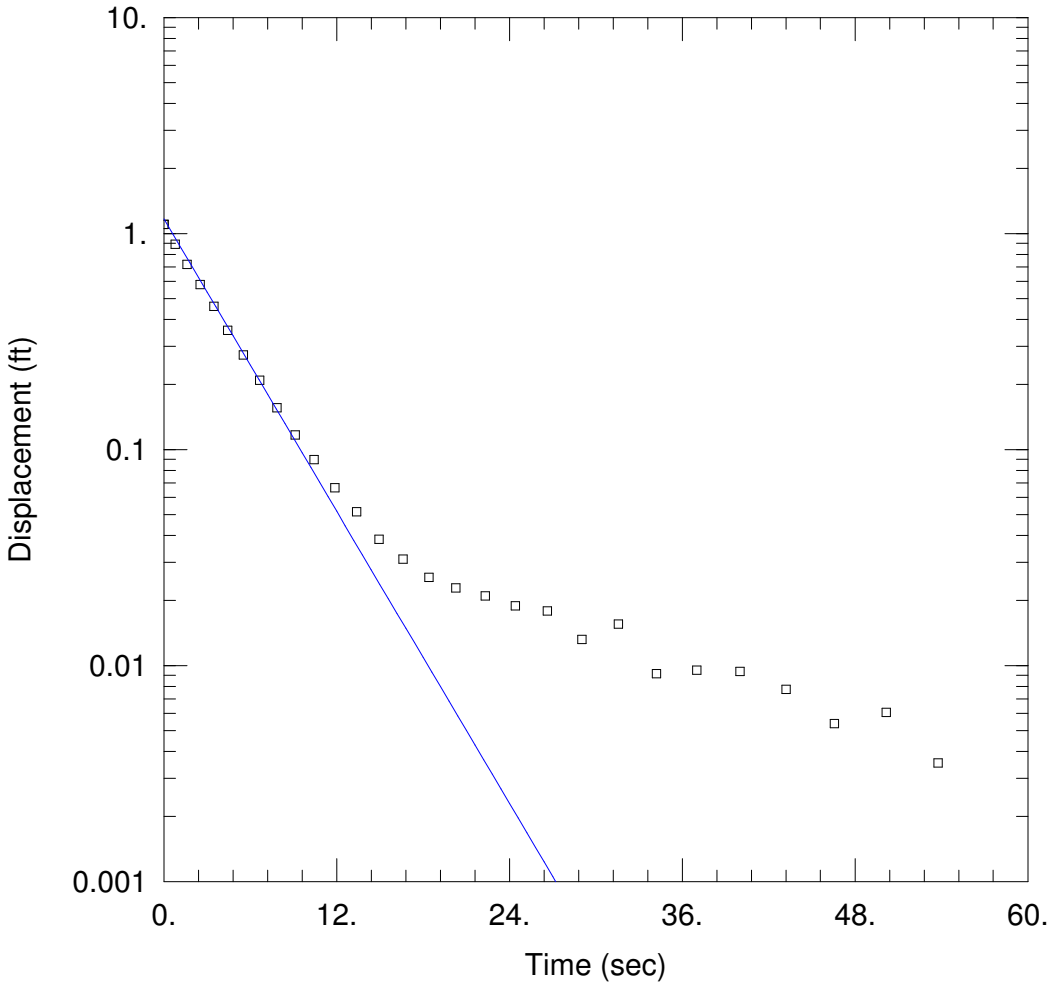
NAME	SIZE	CONSTRUCTION	ROOF
BRICK SHED	40'6"×20'0"±sq	FRAME	TAR PAPER
OIL HOUSE	16'4"×16'4"	"	" "
SPARE SHED	17'0"×70'4"	"	" "
STORAGE "	12'4"×21'0"	"	" "
STORE HOUSE	39'8"×99'8"	"	" "
CARPENTER SHOP	12'3"×74'6"	"	" "
BLACKSMITH SHOP	14'3"×34'5"	"	" "
PUMP HOUSE NO 1	8'0"×9'0" ±sq	CONCRETE AND METAL LATH	GALV IRON
PUMP HOUSE NO 2	9'0"×9'6"	HOLLOW TILE	GALV IRON
BENT ROOM NO 1	11'10"×15'1"	" "	" "
BENT ROOM NO 2	9'0"×18'0"	" "	" "
CAR HAULAGE CONTROL WINCHES	17'0"×24'0"	METAL CLAD	1/16 STEEL
STORAGE "	13'4"×15'5"	FRAME	TAR PAPER
1936 HOUSE "ENS	5'6"×6'6"	FRAME	TAR PAPER
1936 HOUSE "D	9'0"×18'0"±sq	STEEL	GALVIRON

BUILDING INDEX

BUILDING	SIZE	HEIGHT	CONSTRUCTION EXTERIOR	CONSTRUCTION INTERIOR	ROOF
BENZOL	58'0"×80'6"	3 STOREY	BRICK	STEEL	1/4 STEEL ON WOOD UNDER 6"×6"TRUSS
PHENOL	55'10"×64'0"	1 STOREY	1/20 STEEL	FRAME	22"G.G. STEEL
LABORATORY	20'×55'0"	1 STOREY	BRICK	STEEL	3 PLY ROOFING ON WOOD UNDER 6"×6" TRUSS
OFFICE	35'0"×124'0"	1 STOREY	FRAME	FRAME	TAR PAPER
LIME HOUSE	31'4"×55'0"	1 STOREY	BRICK	STEEL	GYPSUM - CONCRETE
WATER GAS	88'4"×90'4" ±sq	2 STOREY	BRICK	STEEL	3 PLY ROOFING ON WOOD UNDER 6"×6" TRUSS
BOILER HOUSE	49'6"×77'0"	48'6"+BASEMENT	BRICK	STEEL	3 PLY ROOFING ON WOOD UNDER 6"×6" TRUSS
QUENCHING STATION	12'6"×30'0"	2 STOREY	BRICK	OPEN	OPEN
LIQUOR PURIFICATION & PUMP HOUSE	30'0"×39'8"	1 STOREY	BRICK	BRICK	CONCRETE
CALORIMETER ROOM	15'6"×24'8"	1 STOREY	BRICK	STEEL	4"CONCRETE
TROY BOOSTER	15'6"×24'8"	1 STOREY	BRICK	STEEL	4"CONCRETE
BOOSTER ROOM	35'0"×63'6"	1 STOREY	BRICK	STEEL	GYPSUM
BY PRODUCTS	36'6"×63'6"	4 STOREY	BRICK	STEEL	GYPSUM
SULPHATE	34'4"×72'4"	2 STOREY	BRICK	STEEL	GYPSUM
SUB STATION	30'2"×58'4"	1 STOREY	BRICK	STEEL	GYPSUM
COKE WHARF	15'6"×189'1"	1 STOREY&BSMT	30"CORR.IRON	STEEL	22"CORR. IRON
SCREENING STATION	53'6"×70'6"±sq	49'0"	24"GG STEEL	STEEL	22"G.G STEEL
COKE BIN	39'6"×68'6"	68'	CONCRETE	STEEL	22"G.G. STEEL
COAL UNLOADING	23'0"×68'0"	1 STOREY & BSMT	24"GG STEEL	STEEL	22"GG STEEL
TRANSFER PIT	10'6"×15'0"	1 STOREY & BSMT	24"GG STEEL	STEEL	22"GG STEEL
TRANSFER TOWER	9'0"×53'0"	49'0"	24"GG STEEL	STEEL	22"GG STEEL
TRUCK SCALE HOUSE	11'4"×24'8"	1 STOREY	FRAME	FRAME	TAR PAPER
BREAKER & RIVER	50'4"×55'0"	108'8"	24"GG STEEL	STEEL	22"GG STEEL
TRACK SCALE HOUSE	11'2"×12'0"	1 STOREY	FRAME	FRAME	TAR PAPER
BATTERY "55 OVENS	62'0"×162'0"	3 STOREY	STEEL	BRICK	TILE
METER HOUSE	9'0"×13'4"	1 STOREY	24"GG STEEL	STEEL	22"GG STEEL
FOREMANS OFFICE	11'4"×24'0"	1 STOREY	HOLLOW TILE	HOLLOW TILE	TAR PAPERED
RIVER PUMP HOUSE	39'0"×36'0"	1 STOREY	BRICK	STEEL	3 PLY ROOFING ON WOOD TRUSSES
AREA REGULATOR	8'4"×18'4"±sq	1 STOREY & BSMT	HOLLOW TILE	CONCRETE	CONCRETE ON METAL LATH ON TRUSSES
CLOCK HOUSE	14'4"×24'0"	1 STOREY	FRAME	FRAME	TAR PAPERED
PUMP HOUSE	29'0"×29'0"	1 STOREY	BRICK	STEEL	METAL
COAL BIN	24'0"×40'0"	87'8.5"	24"GG STEEL	STEEL	22"GG STEEL

CONTRACT		NO 156
SHEET		1 of 1
LAID OUT IN FIELD	BY	F.J.F.
CHECKED IN FIELD	BY	E.G.S.
CHECKED BY HUDSON VALLEY COKE CORP. ENGINEERS		
TRACED	BY	F.J.F.
APPROVED	BY	F.J.C.

Appendix D: In-Situ Hydraulic Conductivity Plots



MW-1D

Data Set: P:\...\MW-1D.aqt
Date: 08/11/15 Time: 09:11:46

PROJECT INFORMATION

Company: Brown and Caldwell
Client: National Grid
Project: 146094
Location: Troy, NY Site - Area 3
Test Well: MW-1D
Test Date: 6/23/2015

AQUIFER DATA

Saturated Thickness: 11.13 ft Anisotropy Ratio (Kz/Kr): 1.

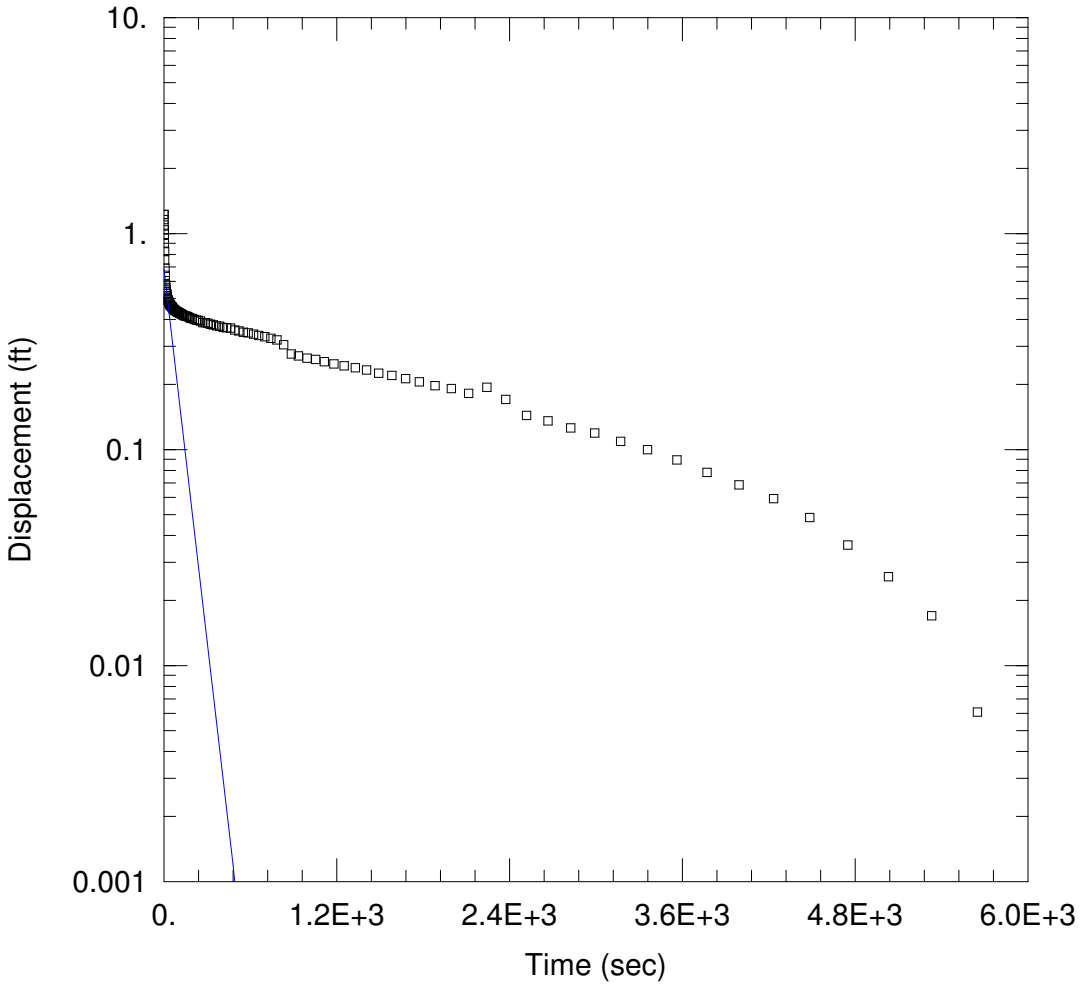
WELL DATA (MW-1D)

Initial Displacement: 1.101 ft Static Water Column Height: 10.33 ft
Total Well Penetration Depth: 10.33 ft Screen Length: 6. ft
Casing Radius: 0.0833 ft Well Radius: 0.34 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.009854 cm/sec y0 = 1.167 ft



MW-2S

Data Set: P:\...\MW-2S.aqt
Date: 08/11/15 Time: 09:06:40

PROJECT INFORMATION

Company: Brown and Caldwell
Client: National Grid
Project: 146094
Location: Troy, NY Site - Area 3
Test Well: MW-2S
Test Date: 6/23/2015

AQUIFER DATA

Saturated Thickness: 14.69 ft Anisotropy Ratio (Kz/Kr): 1.

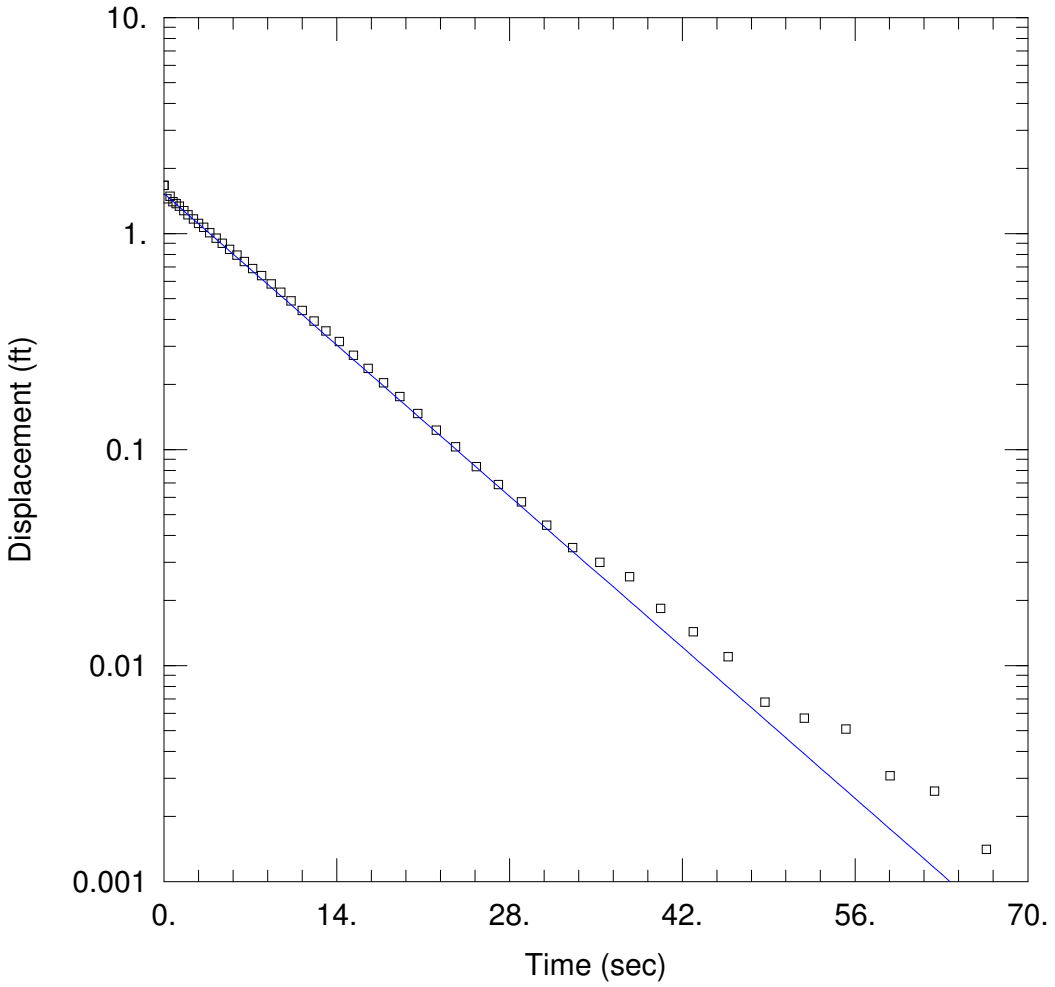
WELL DATA (MW-2S)

Initial Displacement: 1.226 ft
Total Well Penetration Depth: 0.99 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 0.99 ft
Screen Length: 0.99 ft
Well Radius: 0.34 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.00124 cm/sec y0 = 0.6838 ft



MW-2D

Data Set: P:\...\MW-2D.aqt
Date: 08/10/15 Time: 11:12:40

PROJECT INFORMATION

Company: Brown and Caldwell
Client: National Grid
Project: 146094
Location: Troy, NY Site - Area 3
Test Well: MW-2D
Test Date: 6/23/2015

AQUIFER DATA

Saturated Thickness: 12.59 ft Anisotropy Ratio (Kz/Kr): 1.

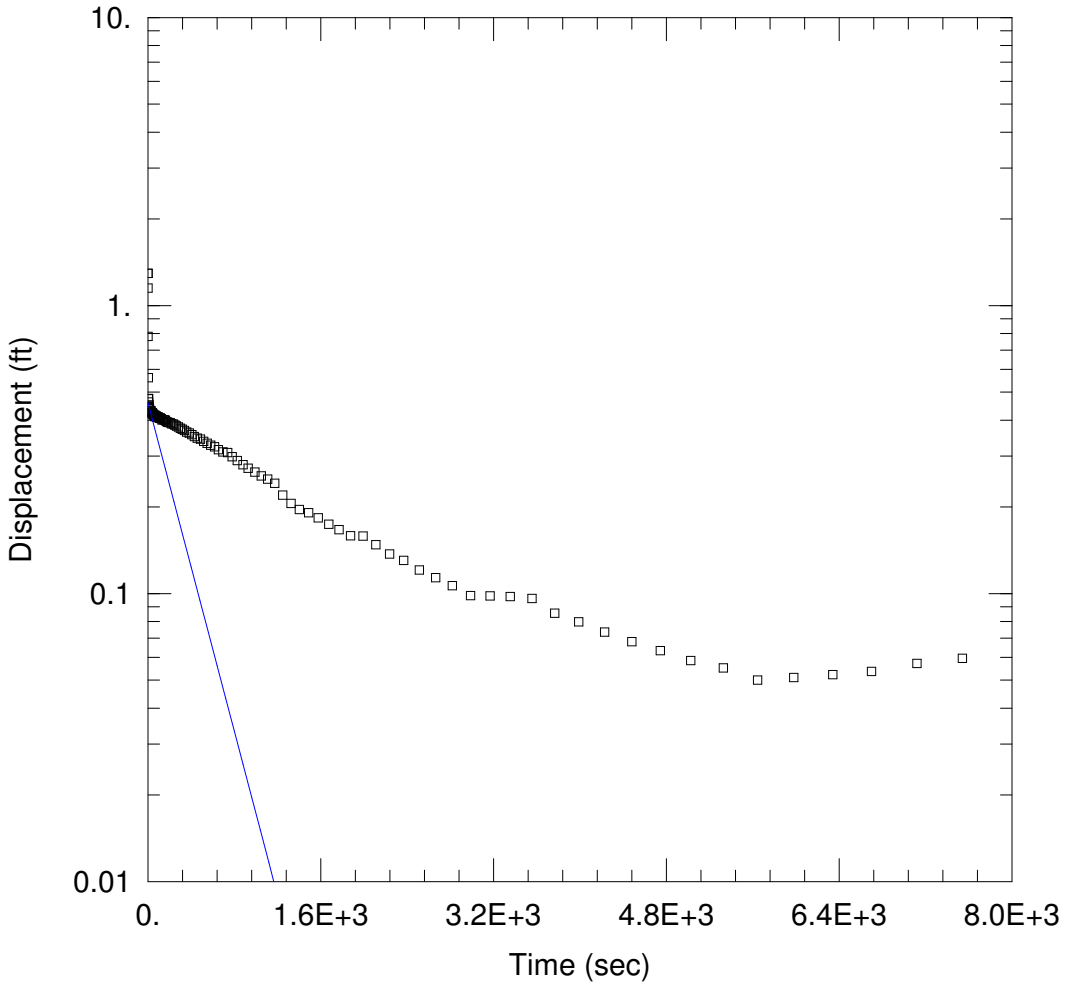
WELL DATA (MW-2D)

Initial Displacement: 1.671 ft
Total Well Penetration Depth: 11.89 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 11.89 ft
Screen Length: 3.5 ft
Well Radius: 0.34 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.006103 cm/sec y0 = 1.531 ft



MW-3S

Data Set: P:\...\MW-3S.aqt
Date: 08/10/15 Time: 10:55:39

PROJECT INFORMATION

Company: Brown and Caldwell
Client: National Grid
Project: 146094
Location: Troy, NY Site - Area 3
Test Well: MW-3S
Test Date: 6/23/2015

AQUIFER DATA

Saturated Thickness: 21.74 ft Anisotropy Ratio (Kz/Kr): 1.

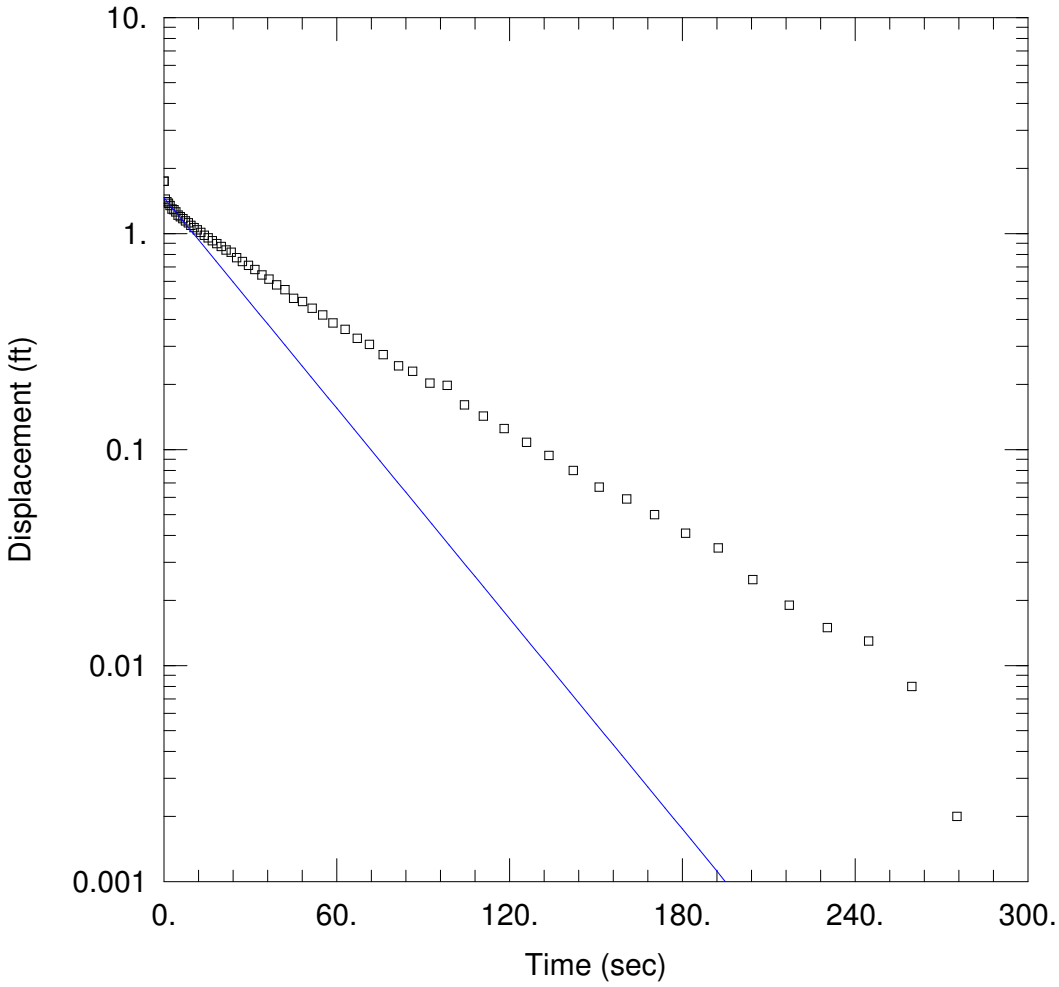
WELL DATA (MW-3S)

Initial Displacement: 1.294 ft
Total Well Penetration Depth: 5.74 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 5.74 ft
Screen Length: 5.74 ft
Well Radius: 0.34 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.0001282 cm/sec y0 = 0.4587 ft



MW-3D

Data Set: P:\...\MW-3D.aqt
Date: 08/10/15 Time: 10:30:55

PROJECT INFORMATION

Company: Brown and Caldwell
Client: National Grid
Project: 146094
Location: Troy, NY Site - Area 3
Test Well: MW-3D
Test Date: 6/23/2015

AQUIFER DATA

Saturated Thickness: 14.18 ft Anisotropy Ratio (Kz/Kr): 1.

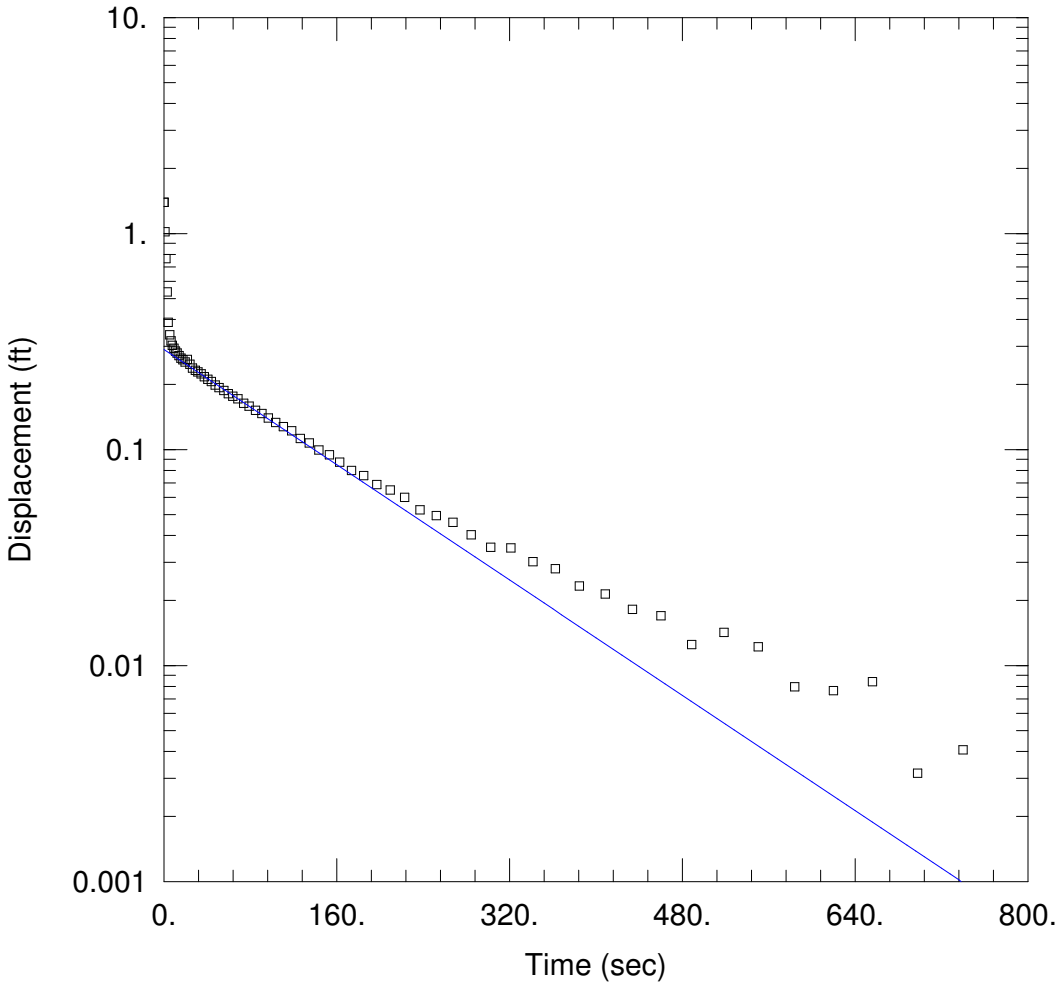
WELL DATA (MW-3D)

Initial Displacement: 1.747 ft
Total Well Penetration Depth: 13.18 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 13.18 ft
Screen Length: 10. ft
Well Radius: 0.34 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.001002 cm/sec y0 = 1.463 ft



MW-4S

Data Set: P:\...\MW-4S.aqt
Date: 08/10/15 Time: 10:28:53

PROJECT INFORMATION

Company: Brown and Caldwell
Client: National Grid
Project: 146094
Location: Troy, NY Site - Area 3
Test Well: MW-4S
Test Date: 6/23/2015

AQUIFER DATA

Saturated Thickness: 17.93 ft Anisotropy Ratio (Kz/Kr): 1.

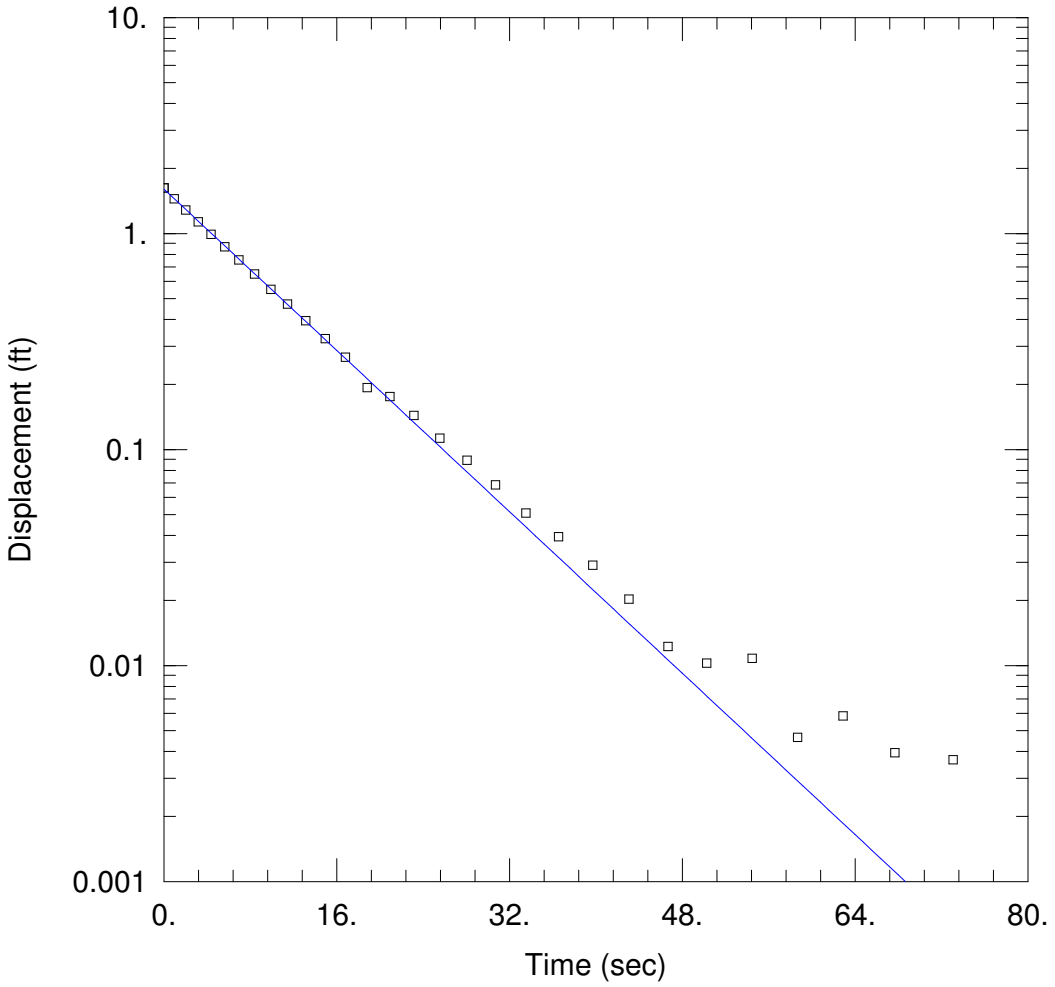
WELL DATA (MW-4S)

Initial Displacement: 1.394 ft
Total Well Penetration Depth: 3.93 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 3.93 ft
Screen Length: 3.93 ft
Well Radius: 0.34 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.0003803 cm/sec y0 = 0.2907 ft



MW-4D

Data Set: P:\...\MW-4D.aqt
Date: 08/10/15 Time: 09:58:09

PROJECT INFORMATION

Company: Brown and Caldwell
Client: National Grid
Project: 146094
Location: Troy, NY Site - Area 3
Test Well: MW-4D
Test Date: 6/23/2015

AQUIFER DATA

Saturated Thickness: 14.14 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-4D)

Initial Displacement: 1.626 ft
Total Well Penetration Depth: 12.64 ft
Casing Radius: 0.0833 ft
Static Water Column Height: 12.64 ft
Screen Length: 6. ft
Well Radius: 0.34 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.004079 cm/sec y0 = 1.605 ft

Appendix E: Laboratory Data Packages (DVD)

Appendix F: Data Usability Summary Report

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

February 8, 2016

Brian Taylor
Brown and Caldwell
12 S Swan St
Albany, NY 12210

RE: National Grid, Troy, NY MGP Site—Area 3
Data **U**sability **S**ummary **R**eport (DUSR)

TAL SDG Nos. 480-79685-1, 480-79685-1, 480-79814-1, 480-79940-1, 480-80049-1, 480-80121-1, 480-80194-1, 480-80305-1, 480-80306-1, 480-80416-1, 480-80417-1, 480-80498-1, 480-80580-1, 480-80643-1, 480-80752-1, 480-80817-1, 480-80919-1, 480-80993-1, 480-81064-1, 480-81163-1, 480-82105-1, 480-87716-1, and 480-87801-1

Dear Mr. Taylor:

Review has been completed for the analytical data packages noted above, generated by TestAmerica Laboratories, that pertain to samples collected between 05/05/16 and 09/23/15 at the National Grid Troy, NY Area 3 site. Seventy three soil samples, five field duplicates, sixteen aqueous samples, and two aqueous field duplicates were processed for TCL volatiles, TCL semi-volatiles, TCLpesticides, TCL PCBs, TAL metals, and total cyanide. Twenty four soil samples and two field duplicates were processed for TCL semivolatiles, TCLpesticides, TCL PCBs, TAL metals, and total cyanide. Sample matrix spikes, field blanks, and trip blanks were also processed. The analytical methods utilized are those of the USEPA SW846.

The data packages submitted contain full deliverables for validation, but this DUSR is generated from review of the summary form information, with full validation review of sample raw data, and limited review of associated QC raw data. The reported summary forms have been reviewed for application of validation qualifiers, using guidance from the USEPA Region 2 validation SOPs, the USEPA CLP National Functional Guidelines for (In)Organic Data Review, the specific laboratory methodologies, and professional judgment. The following items were reviewed:

* Laboratory Narrative Discussion
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Matrix Spike Recoveries/Duplicate Correlations
* Field Duplicate Correlations
* Preparation/Calibration/Trip Blanks

* Laboratory Control Samples (LCSs)
* Instrumental Tunes
* Calibration/Low Level Standards
* ICP Serial Dilution
* Instrument IDLs
* Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data packages.

In summary, analyses were conducted in compliance with the required analytical protocols. Most sample results are usable either as reported or with qualification/edit. However, the sampes generally exhibit significant target concentrations and non-target interferences, and the following concerns are noted:

- Results for phenol in three soil samples and a field duplicate are rejected due to laboratory processing
- The result for total cyanide in one soil sample is rejected due to an apparent matrix effect
- Most of the soil semivolatile and pesticide analyses were processed at significant dilution due to the matrices of the samples. Although many of the affected semivolatile sample fractions show detections in the dilutions, the affected pesticide fractions do not. The proportionally elevated reporting limits that resulted from the dilutions may prohibit detection of the target analytes at the desired quality objective concentrations. Certain of the metal elements were also processed at dilution due to matrix interferences
- The majority of the pesticide detections have been discounted as either matrix interferences or external contamination

The sample identification summaries are attached to this text. Also included with the report are validation qualifier definitions and client results tables that are manually annotated to reflect the qualifications recommended within this report.

The following text discusses quality issues of concern.

Chain-of-Custody/Sample Receipt

The trip blank of 06/11/15 was not entered onto the custody form. This was not noted on the sample login form or case narrative.

Blind Duplicate Evaluations

The blind field duplicates were collected at locations SB-7-0-1, SS-5-0-2, SB-7-21-22.6, SS-11-0-2, SB-9-11-11.7, MW-3S-11-13, TP-1-8-9, MW-2D-20150611, and MW-1. The correlations are within validation guidelines, with the following exceptions, results for which are qualified as estimated in the indicated parent sample and its duplicate:

- calcium, copper, lead, nickel, and vanadium in SS-5-0-2
- calcium in SS-11-0-2

- toluene, xylene, 2-methylnaphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, fluorene, fluoranthene, naphthalene, phenanthrene, pyrene, arsenic, iron, manganese, and vanadium in SB-7-0-1
- detected semivolatile analytes, aluminum, beryllium, calcium, manganese, nickel, potassium, and mercury in SB-9-11-11.7
- toluene, xylenes, chromium, iron, manganese, and vanadium in MW-3S-11-13

Of specific note are calcium in SS-5-0-2 (8920 ppm in the parent sample and 59,100 ppm in the duplicate) and detected semivolatiles in SB-9-11-11.7 (up to almost an order of magnitude higher in the duplicate), which show significant variances.

TCL Volatile Analyses by EPA 8260C

Due to matrix interferences, the samples listed below exhibited outlying surrogate and internal standards that resulted in qualification of all analytes as estimated in value. The direction of bias cannot be readily determined: SB-1-1-2, SB-4-9-10.5, SB-4-15-15.6, SB-7-17-18.3, SB-8-5-6.3, SB-1-11-12.3, SB-9-35-36.2, TP-1-8-9, TP-1B-9-10, TP-5-7-7.5, and DUP-052715

The samples listed below exhibited outlying recovery for internal standard d4-1,4-dichlorobenzene that resulted in qualification of the seven associated analytes as estimated in value. The direction of bias cannot be readily determined: SB-6-25-25.5, SB-4-39-40.3, SB-3-29-29.7, SB-9-7-8.3, B-9-23-24.3, MW-1S-16-18

The detection of bromodichloromethane in SB-2-0-1has been edited to non-detection, sometimes at elevated reporting limits, due to very poor mass spectral quality.

Due to presence in the associated method or field blanks, the following detections are considered external contamination, and have been edited to reflect non-detection.

- methylene chloride in SB-6-2-3 and MW-2S-19-19.8
- chlorobenzene in SB-4-3-4 and SB-1-1-2
- acetone in samples reported in soil borings collected up through 5/18/15
- 1,2,4-trichorobenzene in all sample reported in SDG 480-80305
- benzene and toluene in samples reported in SDG 480-80643

Results for analytes reported with the laboratory "E" flag are to be derived from the dilution analyses of the samples, thus reflecting responses within the established linear ranges of the instruments.

The following results have been qualified as estimated in value due to low recoveries in the associated LCSs:

- 1,2-dichlorobenzene and 1,3-dichlorobenzene (65% to 70%) in samples reported in SDGs 480-79685 and 480-80416
- all analytes in FB-20150512

Almost all of the target analytes produced outlying matrix spike recoveries in SB-9-35-36.2. This sample also exhibited outlying surrogate and internal standard responses, and the results are qualified as estimated in value.

SB-4-3-4 produced outlying recoveries in both of the matrix spikes for all except fifteen of the analytes. The results for the compounds exhibiting outliers in both spikes have been qualified as estimated in value.

SB-4-27-28.7 produced outlying recoveries in both of the matrix spikes for all except twelve of the analytes. The results for the compounds exhibiting outliers in both spikes have been qualified as estimated in value.

The following additional matrix spikes show outliers that resulted in qualification of the listed compounds in the parent sample as estimated:

Parent Sample	Analyte	Outlying % Recoveries	Outlying %RPD
TP-4-7.5-8	1,2,4-trichlorobenzene	58,56	
	1,2- dichloroethane	75,64	
	bromoform	58,62	
	cis-1,3-dichloropropene	79,78	
	1,2-dibromoethane	73,73	
MW-3S-20150612	benzene	10,13	

The matrix spikes of MW-1-20150611 and MW-4D show acceptable recoveries and correlations. The matrix spikes of MW-2S-19-19.8 were processed at twofold dilution, and no qualification is made for the outlying accuracy and precision values.

Calibration standards showed acceptable responses, with the following exceptions, results for which are qualified as estimated in the indicated associated samples:

- 1,2,4-trichlorobenzene (21%D and 22%D) in SB-5-7-8.6, SB-5-21-21.6, and SB-2-13-14.5, and SB-2-7-7.9
- dibromochloromethane, 1,1,2,2,-tetrachloroethane, 1,3-dichlorobenzene, and 1,4-dichlorobenzene (21%D to 22%D) in SB-7-17-18.3 and SB-3-25-25.4
- 1,1,2,2-tetrachloroethane, 1,3-trichlorobenzene, 1,4-trichlorobenzene, and dibromochloromethane (21%D to 22%D) in SB-8-5-6.3, SB-8-25-26.6, SB-1-5-5.7, SB-1-17-18.2, and SB-1-27-27.8
- dichlorodifluoromethane (42%D) in all samples reported in SDG 480-80643

Some of the samples were processed only at dilution due to target analyte concentrations. This results in proportionally elevated reporting limits.

TCL Semivolatiles by EPA 8270D

Due to a recovery of only 6% in the associated LCS, the results for phenol in TP-1-8-9, TP-1B-9-10, TP-4-7.5-8, and DUP-052715 are rejected and not usable.

The following results are edited to reflect non-detection due to very poor mass spectral quality and identification:

- benzo(g,hi)perylene in SB-4-3-4
- n-nitrosodiphenylamine, atrazine, 2,4-dinitrotoluene, 2,6-dinitrotoluene, and 4,6-dinitro-2-methylphenol in SB-2-19-19.3

- 4-methyphenol in FB-20150520
- 2,4-dimethylhenol in MW-4D-20150610
- 2,4-dinitrophenol in MW-1-20150611
- butylbenzylphthalate in MW-2D-20150611

The detection of carbazole in MW-2S-19-19.8 is qualified as tentative in identification and estimated in value.

Due to presence in the associated field or method blanks, the following detections are considered external contamination, and have been edited to reflect non-detection:

- di-n-butylphthalate in the samples reported in SDGs 480-80416 and 480-80643
- 4-methylphenol in the soils reported in SDGs 480-80752 and 480-80817
- benzaldehyde and di-n-butylphthalate in aqueous samples reported in SDG 480-82105
- benzaldehyde and bis(2-ethylhexyl)phthalate in samples reported in 480-87716 and 480-87801
- diethylphthalate in the samples reported in SDG 480-87801

Results for analytes reported with the laboratory "E" flag are to be derived from the dilution analyses of the samples, thus reflecting responses within the established linear ranges of the instruments.

The result for pentachlorophenol in DUP-20150611 is qualified as estimated due to low recovery (36%) in the associated LCS.

Only twelve analytes were evaluated in the matrix spikes and LCSs. The analytical protocol requires that all target analytes be evaluated. Only the compounds for which acceptance ranges are available underwent the validation evaluation.

The matrix spikes of SB-4-27-28.7, SB-9-35-36.2, TP-4-7.5-8, MW-3S-20150612, and MW-4D show acceptable recoveries and correlations for the twelve reported evaluated spiked analytes. The matrix spikes of SB-4-3-4, SS-5-0-6, SS-11-0-6, and MW-2S-19-19.8 could not be evaluated due to the dilution at which the analyses were performed.

bis(2-Ethylhexyl)phthalate recovered at only 44% and 50% in the matrix spikes of MW-1-20150611, and that result is qualified as estimated in the parent sample.

Calibration standards showed acceptable responses, with the following exceptions, results for which are qualified as estimated in the indicated associated samples:

- pentachlorophenol (24%D) in sample FB-20150520, MW-4S-19-19.6, MW-3D-33.5-34, and all samples reported in SDG 480-80643
- phenol(21%D) in SB-3-25-25.4 and SB-3-29-29.7
- benzaldehyde and pentachlorophenol (22%D to 68 %D) in MW-1S-16-18 and MW-1D-28-29
- benzaldehyde, 4,6-dinitro-2-methylphenol, pentachlorophenol, indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene, and benzo(g.h.i)perylene (23%D to 52%D) in DUP-20150611
- bis(2-chloroisopropyl)ether (25%D) in samples MW-4D-20150610, MW-1-20150611, MW-2D-20150611
- benzaldehyde and bis(2-chloroisopropyl)ether (21%D to 55 %D) in MW-1D-20150612, MW-2S-20150612, MW-3S-20150612, MW-4-20150612, MW-4S-20150612, and FB-20150612

TCL Pesticides and TCL Aroclor PCBs by EPA method 8081B and 8082A

Results for analytes exhibiting elevated dual column quantitative correlations are qualified to reflect the uncertainty in identification and/or quantitation. The values have been either qualified as estimated, qualified as tentative in identification and estimated in value, or edited to reflect non-detection, depending on the degree of variance. Consequently, most of the pesticide detections are edited to non-detection, as suspected matrix interference responses.

Due to presence in the associated method or field blanks, the following detections are considered external contamination, and have been edited to reflect non-detection:

- a-BHC, heptachlor epoxide, and 4,4'-DDT, in soil borings collected up to 05/13/15
- endosulfan sulfate and methoxychlor in the surface soils reported in SDG 480-80306
- a-BHC in soil borings reported in SDG 480-80416, 480-80498, and 480-80580
- a-BHC and 4,4'-DDT in soils reported in SDG 480-80752
- a-BHC and d-BHC in the soil samples reported in SDG 480-81065
- endrin aldehyde detections flagged as "B" in the aqueous samples reported in SDG 480-82105
- 4,4'-DDT and endrin ketone in the samples reported in SDGs 480-87716 and 480-87801

The surrogate standard DCB produced low recoveries (60% and 57%) in the PCB analysis of MW-2S-19-19.8, and the Aroclor results for that sample are qualified as estimated in value.

Results for g-BHC in the soil samples reported in 480-81065 are qualified as estimated, with a low bias, due to low recovery (54%) in the associated LCS.

The Aroclor 1016 and 1260 matrix spikes of SB-5-3-4, SB-4-27-28.7, SS-8-0-6, SS-11-0-6, SB-9-35-36.2, MW-2S-19-19.8, TP-4-7.5-8, MW-1-20150611, MW-1D-20150612, and MW-4D, and the pesticide matrix spikes of SB-4-27-28.7, SB-9-35-36.2, TP-4-7.5-8, MW-1-20150611, MW-4-20150612, and MW-4D show recoveries and duplicate correlations that are within validation action limits. The pesticide matrix spikes of SB-4-3-4, SB-8-0-1, SS-5-0-6, SS-11-0-6, and MW-2S-19-19.8 could not be evaluated due to the dilution at which the analyses were performed.

Holding times were met, and blanks show no contamination. Most pesticide soil samples were analyzed at significant dilution (usually without any interferences evident in the chromatograms), and surrogate recovery evaluations on those samples are not possible.

The responses for the calibration standards are within validation action levels.

Some of the QC summary forms 10A that summarize pesticide detection dual column quantitation correlations are not complete.

TCL Metals Analyses by EPA 6010C, 7470, and 7471

Due to presence in the associated field blanks, the detections of sodium in the soil borings collected up through 05/19/15 , and of zinc in the samples reported in SDG 480-80752 and 480-87716, are considered external contamination, and have been edited to reflect non-detection.

Due to presence in the associated method blanks, the following detections are considered external contamination, and have been edited to reflect non-detection:

- selenium in the soil borings reported in SDG 480-80498
- sodium in the samples reported in SDG 480-81163
- sodium and cadmium in the soil samples reported in SDG 480-80752
- manganese that are flagged as "JB" in the aqueous samples reported in SDG 480-82105

Matrix spike/laboratory duplicate evaluations listed below show recoveries and/or correlations that are outside the validation guidelines, the results for which have been qualified as estimated in value in the indicated parent samples:

Parent Sample	Element	Outlying % Recoveries	Outlying %RPD
SB-4-3-4	Aluminum	320,432	
	Antimony	61,65	
	Barium	126,181	
	Calcium	26,12	
	Potassium	140,179	
SB-4-27-28.7	Antimony	32,39	
	Barium	183,357	
	calcium	543, 496	
	magnesium	154,220	
	potassium	224,275	
SS-5-0-6	aluminum	338,305	
	antimony	50,42	
	arsenic	72,62	
	chromium	10,-13	
	copper	28,-116	42
	magnesium	-59,-131	
	potassium	145,132	
	selenium	73,63	
	nickel		61
	calcium		38
	zinc		80
SS-1-0-6	antimony	43,49	
	lead	55	
	potassium	153,168	
	zinc	41,72	
SS-11-0-6	aluminum	456,392	
	antimony	59,55	
	barium	212,188	
	calcium	137,447	48
	magnesium	149, 159	
	potassium	211,205	
	mercury	77,71	

Parent Sample	Element	Outlying % Recoveries	Outlying %RPD
SB-1-5-5.7	aluminum	50,67	
	antimony	13,20	44
	arsenic	53,67	
	cadmium	67,72	
	magnesium	68,71	
	selenium	62,69	
	silver	48,55	
	sodium	70,71	
	thallium	63,60	
SB-9-35-36.2	aluminum	369,320	
	antimony	57,54	
	barium	165,155	
	potassium	219,180	
	calcium		36
	lead		197
TP-4-7.5-8	aluminum	247,287	
	antimony	46,54	
	calcium	168,126	
	chromium	63,70	
	silver	39,51	
	lead	188	37
TP-5-7-7.5	aluminum	202,260	
	antimony	65,53	
	calcium	135,218	
	zinc	0.3,-17	
	chromium	165	43
	magnesium	157	40
	vanadium	244	44
TP-3-4-5	antimony	32,21	48
	barium	12,-29	
	beryllium	65,68	
	cadmium	71,67	
	chromium	-160,-164	
	magnesium	73,66	
	selenium	59,58	
	silver	50,58	
	sodium	62,67	
MW-1-20150611	sodium	190,148	
MW-25-19-19.8	aluminum	170,274	35
	antimony	58,57	
	calcium	32, -1	

Parent Sample	Element	Outlying % Recoveries	Outlying %RPD
MW-25-19-19.8 cont'd	vanadium	14,18	
	iron		42
	manganese		72
MW-4D	aluminum	240,139	42
	barium	137,152	
	calcium		53
	iron	242,135	35
	magnesium	195,309	
	manganese	303,270	
	sodium		80
	zinc	128	

The matrix spikes of mercury in SB-9-1-2 and SB-8-25-26.6 show recoveries and duplicate correlations that are within validation action limits.

The ICP serial dilution evaluations for SB-4-3-4, MW-1-20150611, and SB-4-27-28.7 show acceptable correlations. The following ICP serial dilution evaluations show outlying correlations, and the results for the listed elements have been qualified as estimated in the indicated parent samples:

Parent Sample	Element	%Difference
SB-4-27-28.7	aluminum	25
	barium	26
	beryllium	25
	calcium	51
	chromium	27
	copper	25
	iron	30
	magnesium	32
	manganese	28
	potassium	26
	vanadium	32
	zinc	42
SS-5-0-6	calcium	15
	chromium	20
	copper	15
	iron	18
	magnesium	18
	manganese	23
	sodium	24
	zinc	25
SS-1-0-6	iron	15
	magnesium	17

Parent Sample	Element	%Difference
SS-1-0-6 cont'd	manganese	16
	zinc	17
SS-11-0-6	zinc	16
SB-1-5-5.7	aluminum	30
	barium	37
	calcium	37
	chromium	38
	cobalt	16
	iron	37
	magnesium	46
	manganese	36
	nickel	16
	vanadium	44
	zinc	42
SB-9-35-36.2	barium	17
	chromium	22
	magnesium	18
	potassium	21
	vanadium	18
	zinc	26
TP-4-7.5-8	aluminum	18
	barium	20
	calcium	20
	chromium	18
	iron	20
	magnesium	20
	manganese	21
	vanadium	18
	zinc	19
TP-3-4-5	aluminum	37
	barium	35
	calcium	42
	chromium	36
	iron	42
	magnesium	45
	manganese	55
	vanadium	43
	zinc	43
TP-5-7-7.5	calcium	17
	magnesium	16
	vanadium	22
	zinc	19

Parent Sample	Element	%Difference
MW-25-19-19.8	aluminum	22
	barium	28
	calcium	26
	iron	24
	lead	15
	magnesium	31
	manganese	22
	vanadium	26
	zinc	21

Low level and calibration standards show acceptable responses.

Total Cyanide Analyses by EPA 9021

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure. All were found acceptable for the validated samples, unless noted specifically within this text.

Total cyanide recovered at only 5% and 7% in the matrix spikes of MW-2S-19-19.8, and the result for that analyte in the parent sample has therefore been rejected, and is not usable.

The matrix spike and/or laboratory duplicates of SB-4-3-4,DUP-20150505, SB-6-31-31.5, SB-5-13-14.9, SB-4-27-28.7, SS-5-0-6, SS-9-0-2, SS-1-0-2, SB-7-5-5.7, SB-3-7-8.7, SB-3-13-14, SS-11-0-6, DUP-051415, SB-1-5-5.7, SB-9-35-36.2, MW-3D-33.5-34, MW-1-20150611, and MW-4D show recoveries and correlations that are within action guidelines, with the exception of those in SB-6-31-31.5 (208%), SB-3-7-8.7 (44%), SS-11-0-6 (59%; 61%RPD), DUP-051415 (51%), SB-9-35-36.2 (46% and 73%; 45%RPD), MW-3D-33.5-34 (30%), and MW-4D (77% and 82%). Results for the total cyanide in the samples showing outlying recoveries have been qualified as estimated.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

Att: Validation Qualified Definitions
Sample Identifications
Qualified Client EDDs

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

CLIENT and LABORATORY SAMPLE IDs

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-79685-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-79685-1	SB-6-2-3	Solid	05/05/2015 0950	05/06/2015 0115
480-79685-2	SB-3-3-4	Solid	05/05/2015 1150	05/06/2015 0115
480-79685-3	SB-7-0-1	Solid	05/05/2015 1440	05/06/2015 0115
480-79685-4	DUP-20150505	Solid	05/05/2015 0000	05/06/2015 0115

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-79814-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-79814-1	SB-5-3-4	Solid	05/06/2015 0950	05/07/2015 0205
480-79814-2	SB-9-1-2	Solid	05/06/2015 1435	05/07/2015 0205

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-79940-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-79940-1	SB-2-0-1	Solid	05/07/2015 0825	05/08/2015 0250
480-79940-2	SB-4-3-4	Solid	05/07/2015 1210	05/08/2015 0250
480-79940-2MS	SB-4-3-4	Solid	05/07/2015 1210	05/08/2015 0250
480-79940-2MSD	SB-4-3-4	Solid	05/07/2015 1210	05/08/2015 0250
480-79940-3	SB-1-1-2	Solid	05/07/2015 1500	05/08/2015 0250

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-80049-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-80049-1	SB-8-0-1	Solid	05/08/2015 0805	05/09/2015 0220
480-80049-2	SB-6-5-5.8	Solid	05/08/2015 0915	05/09/2015 0220
480-80049-3	SB-6-15-15.5	Solid	05/08/2015 1010	05/09/2015 0220
480-80049-4	SB-6-19.5-20	Solid	05/08/2015 1040	05/09/2015 0220
480-80049-5	SB-6-9.5-10	Solid	05/08/2015 0940	05/09/2015 0220
480-80049-6	SB-6-25-25.5	Solid	05/08/2015 1110	05/09/2015 0220

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-80121-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-80121-1	SB-6-31-31.5	Solid	05/11/2015 1535	05/12/2015 0130

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-80194-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-80194-1	FB-20150512	Water	05/12/2015 0800	05/13/2015 0200
480-80194-2	SB-5-7-8.6	Solid	05/12/2015 0905	05/13/2015 0200
480-80194-3	SB-5-13-14.9	Solid	05/12/2015 0925	05/13/2015 0200
480-80194-4	SB-5-21-21.6	Solid	05/12/2015 1000	05/13/2015 0200
480-80194-5	SB-5-25-26.3	Solid	05/12/2015 1025	05/13/2015 0200
480-80194-6	SB-5-31-32.5	Solid	05/12/2015 1055	05/13/2015 0200
480-80194-7	SB-2-7-7.9	Solid	05/12/2015 1430	05/13/2015 0200
480-80194-8	SB-2-13-14.5	Solid	05/12/2015 1500	05/13/2015 0200

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-80305-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-80305-1	SB-2-19-19.3	Solid	05/13/2015 0805	05/14/2015 0220
480-80305-2	SB-2-25-25.8	Solid	05/13/2015 0820	05/14/2015 0220
480-80305-3	SB-2-31-32	Solid	05/13/2015 0850	05/14/2015 0220
480-80305-4	SB-4-9-10.5	Solid	05/13/2015 1120	05/14/2015 0220
480-80305-5	SB-4-15-15.6	Solid	05/13/2015 1145	05/14/2015 0220
480-80305-6	SB-4-21-22.1	Solid	05/13/2015 1205	05/14/2015 0220
480-80305-7	SB-4-27-28.7	Solid	05/13/2015 1245	05/14/2015 0220
480-80305-7MS	SB-4-27-28.7	Solid	05/13/2015 1245	05/14/2015 0220
480-80305-7MSD	SB-4-27-28.7	Solid	05/13/2015 1245	05/14/2015 0220
480-80305-8	SB-4-35-36.9	Solid	05/13/2015 1335	05/14/2015 0220
480-80305-9	SB-4-39-40.3	Solid	05/13/2015 1405	05/14/2015 0220

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-80306-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-80306-1	SS-6-0-2	Solid	05/13/2015 1015	05/14/2015 0220
480-80306-2	SS-6-0-6	Solid	05/13/2015 1020	05/14/2015 0220
480-80306-3	SS-5-0-2	Solid	05/13/2015 1040	05/14/2015 0220
480-80306-4	DUP-051315	Solid	05/13/2015 0000	05/14/2015 0220
480-80306-5	SS-5-0-6	Solid	05/13/2015 1050	05/14/2015 0220
480-80306-5MS	SS-5-0-6	Solid	05/13/2015 1050	05/14/2015 0220
480-80306-5MSD	SS-5-0-6	Solid	05/13/2015 1050	05/14/2015 0220
480-80306-6	SS-3-0-2	Solid	05/13/2015 1118	05/14/2015 0220
480-80306-7	SS-3-0-6	Solid	05/13/2015 1125	05/14/2015 0220
480-80306-8	SS-4-0-2	Solid	05/13/2015 1140	05/14/2015 0220
480-80306-9	SS-4-0-6	Solid	05/13/2015 1148	05/14/2015 0220
480-80306-10	SS-7-0-2	Solid	05/13/2015 1238	05/14/2015 0220
480-80306-11	SS-7-0-6	Solid	05/13/2015 1242	05/14/2015 0220
480-80306-12	FB-051315	Water	05/13/2015 1215	05/14/2015 0220
480-80306-13	SS-8-0-2	Solid	05/13/2015 1258	05/14/2015 0220
480-80306-14	SS-8-0-6	Solid	05/13/2015 1302	05/14/2015 0220
480-80306-15	SS-10-0-6	Solid	05/13/2015 1328	05/14/2015 0220
480-80306-16	SS-9-0-2	Solid	05/13/2015 1432	05/14/2015 0220
480-80306-17	SS-9-0-6	Solid	05/13/2015 1436	05/14/2015 0220
480-80306-18	SS-10-0-2	Solid	05/13/2015 1318	05/14/2015 0220
480-80306-19	SS-1-0-2	Solid	05/13/2015 1540	05/14/2015 0220
480-80306-20	SS-1-0-6	Solid	05/13/2015 1545	05/14/2015 0220

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-80416-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-80416-1	FB-20150514	Water	05/14/2015 0730	05/15/2015 0140
480-80416-2	SB-7-5-5.7	Solid	05/14/2015 0805	05/15/2015 0140
480-80416-3	SB-7-11-12.1	Solid	05/14/2015 0815	05/15/2015 0140
480-80416-4	SB-7-17-18.3	Solid	05/14/2015 0845	05/15/2015 0140
480-80416-5	SB-7-21-22.6	Solid	05/14/2015 0910	05/15/2015 0140
480-80416-6	SB-7-25-26.6	Solid	05/14/2015 0930	05/15/2015 0140
480-80416-7	SB-7-31-32.1	Solid	05/14/2015 0945	05/15/2015 0140
480-80416-8	DUP-20150514	Solid	05/14/2015 0000	05/15/2015 0140
480-80416-9	SB-3-7-8.7	Solid	05/14/2015 1345	05/15/2015 0140
480-80416-10	SB-3-13-14	Solid	05/14/2015 1400	05/15/2015 0140
480-80416-11	SB-3-21-22.3	Solid	05/14/2015 1425	05/15/2015 0140
480-80416-12	SB-3-25-25.4	Solid	05/14/2015 1450	05/15/2015 0140
480-80416-13	SB-3-29-29.7	Solid	05/14/2015 1535	05/15/2015 0140

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-80417-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-80417-1	SS-12-0-2	Solid	05/14/2015 0900	05/15/2015 0140
480-80417-2	SS-12-0-6	Solid	05/14/2015 0910	05/15/2015 0140
480-80417-3	SS-11-0-2	Solid	05/14/2015 0920	05/15/2015 0140
480-80417-4	DUP-051415	Solid	05/14/2015 0000	05/15/2015 0140
480-80417-5	SS-11-0-6	Solid	05/14/2015 0930	05/15/2015 0140
480-80417-5MS	SS-11-0-6	Solid	05/14/2015 0930	05/15/2015 0140
480-80417-5MSD	SS-11-0-6	Solid	05/14/2015 0930	05/15/2015 0140
480-80417-6	SS-2-0-2	Solid	05/14/2015 1005	05/15/2015 0140
480-80417-7	SS-2-0-6	Solid	05/14/2015 1010	05/15/2015 0140
480-80417-8	FB-051415	Water	05/14/2015 0940	05/15/2015 0140

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-80498-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-80498-1	SB-8-5-6.3	Solid	05/15/2015 0810	05/16/2015 0230
480-80498-2	SB-8-11-12	Solid	05/15/2015 0840	05/16/2015 0230
480-80498-3	SB-8-17-18.3	Solid	05/15/2015 0910	05/16/2015 0230
480-80498-4	SB-8-21-22.2	Solid	05/15/2015 0920	05/16/2015 0230
480-80498-5	SB-8-25-26.6	Solid	05/15/2015 0940	05/16/2015 0230

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-80580-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-80580-1	FB 20150518	Water	05/18/2015 1300	05/19/2015 0205
480-80580-2	SB-1-5-5.7	Solid	05/18/2015 1340	05/19/2015 0205
480-80580-3	SB-1-11-12.3	Solid	05/18/2015 1355	05/19/2015 0205
480-80580-4	SB-1-17-18.2	Solid	05/18/2015 1415	05/19/2015 0205
480-80580-5	SB-1-23-24.3	Solid	05/18/2015 1440	05/19/2015 0205
480-80580-6	SB-1-27-27.8	Solid	05/18/2015 1500	05/19/2015 0205

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-80643-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-80643-1	SB-9-7-8.3	Solid	05/19/2015 0800	05/20/2015 0230
480-80643-2	SB-9-11-11.7	Solid	05/19/2015 0815	05/20/2015 0230
480-80643-3	SB-9-17-18.8	Solid	05/19/2015 0830	05/20/2015 0230
480-80643-4	SB-9-23-24.3	Solid	05/19/2015 0915	05/20/2015 0230
480-80643-5	SB-9-29-29.6	Solid	05/19/2015 0930	05/20/2015 0230
480-80643-6	SB-9-35-36.2	Solid	05/19/2015 1005	05/20/2015 0230
480-80643-6MS	SB-9-35-36.2	Solid	05/19/2015 1005	05/20/2015 0230
480-80643-6MSD	SB-9-35-36.2	Solid	05/19/2015 1005	05/20/2015 0230
480-80643-7	DUP-20150519	Solid	05/19/2015 0000	05/20/2015 0230
480-80643-8	MW-4D-29-29.8	Solid	05/19/2015 1530	05/20/2015 0230

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-80752-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-80752-1	MW-4S-19-19.6	Solid	05/20/2015 0820	05/21/2015 0200
480-80752-2	FB-20150520	Water	05/20/2015 1010	05/21/2015 0200
480-80752-3	MW-3D-33.5-34	Solid	05/20/2015 1430	05/21/2015 0200

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-80817-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-80817-1	MW-3S-11-13	Solid	05/21/2015 0840	05/22/2015 0245
480-80817-2	MW-2D-7-8.8	Solid	05/21/2015 1510	05/22/2015 0245
480-80817-3	DUP-20150521	Solid	05/21/2015 0000	05/22/2015 0245
480-80817-4	MW-2D-31-32.1	Solid	05/21/2015 1520	05/22/2015 0245

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-80919-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-80919-1	MW-2S-19-19.8	Solid	05/22/2015 0800	05/23/2015 0245
480-80919-1MS	MW-2S-19-19.8	Solid	05/22/2015 0800	05/23/2015 0245
480-80919-1MSD	MW-2S-19-19.8	Solid	05/22/2015 0800	05/23/2015 0245

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-80993-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-80993-1	MW-1D-28-29	Solid	05/26/2015 1437	05/27/2015 0915

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-81064-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-81064-1	MW-1S-16-18	Solid	05/27/2015 0850	05/28/2015 0230

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-81065-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-81065-1	TP-4-7.5-8	Solid	05/27/2015 1420	05/28/2015 0230
480-81065-1MS	TP-4-7.5-8	Solid	05/27/2015 1420	05/28/2015 0230
480-81065-1MSD	TP-4-7.5-8	Solid	05/27/2015 1420	05/28/2015 0230
480-81065-2	TP-1-8-9	Solid	05/27/2015 1515	05/28/2015 0230
480-81065-3	TP-1B-9-10	Solid	05/27/2015 1605	05/28/2015 0230
480-81065-4	FB-052715	Water	05/27/2015 1030	05/28/2015 0230
480-81065-5	DUP-052715	Solid	05/27/2015 0000	05/28/2015 0230

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-81163-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-81163-1	TP-2-4-5	Solid	05/28/2015 0805	05/29/2015 0235
480-81163-2	TP-3-4-5	Solid	05/28/2015 0910	05/29/2015 0235
480-81163-3	TP-5-7-7.5	Solid	05/28/2015 1000	05/29/2015 0235

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-82105-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-82105-1	MW-4D-20150610	Water	06/10/2015 1439	06/12/2015 0200
480-82105-2	MW-1-20150611	Water	06/11/2015 1219	06/12/2015 0200
480-82105-2MS	MW-1-20150611	Water	06/11/2015 1219	06/12/2015 0200
480-82105-2MSD	MW-1-20150611	Water	06/11/2015 1219	06/12/2015 0200
480-82105-3	MW-2D-20150611	Water	06/11/2015 1456	06/12/2015 0200
480-82105-4	DUP-20150611	Water	06/11/2015 0000	06/12/2015 0200
480-82105-5	TRIP BLANK	Water	06/11/2015 0000	06/12/2015 0200
480-82186-1	MW-1D-20150612	Water	06/12/2015 0843	06/13/2015 0255
480-82186-2	MW-2S-20150612	Water	06/12/2015 0815	06/13/2015 0255
480-82186-3	MW-3S-20150612	Water	06/12/2015 0915	06/13/2015 0255
480-82186-4	MW-4-20150612	Water	06/12/2015 0943	06/13/2015 0255
480-82186-5	MW-4S-20150612	Water	06/12/2015 1000	06/13/2015 0255
480-82186-6	FB-20150612	Water	06/12/2015 1010	06/13/2015 0255
480-82186-7	TB	Water	06/12/2015 0000	06/13/2015 0255

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-87716-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-87716-1	MW-4D	Water	09/21/2015 1340	09/23/2015 0145
480-87716-1MS	MW-4D	Water	09/21/2015 1340	09/23/2015 0145
480-87716-1MSD	MW-4D	Water	09/21/2015 1340	09/23/2015 0145
480-87716-2	MW-1	Water	09/21/2015 1512	09/23/2015 0145
480-87716-3	FB-092115	Water	09/21/2015 1620	09/23/2015 0145
480-87716-4	DUP-092115	Water	09/21/2015 0000	09/23/2015 0145
480-87716-5	MW-4	Water	09/21/2015 0902	09/23/2015 0145
480-87716-6	MW-1D	Water	09/22/2015 1012	09/23/2015 0145
480-87716-7	TRIP BLANK	Water	09/22/2015 0000	09/23/2015 0145

SAMPLE SUMMARY

Client: Brown and Caldwell

Job Number: 480-87801-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-87801-1	MW-2D	Water	09/23/2015 0815	09/24/2015 0200
480-87801-2	MW-2S	Water	09/23/2015 0750	09/24/2015 0200
480-87801-3	MW-3S	Water	09/23/2015 1000	09/24/2015 0200
480-87801-4	MW-4S	Water	09/23/2015 0930	09/24/2015 0200
480-87801-5	TRIP BLANK	Water	09/23/2015 0000	09/24/2015 0200

Appendix G: Electronic Data Deliverable (CD-ROM)