REPORT

Remedial Investigation
Portion of Former Vacuum Oil Refinery
Site No. C828190

Rochester, New York

City of Rochester

November 2019

OBG
Part of Ramboll

NOVEMBER 2019| 11862 | 61157

PORTION OF FORMER VACUUM OIL REFINERY

Site #C828190
1, 13, 31, 69, and 75 Cottage Street;
100 Riverview Place; 102 Violetta Street; and
1320 S. Plymouth Avenue
Rochester, New York

Prepared for: City of Rochester

I Doug Crawford, *certify that I am currently a NYS registered professional engineer and* that this Remedial Investigation Report was prepared in accordance with applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications



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LIST OF ACRONYMS

ALS	ALS Environmental Laboratory
amsl	above mean seal level
ASP	Analytical Services Protocol
BCA	Brownfield Cleanup Act
BCP	Brownfield Cleanup Program
bgs	below ground surface
BOA	Brownfield Opportunity Area
CAMP	Community Air Monitoring Program
CFR	Code of Federal Regulations
COCs	constituents of concern
COECs	constituents of ecological concern
COPCs	constituents of potential concern
CP	Commissioner Policy
CPP	Citizens Participation Plan
cm/sec	centimeters per second
CSM	Conceptual Site Model
1,1-DCA	1,1-dichloroethane
DBMS	database management system
DER	Division of Environmental Remediation
DGEIS	Draft Generic Environmental Impact Statement
DO	dissolved oxygen
DUSR	Data Usability Summary Report
ECL	Environmental Conservation Law
EDD	electronic data deliverable
ELAP	Environmental Laboratory Approval Program
EM	ExxonMobil
ESA	Environmental Site Assessment
FB	Field blank
FD	Field duplicate
FSAP	Field Sampling and Analysis Plan
ft	feet
FWRIA	Fish and Wildlife Resources Impact Analysis
GIS	Geographic Information System
GPR	ground penetrating radar
GPS	Global Positioning System
HASP	Health and Safety Plan
HFM	historic fill material
IDW	investigative-derived waste
in	inches
J	Estimated value (for a complete list of laboratory qualifiers, refer to "Report Qualifiers and Definitions" pages with analytical laboratory reports (**Exhibit C**)
LNAPL	liquid non-aqueous phase liquid
MBK	Methyl butyl ketone (2-hexanone)
MCPW	Monroe County Pure Waters
MCWA	Monroe County Water Authority
MEK	Methyl ethyl ketone (2-butanone)
mg/kg	milligrams per kilogram
mg/m^3	milligrams per cubic meter
mg/L	milligrams per liter
MIBK	Methyl isobutyl ketone
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	not applicable, not analyzed for
NAD83	North American Datum of 1983
NAVD88	North American Vertical Datum of 1988

NC	no criteria exists
ND	not detected
NT	No TICs identified
NTU	nephelometric turbidity unit
NYCRR	New York Codes, Rules, and Regulations
NYS	New York State
NYSASP	New York State Analytical Service Protocol
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OBG	O'Brien & Gere
ORP	oxidation-reduction potential
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PID	photoionization detector
PPE	personnel protective equipment
ppm	parts per million
PVC	polyvinyl chloride
QAPP	Quality Assurance Project Plan
QA/QC	quality assurance / quality control
QCP	Quality Control Plan
QHHEA	Qualitative Human Health Exposure Assessment
RAA	Remedial Alternatives Analysis
RI	Remedial Investigation
RIWP	Remedial Investigation Work Plan
RQD	bedrock rock quality designation
SCG	Standards, criteria, or guidance value
SCO	Soil Cleanup Objective
SGV	Standard and guidance value
SVOC	semi-volatile organic compound
TAGM	Technical and Administrative Guidance Memorandum
TAL	target analyte list
TCL	Target Compound List
TIC	Tentatively Identified Compound
124TMB	1,2,4-Trimethylbenzene
135TMB	1,3,5-Trimethylbenzene
TO-15	Toxic Organics TO-15 Method
UFPO	underground facilities protection organization
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency
µg/L	microgram per liter
µg/kg	microgram per kilogram
VOC	volatile organic compound

1. INTRODUCTION

OBG, part of Ramboll, (OBG) has developed this Remedial Investigation (RI) Report on behalf of the City of Rochester (City) to summarize findings of the Remedial Investigation recently completed for a portion of the former Vacuum Oil Refinery on an approximate 15.4-acre section of eight City-owned parcels including: 1, 13, 31, 69, and 75 Cottage Street; 100 Riverview Place; 102 Violetta Street; and 1320 S. Plymouth Avenue (Site).

The Site was accepted into the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) on September 24, 2014 as Site Number C828190 and the components of this investigation were based on the requirements of the NYSDEC Brownfield Cleanup Act (BCA) Agreement between the City and the NYSDEC dated April 6, 2015. The City entered the BCP as a Volunteer and the information generated during the RI was used to evaluate the nature and extent of contamination and evaluate potential risks to human health and the environment. The RI Work Plan, dated October 2015, prepared by OBG, was approved by the NYSDEC and New York State Department of Health (NYSDOH) on November 19, 2015.

1.1 PROJECT OBJECTIVES

The purpose of the RI was to further evaluate the nature and extent of contamination documented in prior investigations conducted at the Site (presented in Section 2.5). Data gaps remained from these prior investigations and required further evaluation of the horizontal and vertical extent of contamination and characterization of surface and subsurface impacts on the Site. Objectives of the RI included:

- Evaluation of the horizontal and vertical extent of contamination at the Site
- Identification of potential source(s) of contamination, migration pathways, and actual or potential receptors of contaminants
- Evaluation of the actual or potential threats to public health and environment
- Production of data of sufficient quantity and quality to support the evaluation of potential remedial alternatives to support future use.

1.2 REPORT ORGANIZATION

This report is organized as follows:

- Section 2 – Site Location and Description
- Section 3 – Remedial Investigation Methods
- Section 4 – Physical Characteristics of the Site
- Section 5 – Nature and Extent of Contamination
- Section 6 – Conceptual Site Model (CSM)
- Section 7 – Qualitative Exposure Assessment
- Section 8 – Fish and Wildlife Resource Impact Analysis
- Section 9 – Summary and Conclusions
- Section 10 – References.

2. SITE LOCATION AND DESCRIPTION

2.1 SITE LOCATION

The Site is located at 1, 13, 31, 69, and 75 Cottage Street; 100 Riverview Place; 102 Violetta Street; and 1320 S. Plymouth Avenue in Rochester, Monroe County, New York and encompasses approximately 15.4-acres. A Site Location map is presented as **Figure 1** and a Site Detail map depicting the Site parcels included in the RI is presented as **Figure 2**.

The Site is bordered by the Genesee River and adjacent western Genesee River concrete wall to the east/southeast/south beyond a narrow strip of New York State-owned land, residential property to the west, vacant land (formerly a junkyard addressed as 15 Flint Street) to the northwest, and Flint Street with commercial land to the north across Flint Street. Property addressed as 5 Flint Street, containing a single, vacant three-story building (associated with the former Vacuum Oil Refinery as described in Section 2.6) is also located near the north end of the Site. Although the 5 Flint Street parcel is located on the northern side of the Site, the Site also wraps around 5 Flint Street in a "U" shape.

2.2 SITE HISTORY

The following Site history summarizes information obtained from review of historic information. The Site was historically operated as a petroleum refinery, blending, and bulk oil storage facility from approximately 1866 to approximately 1930 that encompassed approximately 40-acres with a footprint spanning both north and south of Flint Street. The Vacuum Oil Company Refinery operated the petroleum refinery, blending operations, and bulk storage at portions of the Site (including several adjoining properties) from approximately 1866 to around the early 1890s. From the early 1890s until its closure in 1935, the Site operated as a blending facility. While most of the above-grade structures have been demolished and removed, some remnants of former structures remain, as detailed within Sections 2.3, 2.5, and 2.6. Since the time of refinery closure, the Site has remained vacant.

Crude oil, kerosene, naphtha, finished lubricants, and containers for these products (*e.g.*, wooden barrels, tin cans, and drums) were manufactured and stored on-Site. Operations and facilities that formerly occupied the Site include canal beds, rail yard, barrel manufacturing and storage, and underground facilities that previously serviced manufacturing operations (*e.g.*, utilities, sewers, and piping). The former canal was in operation from approximately 1840 to 1877. In approximately 1878, the canal was drained and was converted to the railbed for the Western New York & Pennsylvania Railroad. The railroad line was decommissioned in approximately 1971. An overview of historic Vacuum Oil Refinery building uses and footprints illustrated on the 1926 Plat Map are presented on **Figure 3**.

Two former railroad lines ran through the Site, including the Pennsylvania Railroad located approximately 100 feet (ft) northwest of the Genesee River and the Erie Railroad located approximately 200 ft to 400 ft northwest of the Genesee River along the Former Canal and Rail Area.

A structure, potentially a greenhouse/nursery, was depicted on the Site parcel identified as 1 Cottage Street in a 1926 aerial photograph. This structure is also present on the 1926 Plat Map presented on **Figure 3**, and on a 1938 Sanborn® Fire Insurance Map. The structure was also identified on the 1935 Plat Map as 'Western NY Nursery.' Some remnants of concrete remain; however, it is unknown if the concrete is associated with the former greenhouse/nursery, former railroad, or former canal. Most likely, the concrete remnants are related to either the former greenhouse/nursery or railroad as the former canal structures were reportedly constructed of wood.

Additionally, OBG's review of historical Site information as part of a Phase I Environmental Site Assessment documented in *Phase I Environmental Site Assessment Report, 1, 13, 31, 69, and 75 Cottage Street, 100 Riverview Place, 102 Violetta Street, and 1315 S. Plymouth Avenue, Rochester, New York*, dated December 2012 (located at

the document repository for this Site), identified 26 recognized environmental conditions. The following briefly summarizes a few of the on-Site recognized environmental conditions identified:

- Potential for impacts to soil and/or groundwater at the Site from releases that may have occurred during tank car loading/unloading; tank car cleaning with naphtha; and transport of products via railroad in association with the former oil refinery.
- The usage and storage on Site of naphtha, and the indication of widespread, multiple releases including discharge of naphtha and waste oil to the Genesee River, public sewer system, disposal in excavations on Site, burning in pits on Site, and broken pipelines, associated with the former oil refinery.
- From nearby, (upgradient) 27-31 Riverview Place (adjoining the northwestern most boundary of the 1 Cottage Street parcel potential presence of historic dry cleaning including the potential use of solvents, and the potential for groundwater migration onto the Site.
- A petroleum sludge pit was identified as being located on the southern adjacent parcel south of 13 Cottage Street (outside of the BCP property), the identification of the Site as a confirmed waste site, and the potential for several additional sludge pit locations on the southern portion of the Site and/or southern adjoining parcel, related to the former oil refinery.

2.2.1 Surrounding and Nearby Property History

Based on the property history described in the Remedial Alternatives Analysis (RAA) Report prepared by Ravi dated October 2016 (Ravi, 2016b), the adjacent 5 Flint Street property was reportedly vacant land until approximately 1875. In 1875, the parcel was developed with numerous buildings associated with the Vacuum Oil Refinery. The property served as a shipping and receiving yard between two railroad corridors along which raw materials were shipped and received. The property also operated as a lube blending facility, drum washing and storage, a paint shop, barrel manufacturing and/or storage, and several oil storage tanks were located in the southwestern portion of the parcel in the 1890s. The refinery continued operations until closing in approximately 1935. Since approximately 1942, the 5 Flint Street property has been operated as a scrap bailing company, and carting company. From approximately 1945 to 1985 the parcel was sold to individual owners, such as a food warehouse, two coffee companies, and an electric company.

Based on the property history described in the RAA Report (Ravi, 2016b), the *Day Environmental, Inc. (Day) Phase I Environmental Site Assessment Report, 15 Flint Street, dated 2007, and Stantec Consulting Services, Inc., (Stantec) Phase I Environmental Site Assessment, 15 Flint Street, dated April 2008*, the adjoining 15 Flint Street parcel was described as vacant land until approximately 1875, when the Vacuum Oil Refinery expanded to the parcel. The property was utilized for petroleum storage and processing until approximately 1892 and for lube oil blending until 1933 when the facility closed. Numerous refinery structures occupied nearly the entire 15 Flint Street parcel. Since approximately 1940, the 15 Flint Street property has been operated as a scrap metal salvage yard, an automobile wrecking and salvage yard, and an automotive junkyard until approximately 2008 when the operation was closed.

Additionally, OBG reviewed the property histories and site uses summarized in several *Phase I Environmental Site Assessments* for several nearby properties (see Section 10 for document references*)*. Other historic neighboring property uses include a former machine and/or tool and die operation at 950 Exchange Street, distilling and solvent tank storage at 936 Exchange Street, and vehicle/parts storage at 22 Flint Street.

2.3 CURRENT SITE CONDITIONS

2.3.1 Pedestrian Path

An asphalt-paved bike/pedestrian path runs through the eastern side of the Site from the north end of the property to the south end of the property and beyond in both directions. The path runs along the former Erie Railroad corridor. An approximate 1.2-acre grass-covered area is located on the eastern boundary of the Site along the Genesee River.

2.3.2 Undeveloped Woods

The remaining areas of the Site are undeveloped (except for the historic items mentioned above) and consist of vacant and undeveloped wooded and vegetative areas.

2.3.3 Indications of On-Site Waste Disposal or Landfilling

Miscellaneous trash piles and debris can be found throughout the wooded portions of the Site, depicted on **Figure 2**. Debris observed during the implementation of RI activities (both on the ground surface and below the ground surface, in varying quantities) included approximately half a dozen crushed 55-gallon steel drums, various sized piles of used automobile tires, concrete rubble, cinder blocks, miscellaneous trash, railroad timbers, bricks, and fill (including black granular material). A parts cleaner and metals shavings debris (which do not appear to be attributable to the refinery) were also observed as noted in Section 5 of this RI report. Locations where the miscellaneous trash/debris was observed are presented on **Figure 4**. Surface debris described herein was also observed during site visits performed by OBG as part of a Phase I Environmental Site Assessment documented in *Phase I Environmental Site Assessment Report, 1, 13, 31, 69, and 75 Cottage Street, 100 Riverview Place, 102 Violetta Street, and 1315 S. Plymouth Avenue, Rochester, New York*, dated December 2012 (located at the document repository for this Site.

2.3.4 Structures

While most of the above grade structures have been demolished and removed, some remnants of former concrete structures remain, as were observed during site visits performed by OBG as part of a Phase I Environmental Site Assessment documented in *Phase I Environmental Site Assessment Report, 1, 13, 31, 69, and 75 Cottage Street, 100 Riverview Place, 102 Violetta Street, and 1315 S. Plymouth Avenue, Rochester, New York*, dated December 2012 (located at the document repository for this Site).

Based on the information presented on the 1926 Plat Map (see **Figure 3**), a "Stave Storage Building" was situated on the City parcel identified as 13 Cottage Street, near the observed concrete structure remnants. It is unknown as to what subsurface structures components remain; however, subsurface structures were not generally encountered during the RI. Based on historic 1926 and 1958 aerial photographs, the structures were likely removed sometime between 1926 and 1958. An abandoned three-story building (associated with the former Vacuum Oil Refinery as described in Section 2.6) remains on an adjoining parcel identified as 5 Flint Street near the northern side of the Site.

As described in Section 3.1.3, a former Monroe County Pure Waters (MCPW) reinforced-concrete sewer line was identified within and adjacent to the west side of the former canal adjacent to an existing MCPW sewer line, and a former water line was identified on the east side of the former canal (associated with a former Vacuum Oil refinery hydrant system), during the pre-investigation activities. Active Monroe County Water Authority (MCWA) water lines are present underneath Flint Street and traverse the Genesee River.

A structure, potentially a greenhouse/nursery, was depicted on the Site parcel identified as 1 Cottage Street in a 1926 aerial photograph. This structure is also present on the 1926 Plat Map presented on **Figure 3**, and on a 1938 Sanborn® Fire Insurance Map. The structure was also identified on the 1935 Plat Map as 'Western NY Nursery.' Some remnants of concrete remain; however, it is unknown if the concrete is associated with the former greenhouse/nursery, former railroad, or former canal. Most likely, the concrete remnants are related to the former railroad as the former canal structures were reportedly constructed of wood.

A set of contract drawings provided by the City dated 1916, depict the location of the river wall running along the shoreline and ending near the southern end of the Site near the current pedestrian bridge. The structure is shown to extend to the bedrock surface. Cross-sections on the 1916 contract drawings also depict a concrete joint keyway that is only partially the height of the wall, wall joints spaced approximately 30 ft to 40 ft apart, and no waterstop was noted between the top of bedrock and concrete wall.

The entrance to the northern end of the former Erie-Lackawanna Railroad Bridge is located on the southern end of the City parcel identified as 102 Violetta Street. This bridge is currently part of the pedestrian trail and crosses the Genesee River.

2.4 LAND USE

The Site is currently zoned R-1 Low Density Residential. Residential, commercial, and light industrial manufacturing properties generally surround the Site within a one-half mile radius. Adjoining properties include the following:

- North – Commercial property (part of the former Vacuum Oil Refinery footprint), City-owned parkland and bike path, and the 5 Flint Street parcel (part of the former Vacuum Oil Refinery footprint)
- South – Undeveloped land, the Genesee River, and City-owned parkland and bike path
- East – Undeveloped land and the Genesee River
- West – Residential property and the 15 Flint Street parcel (part of the former Vacuum Oil Refinery footprint).

2.5 PREVIOUS INVESTIGATIONS

Previous investigations performed by ExxonMobil (EM), the NYSDEC, and the City on the Site and/or the adjoining 5 Flint Street and 15 Flint Street parcels (as referenced in this Section and Section 2.6) indicate the presence of contamination in surface soil, subsurface soil, and groundwater consisting of one or more of the following; concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, polychlorinated biphenyls (PCBs), and/or pesticides exceeding their respective NYSDEC Technical and Administrative Guidance Memorandum #4046 Recommended Soil Cleanup Objectives, January 1994, amended December 20, 2000 (TAGM #4046).

Further details regarding the previous Site investigations are presented within the references identified in Section 10 and are summarized in OBG's report titled *Phase I Environmental Site Assessment Report, 1, 13, 31, 69, and 75 Cottage Street, 100 Riverview Place, 102 Violetta Street, and 1315 S. Plymouth Avenue, Rochester, New York*, dated December 2012 (located at the document repository for this Site).

During the 2008 EM investigation Roux collected 35 samples on-Site. As part of third-party oversight on behalf of the City, Labella Associates, P.C. (LaBella) collected six split soil samples from the same interval as Roux; two soil samples from two soil borings, but at different intervals than Roux; and three split groundwater samples. These seven soil samples and three groundwater samples were validated by a third-party validator and are depicted on Figure 3 of the RI Work Plan. A comparison of the LaBella soil samples and the Roux soil samples are presented on Table 1 of the RI Work Plan and a comparison of the LaBella groundwater samples and the Roux groundwater samples are presented on Table 2 of the RI Work Plan. LaBella's Data Usability Summary Report (DUSR) documentation is presented as Exhibit A of the RI Work Plan. Upon qualitative review of the validated and unvalidated analytical results for the split samples collected by both LaBella and Roux at the same intervals, there was no substantial difference in the results. However, due to the specific intervals only being available at only six locations for direct comparison, the recollection and reanalysis of a portion of ExxonMobil investigation locations was conducted. The following subsurface soil and groundwater samples were used to confirm the historic data:

- A comparison was performed for three soil samples with similar sample depths; historic sample SB-017A compared to SB-127, historic sample SB-048 compared to SB-108, and historic sample SB-071 compared to SB-113, respectively (with some variation in individual parameters analyzed for). Based on the results, the historic samples were generally comparable to the results obtained during the RI for VOCs, pesticides, and PCBs. Overall the SVOC comparison indicates much higher concentrations during the previous investigation where in several instances SVOCs from data collected during OBG's RI were not detected. A comparison of metals indicates some comparability; however, the historic data generally has larger concentrations than those observed during the RI.

- Comparison of two groundwater samples; historic sample SB-014 compared to OVR-117, and historic sample SB-046B compared to OVR-107, respectively (with some variation in individual parameters analyzed for). Concentrations of VOCs observed in the historic samples are higher than those observed in the OBG RI results, with concentrations in some cases differing by orders of magnitude. Concentrations of SVOCs, inorganics, and PCB are generally comparable between the two events.

2.6 RECENT INVESTIGATIONS

2.6.1 Adjoining 5 Flint Street and 15 Flint Street Remedial Investigation

On behalf of One Flint Street, LLC, a New York State Brownfield Cleanup Program (NYSBCP) RI was implemented by Ravi Engineering and Land Surveying, P.C. (Ravi) on two adjoining parcels, 5 Flint Street and 15 Flint Street starting in 2014. The 5 Flint Street and 15 Flint Street parcels (consisting of approximately 7.2 non-contiguous acres) are being investigated under the BCP (NYSDEC Site No. C828162). The adjoining 5 Flint Street and 15 Flint Street parcels are part of a portion of the former Vacuum Oil Refinery footprint and were also the location of several other business subsequent to the shut-down of operations between 1933 and 1935 as discussed in Section 2.2.1.

2.6.1.1 Remedial Investigation – Adjoining 5 Flint Street and 15 Flint Street

A Brownfield Cleanup Program Remedial Investigation Report was submitted by Ravi in October 2016 (Ravi, 2016a). A letter from NYSDEC to One Flint Street, LLC dated May 10, 2017 indicated the NYSDEC was in receipt of the RI Report, had no comments, but would not approve, disapprove, or modify until a Decision Document was issued (NYSDEC, 2017). The following is a summary of the findings of that investigation:

The purpose of the RI field activities performed by Ravi, were to investigate existing data gaps and to further define the nature and extent of the contaminants present on 5 Flint Street and 15 Flint Street. The results of the RI, including findings of previous work performed by Roux, Labella, and NYSDEC were used to evaluate remedial actions that might be required to render the property suitable for the intended use of the property.

The RI and previous investigations indicated subsurface soils with concentrations of VOCs, SVOCs, and metals in exceedance of NYSDEC Unrestricted Use and Restricted-Residential Use Soil Cleanup Objectives (SCOs) at depths ranging from 3 ft to 12 ft below ground surface (bgs) on both 5 Flint Street and 15 Flint Street in several locations.

SVOCs were detected in surficial soil at concentrations in exceedance of SCOs on the 5 Flint Street Site and numerous discrete locations on the 15 Flint Street parcel, with the highest concentrations located at the northwest end of the 15 Flint Street parcel. Arsenic, lead, mercury, and PCBs were also detected in surficial soils in exceedance of SCOs across the majority of the 5 Flint Street and 15 Flint Street parcels, with the highest concentrations of PCBs, lead, mercury, and arsenic being located at the north end of 15 Flint Street, and highest lead and PCB impacts in the central portion of 15 Flint Street. The area south of the building situated on the 5 Flint Street parcel exhibited the highest mercury and arsenic impacts, and the south end of the 5 Flint Street parcel with the highest lead, mercury, and arsenic concentrations.

VOCs, SVOCs, metals, pesticides, and PCBs were detected at concentrations in exceedance of New York State Class GA Groundwater Standards in groundwater samples collected throughout the 5 Flint Street and 15 Flint Street parcels. The highest concentrations of VOCs were collected from groundwater samples below the building situated on the 5 Flint Street parcel, southwest of the building, and on the northern portion of the 15 Flint Street parcel. Liquid non-aqueous phase liquid (LNAPL) was also encountered at various monitoring wells during the RI.

Based on the presence of contamination on the adjoining 5 Flint Street and 15 Flint Street properties, and the proximity to the Site, there is the potential for ongoing contaminant migration onto the Site, specifically via groundwater and potentially via surface runoff. This potential groundwater contamination could include VOCs, SVOCs, metals, pesticides, PCBs, and/or LNAPL. The RI Report (Ravi, 2016a) concluded that groundwater flow on the Site was to the east toward the Genesee River.

The RI Report (Ravi, 2016a) indicated there is little potential for human exposure to groundwater, and the primary source of potential human exposure to contaminants is through direct contact with contaminated soils.

Soil gas samples were collected along the adjoining 5 Flint Street and 15 Flint Street property boundaries. Results did not indicate the potential for off-Site vapor migration to adjoining buildings; however, on-Site exposure pathways do exist for potential vapor intrusion.

2.7 PROPOSED SITE USE AND REZONING

A *Draft Nomination Study, Vacuum Oil – South Genesee River Corridor City Brownfield Opportunity Area* (BOA) (BOA Master Plan) was prepared by Bergmann Associates (Bergmann), dated April 2013. This BCP Site is located within the BOA Study Area which encompasses approximately 148-acres along the Genesee River. The redevelopment of the Site will occur according to the BOA Master Plan to include multi-family residential, commercial/retail, and industrial facilities through a phased implementation.

Per a NYS Assembly Bill, a portion of the Site is also proposed to have a Change in Use implemented for approximately 5.27 acres to become dedicated parkland, a portion of which intersects with the site. The parkland has been officially dedicated by Rochester City Council; however, the dedicated parkland has not yet been rezoned to Open Space. The timing of the rezoning of the newly dedicate parkland has not been defined as of the date of this report. The new 5.27 acres of parkland is depicted on **Figure 3A**.

The eight, City-owned tax parcels are currently zoned R-1 Low Density Residential. The BOA Master Plan also discusses possible zoning modifications to accommodate the intended future use and redevelopment described above in this section.

The BOA Master Plan also aligns with the BOA Step 3 Implementation Plan as described in the *Vacuum Oil Brownfield Opportunity Area Draft Generic Environmental Impact Statement (DGEIS) & Brownfield Opportunity Area (BOA) Step 3 Implementation Plan*, prepared by Bergmann, dated September 29, 2017 (Bergmann, 2017). The following Step 3 components will be conducted, with the findings and recommendations incorporated into the redevelopment as appropriate:

- *Building Condition and Structural Assessments*
- *Housing Analysis and Reinvestment Strategy*
- *Land Appraisals*
- *Geotechnical Investigations*
- *Phase I Environmental Site Assessments*
- *Wetland and Invasive Species Assessment & Mitigation Planning*
- *Traffic Study and Transportation and Infrastructure Feasibility and Enhancement Studies*
- *Waterfront and Public Realm Concept Plan, including Neighborhood Pocket Park Site Selection & Conceptual Design.*

Future use of the site is contemplated to be consisted with the BOA Master Plan (with Site improvements described in Phase I and Phase II above). Future use also consists of rezoning a portion of parkland to Open Space via the Change In Use documentation referenced above.

A copy of the 15+ years 2035 Vision Plan from with the BOA documentation referenced above is presented as **Exhibit A**.

The two adjoining properties, 5 Flint Street and 15 Flint Street currently under remedial investigation by Ravi, have recently been rezoned from R-1 to R-3 High-Density Residential.

3. REMEDIAL INVESTIGATION METHODS

The RIWP (OBG, 2015) specified the scope of work for the RI activities. The RI Work Plan included a project-specific Quality Assurance Project Plan (QAPP), Health and Safety Plan (HASP), Community Air Monitoring Plan (CAMP), Field Sampling and Analysis Plan (FSAP), and Citizens Participation Plan (CPP) provided as Appendices to the RI Work Plan.

This section documents the procedures that were used during the RI to implement health and safety monitoring, Quality Assurance/Quality Control (QA/QC) protocols, collection of environmental samples, drilling, and groundwater monitoring well installation techniques, sampling techniques, equipment decontamination procedures, and handling of investigative-derived waste (IDW).

3.1 HEALTH AND SAFETY

A Site-specific Health and Safety Plan (HASP) (Appendix C of the RI Work Plan) was completed prior to the start of field activities. The HASP was implemented by personnel involved in the RI. Subcontractors working on the Site were responsible for the preparation and implementation of their own Site-specific HASP.

3.1.1 Personnel Air Monitoring

In accordance with the HASP, monitoring of the work areas and screening of Site media (*e.g.*, soil and sediment samples) was conducted throughout the duration of field activities to protect the safety of on-Site workers. Air monitoring of the work area breathing zone was conducted using an aerosol particulate meter (*i.e.*, TSI 8530 DusTrak II) and a photoionization detector (PID) calibrated each day prior to the start of field activities. Air monitoring was performed during implementation of the RI.

3.1.2 Community Air Monitoring

A Community Air Monitoring Program outlining the monitoring and response activities associated with monitoring VOCs and particulates at the property boundaries near the intrusive investigative activities was included in the HASP. The CAMP was prepared in accordance with Appendix 1A of Division of Environmental Remediation (DER) *Technical Guidance For Site Investigation and Remediation* (DER-10), issued May 3, 2010. As discussed in Section 3.4, a deviation letter to NYSDEC was approved on February 24, 2016 to modify the community air monitoring program from three stations (upwind, downwind, and work zone) to two stations (upwind and downwind). Intrusive activities included the advancement of soil borings, test pit excavations and backfilling, and installation of groundwater monitoring wells. Instrument readings and observations were recorded by City personnel on air monitoring logs provided as **Appendix A**.

The 15-minute average dust level exceeded the CAMP limit of 0.1 milligrams per cubic meter (mg/m^3) on six occasions and were recorded on the Work Zone monitor only, as follows:

Test Pit Excavation – Work Zone Monitor			
Date	**Time**	**15-minute average mg/m^3**	**Cause/Corrective Action**
1/15/2016	11:10 - 11:24	0.111	Excavator exhaust/ None, readings fell back below limit
1/29/2016	11:51 - 12:05	0.180	Excavator exhaust/ None, readings fell back below limit
1/29/2016	12:23 - 12:37	0.132	Monitor error while transporting to next location (TP-136)
Borings – Work Zone Monitor			
3/10/2016	8:09 - 8:23	0.111	Monitor error due to rain
4/6/2016	9:44 - 9:58	0.104	Boring OVR-124/ None, readings fell back below limit
4/27/2016	14:21 - 14:35	0.102	Boring BED1-100/ None, readings fell back below limit

At no point during these 15-minute exceedances was visible dust observed migrating downwind of the Work Zone nor was an exceedance observed at the downwind monitoring station. Engineering and administrative control measures were implemented to reduce particulate concentrations below action levels.

The organic vapor monitoring requirement of 15-minute average VOC level of 5 parts per million (ppm) was not exceeded during implementation of the RI field activities.

3.1.3 Subsurface Utility Clearance and Geophysical Survey

Prior to beginning subsurface sampling and testing, Dig Safely New York (DigSafely) was contacted to identify underground utilities in the vicinity (*i.e.*, rights-of-way or public areas) of the Site. DigSafely marked and/or flagged locations of the underground facilities prior to the start of work. An underground sewer line running the length of the Site through the parcel addressed as 1320 S. Plymouth Avenue was identified and marked.

The RI Work Plan indicated an electromagnetic survey unit would be used to locate magnetic anomalies and focus in areas where former Vacuum Oil buildings and operations were concentrated and in areas where present day utilities may be located. Prior to implementation of the geophysical survey, Site clearing was performed and approximately 15% to 20% of the Site was cleared of trees and other vegetation. OBG retained Underground Services, Inc. (SoftDig) to perform the geophysical survey. However, due to the unevenness of the ground surface and the presence of stumps, roots, rocks, and other debris - even in the areas cleared prior to performing the survey - the ground penetrating radar (GPR) unit was not able to be utilized except for the grass-covered areas near the Genesee River.

After discussion with the on-Site NYSDEC field representative, Mr. Robert Long, Jr., the use of the electromagnetic survey unit was discontinued. SoftDig then utilized a hand-held radio frequency detection device. This handheld device was used to check for utilities within an approximate five ft radius around each proposed sample location.

Subsurface items detected with the hand-held radio frequency detection device included the following:

- Former water line associated with a fire suppression system traversing the center of the majority of the former Vacuum Oil site. Hydrants are still present at the Site (see **Exhibit B** for a map depicting said water line).
- A MCPW sewer system was also detected and corresponds to its known location along the western side of the of the former canal. This sewer line location, provided electronically from MCPW, was not mapped by SoftDig. However, MCPW staked out the active sewer line twice for safety purposes during implementation of field activities, as requested by OBG. Both the active MCPW sewer line and the abandoned reinforced-concrete sewer line are depicted on MCPW drawings titled "Doran Street Interceptor," Sheets 40 of 80 and 41 of 89, dated March 1974. The abandoned sewer is also depicted on the 1888 Genesee River Valley Canal Sewer Extension drawing prepared by the City surveyor.

A square anomaly approximately 8 ft x 8 ft, was identified immediately south of the 5 Flint Street structure. This area was not within the working radius of a soil boring or monitoring well and was not investigated further as part of the utility locating efforts. The anomaly was investigated by the City on February 5, 2019. The metallic anomaly was uncovered using hand tools and consisted of an approximate 2 in wide by 1 in thick steel rail-like object embedded in concrete that formed two sides of an approximate 3 ft by 6 ft rectangle. The steel did not appear to be present on the other two sides. A shovel was used to scrape around the outside and the inside of the rectangular area. Material on the inside of the rectangle consisted of soil, stones, and bits of brick. No voids, pits, or other subsurface structures were observed at this location and this metallic object did not appear to be a cover for a structure. The origin of this rectangular area is unknown. No odors or staining were observed during this February 5, 2019 anomaly investigation.

A soil boring (SB-140) and overburden groundwater monitoring well (OVR-106) were completed in the vicinity of the anomaly area. Soil samples were not collected from these two locations. Field observations identified fill

material and petroleum odors were also noted in the subsurface. Low concentrations of VOCs, SVOCs, and metals were detected in groundwater collected from overburden groundwater monitoring well OVR-106; however, there were no exceedances of NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 Ambient Water Quality Standard and Guidance Values and Groundwater Effluent Limitations Ambient Water Quality Standards and Guidance Values for Class GA groundwater (Class GA SGVs) other than metals iron, magnesium, manganese, and sodium. PCBs were not detected in groundwater at overburden groundwater monitoring well OVR-106.

Following the completion of the GPR survey, the anomaly locations were labeled and flagged, and the horizontal locations were recorded utilizing a Trimble Geo-XH® Global Positioning System (GPS) unit for horizontal control. A map depicting an underground hydrant/water line located on-Site was generated and the location was imported into the geographic information system (GIS) database (presented as **Exhibit B**).

3.2 QUALITY CONTROL PROTOCOLS

A project specific Quality Control Plan (QCP) was prepared for this project and included in Appendix B of the RI Work Plan. The QCP provided QA/QC criteria for work efforts associated with the sampling and analysis of environmental media.

During execution of the RI, laboratory samples were submitted under appropriate chain of custody protocols to ALS Environmental Laboratory (ALS) located in Rochester, New York, a NYSDOH Environmental Laboratory Accreditation Program (ELAP)-certified laboratory. The laboratory provided Category B report packages. Copies of the laboratory reports are presented in **Exhibit C**. Data was validated by OBG. Copies of the Data Usability Summary Reports (DUSRs) are provided as **Appendix B**.

OBG maintained and managed the laboratory data in a relational database management system (DBMS) (*i.e.*, EQuIS). The DBMS was used to provide custom queries and reports to support data analysis and preparation of this Report.

3.3 SAMPLING AND FIELD ACTIVITIES

A Site-specific Field Sampling and Analysis Plan (FSAP) was prepared as part of the NYSDEC-approved RI Work Plan and provided information regarding field sampling methods and procedures used during the investigation.

This section documents the procedures that were used during the RI for the collection of environmental samples, drilling, and monitoring well installation techniques, equipment decontamination, and handling of IDW. The following items were the primary components of the RI field activities:

- Site Clearing
- Surface Soil and Existing Surface Cover sampling and analysis
- Advancement of Test Pits and Soil sampling and analysis
- Advancement of Soil Borings and Soil sampling and analysis
- Installation of Overburden and Bedrock Groundwater Monitoring Wells
- Collection and analysis of Groundwater Samples
- Collection and analysis of Soil Vapor Samples
- Survey of Sample Locations
- Decontamination (personnel and equipment)
- Management of IDW.

On behalf of ExxonMobil, personnel from Roux Associates, Inc. (Roux) of Woburn, Massachusetts, were on-Site during the groundwater sampling, surface soil sampling, soil vapor sampling, temporary well drilling and installation, and groundwater grab sampling. Roux observed the field activities performed and collected split samples for separate laboratory analysis. Roux was not on-Site during excavation of test pits, advancement of soil borings, installation of groundwater monitoring wells, groundwater monitoring well development activities, and hydraulic conductivity testing.

A photographic log for select photographs taken during the RI is presented as **Appendix C**.

3.3.1 Laboratory Analysis

Samples collected during the RI were assigned a unique sample identification code based on the sampling location and the date of collection. **Table 1** summarizes samples collected during the RI including the unique sample designation and the laboratory analysis for each sample. Sample locations are presented on **Figure 4**.

Laboratory samples were collected in appropriate laboratory-supplied sample containers. Samples were placed in a plastic cooler pre-chilled with ice and submitted under appropriate chain of custody protocols to ALS for one or more of the following analyses:

- Target Compound List (TCL) VOCs by United States Environmental Protection Agency (USEPA) Method 8260+ 10 Tentatively Identified Compounds (TICs)
- TCL SVOCs by USEPA Method 8270 + 20 TICs
- TAL Metals by USEPA Methods 6010/7470/7471
- Cyanide by USEPA Method 9012
- TCL PCBs by USEPA Method 8082
- TCL Pesticides by USEPA Method 8081
- VOCs by USEPA Toxic Organics-15 Method (TO-15).

Copies of the laboratory chain of custody documentation are presented as **Appendix C**. A summary of the samples that were submitted to the laboratory and requested analysis for each sample is presented on **Table 1**.

Category B report packages as described in the current New York State Analytical Service Protocol (NYSASP) are presented in **Exhibit C**. Data was validated and copies of the DUSRs are provided as **Appendix B**.

3.3.2 Partial Site Clearing

A Site Clearing Plan was prepared by OBG and submitted to NYSDEC on September 9, 2015 prior to performing Site work. This Plan described the areas to be cleared and requested NYSDEC approval. The NYSDEC approved this Plan on September 22, 2015. Lanes of brush and vegetation were cleared by TREC Environmental, Inc. (TREC) to allow access for the test pit and drilling subcontractors Nature's Way Environmental (Nature's Way) and Nothnagle Drilling, Inc. (Nothnagle) respectively, as needed to allow excavator and drill rig accessibility. To clear pathways for access to the investigation locations, trees less than 12 inches (in) in diameter were cut down only to the extent necessary. The cleared trees and brush were pushed to the side and left on-Site. Site clearing, soil rutting, and general disturbance was kept to the minimum extent necessary to allow access to the investigation locations.

3.3.3 Surface Soil Sampling

The objective of investigating surface soil was to evaluate the horizontal extent of constituents of concern (COCs) and fill in spatial data gaps identified from previous investigations as described within Section 1.1. The data was used in conjunction with the Qualitative Human Health Exposure Assessment (QHHEA) (see Section 7) and Fish and Wildlife Resource Impact Analysis (FWRIA) (see Section 8) to assess potential exposure. Sampling locations were selected in the field and adjusted as needed to avoid surface or subsurface structures or utilities.

Methodology and Procedures

A total of 34 surface soil samples (sample identification presented on **Table 2**) were collected using a dedicated disposable hand trowel from a depth of 0 to 2 in bgs. Samples were collected excluding vegetative cover, using methods in accordance with the FSAP included as Attachment A of the RI Work Plan. The 0 to 2 in bgs interval was evaluated for Human health exposures.

Soil samples that were collected from each location were classified using the Modified Wentworth Classification scale and Unified Soil Classification System (USCS) (*i.e.* color, consistency, moisture content, density, and grain size distribution). In addition, field observations including odors, staining, and discoloration were recorded. Soil Sample Logs were prepared for each sample detailing field observations, the types of materials encountered, and PID readings. Copies of the surface soil sample logs are presented as **Appendix E**. **Table 2** includes a summary of the surface soil samples collected for analysis including sample description and the presence of observed sheens, staining, and odors.

Collection and Analysis of Laboratory Samples

Laboratory samples were collected in appropriate laboratory-supplied sample containers. Samples were placed in a plastic cooler pre-chilled with ice and submitted under appropriate chain of custody protocols to ALS for analysis.

Copies of the laboratory chain of custody documentation are presented as **Appendix D**. A summary of the samples submitted to the laboratory as well as corresponding QA/QC samples and requested analysis for each sample is presented on **Table 1**.

A discussion of the results of the existing surface cover evaluation soil sampling is presented in Section 5.1.

3.3.4 Existing Surface Cover Sampling

The objective of investigating surface cover soil was to evaluate the horizontal extent of COCs and fill in spatial data gaps identified from previous investigations as described in Section 1.1. The data was used in conjunction with the QHHEA (see Section 7) and FWRIA (see Section 8) to assess potential exposure. Sampling locations were selected in the field and adjusted as needed to avoid surface or subsurface structures or utilities.

Methodology and Procedures

At the request of NYSDEC, a total of 20 existing surface cover samples (sample identification presented on **Table 2**) were collected using a hand-auger from a depth of 0 ft to 2 ft bgs. Samples were collected excluding vegetative cover, using methods outlined in the FSAP included as Attachment A of the RI Work Plan. The 0 ft to 2 ft bgs interval was evaluated for several purposes including the following:

- Human health exposure assessment
- Future Site cover evaluation in the RAA
- Off-Site contaminant migration evaluation
- Ecological resources evaluation
- Historic fill material (HFM) evaluation.

Soil samples that were collected from each location were classified using the Modified Wentworth Classification scale and USCS (*i.e.* color, consistency, moisture content, density, and grain size distribution). In addition, field observations including odors, staining, and discoloration were recorded. Soil Sample Logs were prepared for each sample detailing field observations, the types of materials encountered, and PID readings. Copies of the existing surface cover sample logs are presented as **Appendix E**. **Table 2** presents a summary of the existing surface cover evaluation soil samples collected for analysis including sample description and the presence of observed sheens, staining, and odors.

Collection and Analysis of Laboratory Samples

Laboratory samples were collected in appropriate laboratory-supplied sample containers. Samples were placed in a plastic cooler pre-chilled with ice and submitted under appropriate chain of custody protocols to ALS for analysis.

Copies of the laboratory chain of custody documentation are presented as **Appendix D**. A summary of the samples submitted to the laboratory as well as corresponding QA/QC samples and requested analysis for each sample is presented on **Table 1**.

A discussion of the results of the existing surface cover evaluation soil sampling is presented in Section 5.1.

3.3.5 Subsurface Soil Sampling (Borings and Test Pits)

The objective of investigating subsurface soil was to evaluate potential subsurface anomalies, the horizontal and vertical extent of COCs, fill in spatial data gaps identified from previous investigations, evaluate off-Site migration of contamination, verify select previous analytical results that were not validated, and to investigate and evaluate the location and extent of HFM (per Section 3.11 of DER-10).

Further objectives for the excavation of test pits included the following;

- Documentation of the depth and condition of former canal walls.
- Evaluation of potential contaminant migration across/under the vertical concrete walls observed on-Site (most likely possible concrete retaining walls associated with the former railroad).
- Identification of pipelines within the footprint of the former canal on the 1320 S. Plymouth Avenue parcel.

Methodology and Procedures

A total of 48 test pits (TP-100 through TP-110, TP-112 through TP-130, TP-132 through TP-138, TP-140 through TP-143, TP-145, TP-146, and TP-148 through TP-152) were advanced during the RI. Due to excavator limitations, sewer line location, and Site terrain, five test pit locations (TP-111, TP-131, TP-139, TP-144, and TP-147) were converted to soil boring sample locations due to limited accessibility.

Direct-push (*i.e.*, Geoprobe®) borings were completed at the Site using procedures outlined in the RI Work Plan. A total of 85 soil borings (SB-100 through SB-180) were advanced using a track-mounted Geoprobe® drill rig (which also included four locations that were previous test pit locations [SB-TP-131, SB-TP-139, SB-TP-144, and SB-TP-147], but were converted to soil borings as described in Section 3.4). Additionally, due to uneven Site terrain, test pit TP-111 was not accessible via Direct-push (*i.e.*, Geoprobe®) boring equipment, and was advanced utilizing a hand-auger.

Soil samples that were collected from each test pit or soil boring were classified using the Modified Wentworth Classification scale and Unified Soil Classification System (USCS) (*i.e.* color, consistency, moisture content, density, and grain size distribution). In addition, field observations including odors, staining, and discoloration were recorded. Soil Sample Logs were prepared for each sample detailing field observations, the types of materials encountered, and PID readings. Copies of the test pit sample logs are presented as **Appendix F** and copies of the soil boring logs are presented as **Appendix G**. **Table 2** presents a summary of the subsurface soil samples collected for analysis including sample description and the presence of observed sheens, staining, and odors.

Collection and Analysis of Laboratory Samples

Samples were collected in appropriate laboratory-supplied sample containers. Samples were placed in a plastic cooler pre-chilled with ice and submitted under appropriate chain of custody protocols to ALS for analysis.

Copies of the laboratory chain of custody documentation are presented as **Appendix D**. A summary of the samples submitted to the laboratory as well as corresponding QA/QC samples and requested analysis for each sample is presented on **Table 1**.

3.3.6 Groundwater Quality Investigation

The objective of investigating groundwater was to evaluate the horizontal and vertical extent of COCs in both overburden and bedrock groundwater and provide additional information to fill in spatial data gaps identified from previous investigations.

Methodology and Procedures

A total of 28 shallow overburden groundwater monitoring wells (OVR-105 through OVR-132) were installed and developed during RI investigation activities. Additionally, five nested bedrock groundwater monitoring well pairs were installed and developed. The groundwater monitoring well nests consisted of one groundwater monitoring well installed in the overburden (OVR-100 through OVR-104) and a second groundwater monitoring well installed within the bedrock (BED1-100 through BED1-104). The overburden groundwater monitoring well depths ranged from approximately 8 ft to 29 ft bgs. The bedrock groundwater monitoring well depths ranged from approximately 20 ft to 29 ft bgs (through overburden soil ranging from approximately 8 ft to 17 ft bgs).

Groundwater monitoring well construction is summarized in **Table 3**. Copies of the groundwater monitoring well boring logs, groundwater monitoring well construction logs, groundwater monitoring well development logs, and low-flow groundwater monitoring well sampling logs (for both the August 2016 and December 2016 sampling events) are presented as **Appendix H**, **Appendix I**, **Appendix J**, and **Appendix K**, respectively.

Upon completion of each groundwater monitoring well, the down-hole tooling was decontaminated using a steam cleaner and a potable water rinse. Sampling equipment that was reused during installation of each groundwater monitoring well (*e.g.,* split spoon samplers) was cleaned using a soapy water wash (*i.e.*, Alconox®), followed by a potable water rinse. Wash and rinse water were contained in two 550-gallon polyethylene tanks pending completion of sampling activities.

Collection and Analysis of Soil Samples

During installation of seven overburden groundwater monitoring wells (OVR-100, OVR-107, OVR-108, OVR-109, OVR-116, OVR-117, and OVR-118) one discrete soil sample was collected from each well location, based on visual and field observations, for laboratory analysis (at depths specified on **Table 1**). Samples were collected from the zone of highest PID readings or the zone with visual or olfactory evidence of contamination. QA/QC samples were collected as summarized on **Table 1**.

Laboratory samples were collected in appropriate laboratory-supplied sample containers. Samples were placed in a plastic cooler pre-chilled with ice and submitted under appropriate chain of custody protocols to ALS for analysis.

Copies of the laboratory chain of custody documentation are presented as **Appendix D**. A summary of the samples submitted to the laboratory as well as corresponding QA/QC samples and requested analysis for each sample is presented on **Table 1**.

Collection and Analysis of Groundwater Samples

The 28 overburden groundwater monitoring wells and five nested bedrock and overburden groundwater monitoring well pairs were sampled in accordance with the FSAP. The existing on-Site overburden groundwater monitoring well, MW-3 was also evaluated for use and sampled. Two rounds of groundwater sampling were completed to evaluate seasonal fluctuations, in August 2016 and December 2016.

Samples were collected in appropriate laboratory-supplied sample containers. Samples were placed in a plastic cooler pre-chilled with ice and submitted under appropriate chain of custody protocols to ALS for analysis.

Copies of the laboratory chain of custody documentation are presented as **Appendix D**. A summary of the samples that were submitted to the laboratory and requested analysis for each sample is presented on **Table 1**. Two groundwater sample analytical deviations during the first round of groundwater sampling at locations OVR-102 and OVR-113 were noted and are discussed further in Section 3.4.

3.3.7 Hydraulic Conductivity Testing

The purpose of the hydraulic conductivity testing at the Site was to gather information regarding the permeability of the water bearing zone(s).

Methodology and Procedures

Hydraulic conductivity "slug" testing was performed on 10 overburden groundwater monitoring wells, all five bedrock groundwater monitoring wells, and the existing on-Site overburden groundwater monitoring well (MW-3 installed by NYSDEC).

The tests were completed in two steps using the procedures outlined in the RI Work Plan. The first step was a falling head slug test when an inert rod of known volume was quickly introduced into the well to cause a water level rise. Following equilibration of the water level to static, a rising head slug test was initiated by removing the slug to instantaneously lower the water level. The type of test conducted at each location was determined based upon the following:

- If the screened interval of the well straddled the water table, only a rising head test was performed;
- If the screened interval of the well was fully submerged below the water, then both a rising and falling head test were conducted.

The data were interpreted using the Bouwer and Rice method (Bouwer and Rice, 1976). The Aquifer Win32, version 4.0, software package was used to support data analysis.

Copies of the Hydraulic Conductivity Logs the and data analysis sheets are presented as **Appendix L**. A summary of the results is provided on **Table 4**.

3.3.8 Soil Vapor and Proximal Media Sampling

Soil vapor samples were collected and analyzed to evaluate the potential for off-Site migration of soil vapor, specifically to the west and southwest near abutting residential properties at the perimeter of the Site. At the request of NYSDEC and NYSDOH and to further evaluate potential sources of constituents in soil vapor, samples of shallow soil and groundwater in the vicinity of the soil vapor samples were also collected concurrent with the soil vapor samples. The soil vapor sampling program was completed in August of 2017 following review of the soil and groundwater data from the main portion of the Site.

Methodology and Procedures

Eight soil gas samples were collected to evaluate for the potential of off-Site vapor migration. The SVI investigation was performed in accordance with NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006.

The sampling points consisted of a stainless-steel sample point attached to an appropriate length of ¼ in outside diameter Teflon tubing. Each soil vapor sampling point was installed to a depth of approximately 3 ft bgs. Each temporary sampling point was installed using a slide hammer to manually drive rods to install the screened implant (*i.e.,* AMS Soil Vapor Probe drive rod tooling or equivalent). As the drive rods were removed, the annular space around the sampling point was packed with a porous, inert backfill material of glass beads to a point approximately 6 in above the screened interval of the implant. The annular space around the sample tubing was sealed with approximately 0.5 ft of dry granular bentonite to prevent water infiltration/infilling across the sample inlet. The remainder of the boring's annular space was sealed above the sampling zone to ground surface with a bentonite slurry to prevent ambient air infiltration.

Following installation of the soil vapor sample points and prior soil vapor sample collection, the sampling tubing was purged of ambient air. A minimum of one and a maximum of three volumes of air was purged from each sample point prior to sample collection. In addition, tracer gas screening was utilized to evaluate the adequacy of the sampling technique, as described in Section 2.7.5 of the NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, dated October 2006.

The flow controllers were set to collect soil vapor samples for an approximate four-hour period, resulting in a sample rate of approximately 0.025 liters per minute.

Collection and Analysis of Laboratory Samples

Laboratory samples were collected in appropriate batch certified-clean 6-liter stainless steel SUMMA® vacuum canisters equipped with laboratory-calibrated fixed rate flow controllers. Each SUMMA® canister was labeled with the sample identification, the start and end time of sample collection, date, project identification, and required laboratory analysis. Samples were placed in appropriate containers and submitted under appropriate chain of custody protocols to ALS for VOCs by USEPA TO-15 analysis.

QA/QC samples were collected as summarized on **Table 1**. Copies of Soil Vapor Sampling logs are presented as **Appendix M**.

Groundwater grab sample points (*i.e.*, temporary piezometers) were also installed at eight locations along the western perimeter of the Site (GW-101 through GW-108) via direct-push (*i.e.*, Geoprobe®) boring. The sample points were constructed of 1 in inside diameter (ID) PVC with a 5 ft to 7 ft well screen placed to intersect the groundwater table. Groundwater at these locations was generally encountered between 4.5 ft and 11.5 ft bgs. Groundwater grab sample point construction logs are included as **Appendix G**. As stated in Section 3.4, a sample from GW-100 was not collected due to equipment (hand auger) refusal prior to encountering the water table. At locations accessible via Geoprobe®, equipment refusal ranged between 7.5 ft and 17.5 ft bgs. Prior to sampling, one monitoring well volume was removed from each location prior to sample collection using a dedicated polyethylene thimble bailer for each location.

Copies of the groundwater grab sampling logs and groundwater grab sample point decommissioning logs are presented as **Appendix N** and **Appendix O**, respectively. Subsurface soil samples were collected at select groundwater grab sample locations as well. Boring logs for these locations (GW-101 through GW-108, SB-112, SB-102, and SB-172 through SB-174) are also included in **Appendix N.**

Laboratory samples were collected in appropriate laboratory-supplied sample containers. Samples were placed in a plastic cooler pre-chilled with ice and submitted under appropriate chain of custody protocols to ALS analysis.

3.3.9 Survey

Following collection of the test pit, surface soil/existing surface cover, and subsurface soil samples each of the points was surveyed for horizontal control by the City survey crew and/or OBG. Also, each of the newly-installed groundwater monitoring well locations were surveyed for horizontal control by the City survey crew using the NYS Plane Coordinate System, Western Zone, NAD83 and vertical control using the North American Vertical Datum 1988 (NAVD88). Overburden and Bedrock groundwater monitoring well elevations were surveyed by the City survey crew to the nearest 0.01 ft at the top of the well's polyvinyl chloride (PVC) riser pipe (at the designated measuring point), and ground surface at each location. Temporary piezometers were surveyed for horizontal control by OBG but were not surveyed for vertical control.

The horizontal locations were recorded utilizing a Trimble Geo-XH® GPS (or equivalent) unit for horizontal control.

3.3.10 Field Equipment and Personnel Decontamination

The personnel, vehicular, and equipment decontamination area was located on City-owned land immediately north of Flint Street (a continuation of the 1320 S. Plymouth Avenue tax parcel). For ease of decontamination on the southern portion of the Site, a temporary decontamination pad was constructed on the 13 Cottage Street parcel as approved by NYSDEC.

Equipment and Vehicles

The following procedures were used to decontaminate equipment used during the RI activities:

- Drilling equipment such as augers, bits, rods, tools, split-spoon samplers, and backhoe/bucket were cleaned with a high-pressure, hot water pressure washing unit before beginning work, after completion of borings and groundwater monitoring wells, and prior to exiting the Site
- Tools, drill rods, and augers were placed on polyethylene plastic sheets following pressure washing
- Augers, rods, and tools were decontaminated between each drilling location according to the above procedures
- The back of the drill rig and tools, augers, and rods were decontaminated at the completion of the work and prior to leaving the Site
- In addition, visible soils on excavator chassis or other locations of the machinery were also decontaminated. During cold weather months, the use of water was not feasible, an air compressor was utilized to remove visible soils.

Sampling Equipment Decontamination

Prior to sampling, non-dedicated sampling equipment (*e.g.*, bowls, spoons, interface probes) were washed with potable water and soapy water (*e.g.*, Alconox). The sampling equipment was rinsed with potable water.

Personnel

All personnel leaving the Site performed footwear decontamination prior to leaving the Site; consisting of a boot wash using a soapy water (*e.g.*, Alconox) brushing of footwear, followed by a potable water rinse, and the removal of disposable overboots. The wash and rinse water and/or disposable overboots were containerized and managed as IDW.

3.3.11 Investigation-Derived Waste

The RI activities produced IDW, requiring appropriate management in accordance with state and federal regulations (Title 40 of the Code of Federal Regulations (CFR) Parts 239 through 279 and Title 6 of New York Codes, Rules and Regulations (6 NYCRR) Chapter IV, Subchapter B Parts 360 through 376). IDW produced included the following:

- Soil cuttings from soil boring and installation of groundwater monitoring wells
- Groundwater resulting from the development and sampling of monitoring wells
- Decontamination fluids resulting from decontamination of equipment and sampling tools, personnel boot wash
- Debris including polyethylene sheeting and disposable equipment resulting from the execution of field activities
- Dedicated sampling equipment, personnel protective equipment (PPE), and general refuse resulting from the execution of field activities.

The IDW soil cuttings were placed in a lined roll-off dumpster pending completion of sampling activities. General refuse and debris was disposed of by the City trash collection. Decontamination fluids and groundwater were containerized and analyzed prior to approval for discharge into the Monroe County Pure Waters (MCPW) discharge permit. The MCPW discharge permit is presented as **Appendix P** and the Disposal records for IDW generated during the RI are included as **Appendix Q**.

3.4 RI WORK PLAN DEVIATIONS

The following presents a summary of deviations from the RI Work Plan. Copies of the deviations requests and subsequent responses from the NYSDEC are presented as **Appendix R**.

- A *Proposed Deviations to Soil Boring/Monitoring Well Field Program* letter was submitted to the NYSDEC on February 11, 2016. This letter provided a list of proposed deviations to the RI Work Plan based on a review of

samples collected, and environmental conditions encountered, prior to the date of this letter at the Site. The letter requested the NSYDEC consider the removal, off-setting, and/or addition of several soil borings, groundwater monitoring wells, and test pits. The letter also requested to reduce the community air monitoring program from three stations (upwind, downwind, and work zone) to two stations (upwind and downwind).

  - A *Response to February 17, 2016 Conference Call Regarding Proposed Deviations to Soil Boring/Monitoring Well Field Program* letter was submitted to the NYSDEC on February 24, 2016. This letter provided a discussion on the conversation the City, OBG, and NYSDEC had regarding the February 11, 2016 letter described above. The proposed RI Work Plan deviations were listed, and the NYSDEC's response (whether approved, disapproved, or the City/OBG withdrew a proposed deviation) was provided to summarize the understanding as to whether the NYSDEC accepted or did not accept each proposed deviation. The acceptance or denial of each deviation was discussed during a February 17, 2016 conference call between the City, NYSDEC, and OBG.

- An email prepared by OBG was submitted to NYSDEC dated February 26, 2016. This email provided a proposed deviation of using hollow stem auger drilling techniques to also use direct-push technology. The NYSDEC approved this deviation via telephone on February 26, 2016.
- An email prepared by OBG was submitted to NYSDEC dated March 11, 2016. This email provided a list of requested modifications to the RI Work Plan and the current status of NYSDEC response. This email was provided to NYSDEC as a means to discuss the current understanding of each requested deviation. A response was not received from the NYSDEC regarding this request.
- A *Remedial Investigation Work Plan Modifications* letter was submitted to the City by NYSDEC dated March 14, 2016. This letter provided a summary of requested deviations to the RI Work Plan and the NYSDEC's official response to each proposed modification, including responses for each of the four bullets listed above.
- A *Proposed Deviations to October 2015 RI Work Plan* letter was submitted to the NYSDEC dated April 28, 2017. This letter presented a summary of work completed to date, and a summary of work remaining at the Site. This letter provided a list of proposed deviations to the scope of the RI Work Plan based on OBG's review of analytical results received from the work completed to date. A response was not received from the NYSDEC regarding this request.
- An email prepared by OBG was submitted to NYSDEC dated July 14, 2017. This email provided a list of requested deviations to the RI Work Plan based on a Site visit to check on vegetation conditions and topography of the Site. A response was not received from the NYSDEC regarding this request.
- As described in Section 3.1.3 above, a *Remedial Investigation – Geophysical Survey Results letter* was submitted to the City on August 4, 2017. This letter presented a deviation to the geophysical survey that was implemented due to the existing terrain at the Site. This deviation was approved by NYSDEC field staff during implementation of the field work in January 2016.
- A *Proposed Deviations to October 2015 RI Work Plan, April 28, 2017* letter, dated August 7, 2017 provided a response from the NYSDEC for the various unanswered OBG deviation requests described above. The NYSDEC provided a response indicating acceptance of the use of a hand auger to collect a sample at one test pit, and the off-setting of two other soil vapor locations due to topography/safety concerns. The remainder of proposed deviations were rejected, and the NYSDEC requested the City "take reasonable and appropriate measures" to safely collect remaining samples, including the ability to off-set or adjust proposed sample locations as necessary during implementation in the field.
- Due to equipment refusal prior to target depth (with several attempts undertaken), temporary piezometer GW-100 was not installed, and therefore, a groundwater sample was not collected at this location.
- Due to container breakage and miss-communication with the laboratory the following analyses were not performed as proposed:

- Test pit soil sample DUP-010-012816 for SVOCs,
- Groundwater sample OVR-102-081516 for PCBs (Round 1),
- Groundwater sample OVR-113-081916 for PCBs and SVOCs (Round 1), and
- Surface soil sample SS-121 for SVOCs.

4. PHYSICAL CHARACTERISTICS OF THE SITE

The following section includes a description of the physical characteristics of the Site based on field observations and data generated during implementation of the RI.

4.1 SITE TOPOGRAPHY AND DRAINAGE

The Site is generally located at approximately 515 ft to 520 ft above mean sea level (amsl). To the west of the Site the ground surface slopes upwards to elevations exceeding 550 ft amsl. This slope is closer to the Site boundary on the southern end of the Site. More detailed review of the site topography indicates that the main (central) portion of the Site is generally flat with a slight northward dip with elevations ranging from 519 ft amsl on the south end to 516 ft amsl on the north. Within the former canal that runs along the western border of the Site, the ground surface is 2 ft to 4 ft lower than the surrounding area. Elevations on the eastern side of the Site slope northward with elevations ranging from approximately 520 ft amsl on the south end of the Site to approximately 518 ft amsl on the north end of the Site. A levee or berm that parallels the Genesee River is located on the east side of the 13 Cottage Street parcel and adjoining 5 Flint Street parcel. The elevation of the top of this berm is approximately 525 ft amsl with a slightly higher elevation of approximately 530 ft amsl to the south. This berm was constructed for railroad access through the Site. Because the ground surface slopes upwards on the west and east sides of the Site, runoff from these areas would flow toward rather than away from the former production area on the main (central) portion of the Site. Under this scenario the Site would receive runoff from the adjoining 15 Flint Street parcel as well as nearby residential properties located along the western Site boundary and the levee or berm on the eastern side.

4.1.1 Wetlands/Drainage Ditches

Several federal wetlands and drainage ditches (present toward the northern end of 1320 S. Plymouth Avenue (in between the adjoining 5 Flint Street and 15 Flint Street parcels; and on the eastern side of the existing bike path (tow of slope) are located on the Site. These wetlands were identified within the *Final Wetland Assessment and Delineation, Ecological Screening & Invasive Species Report*, prepared by Shumaker Consulting Engineering & Land Surveying, D.P.C., dated June 2017 (Shumaker Report) (presented as **Exhibit D**). This document was prepared on behalf of the City and Bergmann Associates and identified four wetlands (totaling approximately 0.757-acres) and a non-Relatively Permanent Water (non-RPW) (*i.e.*, ephemeral channel) (378 linear ft) on the Site. The on-Site wetlands and channel are identified as follows:

Name	Description (paraphrased from Exhibit D)	Size
Wetland C	*Depression area, identified as the former Genesee River Canal bed, isolated*	0.364-acres
Wetland D	*Depression wetland, isolated.*	0.274-acres
Wetland E	*Depression area, adjacent to Genesee River Trail, likely excavated during construction of former railroad, connected to Wetland F*	0.078-acres
Wetland F	*Depression area, adjacent to Genesee River Trail, likely excavated during construction of former railroad, connected to Wetland E*	0.041-acres
Unnamed Non-RPW Trib 1	*Tributary begins as culvert outflow, connected to Wetland E, and serves as a connection between Wetland E and the Genesee River*	378 linear ft

An April 28, 2017 *Acceptance of Wetland Delineation* letter and Jurisdictional Determination (presented as **Exhibit D**) was prepared by the United States Army Corps of Engineers for the City in response to a wetland delineation submitted. These documents indicated the wetlands identified in the Shumaker Report (and presented on **Figure 4**) are regulated.

4.1.2 Site Runoff

The Site is generally located adjacent to a steep topographic gradient to the west, with surface water runoff generally draining to the on-Site wetlands and drainage ditches. These low-lying areas are generally isolated; however, portions are connected to each other and to the Genesee River via an unnamed Tributary. Portions of the Site are also situated within the Genesee River 100-year Floodplain.

The Genesee River is located near and parallels the eastern side of the Site. This river flows northward and discharges to Lake Ontario.

4.2 METEOROLOGY

The average temperature of the area typically ranges from a low of 18 degrees Fahrenheit during the month of January to a high of 81 degrees Fahrenheit during the month of July. Precipitation for the area ranges from 2.03 in in February to 3.47 in in August, with an annual average of 34 in. Precipitation in the first 5 months of 2016 was 28% lower than average. The total precipitation reported from January through July was 13.72 in, as compared to an average of 19.16 in. The latter part of 2016 was slightly wetter than normal, with a total precipitation from August through December 2016 of 16.98 in as compared to the average of 15.16 in. (www.usclimatedata.com).

4.3 SITE GEOLOGY AND HYDROGEOLOGY

4.3.1 Overburden and Surficial Geology

Both native and fill materials are present at the Site. Fill was encountered in many locations, and was predominantly fine sand and silt (presumably native materials) mixed with various amounts of cinders, brick, concrete, glass, and wood. In several locations, a black granular material was encountered (including test pits, soil borings, existing surface cover locations, etc.). This material was referred to in notes and logs by several names throughout the RI implementation, including brown-black granular material, “bone black” (typically a cattle bone charcoal used for filtering in historic oil refining processes), and “activated carbon.” The thickness of this material generally ranged from 1.5 ft to 8 ft and did not contain any noticeable odors or sheens. Several soil samples comprised of this material were analyzed, as discussed in Section 5.3,

Native soils underlying the fill consist of fine sand and silt which are alluvial in origin. In the borings and wells along the eastern side of the site near the river, a layer of fine to medium or fine to coarse sand and fine to medium or coarse, rounded gravel was noted on top of bedrock. These deposits were not noted in the other locations and are likely river deposits which were deposited under faster flow conditions than the shallower materials. Geologic cross-sections are depicted on **Figure 5**.

4.3.2 Bedrock Geology

Stratigraphically the bedrock units in the Site area as described in Zenger (1965) and later revised in Brett *et al*. (1995) include the middle Silurian Lockport Group and underlying Clinton Group. The Lockport Group is subdivided into the Eramosa Dolomite (Formation) and Penfield Formation (Brett et al. 1995). The upper portion of the Eramosa Dolomite was previously described by Zenger (1965) as the Oak Orchard formation. The Oak Orchard formation name has since been replaced by the Eramosa Dolomite. The Eramosa Dolomite was encountered beneath the Site. This rock is generally described as massive, pale brownish-weathering, vuggy, commonly biostromal dolomite with intervals of sparsely fossiliferous, medium-bedded, flaggy-weathering, brownish-gray, bituminous dolomite, and stromatolite bioherms.

Bedrock was generally encountered at approximately 10 ft to 19 ft bgs and cored approximately 10 ft at each location to facilitate installation of the bedrock monitoring wells. Bedrock rock quality designations (RQD) calculated from the five bedrock monitoring well locations ranged in value from 47% to 100%. In general, the upper 5 ft of rock had the lower RQD value. Bedrock quality encountered ranged from massive/slightly fractured to highly fractured; observed fractures were also lightly weathered to moderately weathered. Travertine and calcite inclusions were observed in several of the rock cores. Slight petroleum odors were noted

in the bedrock cores at two locations, BED1-101 approximately 16 ft to 20 ft bgs and BED1-104 approximately 24 ft to 29 ft bgs.

A contour map of the bedrock surface constructed from the depth to bedrock data (**Figure 6**) shows that the bedrock surface ranges from approximately 488 ft amsl to 506 ft amsl and generally slopes to the east with the lowest bedrock identified during the RI at OVR-121 located on the southeast corner of the Site.

4.3.3 Site Hydrogeology

Thirty-three overburden groundwater monitoring wells (OVR-100 through OVR-132) and five bedrock groundwater wells (BED1-100 through BED1-104) were installed at the Site to evaluate overburden and bedrock hydrology.

Groundwater measurements were collected from the on-Site groundwater monitoring wells on two occasions during the remedial investigations. The events occurred at the start of each of the two groundwater sampling events and were collected in a single day. The first measurements were recorded on August 15, 2016 and the second event was conducted on December 5, 2016. The measurements, summarized on **Table 3**, indicate that the water table at the Site occurs within the overburden materials at depths ranging from 3 ft to 4 ft below grade on the west side of the Site within the former canal to 10 ft to 12 ft in wells on the eastern boundary adjacent to the river.

Groundwater elevations within the overburden at the Site generally range from approximately 512 ft amsl on the southern end of the Site to between 502 ft amsl and 507 ft amsl on the northern side of the Site. Based on the Genesee River gauging station at the Ford Street bridge located approximately 2,200 ft north of the Site, the river level was at approximately 512.6 ft amsl at the time the water levels were measured.

Isopleth contours of the groundwater elevations in the overburden are provided on **Figures 7** and **8**. As illustrated, groundwater on the southern side of the Site flows northward at a gradient of 513 ft amsl to 505 ft amsl. The flow direction and elevations suggest that the groundwater is being fed by the river water on the south end of the site and is flowing northward. On the northern side of the Site the gradient is relatively flat and more than 5 ft lower than the river level. The groundwater elevations in overburden wells at or near the river are also more than 5 ft lower than the river level. This large difference suggests that there is limited hydraulic connection between the river and the overburden groundwater in this area of the site. Review of construction information in preparation for upgrading of the river wall in this area indicates that the existing river wall structure extends to the bedrock surface at least along the reach adjacent to the northern end of the Site (**Exhibit E**). This structure is suspected to limit the hydraulic connection between the groundwater at the Site and the river. Additionally, in August 2016 the groundwater elevations on the northern end of the site suggest a component of flow to the west and north within the former canal area. This condition is possibly influenced by the presence of the backfilled former canal as well as the sewer and water line that are currently present in this area.

The potentiometric surface of groundwater in the shallow bedrock for each of the water level monitoring events are presented on **Figures 9** and **10**. As illustrated the flow conditions during both events were similar and show a slight potential for flow to the northeast with elevations ranging from around 510 ft amsl in the center of the Site to between 508.5 ft and 509 ft amsl over most of the northern end of the Site.

Hydraulic conductivity tests were conducted on 11 of the overburden wells and 5 of the bedrock wells as discussed in Section 3.3.6 The test results, summarized on **Table 4** show that hydraulic conductivities of the overburden range from a low of 3.77×10^{-5} centimeters per second (cm/sec) to a high of 9.73×10^{-2} cm/sec. These values are typical of fine sand to silt which is consistent with the soil descriptions of the material encountered. The shallow bedrock hydraulic conductivity ranges from a low of 3.75×10^{-4} cm/sec to a high of 8.97×10^{-2} cm/sec.

5. NATURE AND EXTENT OF CONTAMINATION

This section presents the results of the data collected during the RI. The discussion is organized by medium that was analyzed (*i.e.,* surface soil, existing surface cover, soil vapor, subsurface soil, overburden and bedrock groundwater), and is subsequently broken down by the laboratory analysis (*i.e.*, VOCs, SVOCs, metals, pesticides, and PCBs).

5.1 SURFACE SOIL SAMPLE RESULTS

Surface soil sample results were compared to SCOs provided in 6 NYCRR Part 375 *Environmental Remediation Programs* (Part 375) (NYSDEC, 2006). Where applicable, Supplemental SCOs (NYSDEC Policy *CP-51/Soil Cleanup Guidance* [CP-51] dated October 2010) (NYSDEC, 2010) were also used. For comparison, SCOs are provided with the data summary tables.

Consistent with the current zoning as residential and future use scenarios as described in Section 2.7, the values used for screening analytical results include:

- Part 375 Unrestricted Use SCOs (Unrestricted Use SCOs)
- Part 375 Restricted Use Residential and CP-51 Residential Supplemental SCOs (Residential Use SCOs)
- Part 375 Restricted Use Restricted-Residential SCOs (Restricted Residential Use SCOs)
- Part 375 Restricted Use SCOs for Protection of Ecological Resources (Ecological SCOs).

EPA SW-846 Method 6010C provides total chromium concentrations without differentiation between the trivalent and hexavalent species. Using a conservative approach, the more stringent SCO for hexavalent chromium was used for comparison to total chromium values.

Surface soil samples were collected from 34 locations across the Site. Surface soil samples were collected from 0 in to 2 in. for one or more of the following analyses: VOCs, SVOCs, pesticides, PCBs, metals, and cyanide. Analytical results compared to the SCOs identified above are presented on **Tables 5A-5E,** and **6A-6E**. A figure illustrating analytical groups with one or more analyte exceeding a specific criterion, including the Restricted Use Commercial SCOs (Commercial Use SCOs) (Commercial Use SCOs to aid in future use planning) is presented as **Figure 11A**.

5.1.1 VOCs

Twelve VOCs were detected (including laboratory estimated values) in one or more surface soil samples. All but one VOC was detected below SCOs; Acetone was detected above Unrestricted Use SCOs at three locations (SS-100, SS-111, and SS-140). SS-100 and SS-101 are located on the 1 Cottage Street parcel and SS-140 is located proximal to the pedestrian path. Concentrations in these samples ranged from 53 µg/kg to 130 µg/kg.

In addition to the detected VOCs, a PID reading of 0.5 ppm was noted at one of the 34 surface soil locations (*i.e.,* SS-134).

5.1.2 SVOCs

Twenty-five (25) SVOCs were detected (including laboratory estimated values) in surface soil samples across the Site. Surface soil samples from 11 of 34 locations contained SVOCs at concentrations exceeding Unrestricted Use and/or Residential Use and/or Restricted Residential Use SCOs of two or more of the following polycyclic aromatic hydrocarbons (PAHs):

▪ Benzo[a]anthracene ▪ Benzo[a]pyrene ▪ Benzo[b]fluoranthene	▪ Chrysene ▪ Benzo[k]fluoranthene ▪ Dibenzo[a,h]anthracene	▪ Indeno[1,2,3-cd]pyrene ▪ 2-Methylnaphthalene

To further evaluate the nature of SVOCs in the surface soil the concentrations of quantified SVOCs were totaled and added together with the total SVOC tentatively identified compounds (TICs) presented on **Table 5B**. A figure illustrating total SVOC concentrations in surface soil and surface cover soil samples collected up to 2 ft below grade is presented as **Figure 12**. The sample from location (SS-112) on the 13 Cottage Street parcel contained total SVOC values greater than 100 ppm at 126 ppm. This sample contained evidence of fill material.

5.1.3 Inorganics (Metals and Cyanide)

Metals were detected at numerous sample locations across the Site. Twenty-six locations had detectable results (including laboratory estimated values) exceeding Unrestricted Use SCOs for one or more of nine metals (arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, and zinc). Twelve locations had detected metals (including laboratory estimated values) exceeding Restricted Residential Use SCOs, with the exception of chromium. EPA SW-846 Method 6010C provides total chromium concentrations without differentiation between the trivalent and hexavalent species. Using a conservative approach, the more stringent SCO for hexavalent chromium was used for comparison to total chromium values on the data summary table. Although chromium was found to be present in each of the surface soil samples above the hexavalent chromium SCO of 1 mg/kg, only two samples exceeded the trivalent chromium value of 30 mg/kg. Cyanide was not detected over SCOs.

5.1.4 Pesticides/Herbicides

Pesticides were detected at eight surface soil sample locations across the Site (including laboratory estimated values and tentatively identified estimated values). Concentrations at seven locations exceeded both Unrestricted Use SCOs and Protection of Ecological SCOs for 4-4-DDE and/or 4-4-DDT. None of the concentrations exceeded the Residential Use or Restricted Residential Use SCOs.

5.1.5 PCBs

PCBs were detected at seven surface soil sample locations across the Site (including laboratory estimated values) at concentrations up to 4.7 mg/kg. Two locations (SS-126 and SS-128) exceeded Ecological SCOs, Residential Use, Restricted Residential Use, and/or Unrestricted Use SCOs. Locations SS-127 and SS-129 only exceeded the Unrestricted Use SCO of 0.1 mg/kg. The sample locations exceeding PCB SCOs are limited to the northern portion of the former canal adjacent to the 15 Flint Street property boundary.

5.1.6 Field Observations/Physical Characteristics

During completion of the surface soil sampling activities, soil at several sampling locations across the Site exhibited evidence of surface disposal of waste materials including observations of fragmented bricks, cinders, coal ash, and slag. Random dumping materials were also observed during the RI and the previous Phase I Environmental Site Assessment including approximately half a dozen crushed 55-gallon steel drums, various sized piles of used automobile tires, concrete rubble, cinder blocks, miscellaneous trash, railroad timbers, bricks, fill (including black granular material), and random dumping such as observed metal shavings and a parts cleaner as described above in Section 2.1.3. Sheens, staining, and/or petroleum-type odors were not encountered during surface soil sampling. **Table 2** presents a summary of the subsurface soil samples collected for analysis including sample description.

5.1.7 Surface Soil Impacts Summary

Summary statistics relating to constituents with concentrations exceeding Unrestricted Use, Residential Use, and/or Restricted Residential Use SCOs in one or more samples are presented on **Table 7A**.

VOCs were not identified above the Residential Use or Restricted-Residential Use SCOs in surface soils.

Target SVOCs exceeded one or more of Unrestricted Use SCOs, Residential Use SCOs, Restricted Residential Use SCOs, and/or Ecological SCOs at 11 locations across the Site. The majority of the locations exceeding Unrestricted Use, Restricted Use and/or Restricted Residential Use SCOs for SVOCs were located in the center of

the Site on 13 Cottage Street parcel and the former canal area of the 1320 S. Plymouth Avenue parcel. One location (SS-112) on the 13 Cottage Street parcel contained total SVOCs (including TICs) greater than 100 ppm. There was evidence of on-Site dumping in the vicinity of this sample location, including visual traces of brick and concrete fragments in the sample.

Metal concentrations exceeded Unrestricted Use SCOs, Residential Use SCOs, or Restricted Residential Use SCOs at 26 locations out of the 34 sample locations spread across the Site; however, cyanide was not detected above SCOs. The exceedances were most prevalent on the northern end of the 1320 S. Plymouth Avenue, 13 Cottage Street and 102 Violetta Street parcels. There were no exceedances on the 100 Riverview Place parcel. Twelve locations exceeded Residential Use and/or Restricted Residential Use SCOs for one or more metals. Twenty-six locations exceeded Unrestricted Use SCOs for one or more metals. Metals exceedances are presented on **Figure 11A**.

Pesticides were present in samples from seven locations at concentrations above the Unrestricted Use SCOs. The majority of exceedances occurring in the northern portion of the Site. None of the concentrations exceeded the Residential Use or Restricted Residential Use SCOs.

PCBs at two locations exceeded Residential Use, Restricted Residential Use, and/or Unrestricted Use SCOs. These two samples were located in close proximity to each other within the former canal. PCBs at four locations also exceeded Unrestricted Use SCOs. Sample locations exceeding PCB SCOs are limited to the former canal located on the northern portion of 1320 S. Plymouth Avenue, between the adjoining 5 Flint Street and 15 Flint Street parcels.

Samples from the 0 in to 2 in interval were not collected for analysis as part of the adjoining 5 Flint Street and 15 Flint Street RI (Ravi, October 2016) for comparison to the Site data.

5.2 EXISTING SURFACE COVER SAMPLE RESULTS

Existing surface cover soil sample results were compared to SCOs provided in 6 NYCRR Part 375 *Environmental Remediation Programs* (Part 375) (NYSDEC, 2006). Where applicable, Supplemental SCOs (NYSDEC Policy *CP-51/Soil Cleanup Guidance* [CP-51] dated October 2010) (NYSDEC, 2010) were also used. For comparison, SCOs are provided with the data summary tables.

Consistent with the current zoning as residential and future use scenarios as described in Section 2.7, the values used for screening analytical results include:

- Part 375 Unrestricted Use SCOs (Unrestricted Use SCOs)
- Part 375 Restricted Use Residential and CP-51 Residential Supplemental SCOs (Residential Use SCOs)
- Part 375 Restricted Use Restricted-Residential SCOs (Restricted Residential Use SCOs)
- Part 375 Restricted Use SCOs for Protection of Ecological Resources (Ecological SCOs).

EPA SW-846 Method 6010C provides total chromium concentrations without differentiation between the trivalent and hexavalent species. Using a conservative approach, the more stringent SCO for hexavalent chromium was used for comparison to total chromium values.

Existing surface cover soil samples were collected from 54 locations across the Site. Twenty surface cover samples were collected from the 0 in. to 2 ft bgs. depth, and 34 surface soil samples were collected from 0 in to 2 in., for one or more of the following analyses: VOCs, SVOCs, pesticides, PCBs, metals, and cyanide. Analytical results compared to the SCOs identified above are presented on **Tables 5A1, 5B1, 5C1, 5D1, 5E1, 6A1, 6B1, 6C1, 6D1,** and **6E1**. A figure illustrating analytical groups with one or more analyte exceeding a specific criterion, including the Restricted Use Commercial SCOs (Commercial Use SCOs) (Commercial Use SCOs to aid in future use planning) is presented as **Figure 11B**. Exceedances of SCOs were noted in samples along the

southern border of the Site parcels suggesting that similar exceedances may be present off-Site depending on topography.

5.2.1 VOCs

Twelve VOCs were detected (including laboratory estimated values) in one or more existing surface cover soil samples. All but one VOC was detected below SCOs; Acetone was detected above Unrestricted Use SCOs in samples collected from three locations (SS-100, SS-111, and SS-140) in the 0 to 2-inch sample interval. SS-100 and SS-101 are located on the 1 Cottage Street parcel and SS-140 is located proximal to the pedestrian path. None of the concentrations observed in the deeper sampling intervals exceeded SCOs.

PID readings of between 0.2 ppm and 0.6 ppm were noted at 10 of the 20 (0 in. to 2 ft bgs) sample locations. The majority of the PID readings correlated to samples where evidence of fill was observed.

5.2.2 SVOCs

Twenty-six SVOCs were detected (including laboratory estimated values) in existing surface cover soil samples across the Site. Samples from 20 of 47 surface cover locations contained two or more of the following polycyclic aromatic hydrocarbons (PAHs) SVOCs at concentrations exceeding Unrestricted Use and/or Residential Use and/or Restricted Residential Use SCOs:

▪ Anthracene	▪ Chrysene	▪ Naphthalene
▪ Benzo[a]anthracene	▪ Dibenzo[a,h]anthracene	▪ Phenanthrene
▪ Benzo[a]pyrene	▪ Dibenzofuran	▪ Phenol
▪ Benzo[b]fluoranthene	▪ Fluoranthene	▪ Pyrene
▪ Benzo[g,h,i]perylene	▪ Fluorene	
▪ Benzo[k]fluoranthene	▪ Indeno[1,2,3-cd]pyrene	

Sample SS-141 contained the highest concentrations of each PAH detected above criteria. This sample was collected from the 1 ft to 2 ft interval and is located near the southeast corner of the 5 Flint Street Parcel where surface debris that included a parts cleaner and metal shavings were observed. The description of this sample included the presence of brownish-black granular material. No detectable PID readings were noted in this sample.

Acenaphthene was also detected above Unrestricted Use SCOs at SS-141.

To further evaluate the nature of SVOCs in the existing surface cover soil the concentrations of quantified SVOCs were totaled and added together with the total SVOC tentatively identified compounds (TICs) presented on **Table 5B1**. A figure illustrating total SVOC concentrations in existing surface cover soils is presented as **Figure 12**. Samples from three locations on the 13 Cottage Street parcel contained total SVOC values greater than 100 ppm:

- SS-142; 304 ppm
- SS-141; 3,819 ppm
- SS-147; 880 ppm.

These samples were collected from the deeper intervals between 0.5 and 2 ft below grade.

5.2.3 Inorganics (Metals and Cyanide)

Metals were detected at numerous sample locations across the Site. All locations had detectable results (including laboratory estimated values) exceeding Unrestricted Use SCOs for one or more of nine metals (arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, and zinc). Each location had detected metals (including laboratory estimated values) exceeding Restricted Residential Use SCOs, with the exception of

chromium. EPA SW-846 Method 6010C provides total chromium concentrations without differentiation between the trivalent and hexavalent species. Using a conservative approach, the more stringent SCO for hexavalent chromium was used for comparison to total chromium values on the data summary table. Although chromium was found to be present in all of the surface soil samples above the hexavalent chromium SCO of 1 mg/kg, only one sample (SS-141) exceeded the trivalent chromium value of 30 mg/kg. Cyanide was not detected over SCOs.

5.2.4 Pesticides/Herbicides

Pesticides were detected at thirteen existing surface cover soil sample locations across the Site (including laboratory estimated values and tentatively identified estimated values). Ten locations exceeded both Unrestricted Use SCOs and Protection of Ecological SCOs for one or more of the following: 4-4-DDE, 4-4-DDT, and/or Dieldrin. None of the concentrations exceeded the Residential Use or Restricted Residential Use SCOs.

5.2.5 PCBs

PCBs were detected at ten existing surface cover sample locations across the Site (including laboratory estimated values) at concentrations up to 4.7 mg/kg (SS-126). The Unrestricted SCO of 0.1 mg/kg was exceeded at five locations and the Residential and Restricted Residential SCO of 1 mg/kg was exceeded at two locations (SS-126 and SS 128). All of these samples were collected in the same general area, the northern portion of the former canal adjoining the 15 Flint Street property boundary. Four of these samples were collected from the top 2 inches and one was collected from the 1 ft to 2 ft interval.

5.2.6 Field Observations/Physical Characteristics

During completion of the existing surface cover sampling activities, soil at several sampling locations across the Site exhibited evidence of surface disposal of waste materials including observations of fragmented bricks, cinders, coal ash, and slag. **Table 2** presents a summary of the subsurface soil samples collected for analysis including sample description. Materials that were randomly dumped on the properties were also observed during the RI and the previous Phase I Environmental Site Assessment. These materials included approximately half a dozen crushed 55-gallon steel drums that appeared empty, various-sized piles of used automobile tires, concrete rubble, cinder blocks, miscellaneous trash, railroad timbers, bricks, fill (including black granular material), and random dumping such as observed metal shavings and a parts cleaner as described above in Section 2.1.3. Sheens, staining, and/or petroleum-type odors were not encountered during surface soil sampling. The general locations of these observations are presented on **Figure 4.**

5.2.7 Existing Surface Cover Impacts Summary

Summary statistics relating to constituents with concentrations exceeding Unrestricted Use, Residential Use, and/or Restricted Residential Use SCOs in one or more surface cover samples are presented on **Table 7B**,

Acetone was the only VOC detected above SCOs. in samples collected from three locations (SS-100, SS-111, and SS-140) in the 0 to 2-inch sample interval exceeded Unrestricted Use SCOs but not Residential or Restricted Residential SCOs.

Target SVOCs exceeded one or more of Unrestricted Use SCOs, Residential Use SCOs, Restricted Residential Use SCOs, and/or Ecological SCOs at 27 locations across the Site. The majority of the 20 locations exceeding Unrestricted Use, Restricted Use and/or Restricted Residential Use SCOs for SVOCs were located across the Site on 13 Cottage Street, the former canal area of the 1320 S. Plymouth Avenue parcel and 102 Violetta Street near the bike path. There were no exceedances on the 100 Riverview Place parcel. Four locations (SS-112, SS-142, SS-141, and SS-147) on the 13 Cottage Street parcel contained total SVOCs (including TICs) greater than 100 ppm. Of these four samples, with the exception of SS-112,the majority of the Total SVOC value consisted of target SVOCs. There was evidence of on-Site dumping including a parts cleaner, metal shavings debris, and concrete/brick debris in the vicinity of some of these sample locations.

Metal concentrations exceeded Unrestricted Use SCOs, Residential Use SCOs, or Restricted Residential Use SCOs at 36 locations out of the 54 sample locations spread across the Site; however, cyanide was not detected above SCOs. The exceedances distributed across the site in a manner similar to the SVOC exceedances with no exceedances on the 100 Riverview Place parcel on the western side of the site. Twenty-nine locations exceeded Residential Use and/or Restricted Residential Use SCOs for one or more metals. Thirty-six locations exceeded Unrestricted Use SCOs for one or more metals. Metals exceedances are presented on **Figure 11B**.

Pesticides were present in samples from 10 locations at concentrations above the Unrestricted Use SCOs. The majority of exceedances occurring in the northern portion of the Site. None of the concentrations exceeded the Residential Use or Restricted Residential Use SCOs.

PCBs at two locations exceeded Residential Use, Restricted Residential Use, and/or Unrestricted Use SCOs. PCBs at three locations also exceeded Unrestricted Use SCOs. Sample locations exceeding PCB SCOs are limited to the former canal located on the northern portion of 1320 S. Plymouth Avenue and adjacent to the adjoining 15 Flint Street parcel.

5.3 SUBSURFACE SOIL SAMPLE RESULTS

Subsurface soil sample results were compared to criteria provided in Part 375 (NYSDEC, 2006). Where applicable, CP-51 SCOs (NYSDEC, 2010) were also used. Consistent with the current zoning as residential and future use scenarios as described in Section 2.7, the values used for screening analytical results include:

- Unrestricted Use SCOs
- Residential Use SCOs
- Restricted Residential SCOs.

EPA SW-846 Method 6010C provides total chromium concentrations without differentiation between the trivalent and hexavalent species. Using a conservative approach, the more stringent SCO for hexavalent chromium was used for comparison to total chromium values.

Subsurface soil samples were collected from 140 locations across the Site. Samples were analyzed for one or more of the following: VOCs, SVOCs, pesticides, PCBs, metals, and cyanide. Samples of material described as bone black or granular activated carbon were also targeted for analysis. These samples were collected from SB-113, SB-143, SB-149, SB-TP-139 and test pit sample locations TP-109, TP-140, TP-149, and TP-150. Sample locations in which the "activated carbon" or "bone black" material was analyzed are also identified via a footnote on the corresponding analytical data tables.

Analytical results compared to SCOs are presented on **Tables 8A-8E,** and **9A-9E**. A figure illustrating analytical groups with one or more analyte exceeding a specific criterion, including the Commercial Use SCOs (Commercial Use SCOs to aid in future use planning) is presented as **Figure 13**.

Tables 7A-7C presents a numerical summary of the constituents identified above the Unrestricted Use, Residential Use, and Restricted Residential Use SCOs by constituent in one or more samples.

5.3.1 VOCs

Twenty-six VOCs were detected (including laboratory estimated values) in one of more subsurface soil samples. Eight VOCs were detected above the Unrestricted SCOs. The concentration of one VOC at a single location was above the Residential SCO. In the case of VOC SCOs, both the Residential Use and Restricted Residential Use SCOs are very similar in value. The compounds identified above SCOs can be placed in one of two categories as follows:

Petroleum-related VOCs	**Ketones**
▪ Benzene	▪ 2-Butanone (MEK)

▪ Toluene ▪ 1,2,4-Trimethylbenzene (124TMB) ▪ 1,3,5-Trimethylbenzene (135TMB) ▪ Ethylbenzene ▪ n-Propylbenzene	▪ Acetone

124TMB and 135TMB were detected above Unrestricted Use SCOs at three locations (OVR-117, SB-169, TP-129,). The sample from TP-134 only contained 124TMB above the Unrestricted Use SCO. OVR-117 is located on the 13 Cottage Street parcel and the other samples are located on the northern end of the 1320 S. Plymouth Street parcel on either the east or west side of the adjoining 5 Flint Street Parcel.

MEK was detected above Unrestricted Use SCOs at one location (TP-127) on the northern side of the 1320 S. Plymouth Street parcel, in between the adjoining 5 Flint Street and 15 Flint Street parcels.

Acetone was detected above Unrestricted Use SCOs at 13 locations (SB-105, SB-106, SB-115, SB-117 (duplicate sample), SB-121, SB-133, SB-135, SB-144, TP-103, TP-120, TP-130, TP-133, and TP-137), these locations are distributed across the Site.

Benzene was detected above both Unrestricted Use and Residential Use SCOs at one location OVR-117 (located on the 13 Cottage Street parcel near the central-northern portion of the Site) at 4,400 J micrograms per kilogram (µg/kg).

Ethylbenzene, n-propylbenzene, and toluene were detected above Unrestricted Use SCOs at one location (OVR-117) (located on the 13 Cottage Street Parcel near the central-northern portion of the Site).

Of the eight samples that contained bone black or granular activated carbon, none of the samples contained VOCs above SCOs. Total VOCs in the subsurface are presented on **Figure 14**.

5.3.2 SVOCs

Twenty-two SVOCs were detected in subsurface soils. SVOC compounds detected above corresponding SCOs in one or more of the subsurface soil samples are limited to the following PAHs:

▪ Benzo[a]anthracene ▪ Benzo[a]pyrene ▪ Benzo[b]fluoranthene ▪ Benzo[k]fluoranthene	▪ Chrysene ▪ Dibenzo[a,h]Anthracene ▪ Fluoranthene ▪ Indeno[1,2,3-cd]pyrene	▪ Naphthalene ▪ Phenanthrene ▪ Pyrene

SVOCs exceedances of either Unrestricted Use, Residential Use, or Restricted Residential Use SCOs were observed at 25 subsurface soil locations across the Site, with the majority of exceedances occurring in the central portion of the Site on the 13 Cottage Street parcel. Benzo[a]pyrene was also detected above Protection of Groundwater SCOs at one location (OVR-117) (located on the 13 Cottage Street parcel near the central-northern portion of the Site). In the case of SVOC SCOs, both the Residential Use and Restricted Residential Use SCOs are very similar in value. As illustrated on **Table 7C** the samples from OVR-117 and TP-117 contained the highest concentrations of individual SVOCs. Both of these samples were collected from the south-central portion of the 13 Cottage Street parcel where chemical odors and elevated PID readings were noted.

Similar to the surface soils, total SVOC values (target SVOCs plus TICs) were calculated for subsurface soil samples and presented on **Table 8B**. These values are plotted on **Figure 15** and used to provide a better understanding of the distribution of SVOCs in soil across the Site. The values in general were found to be in the

range of 10 ppm to 100 ppm. Five locations Site (SB-115, SB-148, SB-169, TP-102, and TP-106) contained total SVOCs between 100 ppm and 250 ppm. One location on the 1320 S. Plymouth Avenue parcel (TP-108) contained Total SVOC concentrations between 250 ppm and 500 ppm. Two locations in the central portion of the Site (OVR-117 and TP-117) contained total SVOC concentrations greater than 500 ppm. The sample locations with the greatest SVOC detections (greater than 250 ppm) were collected from fill material that contained coal, ash, cinders, bricks and/or other debris. Some samples also had an observed petroleum and/or chemical odors, however the odors did not necessarily equate to elevated concentrations of SVOCs in the samples.

Of the eight samples containing bone black or granular activated carbon, two samples contained SVOCs exceeding SCOs, as follows:

- SB-143 Restricted Residential Use SCOs for Dibenzo[a,h]Anthracene
- TP-140 Part 375 Residential, Restricted Residential SCOs for Benzo[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, and Indeno[1,2,3-cd]pyrene and Residential Use SCO listed in Part 375 or CP-51 for Chrysene.

5.3.3 Inorganics (Metals and Cyanide)

Numerous metals were detected in subsurface soil samples. Samples from 52 of the 110 locations analyzed contained concentrations (including laboratory estimated values) of one or more of nine metals (aluminum, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc) above the Unrestricted Use SCOs and/or seven metals (arsenic, cadmium, copper, lead, manganese, and mercury) above Residential Use SCOs. Several are likely naturally occurring elements in the local soil. Five of the eight samples (SB-143, SB-149, TP-140, TP-149, and TP-150) containing bone black or granulated activated carbon material contained arsenic above the Part 375 Residential, Restricted Residential SCOs and chromium above the Residential Use SCO listed in Part 375. The locations of these samples were scattered across the Site.

Iron, a naturally occurring element in soil, exceeded Residential Use SCOs at all subsurface soil sample locations on the Site.

Cyanide was detected at 85 subsurface soils samples at concentrations below Unrestricted Use SCOs.

5.3.4 Pesticides/Herbicides

Pesticides were detected (including laboratory estimated values and tentatively identified estimated values) at SB-105 and TP-105 at results below SCOs. Additionally, pesticides were detected at two locations exceeding Unrestricted Use SCOs and Protection of Ecological Resources Action levels at TP-132 for 4-4-DDD, 4-4-DDE, and 4-4-DDT; and TP-149 (sample contains bone black or granulated activated carbon material) for dieldrin.

5.3.5 PCBs

PCBs were detected at OVR-100, SB-126, SB-130, SB-TP-144, SB-172, and TP-107 at concentrations below SCOs. These locations are generally situated in the northern portion of the former canal on the 1320 S. Plymouth Avenue parcel and the south-central portion of the Site.

PCBs were also detected at SB-147 at 0.23 J mg/kg which exceeds the Unrestricted Use SCO of 0.1 mg/kg. SB-147 is located in the center of 13 Cottage Street. PCBs were not detected in the samples containing bone black or granulated activated carbon material.

5.3.6 Field Observations/Physical Characteristics

During completion of the field investigation activities, soil at several subsurface sampling locations exhibited sheens, staining, or odors. These locations are identified on **Table 2** and spatially depicted by depth and type on **Figure 16**. The maximum PID reading (in ppm) measured during field sampling at each location is also depicted on **Figure 17**. As illustrated on these figures the majority of the odors, staining, and sheens are located on the northern portion of the site within the former canal and on the east and west sides of the adjoining 5 Flint Street

parcel with a few locations also observed on the 13 Cottage Street parcel, south of the adjoining 5 Flint Street parcel. Similarly, the location with the highest PID readings are also located in the same general area. Fill and waste materials including observations of fragmented bricks, cinders, coal ash, slag, and black granular material were also noted at many of these locations.

Iridescent sheens and/or black staining were observed at the following locations:

- Test Pits: TP-119, TP-124, TP-127, TP-128, TP-130, TP-132, and TP-152,
- Soil Borings: SB-108, SB-124, SB-125, SB-129, SB-133, SB-134, SB-148, SB-TP-131, OVR-103, and OVR-112.

For the most part, sheens and staining were noted at locations within the northern portion of the former canal on the 1320 S. Plymouth Avenue parcel. Sheens were generally observed at or above the water table.

Petroleum and, in some cases, chemical odors were observed at numerous locations throughout the Site, including 19 test pit locations, 63 soil boring locations (including 13 overburden and four bedrock groundwater monitoring well locations).

Odors were generally observed from 1 ft to 10 ft bgs in the vicinity of the northern end of the former canal on the 1320 S. Plymouth Avenue parcel, and on the east and west sides of the 5 Flint Street parcel. Odors were detected greater than 16 ft below grade along the east end of the site near the river. Solvent or chemical type odors were noted at two locations; one on either side of the adjoining 5 Flint Street parcel near Flint Street.

Odors were also noted at some locations within the 13 Cottage Street parcel. The depth varied from grade to up to 16 ft bgs. At two of the locations, (SB-118 and OVR-117) the odors were noted to be more of a chemical nature than petroleum.

The sheens, staining, and odors generally correlate to the areas also observed to have the highest PID readings, on the northern side of the Site in the location of the former canal on 1320 S. Plymouth Avenue, on the east and west sides surrounding the adjoining 5 Flint Street parcel, and 13 Cottage Street located immediately south of the adjoining 5 Flint Street parcel.

5.3.7 Subsurface Soil Impacts Summary

VOCs, SVOCs, metals, pesticides, and PCBs were each detected above SCOs at one or more locations across the Site, with the majority of exceedances occurring in the northern portion of the Site. The majority of odors and sheens were generally located at shallow depths in the former canal area on the northern end of the 1320 S. Plymouth Avenue parcel and on the east and west side of the adjoining 5 Flint Street parcel. The impacts were observed slightly deeper on the 13 Cottage Street and the 102 Violetta Street parcels. There are limited exceedances on the western side of the site (102 Violette Street and 100 Riverview Place).and at the southern boundaries. However, there is the potential for fill material and associated constituents to extend off-Site within the former canal.

Acetone exceeded Unrestricted SCOs at 13 locations across the Site.

Three of the four VOC Unrestricted Use SCO exceedances for 124TMB and 135TMB were found at the northern end of the Site, along Flint Street. The soil sample from OVR-117, located near the center of the Site on the 13 Cottage Street parcel, contained concentrations of several petroleum-related VOCs exceeding both Unrestricted Use and Restricted Use SCOs as well. A chemical odor was observed during installation of the boring and sampling at location OVR-117.

Quantified SVOC concentrations exceeding SCOs were found at 25 locations across the Site. The locations with the highest concentrations of total SVOCs (target SVOCs plus total TICs) were near the center of the Site on the 13 Cottage Street parcel and near the center of the Site on the western 1320 S. Plymouth Avenue parcel.

The sheens, staining, and odors generally correlate to the areas also observed to have the highest PID readings, on the northern side of the Site in the former canal on 1320 S. Plymouth Avenue, on the east and west sides

surrounding the adjoining 5 Flint Street parcel, and 13 Cottage Street located immediately south of the adjoining 5 Flint Street parcel.

Fifty locations contained concentrations of one or more of nine metals (arsenic, cadmium, copper, lead, manganese, mercury, nickel, silver, and sodium) above the Unrestricted Use SCOs and/or seven metals (arsenic, cadmium, copper, lead, manganese, and mercury) above Residential Use SCOs and Restricted Residential Use SCOs. Iron exceeded Residential Use SCOs at all subsurface soil sample locations on the Site. Manganese, sodium, and iron are likely naturally occurring as the result of the soil types present.

PCB concentrations at one location, SB-147 (located near the center of the Site) exceeded Unrestricted Use SCOs (0.23 mg/kg vs. a SCO of 0.1 mg/kg).

The pesticide concentrations exceeding Unrestricted Use SCOs were collected from TP-132 and TP-149 that are located on the northern end of the Site and the 13 Cottage Street parcel, respectively.

Based on the analytical results of the samples containing bone black or granulated activated carbon material there is no distinct correlation to specific contaminants present in this material as compared to other subsurface samples across the Site.

5.4 GROUNDWATER SAMPLE RESULTS

Groundwater samples were collected from the overburden and bedrock wells installed as part of the RI in addition to MW-3 that was previously installed by the NYSDEC. Groundwater samples were collected in accordance with methods described in Section 3.3.5 in two separate events that occurred between August 17 and 24, 2016 and between December 5 and 13, 2016. The groundwater analytical results, compared to Class GA SGVs, are summarized on **Table 10A-10D. Tables 7C-7E** presents a numerical summary of the constituents identified above the Class GA SGVs by constituent in one or more samples. Groundwater exceedances are presented on **Figure 18**. The groundwater results are summarized below.

5.4.1 VOCs

VOCs exceeding Class GA SGVs in one or more groundwater monitoring wells on at least on occasion can be placed into three general groups as follows:

Petroleum-related VOCs	Chlorinated VOCs	Ketones
▪ Benzene	▪ 1,1-Dichoroethane (1,1,-DCA)	▪ MEK
▪ Isopropylbenzene	▪ Chloroethane	▪ 2-hexanone (MBK)
▪ Toluene	▪ Trichloroethene	▪ Acetone
▪ Xylenes	▪ Vinyl Chloride	
▪ 124TMB		
▪ 135TMB		

Petroleum-related compounds were identified above the Class GA SGVs during at least one sampling event in groundwater collected from groundwater monitoring wells OVR-107, OVR -110, OVR-117, and OVR-132. OVR-117 contained benzene, isopropylbenzene, toluene, xylenes, 124TMB, and 135TMB above criteria during the first sampling event. The concentrations were generally lower during the second sampling event and were below the Class GA SGVs with the exception of xylenes. This well is located to the southwest of the adjoining 5 Flint Street parcel. Benzene was the only VOC detected above the Class GA SGV in groundwater monitoring wells OVR-107, OVR-110, and OVR-132 and only occurred during the first sampling event. These groundwater monitoring wells are located to the west and east of the adjoining 5 Flint Street parcel. None of the concentrations observed exceeded 40 µg/L.

Chlorinated VOCs were detected in four groundwater monitoring wells located on the west and east sides of the 5 Flint Street Parcel; OVR-107, OVR-108, OVR-109, and OVR-132. OVR-132 contained 1,1-DCA (77 µg/L and 26 µg/L, respectively) and chloroethane (12 µg/L and 16 µg/L, respectively) above the Class GA SGVs during both events. Vinyl chloride was detected above criteria at groundwater monitoring well OVR-132 during the first event only (2.1 µg/L). OVR-107 contained only chloroethane above criteria during both events at concentrations of 54 µg/L and 11 µg/L respectively. OVR-109 contained trichloroethene during both events but the concentration only exceeded the class GA SGVs during the first sampling event (7.3 µg/L). Chloroethane was only detected at OVR-108 during the first sampling event and at 7.4 µg/L which is above the Class GA SGV.

OVR-117, located southwest of the adjoining 5 Flint Street Parcel, contained the three ketone compounds (MEK [150 µg/L], MBK [87 µg/L], and acetone [170 µg/L]) at concentrations above criteria during the first sampling event. Only acetone (54J µg/L) was detected above criteria during the second sampling event.

Four VOCs (carbon disulfide, methylcyclohexane, MTBE, and acetone) were detected in one or more (four) of the five bedrock monitoring wells. The concentrations of VOCs detected were below 0.63 J µg/L, with the exception of acetone which was detected in BED1-102 at 8.2 µg/L during round 2. None of the detected VOC concentrations were above their respective Class GA SGVs.

5.4.2 SVOCs

SVOCs were detected in a number of overburden well locations at concentrations below Class GA SGVs. SVOCs detected above criteria were noted at three locations: OVR-117, OVR-119, and OVR-130. At OVR -117 naphthalene was detected during both events (13.6 µg/L and 4.8 J µg/L, respectively), but, as shown was only above the Class GA SGV of 10 µg/L during the first sampling event. OVR-119 contained several PAHs (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, chrysene, and indeno[1,2,3-cd]pyrene) above the Class GA SGVs during both events. The concentrations of these compounds are less than 2 µg/L; however, the individual criteria are non-detect or 0.002 µg/L.

No SVOCs were detected in the groundwater samples collected from the bedrock groundwater monitoring wells.

5.4.3 Inorganics (Metals and Cyanide)

A variety of inorganic constituent were present in the groundwater samples collected from the Site with several detected at concentrations above Class GA SGVs. The constituents above criteria can be grouped into those detected above criteria in most of the wells and in both events and those that were detected above criteria during one of the events or at few locations.

Iron, manganese, magnesium, and sodium were detected above the Class GA SGVs at most locations during the RI program. Specifically, iron was detected above criteria in each of the overburden groundwater monitoring wells and bedrock groundwater monitoring wells BED-101 (first event) and BED-102 (both events). Similarly, magnesium was detected above criteria in all of the overburden groundwater monitoring wells and in bedrock groundwater monitoring wells BED-102 and BED 103 (first event). Magnesium was detected above criteria in both the overburden and bedrock groundwater monitoring wells. Sodium was detected above criteria in each of the bedrock groundwater monitoring wells and most of the overburden groundwater monitoring wells. These constituents are likely naturally occurring as the result of the bedrock and soil types present.

The groundwater sample from OVR-126, located on the southeast side of the Site adjacent to the river, contained a number of inorganic constituents during the first sampling event that were above the Class GA SGVs that were not detected or below criteria during the second sampling event. These constituents included arsenic, barium, beryllium, cadmium, chromium, copper, lead, nickel, and selenium. The fact that these constituents were not present in the second event suggests that the constituents were likely constituents within suspended sediment rather than dissolved in groundwater.

Arsenic was detected in a number of overburden groundwater monitoring wells above the Class GA SGV of 25 µg/L. Three wells contained concentrations above the criteria during both events, these groundwater

monitoring wells included OVR-101, OVR-105, and OVR-130. Four other groundwater monitoring wells (OVR-102, OVR-103, OVR-107, and OVR-110) contained arsenic above criteria during one of the two sampling events. Each of these groundwater monitoring wells are located on the east or west side of the 5 Flint Street Parcel.

Thallium was identified above the Class GA SGV of 0.5 µg/L in eight overburden and one bedrock groundwater monitoring well during at least one sampling event. Thallium exceeded criteria during both events in wells OVR-112, OVR-119, and OVR-104. These groundwater monitoring wells are located on the south end of 5 Flint Street parcel and 13 Cottage Street parcel. Groundwater monitoring wells that contained thallium above criteria in one of the two events included OVR-105, OVR-117, OVR-123, OVR -124, MW-3, and BED-103.

Lead was detected above the Class GA SGV of 25 µg/L in groundwater monitoring well OVR-129 in one of the two sampling events. Selenium was detected above the class SGV of 10 µg/L in OVR-119 in one of the two sampling events.

5.4.4 PCBs

PCBs were only detected in one groundwater sample. OVR-100 located on the north end of the former canal near Flint Street, contained PCB Aroclors 1248 and 1254 at concentrations of 0.096 J µg/L and 0.075 µg/L, respectively during the second sampling event. The total PCB concentration of 0.171 µg/L as well as the individual concentration of Aroclor 1248 exceeded the Class GA SGV of 0.09 µg/L. PCBs were not detected at this location during the first sampling event.

No PCBs were detected in groundwater samples collected from the bedrock monitoring wells.

5.4.5 Physical Characteristics

During Round 1 of groundwater sampling the following locations had observed odors of petroleum in groundwater during sampling: OVR-100, OVR-101, OVR-105, OVR-108, OVR-130, and OVR-131.

During Round 2 of groundwater sampling the following locations had observed odors of petroleum in groundwater during sampling: OVR-100, OVR-101, OVR-120, OVR-130, and OVR-131.

Sheens were observed in the groundwater purged from locations OVR-101, OVR-130, and OVR-131 during both rounds of groundwater sampling. A strong unknown chemical odor was observed during both rounds of groundwater sampling at location OVR-117.

5.4.6 Groundwater Quality Summary

VOCS detected in the groundwater include petroleum-related VOCs, Chlorinated VOCs and Ketone compounds. Most of the compounds were only detected in one of the two sampling events. Petroleum-related VOCs and Chlorinated VOCs were present in wells bordering the 5 Flint Street parcel. Review of the RI Report for the adjoining 5 Flint Street and 15 Flint Street parcels (Ravi, October 2016) indicates that chlorinated VOCs and petroleum-related VOCs were present at higher concentrations in the groundwater on the west-central side of the adjoining 5 Flint Street parcel and some of the wells on the northern end of the 15 Flint Street parcel. OVR-117 located on the 13 Cottage Street parcel contained petroleum-related VOCs and ketones. This groundwater monitoring well contained naphthalene above criteria in the sample from one of the two events. Overburden groundwater monitoring well OVR-119, located in the vicinity of OVR-117 did not contain VOCs, but contained several SVOCs above criteria during both events. A limited number of VOCs were detected in the bedrock groundwater. VOC concentrations observed were less than 0.65 µg/L and well below the groundwater criteria.

Review of the groundwater data from the adjoining 5 Flint Street and 15 Flint Street RI (Ravi, October 2016) reveals that petroleum-related and chlorinated VOCs were present in groundwater at higher concentrations than this Site. The concentrations observed were above criteria at many locations that are primarily in the northern section of each parcel near Flint Street.

PCBs were detected in one ground water sample. The detection occurred in OVR-100 (situated between the adjoining 5 Flint Street and 15 Flint Street parcels) on the north end of the former canal during the second sampling event. The detected concentration exceeded the Class GA SGV.

Groundwater samples from several locations contained detectable concentrations of inorganics, including iron, manganese, magnesium, and sodium above the Class GA SGVs at most locations during both sampling events. It is likely that these are naturally occurring elements as they are components of soil and bedrock.

Arsenic was detected in a number of overburden wells above the Class GA SGV of 25 µg/L. Groundwater monitoring wells OVR-101, OVR-105, and OVR-130 contained concentrations above the criteria during both events. Two of these groundwater monitoring wells (OVR-101 and OVR-130) are located in the northern section of the former canal. OVR-105 is located on the northeast side of the adjoining 5 Flint Street parcel. Arsenic was detected in the groundwater samples at concentration above the Class GA SGV at two groundwater monitoring wells located on the south end of the adjoining 5 Flint Street parcel and arsenic was also detected at concentrations below criteria in a number of other groundwater monitoring wells on the same parcel as a few groundwater monitoring wells on the adjoining 15 Flint Street parcel. (Ravi, October 2016).

Thallium, selenium, and lead were detected at concentrations exceeding Class GA SGVs in a select number of groundwater monitoring wells in samples from one of the two sampling events.

5.5 SOIL VAPOR AND PROXIMAL MEDIA SAMPLE RESULTS

Soil vapor, subsurface soil, and groundwater grab samples were collected from locations located west and southwest near abutting residential properties at the perimeter of the Site (see **Figure 19**). Soil vapor location SV-100 was approximately 90 ft from the nearest residence, SV-107 was approximately 55 ft, and SV-106 approximately 70 ft, respectively. The remaining soil vapor locations ranged in distance from approximately 110 ft to approximately 200 ft to the nearest residence. The majority of samples were also situated topographically approximately 10 ft to 50 ft below the residences on the western slope of the Site.

A list of soil vapor locations and the nearest surface soil, subsurface soil, and groundwater sample locations is presented below on **Table 11**.

Table 11 – Soil Vapor and Proximal Media Sample Correlation

Soil Vapor Sample Location	Closest Surface Soil Sample Location	Closest Subsurface Soil Sample Location	Closest Groundwater Sample Location
SV-100	NA	NA	NA
SV-101	SS-101	NA	GW-101*
SV-102	SS-103	SB-172*	GW-101/GW-103*
SV-103	SS-104	SB-173*	GW-104*
SV-104	SS-105	SB-174*	GW-105*
SV-105	SS-106	NA	GW-106
SV-106	SS-107	NA	GW-107
SV-107	SS-108	NA	GW-108

NA = no sample in close proximity.
*** = Correlating sample is greater than 50 ft away.**

Eight temporary soil vapor points were installed for the collection of soil vapor samples and submitted for TO-15 analysis. Eight temporary piezometers were installed in the vicinity of the same Site boundary and used to collect groundwater grab samples that were analyzed for VOCs. Additionally, soil samples were collected in proximity to the soil vapor and/or temporary piezometer locations for analysis of VOCs and selected additional parameters for the RI. Analytical results for VOCs for all three media collected as part of the SV evaluation are presented on **Tables 12A-12C**.

5.5.1 Soil Vapor

Twenty-three VOCs were detected at one or more soil vapor sample locations. These compounds can be grouped into categories as follows:

Petroleum-related VOCs ■ Benzene ■ Toluene ■ Ethylbenzene ■ 4-Ethyltoluene ■ Xylenes ■ 124TMB ■ 135TMB ■ Styrene **Ketones** ■ Acetone ■ 4-Methyl-2-Pentanone (MIBK)	**Alkanes** ■ Heptane ■ Hexane **Chlorinated VOCs** ■ Trichloroethene ■ Dichlorodifluoromethane ■ Tetrachloroethene ■ Trichlorofluoromethane ■ 1,1,1-Trichloroethane	**PAHs** ■ Naphthalene **Trihalomethanes** ■ Bromoform ■ Chloroform **Other** ■ Methyl methacrylate ■ Carbon Disulfide ■ Tetrahydrofuran

Eight grab groundwater samples were collected from temporary groundwater monitoring well points installed in the vicinity of the western perimeter of the Site. One monitoring well volume was removed from each monitoring well point prior to sample collection using a dedicated polyethylene thimble bailer for each location. Samples were analyzed for VOCs only. Groundwater grab samples were compared to Class GA SGVs. These criteria are provided within in the data table. Analytical results and constituents identified above guidance values are presented on **Tables 10A-10D**.

Soil samples were collected at seven nearby locations to soil vapor sampling locations including SS-101, and SS-103 through SS-108. Surface soil sample results were compared to criteria provided in Part 375 (NYSDEC, 2006). Where applicable, Supplemental SCOs (CP-51) (NYSDEC, 2010) were also used. For comparison, SCOs are provided with the data summary tables.

Soil samples were collected at five select locations combined with the temporary groundwater monitoring wells, including SB-102, SB-112, SB-172, SB-173, and SB-174 and one converted test pit location, SB-TP-111. Subsurface soil sample results were compared to criteria provided in Part 375 (NYSDEC, 2006). Where applicable, Supplemental SCOs (CP-51) (NYSDEC, 2010) were also used. For comparison, SCOs are provided with the data summary tables.

Comparison of analytical data at each correlated area is described below.

5.5.2 Sample VOC Correlation

SV-100

The following VOCs were detected in the soil vapor analysis: acetone; benzene; bromoform; dichlorodifluoromethane; ethylbenzene; 4-ethyltoluene; heptane; hexane; methylmethacrylate; MIBK; naphthalene; styrene; tetrachloroethene; toluene; trichlorofluoromethane; 124TMB; 135TMB; m,p-xylene; and o-xylene.

There were no correlated surface soil, subsurface soil, or groundwater samples in the proximity (*i.e.,* within approximately 50 ft or less) of SV-100.

SV-101

The following VOCs were detected in the soil vapor analysis: benzene, bromoform, dichlorodifluoromethane, ethylbenzene; 4-ethyltoluene; heptane; hexane; MIBK; methylmethacrylate; naphthalene; styrene;

tetrachloroethene; tetrahydrofuran; toluene; and trichlorofluoromethane; 124TMB; 135TMB; m,p-xylene; and o-xylene.

VOCs were not detected above analytical laboratory method detection limits at nearby surface soil sample location SS-101.

Of the constituents identified in SV-101, the following were also detected in the groundwater sample collected from GW-101: 124TMB; benzene; m,p-xylene; o-xylene; and toluene. Concentrations were generally less than 1 µg/L with the exception of benzene which was detected above the guidance value of 1 µg/L at 1.2 µg/L. This temporary piezometer is located over 50 ft from the soil vapor location and is situated approximately 20 ft topographically downgradient.

There were no correlated subsurface soil samples in the proximity (*i.e.,* within approximately 50 ft or less) of SV-101.

SV-102

The following VOCs were detected in the soil vapor analysis: acetone; benzene; bromoform; carbon disulfide; chloroform; dichlorodifluoromethane; ethylbenzene; 4-ethyltoluene; methylmethacrylate; naphthalene; styrene; tetrachloroethene; toluene; trichlorofluoromethane; 124TMB; 135TMB; m,p-xylene; and o-xylene.

None of the constituents identified in the soil vapor sample were detected in surface soil sample SS-103.

Of the constituents identified in SV-102, the following were also detected in the groundwater sample collected from GW-101: 124TMB; benzene; m,p-xylene; o-xylene; and toluene. Concentrations were generally less than 1 µg/L with the exception of benzene which was detected above the guidance value of 1 µg/L at 1.2 µg/L. This temporary piezometer is located over 100 ft from the soil vapor location and is situated approximately 15 ft topographically downgradient.

Of the constituents identified in SV-102, acetone was also detected in the subsurface soil sample collected from SB-172, at a concentration of 0.024 µg/kg.

VOCs were not detected above analytical laboratory detection limits at temporary piezometer GW-103. This temporary piezometer is located over 100 ft from the soil vapor location, and is situated approximately 20 ft topographically downgradient.

SV-103

The following VOCs were detected in the soil vapor TO-15 analysis: benzene; chloroform; dichlorodifluoromethane; ethylbenzene; heptane; hexane; 124TMB; 135TMB; 4-ethyltoluene; bromoform; methylmethacrylate; naphthalene; styrene; tetrachloroethene; toluene; trichlorofluoromethane; m,p-xylene; and o-xylene.

Of the constituents identified in SV-103, none of these constituents were identified above analytical laboratory method detection limits in surface soil sample SS-104, subsurface soil sample SB-173, or the groundwater sample collected at temporary piezometer GW-104. This temporary piezometer is located over 100 ft from the soil vapor location and is situated approximately 40 ft topographically downgradient.

SV-104

The following VOCs were detected in the soil vapor analysis: acetone; benzene; dichlorodifluoromethane; ethylbenzene; heptane; hexane; methylmethacrylate; naphthalene; styrene; tetrachloroethene; toluene; trichloroethene; trichlorofluoromethane; and m,p-xylene.

Of the constituents identified in SV-104, only acetone was detected in surface soil sample SS-105, at a concentration of 42 µg/kg.

VOCs were not detected above analytical laboratory method detection limits at subsurface soil sample location SB-174 or the groundwater sample from temporary piezometer GW-105. The soil boring is located approximately 80 ft from the soil vapor location and is situated approximately 20 ft topographically downgradient. This temporary piezometer is located over 75 ft from the soil vapor location and is situated approximately 20 ft topographically downgradient.

SV-105

The following VOCs were detected in the soil vapor TO-15 analysis: benzene; bromoform; chloroform; dichlorodifluoromethane; ethylbenzene; heptane; hexane; 124TMB; 135TMB; 4-ethyltoluene; methylmethacrylate; naphthalene; styrene; tetrachloroethene; toluene; and trichlorofluoromethane; m,p-xylene; and o-xylene.

Of the constituents identified in SV-105, only acetone was detected in surface soil sample SS-106, at a concentration of 46 µg/kg.

There were no nearby subsurface soil samples collected in the proximity of SV-105. VOCs were not detected above analytical laboratory detection limits in the groundwater sample collected from temporary piezometer GW-106, located within a few ft of the soil vapor location.

SV-106

The following VOCs were detected in the soil vapor TO-15 analysis: acetone; benzene; bromoform; dichlorodifluoromethane; ethylbenzene; 4-ethyltoluene; heptane; hexane; methylmethacrylate; MIBK; naphthalene; styrene; tetrachloroethene; toluene; trichloroethene; trichlorofluoromethane; 124TMB; 135TMB; m,p-xylene; and o-xylene.

There were no nearby subsurface soil samples collected in the proximity of SV-106.

VOCs were not detected above analytical laboratory detection limits at surface soil sample SS-107 or the groundwater sample collected from temporary piezometer GW-107, located within a few ft of the soil vapor location.

SV-107

The following VOCs were detected in the soil vapor TO-15 analysis: benzene; bromoform; chloroform; dichlorodifluoromethane; ethylbenzene; 4-ethyltoluene; heptane; hexane; methylmethacrylate; naphthalene; styrene; tetrachloroethene; toluene; 1,1,1-trichloroethane; trichloroethene; trichlorofluoromethane; 124TMB; 135TMB; m,p-xylene; and o-xylene.

Of the constituents identified in SV-107, the following were also detected in the groundwater sample collected from temporary piezometer GW-108: 124TMB; benzene; m,p-xylene; and o-xylene, with concentrations below 0.77 µg/L. This temporary piezometer is located within a few ft of the soil vapor location and on the same general terrain.

There were no nearby subsurface soil samples collected in the proximity of SV-107.

VOCs were not detected above analytical laboratory detection limits at surface soil sample SS-108.

Soil Vapor Samples in Proximity to Residential Structures

The following three soil vapor samples, SV-100, SV-106, and SV-107 were located closest to western adjoining property residential structures as noted in Section 5.4 above. Remaining soil vapor samples were at a distance far enough from the western Site boundary and/or topographically separated so as to not be proximal to nearby structures as noted by the distances in Section 5.4 above.

Twenty-two VOCs were detected in one or more of these soil vapor samples including acetone, benzene, bromoform, chloroform; dichlorodifluoromethane; ethylbenzene; 4-ethyltoluene; heptane; hexane; methylmethacrylate; MIBK; naphthalene; styrene; tetrachloroethene; toluene; 1,1,1-trichloroethane; trichloroethene; trichlorofluoromethane; 124TMB; 135TMB; m,p-xylene; and o-xylene. The concentrations detected were generally low, not indicative of a source, and generally consistent among soil vapor samples.

One of the RI objectives was to evaluate the potential presence of historic dry cleaning operations on a nearby property, 27-31 Riverview Place (adjoining the northwestern most boundary of the 1 Cottage Street parcel), including the potential for the presence of solvents and the potential for groundwater migration onto the Site. The analytical results of the soil vapor samples collected (and nearby groundwater sampling, as described in Section 6.4) are not indicative of subsurface impact by dry cleaning operations.

Currently there are no general USEPA standards, criteria, or guidance values (SCGs), to compare soil vapor sample analytical results against. NYSDOH has a guidance document for soil vapor concentrations attributable to vapor intrusion. NYSDOH states that volatile chemicals in soil vapor commonly detected and can be attributable to background interferences (not associated with the Site's former activities). NYSDOH recommends that soil vapor sampling results be reviewed in conjunction with the results of other environmental sampling and the CSM.

Analytical results for VOCs for media collected as part of the SV evaluation are presented on **Tables 12A-12C**.

The purpose of the soil vapor sampling was to evaluate the potential for vapor intrusion. The low concentrations of constituents detected in soil vapor suggest the probability for vapor intrusion into existing off-Site buildings is low. Constituents in nearby soil and groundwater samples were generally non-detect. Although there are low concentrations of VOCs identified in some of the groundwater samples collected from lower elevations, the limited constituents detected and the relative horizontal and vertical distance from the soil vapor sample locations suggests that these detections are not related to those identified in the soil vapor.

5.5.3 Field Observations/Physical Characteristics

During field implementation of the soil vapor evaluation, slight petroleum odors were detected at two soil boring locations SB-172/GW-103 and GW-106. The odors were generally observed at depths between 4.5 ft and 13 ft bgs. Observations of fill including black granular material, coal, fractured concrete, brick fragments were found at several sample locations, including SB-172/GW-103, SB-173/GW-104, SB-174/GW-105, GW-106, GW-107, and GW-108. A slight petroleum odor was detected in the groundwater at GW-103, though no sheens were observed. The locations where petroleum odors were observed are in low-lying areas and generally not in the vicinity of the soil vapor samples situated at higher terrain elevations on the western slope of the Site.

6. CONCEPTUAL SITE MODEL

A CSM was developed in the RI Work Plan (OBG, 2015) based on the data provided in the prior Site investigations, that are discussed in Section 2.6. This CSM has been updated as presented below based on the data and information collected during the RI.

6.1 HISTORIC OPERATIONS AND ASSOCIATED STRUCTURES

The Site was historically operated as a petroleum refinery, blending, and bulk oil storage facility from approximately 1866 to approximately 1930 that encompassed approximately 40-acres with a footprint spanning both north and south of Flint Street. The Vacuum Oil Company Refinery operated the petroleum refinery, blending operations, and bulk storage at portions of the Site (including several adjoining properties) from approximately 1866 to around the early 1890s. From the early 1890s until its closure in 1935, the Site operated as a blending facility. Crude oil, kerosene, naphtha, finished lubricants, and containers for these products (*e.g.*, wooden barrels, tin cans, and drums) were manufactured and stored on the facility properties. Operations and facilities that formerly occupied the Site include the former canal beds, rail yard, stave (barrel component) storage and potentially underground facilities that previously serviced related manufacturing operations.

Additionally, a structure, potentially a greenhouse/nursery, was depicted on the Site parcel identified as 1 Cottage Street in an aerial photograph and City Plat dated 1926, and a 1938 Sanborn® Fire Insurance Map. A former dry cleaning operation was noted to be located off-Site to the west at 27-31 Riverview Place, adjoining the northwestern most portion of the 1 Cottage Street parcel.

The former canal occupied the 1320 S. Plymouth Avenue parcel. The canal was later converted to the rail bed for the Western New York & Pennsylvania Railroad. The railroad line was decommissioned in approximately 1971. Concrete remnants associated with retaining walls for the railroad are still visible in some locations on this parcel (**Figure 4**). Canal wall structures that were originally thought to be in place were not identified during the investigation and reportedly constructed of wood.

Remnants of several buildings and the railroad are evident on the parcels that make up the Site. In addition, a former MCPW water line and an active sewer line were identified within and adjacent to the east side of the former canal during the pre-investigation activities. As described in Section 3.1.3, a former MCPW reinforced-concrete sewer line was identified within and adjacent to the west side of the former canal adjacent to an existing MCPW sewer line, and a former water line was identified on the east side of the former canal (associated with a former Vacuum Oil refinery hydrant system), during the pre-investigation activities. A product transfer line was initially thought to have been installed at the base of the former canal on the Site; however, investigation activities conducted to locate utilities did not identify the presence of this line and further information suggests that it was located on the properties to the north of Flint Street.

6.2 SITE GEOLOGY

The site is underlain by fill followed by native silt and sand deposits. Gravel lenses, most likely representative of alluvial channel deposits, are present at the top of bedrock in the vicinity of the Genesee River on the east side of the Site. Bedrock is present at depths ranging from 10 ft to 19 ft below grade. The bedrock surface dips to the southeast.

6.3 SITE HYDROGEOLOGY

Groundwater occurs at depths ranging from 3 ft to 4 ft within the former canal on the west side of the Site to 10 ft to 12 ft below grade on the east side of the site near the Genesee River. Based on these measurements, the groundwater table appears to be relatively flat with a north to northwest flow component within the former canal area of the site (1320 S. Plymouth Avenue). The northern flow component of groundwater within the former canal is partially driven by the higher ground water elevations noted on the southern end of the Site and

may also be indicative of preferential flow along the canal backfill and/or old sewer and water lines in this area of the site. Furthermore, the flow direction observed in wells completed during this RI is not consistent with the flow direction observed during the RI completed on the adjoining 5 Flint Street Parcel by Ravi (Ravi, 2016b).

The Genesee River staff gauge managed by USGS reports that gauged at 512.6 ft which is approximately 5 ft higher than that observed in the wells adjacent to the river suggesting that there is limited hydraulic connection between the overburden groundwater and the river across the northern end of the Site. Review of construction information in preparation for upgrading of the river wall in this area indicates that the existing river wall structure extends to the bedrock surface at least along the reach adjacent to the northern end of the Site. This structure is suspected to limit the hydraulic connection between the groundwater at the Site and the river. These conditions could change if the wall is removed in the future.

6.4 NATURE AND EXTENT OF SITE COCS

During the RI activities, samples of four media (surface soil, subsurface soil, groundwater, and soil vapor) were analyzed for a range of constituents that included VOCs, SVOCs, metals, cyanide, pesticides, and PCBs. The results of these analyses identified several COCs. A COC is a constituent that is sufficiently present in frequency and/or concentration to require evaluation of remedial action. **Tables 7A-7C** provide a summary of the frequency of exceedances of criteria for constituents in surface soil, cover soil, and subsurface soil samples, respectively. Groundwater COCs were identified if a constituent exceeded the Class GA criteria in both sampling events. Summaries of detections and frequency of exceedances of criteria for groundwater from overburden and bedrock wells is provided on **Tables 7D** and **7E**. Based on these criteria, the following COCs have been identified at the Site.

Surface Soil

VOCs were not identified above SCOs in surface soil. In general, SVOCs and metals were the constituents identified most frequently above one or more SCOs in surface soils. Exceedances of SCOs were noted in samples along the southern border of the Site parcels suggesting that similar exceedances may be present off-Site depending on topography.

SVOCs and specifically, one or more of PAH compounds were identified in at least 11 of 34 surface soil samples analyzed. The exceedances were scattered across the 13 Cottage Street parcel and the 1320 S. Plymouth Avenue parcel. Comparison of the distribution of the locations where quantifiable SVOCs exceeded SCOs to the total SVOCs generally show a similar correlation; however, there are many locations with total SVOC values between 10 ppm and 100 ppm that do not contain quantifiable SVOCs above criteria. One surface soil sample (SS-112) on the 13 Cottage Street parcel contained total SVOCs greater than 100 ppm. This location also correlates to locations with quantifiable SVOCs above criteria. This sample contained evidence of fill material.

Arsenic is present above each of the SCOs in up to 37% of the surface soil samples analyzed. The locations of elevated arsenic concentrations in surface soil are scattered across the 1320 S. Plymouth Avenue and 13 Cottage Street parcels with the predominant exceedances located on the southern portion (south of the adjoining 5 Flint Street parcel). The maximum concentration of 65.4 mg/kg is much less than that observed in the subsurface soil. Potential sources of arsenic may be crude oil, coal, ash, cinders, pressure-treated railroad timbers, or the use of pesticides at the Site, as these materials would have typically been placed or distributed at or near the surface.

Mercury was detected above the Unrestricted Use SCO in half of the samples analyzed; however, only two samples exceeded the Residential Use and Restricted Residential SCOs. The sample locations exceeding the Unrestricted SCO are distributed across the site to the west of the raised flood-protection berm. Review of the statistic tables (**Table 7A**) indicates that mercury exceeded the Unrestricted Use SCO in surface soil in 52 percent of the surface soil samples as compared to 21 percent in subsurface soil.

Surface Cover

Similar to surface soil, surface cover did not contain VOCs above SCOs. In general, SVOCs and metals were the constituents identified most frequently above one or more SCOs in surface soils. Exceedances of SCOs were noted in samples along the southern border of the parcels suggesting that similar exceedances may be present off-Site depending on topography.

SVOCs and specifically, one or more of PAH compounds benzo(a) anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene, were individually identified in at least 20 of 47 surface cover samples analyzed. The exceedances were scattered across the 13 Cottage Street parcel and the 1320 S. Plymouth Avenue parcel and general west of the elevated berm. Comparison of the distribution of the locations where quantifiable SVOCs exceeded SCOs to the total SVOCs generally show a similar correlation; however, there are many locations with total SVOC values between 10 ppm and 100 ppm that do not contain quantifiable SVOCs above criteria. Four locations (SS-112, SS-142, SS-141, and SS-147) on the 13 Cottage Street parcel contained total SVOCs greater than 100 ppm. These locations correlate to locations with quantifiable SVOCs above criteria. There was evidence of on-Site dumping including a parts cleaner and metals shavings debris in the vicinity of several of these sample locations.

Arsenic is present above each of the SCOs as much as 51% of the surface cover samples analyzed. The locations of elevated arsenic concentrations in surface cover samples are scattered across the 1320 S. Plymouth Avenue and 13 Cottage Street parcels with the predominant exceedances located on the southern portion (south of the adjoining 5 Flint Street parcel). Arsenic was observed above SCOs in up to 51 percent of the surface cover samples although the maximum concentration was much less than that observed in the subsurface soil samples. Similar to surface soil, potential sources of arsenic may be crude oil, coal, ash, cinders, pressure-treated railroad timbers, or the use of pesticides at the Site. These potential sources would also more likely result in surface soil impacts rather than subsurface soil impacts, as these materials would have typically been placed or distributed at or near the surface.

Mercury was also detected above the Unrestricted Use SCO in more than half of the samples analyzed; however, only five samples exceeded the Residential Use and Restricted Residential SCOs. The sample locations with concentrations exceeding the unrestricted SCO are distributed across the site to the west of the raised flood-protection berm. Review of the statistic tables (**Table 7B**) indicates that mercury exceeded the Unrestricted Use SCO in surface soil in 60 percent of the surface soil samples as compared to 21 percent in subsurface soil.

Subsurface Soil

Only a limited number of VOCs were detected above SCOs and the frequency and concentrations detected did not suggest that VOCs would be considered a COC at the Site. However, PID readings in soil borings completed in the area on both sides of the adjoining 5 Flint Street parcel were generally elevated. The elevated PID values coupled with the presence of VOC TICs and lack of elevated quantified VOC concentrations suggest that VOCs are present which are likely degradation compounds or non-targeted VOCs that are not on the standard analyte list and for which there are no applicable standards. The degradation of the compounds is understandable given the period of operation of the facility and the undeveloped nature of the Site.

Similar to the surface soil samples, SVOCs detected in the subsurface soil samples above SCOs were PAH compounds benzo(a) anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd) pyrene. Review of the sample matrix table shows that the elevated concentrations were identified in approximately 37 percent of the identified fill samples and primarily associated with samples that were gray to black in color and in some instances contained coal fragments and ash. The primary PAH compounds identified as COCs are located on the 13 Cottage Street parcel. This area is also the primary location of samples with the highest total SVOC concentrations. The location of the SVOCs above SCOs do not correlate to the location of observations of odors and sheens which are concentrated in the northern portion of the 1320 S. Plymouth Avenue parcel between the adjoining 5 Flint Street parcel and adjoining 15 Flint Street parcel and along the east side of the adjoining 5 Flint Street parcel. This suggests that the SCO exceedances were associated

with the coal and ash within the samples rather than petroleum residuals suggested by the odors, sheens, and elevated PID readings.

Arsenic was identified above SCOs in 31 of the 123 subsurface soil samples analyzed for metals (25 percent). Samples containing arsenic were located south of the adjoining 5 Flint Street Parcel on both the 1320 S. Plymouth Avenue and 13 Cottage Street parcels. Three of the samples containing the highest concentrations of arsenic were located in the northern end of the former canal near Flint Street.

Mercury was also detected above the Unrestricted SCOs in approximately a quarter of the samples analyzed. The sample locations exceeding one or more SCO are distributed across the site. Similar to arsenic, almost three quarters of the samples containing mercury above one or more SCO were described as containing ash, cinders, coal, or were black or dark gray in color and only a few were noted to have a petroleum or oily type of odor.

As discussed previously, odors and staining were noted in soils primarily in the north end of the canal (1320 S. Plymouth Avenue), both sides of the adjoining 5 Flint Street parcel and on the 13 Cottage Street parcel. The odors were noted from the surface to the base of the boring or test pit in most areas. In drilling locations situated closer to the river, only staining was noted at depth suggesting that this may be associated with migration with groundwater or be an older surface that was covered with unimpacted fill in areas such as the flood control berm. Consistent with the odors, PID readings were recorded in soil samples at levels ranging from background to more than 100 ppm. The highest concentrations were located on the north end of the former canal, and on both sides of the adjoining 5 Flint Street parcel. As these observations do not correlate to elevated concentrations of quantified VOCs and SVOCs, it is likely that they represent VOC or SVOC residuals due to degradation and/or non-target VOCs and SVOCs. There were no observances of non-aqueous phase liquids (NAPL) or grossly impacted soil suggestive of discharges of liquids to the surface or disposal by landfilling.

Groundwater

PCBs were only detected in a single sample from OVR-100 during the first sampling event. . Although the concentration was above the groundwater standard of 0.09 µg/L PCBs were not detected during the other sampling event and therefore, not considered a COC.

With the exception of four locations, the detection of VOCs and SVOCs at concentrations above criteria were limited in number and generally only found in one of the two groundwater sampling events. Chlorinated VOCs were identified in overburden groundwater monitoring wells OVR-107, and OVR-132 during both events. These wells are both located on the east side of the adjoining 5 Flint Street parcel. The location of these overburden groundwater monitoring wells with respect to the former dry cleaner located at 27-31 Riverview Place and other nearby historic operations described in Section2.2.1 do not suggest a relationship. Chlorinated VOCs were also detected on the south side of the building on the adjoining 5 Flint Street property during the Ravi investigation (Ravi, 2016a). Acetone and xylenes were the VOCs above criteria in overburden groundwater monitoring well OVR-117 located south of the adjoining 5 Flint Street property. The location and types of VOCs observed in the overburden groundwater monitoring wells OVR-132/OVR-107 and OVR-117 suggest different sources.

In addition to the VOCs, several SVOCs were identified to be above criteria in the groundwater samples collected from overburden groundwater monitoring well OVR-119. This well is also located south of the adjoining 5 Flint Street property. SVOCs were also reported to be present in several groundwater samples collected from wells on the south end of the adjoining 5 Flint Street property during the Ravi investigation suggesting that they could be related to the SVOCs identified in overburden groundwater monitoring well OVR 119.

Arsenic was detected in the groundwater above the Class GA groundwater standard in seven overburden groundwater monitoring wells located on the north end of the 1320 S. Plymouth Avenue parcel between the adjoining 5 Flint Street and adjoining 15 Flint Street parcels and the east side of the adjoining 5 Flint Street parcel. The 1320 Plymouth Avenue parcel was also where the subsurface soil samples with the highest arsenic were located. Given the groundwater flow directions observed in the northern part of the canal there is the

potential for off-Site migration in this area. No soil samples were analyzed for metals at overburden groundwater monitoring well OVR-105 although a soil sample from SB-171 contained arsenic at 9 mg/kg (below SCOs). Arsenic was detected above the criterion in both events in three of the groundwater monitoring wells and only during the one of the two events in four of the groundwater monitoring wells. Arsenic was also noted to be elevated in groundwater samples collected from the adjoining 5 Flint Street and adjoining 15 Flint Street parcels during the RI conducted by Ravi (Ravi, 2016a) suggesting similar source or communication of groundwater.

Iron, manganese, magnesium, and sodium were detected in the groundwater collected from most, if not all, of the groundwater monitoring wells above Class GA SGVs. These results are consistent with local geology and the widespread use of rock salt on area roads in the winter and do not appear to be associated with past operations. Therefore, these compounds are not considered COCs at this Site.

7. QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT

A QHHEA was completed for the Site and is presented in this section. The QHHEA was conducted in accordance with New York Environmental Conservation Law (ECL) §27-1415(2)(b) and Section 3.3(c)(4) and Appendix 3B of DER-10. As presented in DER-10, the purpose of the QHHEA is to evaluate and document the potential exposure routes and pathways, and to identify and characterize the potentially exposed populations currently and under reasonably anticipated future use of the Site.

Environmental media assessed in the RI for potential impacts from historical Site operations and practices and potential human exposure include soil, groundwater, and soil vapor. The 15.4-acre Site is owned entirely by the City and is currently, as detailed in Section 2.4, undeveloped and covered by dense overstory and understory vegetation. A paved recreational bike path (Genesee Riverway Trail) traverses the Site near the Genesee River and parkland occupies a small area along the eastern part of the Site. The planned redevelopment of the Site and surrounding properties, which incorporates mixed commercial and restricted-residential use, is critical to the evaluation of future use and exposure scenarios. As stated in Section 2.7, redevelopment on the BCP Site would occur during the various BOA Master Plan phases.

7.1 HUMAN HEALTH CONSTITUENTS OF POTENTIAL CONCERN

The Site has been the subject of historical investigation and data collection efforts since the 1990's, as presented in Section 2. Media for which quantitative historical data are available include soil and groundwater, however, a portion of the data were un-validated, the sample size was low, and recollection and reanalysis efforts were completed as part of the RI for a portion of the samples. Therefore, only data collected during the RI are evaluated in this QHHEA.

As described in Section 2.7, the redevelopment of the Site will occur according to the BOA Master Plan to include multi-family residential, commercial/retail, and industrial facilities through a phased implementation. Given the reasonably anticipated future use of the Site for mixed-use, as well as current and likely future zoning, the soil and groundwater data have been evaluated against the following standards/guidance values:

- Restricted-Residential Use SCOs
- Class GA SGVs.

Constituents that were detected in each medium are designated as constituents of potential concern (COPCs) for evaluation of human health exposures if they exceed screening criteria that correspond with current and probable future land use. Although Unrestricted Use SCOs were included as a conservative measure to evaluate the nature and extent of contaminant impacts at the Site (Section 5), this QHHEA utilizes the Restricted-Residential SCOs given that the current and probable future use at the Site includes active recreational areas, likely redevelopment to support commercial use and multi-tenant residential housing. If current or future land use conditions were to change (*e.g.*, construction of single-family homes), alternative screening criteria (*e.g.*, Unrestricted Use SCOs) may be applicable. This QHHEA considers as a COPC any constituent that exceeds the Restricted Residential SCO regardless of frequency or concentration as a conservative assessment of potential for exposures.

In addition to soil and groundwater, soil gas samples were collected at eight locations adjacent to residential properties at the perimeter of the Site. There are no New York State numerical screening/cleanup values specific to soil vapor alone for evaluating indoor air exposures.

The exposure media evaluated for this QHHEA are surface soil, subsurface soil, shallow groundwater, and soil vapor. Additional details regarding the COPCs identified in these media are presented below.

7.1.1 Surface Soil

For the purposes of the QHHEA, surface soil is defined as soil collected from a depth of up to 2 ft bgs. Surface soil represents the environmental medium that is likely to be encountered by individuals engaged in activities that result in only modest soil disturbance and not in activities resulting in purposeful excavation or subsurface work activities.

Constituents were analyzed in the surface soil horizon for one or more of the following: VOCs, SVOCs, pesticides, PCBs, metals, and cyanide. Results are presented in detail in Section 5.1 and **Tables 5A-5E**, and are summarized below:

- No VOCs were detected above Restricted-Residential Use SCOs.
- Of the SVOCs analyzed, 14 COPCs were identified based on exceedances of Restricted-Residential Use SCOs in at least one sample. Only PAH compounds exceeded their respective cleanup levels.
- No organochlorine pesticides were detected at concentrations above their respective Restricted-Residential Use SCOs.
- Total PCBs exceeded its Restricted-Residential Use SCO in two surface soil samples.
- Arsenic was detected above the Restricted-Residential SCO in 23 of the 47 locations analyzed for metals. Five additional metals (barium, cadmium, copper, lead, and mercury) were detected above their corresponding Restricted-Residential Use SCO in at least one location. All cyanide sample concentrations were below the Restricted-Residential Use SCO.

As discussed in Section 6, constituents are present above SCOs in some samples collected in the vicinity of the southern border of the Site. This suggests that similar concentrations may be present off-Site.

7.1.2 Subsurface Soil

For the purposes of qualitatively evaluating human exposures to soil, subsurface soils are defined as those between 2 ft and the depth to which current and/or future subsurface utility lines are or will be located (typically 10 ft to 12 ft bgs). Consequently, soil boring and test pit data from 2 ft to 12 ft bgs were considered appropriate for assessment in the QHHEA. Subsurface soil within this interval can be encountered by human receptors during excavation and other subsurface work activities such as construction and/or utility line work. Consequently, all subsurface soil samples collected from 2 ft to 12 ft bgs were evaluated for potential human health COPCs.

Tables 8A-8E presents the comparison of constituent concentrations in subsurface soil to the Restricted-Residential SCOs. These tabulated results are discussed in Section 5.3, and are summarized below:

- No VOCs were detected above Restricted-Residential Use SCOs.
- Of the SVOCs analyzed, 13 human health COPCs were identified based on exceedances of Restricted-Residential Use SCOs in at least one sample. Semi-volatile chemicals exceeding Restricted-Residential Use SCOs were represented by PAH compounds.
- No organochlorine pesticides were detected at concentrations above their respective Restricted-Residential Use SCOs.
- Total PCBs did not exceed the Restricted -Residential Use SCO.
- Arsenic was detected above the Restricted-Residential SCO in 27 of the 123 locations analyzed for metals. Five additional metals (cadmium, copper, lead, manganese, and mercury) were detected above their corresponding SCO in at least one location. All cyanide sample concentrations were below the SCO.

In subsurface soil constituents exceeding criteria are observed at the northern end of the canal. These constituents could extend off-Site to the north, depending on the subsurface conditions.

7.1.3 Groundwater

As described in Section 4.3.3, a total of 33 overburden wells and five bedrock wells were installed at the Site to evaluate overburden and bedrock hydrogeology. Depth to overburden groundwater ranges from 3 ft to 4 ft bgs on the western portion of the Site within the former canal to 10 ft to 12 ft bgs on the eastern boundary adjacent to the river. Depth to water in shallow bedrock wells ranged from approximately 2 ft to 7 ft bgs. Groundwater occurs at depths across the Site that select human populations (*e.g.*, subsurface workers) could incur exposure via direct contact. Groundwater beneath the Site and in the general vicinity is not known to be used, and public water is available and in use. A screening of Site groundwater concentrations to Class GA SGVs for the protection of drinking water therefore is not appropriate. Class GA SGVs may be utilized to identify human health COPCs for the most likely exposure route for subsurface workers (dermal contact).

Tables 10A-10D presents the comparison of constituent concentrations in shallow groundwater to the Class GA SGVs. These tabulated results are discussed in Section 5.4, and are summarized below:

- A total of 14 VOCs were detected above SGVs in shallow groundwater in one of the two groundwater sampling events.
- Of the SVOCs analyzed, eight human health COPCs were identified based on exceedances of groundwater SGVs; seven of these compounds were PAHs. Bis(2-ethylhexyl) phthalate also exceeded its SGV.
- Aroclor-1248 exceeded its SGV in one overburden well in one of the two sampling events based on a "J"-qualified sample result.
- A total of 14 metals were detected above corresponding SGVs in at least one well. Eight of these metals (barium, beryllium, cadmium, chromium, copper, lead, nickel, and selenium) only exceeded their respective SGVs in a single groundwater sample. All cyanide sample concentrations were below the SGV.

Based on groundwater flow data collected during this RI, migration of groundwater to the river is not expected to occur. However, there is the potential for migration of groundwater to the north in the area of the former canal.

7.1.4 Soil Vapor

As discussed in Sections 5.4, there are no soil gas screening, cleanup, or guidance values to evaluate potential exposures via vapor intrusion based on this medium alone. The NYSDOH vapor intrusion guidance document recommends an approach utilizing multiple lines of evidence (*e.g.*, soil vapor, groundwater), Site geological conditions, and current and future land use to evaluate indoor air inhalation exposures attributable to vapor intrusion.

Soil vapor samples collected during the RI were located along the perimeter of the Site to assess the potential for off-site migration of soil vapor in the direction of adjoining western residential properties. A total of 20 VOCs were detected in at least one soil vapor sample (**Tables 12A-12C**). However, as discussed in Section 5.4 the concentrations were low and do not suggest off-Site migration.

7.2 POTENTIAL SITE-RELATED HUMAN HEALTH COPC MIGRATION PATHWAYS

The potential for migration of Site-related human health COPCs in soil, shallow groundwater, and soil vapor depends on the physical, chemical, and biological characteristics at the Site and the chemical and physical attributes of the COPCs. A discussion of potential migration pathways for human health COPCs in soil, groundwater, and soil vapor is presented below.

7.2.1 Surface Soil

Surface soil samples were collected from the 0 ft to 2 ft bgs depth interval in unpaved areas containing extensive vegetative cover that is present currently but that may be removed during future redevelopment activities. COPCs in Site surface soil are subject to physical and chemical processes that influence their mobility, including changes in valence state, adsorption, and transport via percolation and overland runoff. Transport of COPCs at the Site under current conditions is considered minimal given the presence of vegetation in most areas, particularly in areas of minimal topographic relief. Although the ground surface slopes upwards on the west and east sides of the Site, runoff from these areas would flow toward rather than away from the former production area on the northern and central portions of the Site. Under this scenario the Site would receive runoff from the adjoining 15 Flint Street parcel as well as nearby residential properties located along the western Site boundary. During periods of sufficient rainfall, COPCs in surface soils may be transported in stormwater via drainage ditches or sheet flow to low-lying areas such as the isolated wetlands described in Section 4.1.1.

Because the Site is slated for redevelopment to support commercial and restricted-residential use, excavation of surface (and subsurface) soils will likely occur. Migration of COPCs through the soil column may therefore be facilitated through reworking of Site soils during future redevelopment activities. This may result in higher or lower human exposures to COPCs in surface soil, depending on where excavation/construction is to occur and the types of receptors (*e.g.*, future residents, construction workers) present in the area where soil disturbance will have occurred. The placement of imported soils, topsoil, and/or engineered structures (sidewalks, parking lots, buildings) atop Site-associated soils would limit or potentially eliminate exposure to residual COPCs in surface soil.

7.2.2 Subsurface Soil

Subsurface soil, as defined for the QHHEA, ranges from 2 ft to 12 ft bgs. Migration of COPCs in subsurface soil by natural transport processes is likely to be minimal, as these soils are not subject to weathering or storm water runoff. Under current conditions, roots from the numerous trees on the Site parcels are likely to greatly restrict transport of COPCs in subsurface soils, even in areas characterized by sloping topography, mitigating the potential that subsurface COPCs could be unearthed and transported to the surface where they could be contacted by recreational or residential receptors. Subsurface soils may interact with groundwater in areas where a shallow water table is present; in this instance, lateral and vertical movement of COPCs is a potentially important migration process in the subsurface soil matrix.

As discussed above, reworking of soils will occur during future excavation, filling, construction, and other redevelopment activities, resulting in potential redistribution of COPCs in areas where these activities occur. Human exposures to subsurface soil COPCs in these re-worked soils may be lower or higher than those potentially incurred under current conditions.

7.2.3 Groundwater

Site groundwater contains concentrations of organic and inorganic constituents above Class GA SGVs in select wells. With the exception of four locations, the detection of VOCs and SVOCs at concentrations above criteria were limited in number and generally only found in one of the two groundwater sampling events. VOCs and SVOCs were identified above criterial in both events were wells located to the east and south of the 5 Flint Street parcel. VOCs were also identified in the groundwater on the adjoining 5 and 15 Flint Street parcels and, if these concentrations are persistent, they will tend to migrate downgradient with groundwater flow, while less mobile constituents such as SVOCs will adhere to organic ligands and fine particles within the saturated soil matrix. The general direction of shallow groundwater flow is to the north within the former canal, with components potentially flowing to the northeast or northwest depending on Site location. The groundwater quality data collected do not suggest that impacted groundwater discharges to the river or other river sensitive downgradient receptors where direct human contact could occur.

Transport of Site-related VOCs in groundwater can be affected by various processes that result in reduced concentrations, including volatilization, diffusion, sorption, and degradation. Inorganic constituents in

groundwater are potentially subject to biologically and physically induced chemical reactions (*e.g.*, oxidation/reduction), which can markedly affect their mobility.

7.2.4 Soil Vapor

Volatile compounds in soil and groundwater have the potential to migrate into the interstitial air spaces within soil. Where this occurs below hypothetical future buildings or structures, VOCs originating from soil and groundwater could enter indoor air of an occupiable space and subsequently be inhaled. The potential for vapor intrusion to future buildings is governed by several factors, including target building location, COPC concentration, pressure differentials, building properties, presence and width of cracks in a building's foundation, and vadose zone soil temperature. Attenuation processes described above for groundwater can also mitigate soil vapor concentrations and potential indoor air concentrations when soil vapors discharge to a building.

Depending on the location of the future buildings, the potential presence of VOCs in Site groundwater and detection of odors and elevated PID readings in soil suggests the potential that COPC VOCs could migrate as vapors in soil and into the indoor air of a future building. Because commercial and/or residential structures will be constructed on the Site property under the current redevelopment plan, the vapor intrusion pathway is potentially complete. The New York State Vapor Intrusion Guidance provides direction to evaluate this potential (NYSDOH 2006).

7.3 POTENTIALLY EXPOSED RECEPTORS AND EXPOSURE PATHWAYS

This section identifies the potential exposure pathways through which there may be exposure to Site-related human health COPCs. An exposure pathway analysis describes the transport of a COPC from the affected medium to the exposed receptor. An exposure pathway links the potential sources, exposure media, and receptor populations to identify potential pathways of human exposure.

As defined in DER-10 (Appendix 3B), an exposure pathway has five elements:

- A source and mechanism of COPC release to the environment
- An environmental transport medium (*e.g.*, soil) for the COPC and/or mechanism of transfer from one medium to another
- A point of contact with the impacted environmental medium (exposure point)
- An exposure route at the contact point (*i.e.*, ingestion, inhalation, or dermal contact)
- A characterization of the receptor populations who may be exposed.

A pathway is considered to be complete if all five conditions listed above are satisfied for that pathway. If one or more of these conditions are not met, there is no physical means by which a receptor may be exposed to the COPCs, and the pathway is considered incomplete.

The exposure pathways considered for evaluation in this QHHEA include direct contact with surface and/or subsurface soils via ingestion, dermal contact, and inhalation of ambient vapors and fugitive dust. Direct exposure (dermal contact and incidental ingestion) to overburden groundwater is also a potentially complete exposure pathway. Potential indirect exposure via inhalation of groundwater-derived vapors in indoor air is also considered a complete pathway. Public water is available in the Site area; therefore, groundwater is not considered a current or future source of potable water. Within the City of Rochester Codes, specifically Chapter 59, Article III, Section 59-27, only potable water authorized for public use by the City of Rochester may be used for drinking purposes or in the preparation of food intended for human consumption.

The demography of local populations and land use characteristics were considered in identifying the human receptor populations potentially exposed to impacted soil, groundwater, and soil vapor at the Site. The potential

exposure pathways associated with current and reasonably anticipated future receptors are discussed in the following section. As a conservative measure, these pathways and receptors may also apply to some of the properties adjoining the Site where constituents were identified above SCOs at the Site boundaries.

7.3.1 Receptors and Exposure Pathways

The exposure pathways and receptors considered in the QHHEA are as follows:

- ***Current/future recreators:*** Recreator users may utilize the Site for walking, running, biking, picnicking, traversing the bank of the Genesee River, or other recreational activity. Adult (>18 years old) recreators are anticipated to use the Site for multiple recreational uses. Young (0-<6 years old) and older (6-<18 years old) children likely may use the Site for general play activities. Potentially complete exposure pathways for child and adult recreators include incidental ingestion of surface soil, dermal exposure to surface soil, and inhalation of fugitive dust.

  It is noted that a recreational bike trail traverses the Site. While consideration was given to a bike trail recreator-specific exposure scenario, this current and future receptor would hypothetically be exposed to only a relatively narrow corridor of land at the Site, even under the assumption that a bike trail recreator may stop somewhere on the Site, dismount, and venture away from the bike trail a limited distance. Consequently, to provide sufficient protectiveness in the QHHEA, the recreator receptor is assumed to be exposed to surface soil across the entire Site.

- ***Current/future trespasser:*** A trespasser is a person that gains access to the Site without permission and may be of adolescent (12-18 years old) or adult (>18 years old) age. The Site contains no fencing or other boundary controls along its perimeter, therefore it is feasible that trespassers may access the entirety of the Site. The Site has limited impermeable surfaces and cover materials that would mitigate exposures to trespassers. Trespassers are unlikely to dig to depths greater than two ft below the surface, therefore incidental ingestion of and dermal contact with surface soil and inhalation of fugitive dust are possible exposure routes for this receptor group.

- ***Current/future utility worker:*** Subsurface utilities at the Site (*e.g.*, sewer line along the unpaved trail) may require periodic inspection, servicing, and maintenance both currently and in the foreseeable future. The utility worker is presumed to be of adult age (>18 years old) and may be exposed to Site-related COPCs in surface and subsurface soil through incidental ingestion, dermal contact, and soil dust inhalation. Utility workers could also inhale groundwater-derived soil vapors while engaging in subsurface work activities. Since groundwater is shallow (less than 10 ft in most places), the utility worker may also be directly exposed to groundwater via incidental ingestion and dermal contact.

- ***Future commercial /industrial worker:*** Commercial/industrial workers of adult age (>18 years old) are assumed to perform a variety of work functions associated with commercial or manufacturing activities. The activities of these workers at the Site would include working within future Site building spaces, working outside in storage areas and equipment yards, and taking breaks in communal spaces and outdoor rest areas. Based on these primary occupational activities, potential exposure pathways for this receptor include inhalation of groundwater-derived VOC vapors in the interior spaces of buildings, inhalation of fugitive soil dust, and incidental ingestion of, and dermal contact with, surficial soil.

  Future store or commercial business patrons were also considered as potential receptors given the likely re-use of at least a portion of the Site for commercial purposes. The store patron receptor is presumed to be more minimally exposed than the commercial/industrial worker since this receptor would likely use engineered features (*e.g.*, roads and sidewalks) to access future stores that may be constructed on the Site. Additionally, the exposure duration and frequency of a store patron would be less than that for a worker. As such, exposures incurred by commercial/industrial workers would conservatively address those for a store patron.

- ***Future construction worker:*** A construction worker is selected as a receptor for this QHHEA due to the potential for excavation and/or construction to occur across the Site in the future. The construction worker is an adult (>18 years old), and may be exposed to Site-related surface and subsurface soil COPCs via incidental ingestion, dermal contact, and incidental inhalation of groundwater-derived ambient vapors and fugitive dust. These workers may also be directly exposed to groundwater COPCs via dermal contact and incidental ingestion with affected groundwater.
- ***Future resident:*** Evaluations of resident exposures to chemicals are typically conducted on young children and adults. Therefore, the current/future resident exposure assessment is focused on young children (<6 years old) and adults (>18 years old). Under a future use scenario, child and adult residents' exposure routes include incidental ingestion of and dermal contact with surface soil, inhalation of fugitive dust, and inhalation of groundwater-derived VOC vapors in the interior space of residential buildings. As discussed previously, the Site and surrounding area is supplied potable water from an off-Site water source, and direct exposure to groundwater is unlikely.

Facility contractors/subcontractors associated with the potential collection and handling of future environmental samples and with the potential management of impacted soil and groundwater are not considered in this QHHEA. Contractor/subcontractor activities are typically covered under a facility-specific HASP, which provides for the use of PPE and includes preventative procedures for eliminating exposure and maximizing personal safety. Therefore, Site contractors/subcontractors are not considered a viable receptor population for the QHHEA.

7.3.2 Exposure Pathway Summary

A summary of the environmental media, exposure pathways, and potential human receptors relevant to the Facility Site QHHEA are presented in Table 7-1 below.

Table 7-1 Human Exposure Pathway Analysis.

Environmental Media and Exposure Pathway	Potential Receptors	Human Exposure Assessment
Direct contact with surface soils (0 ft to 2 ft bgs) via incidental ingestion, dermal contact, inhalation of soil dust.	■ Current/future recreator ■ Current/future trespasser ■ Current/future utility worker ■ Future construction worker ■ Future commercial/industrial worker ■ Future resident	■ Current/future recreators and trespassers may be exposed to COPCs in surface soils while traversing the Site through a publicly accessible trail (*i.e.*, Genesee Riverway Trail) or by venturing off-trail into nearby vegetated areas. ■ During underground utility line inspection, servicing, and maintenance activities, current/future utility workers could encounter COPCs in surface soil. ■ Future construction activities associated with redevelopment of the Site to support residential housing are presumed to occur on the Site, potentially exposing the construction worker to COPCs in surface soil. ■ Under a hypothetical future use scenario (BOA Master Plan) exposure to surface soil by future commercial/ industrial workers and residents is possible.
Direct contact with subsurface soils (2 ft to 12 ft bgs) via incidental ingestion, dermal contact, inhalation of soil dust.	■ Current/future utility worker ■ Future construction worker	■ During underground utility line inspection, servicing, and maintenance activities, current/future utility workers could come into contact with subsurface soil through incidental ingestion, dermal contact, and inhalation of soil dust. ■ Future construction workers may be exposed to subsurface soil during excavation/construction activities that may result in exposure via incidental ingestion, dermal contact, and inhalation of soil dust.

Environmental Media and Exposure Pathway	Potential Receptors	Human Exposure Assessment
Inhalation of groundwater-derived ambient vapors	■ Current/future utility worker ■ Future construction worker	■ During utility line inspection, servicing, and maintenance activities, current/future utility workers could inhale VOC vapors migrating from shallow groundwater to outdoor air. ■ Future construction workers may be indirectly exposed to volatile COPCs migrating from shallow groundwater to outdoor air during excavation/construction activities via inhalation of VOC vapors.
Direct contact with groundwater via incidental ingestion and dermal contact.	■ Current/future utility worker ■ Future construction worker	■ Utility line inspection, servicing, and maintenance activities could occur at or below the water table. Current/future utility workers could come into contact with groundwater through dermal contact and incidental ingestion. ■ Future construction workers may be exposed to shallow groundwater during excavation/construction activities via dermal contact and incidental ingestion.
Inhalation of soil and/or groundwater-derived vapors in indoor air	■ Current/future commercial/industrial worker ■ Future resident	■ RI soil vapor data indicate that the vapor intrusion pathway could potentially be complete under the probable future use scenarios depending on the location of the building. Future commercial/industrial workers and residents could inhale vapors that may enter the interior of a commercial or residential structure from sub-slab soil gas. If identified, the potential infiltration of VOCs to the interior space of a future Site building could be mitigated by a properly designed vapor barrier or other mitigation system.

7.4 QHHEA SUMMARY

The objective of this QHHEA was to evaluate potential human exposure to Site-related human health COPCs under current and reasonably anticipated future use scenarios. The Site currently consists of inactive vacant parcels consisting primarily of vegetated woodlands and a recreational bike trail. The Site is currently the subject of remedial investigation which has identified Site-related human health COPCs in surface soil, subsurface soil, soil vapor, and shallow groundwater that could be contacted by select human receptor populations under current and/or reasonably anticipated future land use scenarios.

Recreators, trespassers, and utility workers represent the current receptor exposure scenarios for this QHHEA. Commercial/industrial workers, construction workers, recreators, residents, trespassers, and utility workers represent possible future receptors. Under current conditions, direct exposure to COPCs in surface soil by recreators, trespassers, and utility workers is possible. Only utility workers are potentially exposed to subsurface soils under the current scenario.

Future commercial/industrial workers, construction workers, residents, trespassers, recreators, and utility workers are potentially exposed to COPCs in surface soil. Future utility workers and construction workers are potentially exposed to COPCs in surface and subsurface soil and shallow groundwater. Commercial/industrial workers and residents may also be exposed indirectly to volatile COPCs in groundwater through the vapor intrusion pathway based on the RI groundwater and soil vapor investigations. A properly designed vapor barrier or other vapor mitigation system could be installed to mitigate potential infiltration of VOCs to the interior space of a future building, if needed. Additionally, redevelopment of the Site that supports human occupancy in future buildings would likely entail construction not only of the buildings themselves, but also the installation of asphalt lots, sidewalks, and landscaping/vegetative cover materials, all of which will eliminate or reduce future soil exposures.

8. FISH AND WILDLIFE RESOURCE IMPACT ANALYSIS

A Fish and Wildlife Resource Impact Analysis (FWRIA) was developed for this Site in accordance with Part 1 of the FWRIA process as described in NYSDEC's DER-10 Section 3.10.1 (Part 1 – Resource Characterization; NYSDEC 2010). The objective of the FWRIA-Part 1 for the Site is to describe the terrestrial and aquatic environments in the study area in terms of topography, covertypes, fish and wildlife resources and their value, and to identify the actual or potential impacts to fish and wildlife resources from potential exposure to contaminants of ecological concern (COECs). The following presents the conclusions resulting from the FWRIA process. The full FWRIA is included as **Appendix S.**

The Site is located in an urban setting and is not a significant habitat for terrestrial wildlife. Due primarily to the surrounding residential, commercial, industrial, institutional and utility right-of-way land uses, the Site is not part of a larger corridor that is linked to other significant wildlife habitats. However, the Site likely offers a refuge to transient wildlife (primarily birds) as they migrate along the Genesee River corridor and utilize the forested Site areas. The ecological receptors present within the study area include floral and faunal terrestrial species that inhabit, forage, or otherwise require a mix of forested and open habitats for their life requirements. Terrestrial plants, soil invertebrates, some herptiles (frogs, turtles, snakes), and mammals are documented within the study area from prior investigations (Shumaker, 2017), and were observed during RI field activities. Additionally, transient birds such as songbirds, buteos (*e.g.*, hawks), herons and some shorebird species may utilize the site These organisms are potentially exposed to affected surface soil through direct contact, incidental ingestion, and/or consumption of affected prey.

Semi-aquatic birds may utilize the Site for roosting; however, it is likely that most ecological receptors of the Genesee River may be unable to access the Site due to the stone wall present along the Site boundary with the river. Excepting the intermittent presence of surface water within delineated emergent and scrub-shrub wetlands, aquatic pathways are not present on the Site. The presence of the trail/flood-protection berm and the wall along the shoreline likely prohibit surface runoff from flowing directly from the Site to the river.

Sheens and petroleum odors have been observed in shallow groundwater wells at the Site. However, these observations were typically observed at wells located in upland areas and shallow groundwater does not appear to be migrating directly toward the river thereby minimizing the potential for impacts to off-Site aquatic life. However, if the wall is to be removed, further evaluation of shallow groundwater flow and quality is recommended to reevaluate the potential for future impacts to ecological receptors of the river.

The most significant wildlife exposure pathway is potentially through direct contact, incidental ingestion and/or bioaccumulation of sporadic COECs in shallow soil. SVOCs (acenaphthene, benzo(a)pyrene, di-n-butyl phthalate, and fluorene), pesticides (4-4-DDE, 4-4-DDT, and dieldrin), PCBs and metals (aluminum, antimony, arsenic, barium, cadmium, calcium, chromium, cobalt, copper, lead, mercury, nickel, and zinc) were detected in shallow soils at concentrations that exceed SCOs for the protection of ecological resources.

Although there is currently a potential exposure pathway for ecological receptors to COECs in surface and shallow soil, these exposures would likely be mitigated by the surface features that will be integrated into the redevelopment components identified in the BOA Master Plan for the Site.

9. SUMMARY AND CONCLUSIONS

The RI of a portion of the former Vacuum Oil Refinery located at 1, 13, 31, 69, and 75 Cottage Street; 100 Riverview Place; 102 Violetta Street; and 1320 S. Plymouth Avenue, encompassing approximately 15.4-acres, was conducted between January 2016 and September 2017 on behalf of the City.

The former Vacuum Oil Refinery initially consisted of an approximate 40-acre parcel spanning both north and south of Flint Street. It was subsequently subdivided into several parcels.

RI activities were implemented in several phases at the Site. Investigation activities included the evaluation of surface soil, subsurface soil, groundwater, and soil vapor.

Field activities consisted of:

- Soil characterization conducted through the collection of surface soil (Section 3.3.3), surface cover soil (Section 3.3.4) and subsurface soil (Section 3.3.5)
- Groundwater characterization conducted through the installation of overburden and bedrock groundwater monitoring wells (Section 3.3.6), groundwater monitoring well development (Section 3.3.6), collecting and analyzing groundwater samples from the groundwater monitoring wells (Section 3.3.6), and groundwater elevation monitoring (Section 3.3.6)
- Soil vapor characterization conducted through the installation of sample points (Section 3.3.8), collecting, and analyzing soil vapor samples from the sample locations (Section 5.2).

Based upon the investigation completed, the following conclusions have been developed and presented in the sections below.

9.1 SUBSURFACE STRUCTURES

In addition to identifying the nature and extent of contamination at the Site, several objectives of the RI focused on the assessment of subsurface structures that may influence distribution and/or migration of constituents of concern. These include various walls or concrete structures observed at the surface during previous investigation as well as subsurface utilities previously identified within the canal on 1320 Plymouth Avenue parcel.

Concrete structures observed at the surface along the eastern edge of the former Canal were originally thought to be walls of the former canal. Further research indicates that the canal walls were reportedly constructed of wood and these concrete walls are support structures associated with the former railroad.

An additional concrete wall is present along the western edge of the Genesee River. As discussed previously, research conducted as part of the river wall reconstruction project coupled with groundwater elevation data collected as part of the RI suggests that these walls extend to bedrock between the north end of the Site and the pedestrian bridge to the south. This wall appears to limit the hydraulic connection between the Genesee River and the groundwater at the Site.

As described in Section 3.1.3, a former Monroe County Pure Waters (MCPW) reinforced-concrete sewer line was identified within and adjacent to the west side of the former canal adjacent to an existing MCPW sewer line, and a former waterline was identified on the east side of the former canal (associated with a former Vacuum Oil refinery hydrant system), during the pre-investigation activities. A product transfer line was initially thought to have been installed at the base of the former canal on the Site; however, investigation activities conducted to locate utilities did not identify the presence of this line and further information suggests that it was located on the properties to the north of the Flint Street. Groundwater elevation data collected during the RI suggest that there may be a component of flow towards the north within the former canal which may be influenced by the utility lines and/or the canal backfill.

9.2 SURFACE SOIL

COCs in surface soil consist of PAHs and arsenic. The PAHs are scattered across the Site. The highest concentration of the individual PAHs is associated with a single surface soil sample, SS-141 which was located in an area where a parts cleaner and metal shavings were present. The predominant location of samples where arsenic was present above Unrestricted Use, Residential Use, and Restricted-Residential Use SCOs is on the southern portion of the Site (south of the adjoining 5 Flint Street parcel). Arsenic was observed above SCOs in up to 37% of the surface soil samples although the maximum concentration was much less than that observed in the subsurface soil samples suggesting that the arsenic may be attributable to residuals from materials such as crude oil, coal ash, cinders, pressure-treated railroad timbers or potentially pesticide use at the Site as these materials would have typically been placed or distributed at or near the ground surface.

Mercury was also detected above the Unrestricted Use SCOs in more than half of the samples analyzed; however, only five samples exceeded the Residential Use and Restricted Residential Use SCOs. Although there are no field descriptions of the surface soil samples, review of the summary statistics table (**Table 7A**) indicates that mercury exceeded the Unrestricted Use SCOs in surface soil in 52% of the samples as compared to 21% of the subsurface soil samples.

9.3 SURFACE COVER

COCs in surface cover consist of PAHs and arsenic. The PAHs are scattered across the Site. The highest concentration of the individual PAHs is associated with a single surface soil sample, SS-141 which was located in an area where a parts cleaner and metal shavings were present. The predominant location of samples where arsenic was present above Unrestricted Use, Residential Use, and Restricted-Residential Use SCOs is on the southern portion of the Site (south of the adjoining 5 Flint Street parcel). Arsenic was observed above SCOs in up to 51% of the surface cover samples although the maximum concentration was much less than that observed in the subsurface soil samples suggesting that the arsenic may be attributable to residuals from crude oil, coal ash, cinders, pressure-treated railroad timbers, or potential pesticide use at the Site, as these materials would have typically been placed or distributed at or near the ground surface.

Mercury was also detected above the Unrestricted Use SCOs in more than half of the samples analyzed; however, only five samples exceeded the Residential Use and Restricted Residential Use SCOs. Review of the summary statistics table (**Table 7B**) indicates that mercury exceeded the Unrestricted SCOs in surface soil in 60% of the samples as compared to 21% of the subsurface soil samples.

9.4 SUBSURFACE SOIL

A limited number of VOCs were detected above Unrestricted Use and Residential Use SCOs in subsurface soil samples and the frequency and concentrations detected did not suggest that specific VOCs would be considered a COC at the site. However, there are some localized areas where elevated VOCs are present. Additionally, PID readings observed in soil borings completed on both sides of the adjoining 5 Flint Street parcel were generally elevated. These elevated PID values coupled with odors, sheens, and the lack of quantified VOC concentrations suggests that some type of non-target petroleum VOCs are present within the soils that are potentially degradation byproducts or residual VOC compounds.

Similar to the surface soil samples, SVOCs detected in the subsurface soil samples above SCOs were PAH compounds. The primary PAH compounds identified as COCs are located on the 13 Cottage Street parcel which occupies the south-central portion of the Site. The location of the PAHs above SCOs do not correlate to the location of observations of odors and sheens which are concentrated in the northern portion of the 1320 S. Plymouth Avenue parcel between the adjoining 5 Flint Street and adjoining 15 Flint Street parcels and along the east side of the adjoining 5 Flint Street parcel. This suggests that the PAH exceedances are associated with the coal and ash observed within the samples rather than petroleum residuals suggested by the odors, sheens, and elevated PID reading.

Arsenic and mercury were the most prevalent metals detected above SCOs in subsurface soil although the frequency of exceedances was less than that observed in surface soil. The occurrences of the exceedances were generally associated with the presence of coal, ash, or cinders and some exhibited petroleum odors.

Odors, staining, and sheens were noted in many of the subsurface soil samples primarily in the north end of the canal, both sides of the adjoining 5 Flint Street parcel and on the 13 Cottage Street parcel. The odors were noted from the surface to the base of the boring in most locations. The presence of odors was noted to begin deeper in the borings located on the east side of the Site and closer to the river suggesting some horizontal migration of non-quantifiable organic compounds.

The potential source(s) of these compounds may be from historic use of the Site and surrounding properties as described in Sections 2.2 and 2.2.1.

Further objectives for the excavation of test pits included the following;

- Documentation of the depth and condition of former canal walls.
  - » Former canal walls were not observed during implementation of the RI.
- Evaluation of potential contaminant migration across/under the vertical concrete walls observed on-Site (most likely possible concrete retaining walls associated with the former railroad).
  - » A discussion regarding potential contaminant migration is in the CSM discussed in Section 6.
- Identification of pipelines within the footprint of the former canal on the 1320 S. Plymouth Avenue parcel.
  - » Pipelines were not observed during implementation of the RI.

9.5 GROUNDWATER

VOCs and SVOCs were only observed above criteria in one of the two sampling events and therefore, they do not suggest the presence of a groundwater plume. However, odors noted at several locations suggest the presence of non-target and/or weathered VOCs or SVOCs. The lack of a groundwater plume is consistent with the sporadic occurrence of VOCs and SVOCs above SCOs in the soils.

Arsenic was detected in the groundwater above the Class GA groundwater standard in seven overburden wells located on the north end of the 1320 S. Plymouth Avenue parcel between the adjoining 5 Flint Street and adjoining 15 Flint Street parcels and the east side of the adjoining 5 Flint Street parcel. These exceedances do not correlate to the locations of soil samples with elevated arsenic concentration. However, arsenic was also noted in the groundwater on the adjoining 5 Flint Street and 15 Flint Street parcels based on the findings of the RI conducted by Ravi (Ravi, 2016a).

The potential source(s) of these compounds may be from historic use of the Site and surrounding properties as described in Sections 2.2 and 2.2.1.

9.6 SOIL VAPOR

As described in Section 3.3.8, soil vapor samples were collected from eight locations. Analytical results are presented on **Tables 12A-12C**. The primary objective of the soil vapor sampling was to assess potential migration of vapors from the Site. A total of 23 compounds (listed in Section 5.2.1) were detected at one or more of the eight soil vapor sampling locations at concentrations below 10 µg/m^3. The purpose of the soil vapor sampling was to evaluate the potential for vapor intrusion. The low concentrations of constituents detected in soil vapor suggest the probability for vapor intrusion into existing off-Site buildings is low. Furthermore, the types of compounds detected are petroleum hydrocarbons such as benzene, toluene, xylene, hexane, and trimethylbenzenes and studies have shown that these compounds would be expected to biodegrade in the unsaturated zone through the actions of microorganisms found naturally in soil (USEPA OSWER, 2015).

9.7 QHHEA

The QHHEA completed for this Site concluded that under current conditions there are complete exposure pathways to human receptors to COPCs in soil and groundwater at this site. Recreators and trespassers would be exposed to surface soils while the exposure to subsurface soil and groundwater would be limited to utility workers. Under a future use scenario, the surface exposures would be mitigated through construction of surface covers associated with the redevelopment. Construction workers and utility workers could be exposed to COPCs within the subsurface soil and groundwater. Vapor intrusion is not a complete exposure pathway under current conditions as there are no on-site structures. The potential for vapor intrusion to structures constructed on the property in the future would be dependent on location and can be mitigated by the use of properly designed vapor barriers or vapor mitigation systems.

9.8 FWRIA

Although there is currently a potential exposure pathway for ecological receptors to COECs in surface and shallow soil, these exposures would likely be mitigated by the surface features that will be integrated into the redevelopment components identified in the BOA Master Plan for the Site.

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Tables

Table 1 - Sample Analysis Summary
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

						Laboratory Analysis						
Field Event	Matrix	Sample ID	Date Collected	Sample Time	Sample Interval (ft bgs)	8260 VOCs + 10 TICs	8270 SVOCs + 20 TICs	TAL Metals and Cyanide 6010, 7470, 7471, 9012	PCBs 8082	Pesticides 8081	TO-15
Subsurface Soil Sampling	*Soil*	TP-100-2-4-012116	1/21/2016	10:45	2-4'			X	X	X	
		TP-101-2-4-012116	1/21/2016	14:00	2-4'	X	X				
		TP-102-1-3-012216	1/22/2016	10:30	1-3'		X	X			
		TP-103-0-2-012116	1/21/2016	15:00	0-2'	X	X	X	X	X	
		TP-104-0-2-012216	1/22/2016	9:15	0-2'	X	X	X	X		
		TP-105-4.5-6.5-012216	1/22/2016	11:30	4.5-6.5'		X	X	X	X	
		TP-106-1.5-4-012216	1/22/2016	13:15	1.5-4'	X	X	X			
		TP-107-0-2-012216	1/22/2016	14:30	0-2'	⊕	X	X	X		
		TP-108-0-1.5-012516	1/25/2016	13:20	0-1.5'	X	X	X	X	X	
		TP-109-4-4.5-012516	1/25/2016	10:40	4-4.5'	X	X		X		
		TP-110-1.5-2-012516	1/25/2016	11:32	1.5-2'	X	X	X			
		SB-TP-111-0-0.6-082117	8/21/2017		0-0.6'		X	X			
		TP-112-3.5-4-012516	1/25/2016	14:10	3.5-4'	X	X	X	X	X	
		TP-113-1.5-2-012516	1/25/2016	15:04	1.5-2'	X	X	X	X	X	
		TP-114-4-5-012616	1/26/2016	9:09	4-5'		X	X	X	X	
		TP-115-4-5-012616	1/26/2016	9:59	4-5'		X	X			
		TP-116-7-8-011516	1/15/2016	13:45	7-8'	X		X	X		
		TP-117-1.5-2-011516	1/15/2016	11:31	1.5-2'	X	X		X	X	
		TP-118-3.5-4-011516	1/15/2016	10:24	3.5-4'	X	X	X			
		TP-119-5-6-012616	1/26/2016	10:40	5-6'	X	X		X		
		TP-120-4-4.5-012616	1/26/2016	13:25	4-4.5'	X	X	X	X		
		TP-121-8-8.5-012616	1/26/2016	11:45	8-8.5'	X	X				
		TP-122-7-8-012716	1/27/2016	9:08	7-8'	X	X		X		
		TP-123-4.5-5-012616	1/26/2016	14:24	4.5-5'	X	X	X	X	X	
		TP-124-7.5-8-012616	1/26/2016	15:10	7.5-8'	X	X		X		
		TP-125-3-4-012716	1/27/2016	10:58	3-4'	X	X	X			
		TP-126-2-3-012716	1/27/2016	10:00	2-3'			X	X		
		TP-127-8-8.5-012716	1/27/2016	11:50	8-8.5'	X	X	X	X	X	
		TP-128-5-6-012716	1/27/2016	14:07	5-6'	X	X			X	
		TP-129-4-4.5-012816	1/28/2016	14:00	4-4.5'	X	X		X		
		TP-130-9.5-10-012816	1/28/2016	9:28	9.5-10'	X		X	X	X	
		SB-TP-131-5-7-031516	3/15/2016	11:47	5-7'	X	X	X	X		
		TP-132-3-3.5-012816	1/28/2016	10:24	3-3.5'	X	X	X	X	X	
		TP-133-6.5-7-012716	1/27/2016	14:57	6.5-7'	X	X	X			
		TP-134-5-6-012816	1/28/2016	11:28	5-6'	X	X	X		X	
		TP-135-2-3-012916	1/29/2016	12:17	2-3'			X	X	X	
		TP-136-8-8.5-012916	1/29/2016	13:02	8-8.5'	X	X				
		TP-137-9.5-10-012916	1/29/2016	13:40	9.5-10'	X	X	X	X	X	
		TP-138-5-6-011516	1/15/2016	15:00	5-6'	X	X		X		
		SB-TP-139-12-14-030716	3/7/2016	12:30	12-14'	X	X	X	X	X	
		TP-140-2.5-3-011416	1/14/2016	14:08	2.5-3'	X	X	X	X		
		TP-141-4-5-011416	1/14/2016	13:04	4-5'	X	X	X	X		
		TP-142-0-1-011516	1/15/2016	9:24	0-1'		X	X	X		
		TP-143-4-6.5-011416	1/14/2016	9:55	4-6.5'	X	X	X	X	X	
		SB-TP-144-4-6-030916	3/9/2016	12:36	4-6'	X	X		X		
		TP-145-5-6-012916	1/29/2016	14:35	5-6'						
		TP-146-6-8-011316	1/13/2016	14:56	6-8'			X			
		SB-TP-147-16-18-031016	3/10/2016	9:04	16-18'	X	X	X	X		
		TP-148-2-2.5-012516	1/25/2016	9:25	2-2.5'	X	X	X		X	
		TP-149-6-8-011416	1/14/2016	11:00	6-8'		X	X	X	X	
		TP-150-4-6-011316	1/13/2016	13:40	4-6'	X		X	X		
		TP-151-2-4-011316	1/13/2016	12:15	2-4'			X	X		
		TP-152-2.5-3-012916	1/29/2016	10:20	2.5-3'	X	X		X		
		TP-137-9.5-10-012916-MS	1/29/2016	13:40	9.5-10'	X	X	X	X	X	
		TP-137-9.5-10-012916-MSD	1/29/2016	13:40	9.5-10'	X	X	X	X	X	
		TP-141-4-5-011416-MS	1/14/2016	13:04	4-5'	X	X	X	X		
		TP-141-4-5-011416-MSD	1/14/2016	13:04	4-5'	X	X	X	X		
		TP-109-4-4.5-012516-MS	1/25/2016	10:40	4-4.5'		X		X		

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Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

						Laboratory Analysis						
Field Event	Matrix	Sample ID	Date Collected	Sample Time	Sample Interval (ft bgs)	8260 VOCs + 10 TICs	8270 SVOCs + 20 TICs	TAL Metals and Cyanide 6010, 7470, 7471, 9012	PCBs 8082	Pesticides 8081	TO-15
Subsurface Soil Sampling	Soil	TP-109-4-4.5-012516-MSD	1/25/2016	10:40	4-4.5'		X		X		
		DUP-008-012116	1/21/2016	---	0-2'	X	X	X	X	X	
		DUP-009-012616	1/26/2016	---	4-4.5'	X	X	X	X		
		DUP-010-012816	1/28/2016	---	4-4.5'		☐		X		
		~~FB-TP-XXX-date~~				~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	
		~~FB-TP-XXX-date~~				~~X~~	~~X~~	~~X~~	~~X~~		
		~~FB-TP-XXX-date~~					~~X~~		~~X~~		
		TB-TP-011316	1/13/2016	---	NA	X					
		TB-TP-011416	1/14/2016	---	NA	X					
		TB-TP-011516	1/15/2016	---	NA	X					
		TB-TP-012116	1/21/2016	---	NA	X					
		TB-TP-012216	1/22/2016	---	NA	X					
		TB-TP-012516	1/25/2016	---	NA	X					
		TB-TP-012616	1/26/2016	---	NA	X					
		TB-TP-012716	1/27/2016	---	NA	X					
		TB-TP-012816	1/28/2016	---	NA	X					
		TB-TP-012916	1/29/2016	---	NA	X					
		SB-100-9-10-031016	3/10/2016	11:25	9-10'	X	X	X	X		
		SB-101-12.5-14-031016	3/10/2016	12:24	12.5-14'	X	X	X	X	X	
		SB-102-4.0-6.0-082217	8/22/2017		4-6'	☐					
		SB-102-4.0-6.0-090717	9/7/2017		4-6'	X					
		SB-103-4.8-5.8-030416	3/4/2016	10:51	4.8-5.8'	X	X	X	X	X	
		SB-104-12-13-030316	3/3/2016	15:15	12-13'	X	X	X			
		SB-105-11-12-031016	3/10/2016	13:37	11-12'	X	X	X	X	X	
		SB-106-5-6-030316	3/3/2016	14:20	5-6'	X	X	X	X		
		SB-107-6-7-030316	3/3/2016	13:11	6-7'	X	X	X	X		
		SB-108-5.8-6.4-030316	3/3/2016	12:20	5.8-6.4'	X	X	X	X		
		SB-109-8-9-030216	3/2/2016	15:15	8-9'	X	X	X			
		SB-110-1.5-2.5-031016	3/10/2016	14:35	1.5-2.5'	X					
		SB-111-6-7-031016	3/10/2016	15:00	6-7'		X	X	X	X	
		SB-112-0.5-2.0-082217	8/22/2017		0.5-2'	X	X	X	X	X	
		SB-112-0.5-2.0-090717	9/7/2017		0.5-2'	☐					
		SB-113-1-2-031416	3/14/2016	14:18	1-2'	X	X	X	X	X	
		SB-113-4.5-6.5-031416	3/14/2016	9:08	4.5-6.5'	X	X	X	X	X	
		SB-114-2-2.5-030216	3/2/2016	13:35	2-2.5'	X	X	X	X		
		SB-115-5.6-6.7-030216	3/2/2016	13:20	5.6-6.7'	X	X	X			
		SB-116-5.7-6.5-030216	3/2/2016	10:59	5.7-6.5'	X	X	X	X	X	
		SB-117-5.9-7-030216	3/2/2016	10:12	5.9-7'	X	X	X	X		
		SB-118-7-7.4-030216	3/2/2016	8:52	7-7.4'	X	X		X		
		SB-119-4.5-6-031116	3/11/2016	9:10	4.5-6'	X	X	X	X		
		SB-120-6.5-7.4-031416	3/14/2016	11:19	6.5-7.4'	X	X		X		
		SB-121-2-2.5-031416	3/14/2016	12:22	2-2.5'	X	X	X	X		
		SB-122-7-8-022916	2/29/2016	14:30	7-8'	X	X	X	X		
		SB-123-6-7-031416	3/14/2016	13:03	6-7'			X	X		
		SB-124-8-9-031116	3/11/2016	9:50	8-9'	X	X				
		SB-125-5-7-031416	3/14/2016	13:50	5-7'	X	X	X	X		
		SB-126-1.5-2-031516	3/15/2016	8:45	1.5-2'			X	X		
		SB-127-10-11-031116	3/11/2016	10:45	10-11'	X	X	X			
		SB-128-6-6.5-031516	3/15/2016	9:28	6-6.5'				X		
		SB-129-4.6-6.6-031516	3/15/2016	10:05	4.6-6.6'	X	X	X	X	X	
		SB-130-4-4.5-042216	4/22/2016	12:44	4-4.5'	X	X		X		
		SB-131-8-10-031116	3/11/2016	11:41	8-10'	X	X	X	X		
		SB-132-4.5-5-041516	4/15/2016	8:45	4.5-5			X	X		
		SB-133-4.5-5-041416	4/14/2016	14:40	4.5-5'	X	X	X	X		
		SB-134-10-11-031516	3/15/2016	10:57	10-11'	X	X	X	X	X	
		SB-135-8-9-041516	4/15/2016	11:53	8-9'	X	X	X	X	X	
		SB-136-5-7-031116	3/11/2016	12:30	5-7'	X	X	X	X	X	
		SB-137-6-8-031116	3/11/2016	13:30	6-8'	X	X	X	X		
		SB-138-4-4.8-030116	3/1/2016	15:15	4-4.8'	X	X	X	X	X	
		SB-139-8-9.7-030116	3/1/2016	14:50	8-9.7'	X	X		X		
		SB-141-7-8-030116	3/1/2016	12:46	7-8'	X	X	X	X		
		SB-142-11-12-030116	3/1/2016	11:20	11-12'	X	X	X	X		
		SB-143-3-4-030116	3/1/2016	9:56	3-4'	X	X	X	X		
		SB-144-1-1.8-030116	3/1/2016	9:00	1-1.8'	X	X	X	X	X	
		SB-145-25.4-26.1-030916	3/9/2016	10:33	25.4-26.1'	X	X	X	X		
		SB-146-6-8-030216	3/2/2016	12:00	6-8'	X	X	X		X	
		SB-147-10-11.4-042216	4/22/2016	9:25	10'-12'	X	X	X	X		
		SB-148-8-9.2-040716	4/7/2016	9:49	8-9.2'	X	X	X	X	X	

Table 1 - Sample Analysis Summary
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

						Laboratory Analysis						
Field Event	Matrix	Sample ID	Date Collected	Sample Time	Sample Interval (ft bgs)	8260 VOCs + 10 TICs	8270 SVOCs + 20 TICs	TAL Metals and Cyanide 6010, 7470, 7471, 9012	PCBs 8082	Pesticides 8081	TO-15
Subsurface Soil Sampling	Soil	SB-149-4-5-040616	4/6/2016	14:23	4-5'	X	X	X			
		SB-149-10-11-040616	4/6/2016	14:45	10-11'	X	X	X			
		SB-150-3-4-022916	2/29/2016	13:08	3-4'	X	X	X	X		
		SB-151-16.6-17.2-030316	3/3/2016	9:20	16.6-17.2'			X			
		SB-152-6-7-030316	3/3/2016	10:05	6-7'	X	X	X	X		
		SB-154-15-17-030316	3/3/2016	11:35	15-17'	X	X	X	X	X	
		SB-155-2-3-031016	3/10/2016	10:00	2-3'		X		X		
		SB-156-16-17-030916	3/9/2016	15:08	16-17'	X	X	X	X		
		SB-157-20.5-21.5-030916	3/9/2016	13:48	20.5-21.5'	X	X	X		X	
		SB-158-16-17.5-030816	3/8/2016	15:20	16-17.5'	X	X	X	X		
		SB-159-17-18-030916	3/9/2016	9:03	17-18'	X	X	X	X		
		SB-160-4-5-030916	3/9/2016	11:44	4-5'	X	X	X	X	X	
		SB-161-24-26-030816	3/8/2016	14:10	24-26'		X	X	X	X	
		SB-162-19-20-030816	3/8/2016	12:19	19-20'	X	X	X			
		SB-163-13.5-16-030816	3/8/2016	11:15	13.5-16'	X	X	X	X		
		SB-164-4-5.9-030716	3/7/2016	14:15	4-5.9'	X	X	X			
		SB-165-22-23-030716	3/7/2016	11:30	22-23'	X	X	X			
		SB-166-13-15-030816	3/8/2016	10:05	13-15'	X	X	X	X		
		SB-167-18-19-030716	3/7/2016	10:15	18-19'	X	X		X	X	
		SB-168-16-17-030816	3/8/2016	9:05	16-17'	X	X	X		X	
		SB-169-16-17-030716	3/7/2016	9:20	16-17'	X	X	X		X	
		SB-170-16-16.8-022916	2/29/2016	11:15	16-16.8'	X	X	X			
		SB-171-15-16-022916	2/29/2016	9:45	15-16'	X		X	X		
		SB-172-8.8-9.6-082217	8/22/2017		8.8-9.6'	☐	X	X	X	X	
		SB-172-8.5-9.7-090717	9/7/2017		8.5-9.7'	X					
		SB-173-12-15-082117	8/21/2017		12-15'	☐	X	X	X	X	
		SB-173-12-15-090717	9/7/2017		12-15'	X					
		SB-174-12.5-15-082117	8/21/2017		12.5-15'	☐	X	X	X	X	
		SB-174-12.5-15-090717	9/7/2017		12.5-15'	X					
		SB-175-21-21.4-030716	3/7/2016	15:10	21-21.4'		X	X			
		SB-176-6-7-041216	4/12/2016	10:42	6-7'	X	X	X	X		
		SB-177-5.5-6.5-031416	3/14/2016	10:40	5.5-6.5'		X	X			
		SB-178-1.5-2-031416	3/14/2016	10:01	1.5-2'		X	X			
		SB-179-6.2-7-030416	3/4/2016	10:00	6.2-7'			X	X		
		SB-180-14-14.7-030416	3/4/2016	9:07	14-14.7'			X	X		
		OVR-100-6-7-042216	4/22/2016	14:07	6-7'	X	X	X	X		
		OVR-107-10-11-041216	4/12/2016	13:20	10-11'	X	X	X	X		
		OVR-108-4.1-5.4-041316	4/13/2016	9:15	4.1-5.4'	X	X	X	X		
		OVR-109-10-11.8-041116	4/11/2016	12:10	10-11.8'	X	X	X	X		
		OVR-116-10-11.9-040116	4/1/2016	12:03	10-11.9'	X	X	X	X		
		OVR-117-7-7.6-040716	4/7/2016	13:00	7-7.6'	X	X	X	X		
		OVR-118-0.5-1-041316	4/13/2016	11:30	0.5-1	X	X	X	X		
		DUP-001-030716	3/7/2016	---		X	X	X	X	X	
		DUP-002-031416	3/14/2016	---		X	X	X	X	X	
		DUP-003-030216	3/2/2016	---		X	X	X	X	⊕	
		DUP-004-041116	4/11/2016	---		X	X	X	X		
		~~FB-SB-XXX-date~~				~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	
		~~FB-SB-XXX-date~~				~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	
		FB-OVR-107-041216	4/12/2016	14:10	NA	X	X	X	X		
		~~FB-SB-XXX-date~~				~~X~~	~~X~~	~~X~~	~~X~~		
		SB-125-5-7-031416-MS/MSD	3/14/2016	13:50	5-7'	X	X	X	X		
		SB-154-15-17-030316-MS/MSD	3/3/2016	11:35	15-17'	X	X	X	X	X	
		SB-163-13.5-16-030816-MS/MSD	3/8/2016	11:15	13.5-16'	X	X	X	X		
		SB-135-8-9-041516-MS	4/15/2016	11:53	8-9'	X	X	X	X	X	
		SB-135-8-9-041516-MSD	4/15/2016	11:53	8-9'	X	X	X	X	X	
		TB-SB-022916	2/29/2016	---	NA	X					
		TB-SB-030116	3/1/2016	---	NA	X					
		TB-SB-030216	3/2/2016	---	NA	X					
		TB-SB-030316	3/3/2016	---	NA	X					
		TB-SB-030416	3/4/2016	---	NA	X					
		TB-SB-030716	3/7/2016	---	NA	X					
		TB-SB-030816	3/8/2016	---	NA	X					
		TB-SB-030916	3/9/2016	---	NA	X					
		TB-SB-031016	3/10/2016	---	NA	X					
		TB-SB-031116	3/11/2016	---	NA	X					
		TB-SB-031416	3/14/2016	---	NA	X					
		TB-SB-031516	3/15/2016	---	NA	X					
		TB-SB-040116	4/1/2016	---	NA	X					
		TB-SB-040616	4/6/2016	---	NA	X					
		TB-SB-040716	4/7/2016	---	NA	X					
		TB-SB-041116	4/11/2016	---	NA	X					
		TB-SB-041216	4/12/2016	---	NA	X					
		TB-SB-041316	4/13/2016	---	NA	X					
		TB-SB-041416	4/14/2015	---	NA	X					

Table 1 - Sample Analysis Summary
Portion of Former Vacuum Oil Refinery
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Site No. C828190

						Laboratory Analysis						
Field Event	Matrix	Sample ID	Date Collected	Sample Time	Sample Interval (ft bgs)	8260 VOCs + 10 TICs	8270 SVOCs + 20 TICs	TAL Metals and Cyanide 6010, 7470, 7471, 9012	PCBs 8082	Pesticides 8081	TO-15
Subsurface Soil Sampling	*Soil*	TB-SB-041516	4/15/2016	---	NA	X					
		TB-SB-042216	4/22/2016	---	NA	X					
		TB-SB-082117	8/21/2017		NA	X					
		TB-082217	8/22/2017		NA	X					
		TB-SB-090717	9/7/2017		NA	X					
Investigative-Derived Waste	*Various*	IDW-001-040116	4/1/2016	15:20	NA						
		IDW-002-042916	4/29/2016	10:00	NA						
		ID-003-042916	4/29/2016	11:00	NA						
		IDW-004-090216	9/2/2016	8:28	NA						
		TB-IDW-040116	4/1/2016	---	NA						
		TB-IDW-042916	4/29/2016	---	NA						
Monitoring Well Sampling	*Groundwater*	OVR-100-082316	8/23/2016	14:25	NA	X	X	X	X		
		OVR-100-121316	12/13/2016	10:25	NA	X	X	X	X		
		OVR-101-082416	8/24/2016	9:03	NA	X	X	X	X		
		OVR-101-121316	12/13/2016	8:55	NA	X	X	X	X		
		OVR-102-081516	8/15/2016	14:50	NA	X	X	X	☐		
		OVR-102-120516	12/5/2016	12:09	NA	X	X	X	X		
		OVR-103-082216	8/22/2016	12:55	NA	X	X	X	X		
		OVR-103-120916	12/9/2016	13:40	NA	X	X	X	X		
		OVR-104-081816	8/18/2016	17:00	NA	X	X	X	X		
		OVR-104-120816	12/8/2016	12:33	NA	X	X	X	X		
		OVR-105-081516	8/15/2016	12:49	NA	X	X	X	X		
		OVR-105-120516	12/5/2016	13:30	NA	X	X	X	X		
		OVR-106-082216	8/22/2016	17:58	NA	X	X	X	X		
		OVR-106-121216	12/12/2016	12:15	NA	X	X	X	X		
		OVR-107-082316	8/23/2016	8:45	NA	X	X	X	X		
		OVR-107-121216	12/12/2016	11:15	NA	X	X	X	X		
		OVR-108-082216	8/22/2016	14:40	NA	X	X	X	X		
		OVR-108-121216	12/12/2016	9:05	NA	X	X	X	X		
		OVR-109-082216	8/22/2016	14:10	NA	X	X	X	X		
		OVR-109-121216	12/12/2016	9:56	NA	X	X	X	X		
		OVR-110-081616	8/16/2016	10:16	NA	X	X	X	X		
		OVR-110-120516	12/5/2016	14:18	NA	X	X	X	X		
		OVR-111-082216	8/22/2016	10:20	NA	X	X	X	X		
		OVR-111-120916	12/9/2016	12:10	NA	X	X	X	X		
		OVR-112-081916	8/19/2016	11:10	NA	X	X	X	X		
		OVR-112-120816	12/8/2016	14:45	NA	X	X	X	X		
		OVR-113-081916	8/19/2016	10:22	NA	X	☐	X	☐		
		OVR-113-120816	12/8/2016	14:42	NA	X	X	X	X		
		OVR-114-081616	8/16/2016	10:00	NA	X	X	X	X		
		OVR-114-120516	12/5/2016	16:00	NA	X	X	X	X		
		OVR-115-081616	8/16/2016	14:00	NA	X	X	X	X		
		OVR-115-120616	12/6/2016	9:45	NA	X	X	X	X		
		OVR-116-081616	8/16/2016	13:48	NA	X	X	X	X		
		OVR-116-120616	12/6/2016	10:55	NA	X	X	X	X		
		OVR-117-082416	8/24/2016	9:55	NA	X	X	X	X		
		OVR-117-121316	12/13/2016	13:22	NA	X	X	X	X		
		OVR-118-081816	8/18/2016	11:45	NA	X	X	X	X		
		OVR-118-120716	12/7/2016	14:52	NA	X	X	X	X		
		OVR-119-081916	8/19/2016	8:30	NA	X	X	X	X		
		OVR-119-120816	12/8/2016	15:38	NA	X	X	X	X		
		OVR-120-081816	8/18/2016	13:32	NA	X	X	X	X		
		OVR-120-120816	12/8/2016	10:23	NA	X	X	X	X		
		OVR-121-081616	8/16/2016	16:46	NA	X	X	X	X		
		OVR-121-120616	12/6/2016	10:40	NA	X	X	X	X		
		OVR-122-081816	8/18/2016	9:56	NA	X	X	X	X		
		OVR-122-120716	12/7/2016	12:55	NA	X	X	X	X		
		OVR-123-081816	8/18/2016	9:55	NA	X	X	X	X		
		OVR-123-120716	12/7/2016	14:30	NA	X	X	X	X		
		OVR-124-081716	8/17/2016	16:22	NA	X	X	X	X		
		OVR-124-120716	12/7/2016	10:47	NA	X	X	X	X		
		OVR-125-081716	8/17/2016	10:02	NA	X	X	X	X		
		OVR-125-120616	12/6/2016	14:08	NA	X	X	X	X		
		OVR-126-081716	8/17/2016	9:00	NA	X	X	X	X		
		OVR-126-120616	12/6/2016	15:30	NA	X	X	X	X		
		OVR-127-081716	8/17/2016	12:44	NA	X	X	X	X		
		OVR-127-120616	12/6/2016	15:52	NA	X	X	X	X		
		OVR-128-081716	8/17/2016	12:15	NA	X	X	X	X		
		OVR-128-120716	12/7/2016	11:00	NA	X	X	X	X		
		OVR-129-081716	8/17/2016	17:10	NA	X	X	X	X		

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Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

						Laboratory Analysis						
Field Event	Matrix	Sample ID	Date Collected	Sample Time	Sample Interval (ft bgs)	8260 VOCs + 10 TICs	8270 SVOCs + 20 TICs	TAL Metals and Cyanide 6010, 7470, 7471, 9012	PCBs 8082	Pesticides 8081	TO-15
Monitoring Well Sampling	*Groundwater*	OVR-129-120716	12/7/2016	9:10	NA	X	X	X	X		
		OVR-130-082316	8/23/2016	14:40	NA	X	X	X	X		
		OVR-130-121316	12/13/2016	9:14	NA	X	X	X	X		
		OVR-131-082316	8/23/2016	9:04	NA	X	X	X	X		
		OVR-131-121316	12/13/2016	12:40	NA	X	X	X	X		
		OVR-132-082316	8/23/2016	12:00	NA	X	X	X	X		
		OVR-132-121216	12/12/2016	14:40	NA	X	X	X	X		
		BED1-100-082316	8/23/2016	11:52	NA	X	X	X	X		
		BED1-100-121316	12/13/2016	11:30	NA	X	X	X	X		
		BED1-101-082416	8/24/2016	10:50	NA	X	X	X	X		
		BED1-101-121216	12/12/2016	13:50	NA	X	X	X	X		
		BED1-102-081516	8/15/2016	16:13	NA	X	X	X	X		
		BED1-102-120516	12/5/2016	11:39	NA	X	X	X	X		
		BED1-103-081916	8/19/2016	14:12	NA	X	X	X	X		
		BED1-103-120916	12/9/2016	9:34	NA	X	X	X	X		
		BED1-104-081816	8/18/2016	15:51	NA	X	X	X	X		
		BED1-104-120816	12/8/2016	12:10	NA	X	X	X	X		
		MW-3-082316	8/23/2016	16:35	NA	X	X	X	X		
		MW-3-120916	12/9/2016	12:28	NA	X	X	X	X		
		BED1-104-081816-MS	8/18/2016	15:51	NA	X	X	X	X		
		BED1-104-081816-MSD	8/18/2016	15:51	NA	X	X	X	X		
		OVR-121-120616-MS	12/6/2016	10:40	NA	X	X	X	X		
		OVR-121-120616-MSD	12/6/2016	10:40	NA	X	X	X	X		
		OVR-101-082416-MS	8/24/2016	9:03	NA	X	X	X	X		
		OVR-101-082416-MSD	8/24/2016	9:03	NA	X	X	X	X		
		BED1-103-120916-MS	12/9/2016	9:34	NA	X	X	X	X		
		BED1-103-120916-MSD	12/9/2016	9:34	NA	X	X	X	X		
		DUP-011-081616	8/16/2016	13:48	NA	X	X	X	X		
		DUP-012-082316	8/23/2016	9:04	NA	X	X	X	X		
		DUP-015-120716	12/7/2016	10:47	NA	X	X	X	X		
		DUP-016-121316	12/13/2016	9:14	NA	X	X	X	X		
		FB-OVR-119-081916	8/19/2016	11:55	NA	X	X	X	X		
		FB-MW-3-082416	8/24/2016	7:45	NA	X	X	X	X		
		FB-OVR-118-120716	12/7/2016	16:45	NA	X	X	X	X		
		FB-OVR-107-121216	12/12/2016	16:00	NA	X	X	X	X		
		TB-MW-081516	8/15/2016	---	NA	X					
		TB-MW-081616	8/16/2016	---	NA	X					
		TB-MW-081716	8/17/2016	---	NA	X					
		TB-MW-081816	8/18/2016	---	NA	X					
		TB-MW-081916	8/19/2016	---	NA	X					
		TB-MW-082216	8/22/2016	---	NA	X					
		TB-MW-082316	8/23/2016	---	NA	X					
		TB-MW-082416	8/24/2016	---	NA	X					
		TB-MW-120516	12/5/2016	---	NA	X					
		TB-MW-120616	12/6/2016	---	NA	X					
		TB-MW-120716	12/7/2016	---	NA	X					
		TB-MW-120816	12/8/2016	---	NA	X					
		TB-MW-120916	12/9/2016	---	NA	X					
		TB-MW-121216	12/12/2016	---	NA	X					
		TB-MW-121316	12/13/2016	---	NA	X					
Grab Sampling	*Groundwater*	GW-101-082217	8/22/2017		NA	X					
		GW-102-082217	8/22/2017		NA	X					
		GW-103-082217	8/22/2017		NA	X					
		GW-104-082217	8/22/2017		NA	X					
		GW-105-082217	8/22/2017		NA	X					
		GW-106-082217	8/22/2017		NA	X					
		GW-107-082217	8/22/2017		NA	X					
		GW-108-082217	8/22/2017		NA	X					
		GW-105-082217-MS/MSD	8/22/2017		NA	X					
		DUP-013-082217	8/22/2017		NA	X					
		TB-082217	8/22/2017		NA	X					
Surface Soil Sampling	*Soil*	SS-100-0-0.17-092016	9/20/2016	10:40	0-0.17'	X					
		SS-101-0-0.17-092016	9/20/2016	10:37	0-0.17'	X	X	X			
		SS-102-0-0.17-092016	9/20/2016	11:08	0-0.17'	X					
		SS-103-0-0.17-092016	9/20/2016	10:00	0-0.17'	X	X	X			
		SS-104-0-0.17-091916	9/19/2016	15:56	0-0.17'	X					
		SS-105-0-0.17-091916	9/19/2016	15:49	0-0.17'	X	X	X			
		SS-106-0-0.17-091916	9/19/2016	15:05	0-0.17'	X	X	X			
		SS-107-0-0.17-091916	9/19/2016	14:42	0-0.17'	X					
		SS-108-0-0.17-091916	9/19/2016	14:24	0-0.17'	X	X	X			
		SS-109-0-0.17-091916	9/19/2016	14:05	0-0.17'		X	X			

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Surface Soil Sampling	Soil	SS-110-1-2-092116	9/21/2016	10:50	1-2'	X	X	X	X		
		SS-111-0-0.17-091916	9/19/2016	13:45	0-0.17'	X	X	X			
		SS-112-0-0.17-091916	9/19/2016	13:20	0-0.17'	X	X	X			
		SS-113-1-2-092116	9/21/2016	10:18	1-2'	X	X	X	X	X	
		SS-114-0-0.17-092016	9/20/2016	9:30	0-0.17'	X	X	X		X	
		SS-115-0-0.17-092016	9/20/2016	8:45	0-0.17'	X	X	X			
		SS-116-0-0.17-092016	9/20/2016	9:05	0-0.17'		X	X			
		SS-117-1-1.5-092116	9/21/2016	11:36	1-1.5'	X	X	X			
		SS-118-1-2-092116	9/21/2016	12:59	1-2'	X	X	X	X		
		SS-119-0-0.5-092116	9/21/2016	13:30	0-0.5'		X	X			
		SS-120-0.5-1-092116	9/21/2016	14:18	0.5-1'	X	X	X		X	
		SS-121-0-0.17-092016	9/20/2016	11:35	0-0.17'	X	☐	X			
		SS-122-1.5-2-092116	9/21/2016	14:50	1.5-2'	X	X	X			
		SS-123-0-0.17-092016	9/20/2016	12:05	0-0.17'	X	X	X	X	X	
		SS-124-1-2-092216	9/22/2016	8:25	1-2'	X	X	X	X	X	
		SS-125-1-2-092216	9/22/2016	9:12	1-2'	X	X	X	X	X	
		SS-126-0-0.17-092016	9/20/2016	13:02	0-0.17'				X	X	
		SS-127-0-0.17-092016	9/20/2016	13:23	0-0.17'				X	X	
		SS-128-0-0.17-092016	9/20/2016	13:49	0-0.17'				X		
		SS-129-0-0.17-092016	9/20/2016	14:12	0-0.17'	X	X	X	X		
		SS-130-0.5-1.5-092216	9/22/2016	9:49	0.5-1.5'		X	X			
		SS-131-0-0.17-092016	9/20/2016	14:33	0-0.17'	X	X	X	X	X	
		SS-132-1-1.5-092216	9/22/2016	10:25	1-1.5'		X	X	X	X	
		SS-133-1-2-092016	9/20/2016	15:12	1-2'	X	X	X		X	
		SS-134-0-0.17-091916	9/19/2016	8:39	0-0.17'		X	X			
		SS-135-0-0.17-091916	9/19/2016	9:01	0-0.17'	X	X	X	X	X	
		SS-136-0-0.17-091916	9/19/2016	9:30	0-0.17'	X	X	X		X	
		SS-137-1.5-2-092016	9/20/2016	15:46	1.5-2'		X	X			
		SS-138-0.5-1-092016	9/20/2016	16:32	0.5-1'		X	X	X	X	
		SS-139-0-0.17-091916	9/19/2016	9:50	0-0.17'			X			
		SS-140-0-0.17-091916	9/19/2016	10:07	0-0.17'	X	X	X		X	
		SS-141-1-2-092116	9/21/2016	15:25	1-2'	X	X	X			
		SS-142-0.5-1.5-092116	9/21/2016	15:47	0.5-1.5'	X	X	X			
		SS-143-0-0.17-091916	9/19/2016	10:27	0-0.17'	X	X		X	X	
		SS-144-0.5-1.5-092116	9/21/2016	8:13	0.5-1.5'		X	X		X	
		SS-145-0.5-1.5-092116	9/21/2016	8:48	0.5-1.5'	X	X	X	X	X	
		SS-146-0-0.17-091916	9/19/2016	10:55	0-0.17'	X	X				
		SS-147-0.5-1.5-092116	9/21/2016	12:07	0.5-1.5'	X	X	X		X	
		SS-148-0-0.17-092016	9/20/2016	8:18	0-0.17'	X	X	X			
		SS-149-0-0.17-091916	9/19/2016	11:50	0-0.17'		X	X			
		SS-150-0-0.17-091916	9/19/2016	11:18	0-0.17'	X	X	X			
		SS-151-0-0.5-092116	9/21/2016	9:24	0-0.5'		X	X			
		SS-152-0-0.17-091916	9/19/2016	12:59	0-0.17'	X	X	X		X	
		SS-153-0-0.17-091916	9/19/2016	12:36	0-0.17'	X	X	X			
		SS-124-1-2-092216-MS	9/22/2016	8:25	1-2'	X	X	X	X	X	
		SS-124-1-2-092216-MSD	9/22/2016	8:25	1-2'	X	X	X	X	X	
		SS-148-0-0.17-092016-MS	9/20/2016	8:18	0-0.17'	X	X	X			
		SS-148-0-0.17-092016-MSD	9/20/2016	8:18	0-0.17'	X	X	X			
		SS-144-0.5-1.5-092116-MS	9/21/2016	8:13	0.5-1.5'		X	X			
		SS-144-0.5-1.5-092116-MSD	9/21/2016	8:13	0.5-1.5'		X	X			
		DUP-005-092116	9/21/2016	10:18	1-2'	X	X	X	X	X	
		DUP-006-091916	9/19/2016	11:18	0-0.17'	X	X	X			
		DUP-007-092016	9/20/2016	12:05	0-0.17'				X		
		FB-SS-142-092216	9/22/2016	7:35	NA	X	X	X	X	X	
		~~FB-SS-XXXdate~~			NA	~~X~~	~~X~~	~~X~~			
		TB-SS-091916	9/19/2016	----	NA	X					
		TB-SS-092016	9/20/2016	----	NA	X					
		TB-SS-092116	9/21/2016	----	NA	X					
		TB-SS-092216	9/22/2016	----	NA	X					

Table 1 - Sample Analysis Summary
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

						Laboratory Analysis						
Field Event	Matrix	Sample ID	Date Collected	Sample Time	Sample Interval (ft bgs)	8260 VOCs + 10 TICs	8270 SVOCs + 20 TICs	TAL Metals and Cyanide 6010, 7470, 7471, 9012	PCBs 8082	Pesticides 8081	TO-15
Soil Vapor	Air	SV-100-081817	8/18/2017		NA						X
		SV-101-081817	8/18/2017		NA						X
		SV-102-081817	8/18/2017		NA						X
		SV-103-081817	8/18/2017		NA						X
		SV-104-081817	8/18/2017		NA						X
		SV-105-081817	8/18/2017		NA						X
		SV-106-081817	8/18/2017		NA						X
		SV-107-081817	8/18/2017		NA						X
		FB-SV-102-081817	8/18/2017		NA						X
		DUP-014-081817	8/18/2017		NA						X

Notes:

□ Analysis not performed as requested

⊕ Analysis added

Table 2 - Surface Soil, Existing Surface Cover, and Subsurface Soil Descriptions and Field Observations
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

Sample ID	Date Collected	Sample Time	Sample Interval	Sampled Material Simplified Description	Interval Layer	Interval Top & Bottom	Base of fill	Depth of Max PID Interval	Max PID Reading (ppm)	Sheen Present	Odor	Refusal Depth
Surface Soils												
SS-100-0-0.17-092016	9/20/2016	10:40	0-0.17'	Dusky yellowish brown, damp, F-M SAND, little SILT, brick frags	FILL	Not Applicable	-	-	< 10	N	N	-
SS-101-0-0.17-092016	9/20/2016	10:37	0-0.17'	Dk yellowish brown, damp, topsoil, little F SAND, trace SILT		Not Applicable	-	-	< 10	N	N	-
SS-102-0-0.17-092016	9/20/2016	11:08	0-0.17'	Dusky yellowish brown, damp, F-M SAND, trace SILT		Not Applicable	-	-	< 10	N	N	-
SS-103-0-0.17-092016	9/20/2016	10:00	0-0.17'	Dk yellowish brown, damp, F SAND, little SILT, trace glass	FILL	Not Applicable	-	-	< 10	N	N	-
SS-104-0-0.17-091916	9/19/2016	15:56	0-0.17'	Dusky yellowish brown, damp, F SAND, topsoil, little SILT, brick frags	FILL	Not Applicable	-	-	< 10	N	N	-
SS-105-0-0.17-091916	9/19/2016	15:49	0-0.17'	Dusky yellowish brown, damp, F SAND, topsoil, brick/concrete frags	FILL	Not Applicable	-	-	< 10	N	N	-
SS-106-0-0.17-091916	9/19/2016	15:05	0-0.17'	Dusky yellowish brown, damp, topsoil, little SILT, trace SAND		Not Applicable	-	-	< 10	N	N	-
SS-107-0-0.17-091916	9/19/2016	14:42	0-0.17'	Mod brown, damp, topsoil, F SAND, gravel, brick, concrete	FILL	Not Applicable	-	-	< 10	N	N	-
SS-108-0-0.17-091916	9/19/2016	14:24	0-0.17'	Dk yellowish brown, damp, topsoil, F SAND, little SILT, brick, concrete	FILL	Not Applicable	-	-	< 10	N	N	-
SS-109-0-0.17-091916	9/19/2016	14:05	0-0.17'	Brownish Blk, damp, topsoil, F SAND, little SILT		Not Applicable	-	-	< 10	N	N	-
SS-111-0-0.17-091916	9/19/2016	13:45	0-0.17'	Brownish Blk, damp, topsoil, F SAND, some SILT		Not Applicable	-	-	< 10	N	N	-
SS-112-0-0.17-091916	9/19/2016	13:20	0-0.17'	Dusky brown, damp, F SAND, topsoil, brick/concrete frags	FILL	Not Applicable	-	-	< 10	N	N	-
SS-114-0-0.17-092016	9/20/2016	9:30	0-0.17'	Dusky brown, dry, F SAND, slag, gravel	FILL	Not Applicable	-	-	< 10	N	N	-
SS-115-0-0.17-092016	9/20/2016	8:45	0-0.17'	Dusky yellowish brn, damp, topsoil, F SAND, SILT, cinders, brick/concrete	FILL	Not Applicable	-	-	< 10	N	N	-
SS-116-0-0.17-092016	9/20/2016	9:05	0-0.17'	Dusky yellowish brown, damp, topsoil, F SAND		Not Applicable	-	-	< 10	N	N	-
SS-121-0-0.17-092016	9/20/2016	11:35	0-0.17'	Dusky brown, damp, topsoil, F-M SAND, gravel, concrete	FILL	Not Applicable	-	-	< 10	N	N	-
SS-123-0-0.17-092016	9/20/2016	12:05	0-0.17'	Dusky yellowish brown, damp, topsoil, F-M SAND, SILT		Not Applicable	-	-	< 10	N	N	-
SS-126-0-0.17-092016	9/20/2016	13:02	0-0.17'	Dusky yellowish brown, damp, topsoil, peat		Not Applicable	-	-	< 10	N	N	-
SS-127-0-0.17-092016	9/20/2016	13:23	0-0.17'	Brownish blk, damp, topsoil, SILT, F SAND		Not Applicable	-	-	< 10	N	N	-
SS-128-0-0.17-092016	9/20/2016	13:49	0-0.17'	Dusky yellowish brown, damp, topsoil, F SAND		Not Applicable	-	-	< 10	N	N	-
SS-129-0-0.17-092016	9/20/2016	14:12	0-0.17'	Brownish blk, damp, topsoil, F SAND, tile fragments	FILL	Not Applicable	-	-	< 10	N	N	-
SS-131-0-0.17-092016	9/20/2016	14:33	0-0.17'	Brownish blk, damp, F-M SAND, gravel, SILT	FILL	Not Applicable	-	-	< 10	N	N	-
SS-134-0-0.17-091916	9/19/2016	8:39	0-0.17'	Grayish brown, damp, topsoil, F SAND		Not Applicable	-	-	< 10	N	N	-
SS-135-0-0.17-091916	9/19/2016	9:01	0-0.17'	Brownish blk, damp, coal ash debris, slag, topsoil	FILL	Not Applicable	-	-	< 10	N	N	-
SS-136-0-0.17-091916	9/19/2016	9:30	0-0.17'	Brownish gray, damp, topsoil, F SAND		Not Applicable	-	-	< 10	N	N	-
SS-139-0-0.17-091916	9/19/2016	9:50	0-0.17'	Dusky brown, damp, topsoil, F SAND, SILT		Not Applicable	-	-	< 10	N	N	-
SS-140-0-0.17-091916	9/19/2016	10:07	0-0.17'	Olive blk, damp, F SAND, topsoil, coal ash debris	FILL	Not Applicable	-	-	< 10	N	N	-
SS-143-0-0.17-091916	9/19/2016	10:27	0-0.17'	Dusky yellowish brown, damp, topsoil, SILT, F SAND		Not Applicable	-	-	< 10	N	N	-
SS-146-0-0.17-091916	9/19/2016	10:55	0-0.17'	Grayish brown, damp, topsoil, F SAND, SILT		Not Applicable	-	-	< 10	N	N	-
SS-148-0-0.17-092016	9/20/2016	8:18	0-0.17'	Dusky yellowish brown, dry, F SAND, topsoil SILT, trace concrete	FILL	Not Applicable	-	-	< 10	N	N	-
SS-149-0-0.17-091916	9/19/2016	11:50	0-0.17'	Dusky brown, dry, F SAND, topsoil, cinders, gravel	FILL	Not Applicable	-	-	< 10	N	N	-
SS-150-0-0.17-091916	9/19/2016	11:18	0-0.17'	Dusky yellowish brown, damp, topsoil, SILT, gravel		Not Applicable	-	-	< 10	N	N	-
SS-152-0-0.17-091916	9/19/2016	12:59	0-0.17'	Dusky yellowish brown, damp, F SAND, cinders, topsoil	FILL	Not Applicable	-	-	< 10	N	N	-
SS-153-0-0.17-091916	9/19/2016	12:36	0-0.17'	Dk yellowish brown, damp, topsoil, F SAND, SILT		Not Applicable	-	-	< 10	N	N	-
Existing Surface Cover												
SS-110-1-2-092116	9/21/2016	10:50	1-2'	Brownish Blk, dry, F-M SAND, cinders, coal, gravel	FILL	Not Applicable	-	-	< 10	N	N	-
SS-113-1-2-092116	9/21/2016	10:18	1-2'	Dk yellowish brown, dry, F-M SAND, gravel, brick frags	FILL	Not Applicable	-	-	< 10	N	N	-
SS-117-1-1.5-092116	9/21/2016	11:36	1-1.5'	Brownish Blk, dry, F-M SAND, coal, ash, gravel, slag	FILL	Not Applicable	-	-	< 10	N	N	-
SS-118-1-2-092116	9/21/2016	12:59	1-2'	Mod yellowish brown, damp, topsoil, SILT, F SAND, trace coal		Not Applicable	-	-	< 10	N	N	-
SS-119-0-0.5-092116	9/21/2016	13:30	0-0.5'	Dusky Brown, dry, topsoil, SILT, F SAND, asphalt frags, gravel	FILL	Not Applicable	-	-	< 10	N	N	-
SS-120-0.5-1-092116	9/21/2016	14:18	0.5-1'	Grayish brown, dry, SILTS w/ F SAND, gravel, trace brick frag		Not Applicable	-	-	< 10	N	N	-
SS-122-1.5-2-092116	9/21/2016	14:50	1.5-2'	Brownish blk, lt brown mottling, F-M SAND, SILT, gravel, coal frag	FILL	Not Applicable	-	-	< 10	N	N	-
SS-124-1-2-092216	9/22/2016	8:25	1-2'	Dusky brown, damp, F-M SAND, gravel, glass frag	FILL	Not Applicable	-	-	< 10	N	N	-
SS-125-1-2-092216	9/22/2016	9:12	1-2'	Dusky brown, dry, F-M SAND, SILT, coal frag, gravel, metal debris	FILL	Not Applicable	-	-	< 10	N	N	-
SS-130-0.5-1.5-092216	9/22/2016	9:49	0.5-1.5'	Dusky yellowish brown, damp, SILT, F-M SAND, gravel, cinders, brick	FILL	Not Applicable	-	-	< 10	N	N	-
SS-132-1-1.5-092216	9/22/2016	10:25	1-1.5'	Dusky yellowish brown, damp, SILT, F-M SAND, brick, asphalt	FILL	Not Applicable	-	-	< 10	N	N	-
SS-133-1-2-092016	9/20/2016	15:12	1-2'	Dusky brown, dry, F SAND, SILT, ash/metal debris, gravel	FILL	Not Applicable	-	-	< 10	N	N	-
SS-137-1.5-2-092016	9/20/2016	15:46	1.5-2'	Mod yellowish brown, damp, F SAND, some olive gray F SAND		Not Applicable	-	-	< 10	N	N	-
SS-138-0.5-1-092016	9/20/2016	16:32	0.5-1'	Pale yellowish brown, damp, F SAND, SILT		Not Applicable	-	-	< 10	N	N	-
SS-141-1-2-092116*	9/21/2016	15:25	1-2'	Brownish blk, dry, activated carbon material	FILL	Not Applicable	-	-	< 10	N	N	-
SS-142-0.5-1.5-092116	9/21/2016	15:47	0.5-1.5'	Brownish blk, dry, F-M SAND, SILT, cinders/ash, brick frag, coal	FILL	Not Applicable	-	-	< 10	N	N	-
SS-144-0.5-1.5-092116	9/21/2016	8:13	0.5-1.5'	Pale yellowish brown, damp, SILT, F SAND		Not Applicable	-	-	< 10	N	N	-
SS-145-0.5-1.5-092116	9/21/2016	8:48	0.5-1.5'	Brownish blk, dry, coal ash debris, cinders	FILL	Not Applicable	-	-	< 10	N	N	-
SS-147-0.5-1.5-092116	9/21/2016	12:07	0.5-1.5'	Mod brown, damp, SILT, F SAND, ash/coal frags	FILL	Not Applicable	-	-	< 10	N	N	-
SS-151-0-0.5-092116	9/21/2016	9:24	0-0.5'	Mod yellowish brown, damp, topsoil, SILT, F SAND, trace coal		Not Applicable	-	-	< 10	N	N	-
Soil Borings - Subsurface Soil												
SB-100-9-10-031016	3/10/2016	11:25	9-10'	Brownish gray, wet, F-M SAND, some ash/cinders, some F gravel	FILL	8.7 to 12.8 ft	12.8	9-10'	< 10	N	N	16.8
SB-101-12.5-14-031016	3/10/2016	12:24	12.5-14'	Black, wet, F SAND, trace F gravel, petro odor		12.5 to 14 ft	9.2	9-14'	< 10	N	Petro	14.0
SB-102-4-6-082217	8/22/2017	11:06	4-6'	Mod. Yellowish brwn, wet, SAND, trace silt, , trace F subrnd gravel		1.4 to 6.1			< 10	N	N	7.5
SB-103-4.8-5.8-030416	3/4/2016	10:51	4.8-5.8'	Brownish black damp fine-medium SAND, brick and coal fragments, trace	FILL	4.8 ft to 5.8 ft	9.1	9.3-10.3'	< 10	N	N	20.0
SB-104-12-13-030316	3/3/2016	15:15	12-13'	Light olive gray saturated fine SAND, trace fine gravel		12 ft to 14 ft	4.5	6.1-6.8'	< 10	N	N	15.5
SB-105-11-12-031016	3/10/2016	13:37	11-12'	Black, damp, F SAND, little SILT, trace F gravel, slight sulfur odor		10.8 to 12 ft	4.6	10.8-12'	10 < X < 50	N	Sulfur	12.0
SB-106-5-6-030316	3/3/2016	14:20	5-6'	Olive black wet fine SAND, little SILT, little fine SAND, brick fragments, slight petroleum odor	FILL	4.7 ft to 6.1 ft	8.4	4.7-6.1'	< 10	N	Petro	18.3
SB-107-6-7-030316	3/3/2016	13:11	6-7'	Moderate brown wet fine SAND, trace SLAG/cinders, trace brick fragments, trace wood fragments	FILL	6 ft to 7.4 ft	8.65	8-10'	< 10	N	N	19.2
SB-108-5.8-6.4-030316	3/3/2016	12:20	5.8-6.4'	Olive black wet many coarse distinct black mottling, fine SAND, little SILT, trace fine gravel		5.8 ft to 6.4 ft	5.4	5.8-6.4'	< 10	slight iridescent	N	18.5
SB-109-8-9-030216	3/2/2016	15:15	8-9'	Olive black wet fine SAND, trace SILT		6.4 ft to 9.4 ft	6.4	4-5.4'	< 10	N	Petro	18.6
SB-110-1.5-2.5-031016	3/10/2016	14:35	1.5-2.5'	Mod. Yellowish brown, many coarse distinct dark yellowish orange mottling, SILT trace clay		1.1 to 4.6 ft		1.1-2.7	< 10	N	N	12.8
SB-111-6-7-031016	3/10/2016	15:00	6-7'	Pale yellowish brown, damp, F-M SAND, many med. Distinct, dk. Yellowish orange mottling, F gravel, hard		5.7 to 8.4 ft	0.3	0.3-2.8'	< 10	N	N	8.5
SB-112-0.5-2-082217 SB-112-0.5-2-090717	8/22/2017 9/7/2017	10:10 10:44	0.5-2'	Olive gray, damp, many F distinct mod. Brwn mottling, clayey SILT		0.4 to 5.35 ft			< 10	N	N	8
SB-113-1-2-031416*	3/14/2016	14:18	1-2'	Black, wet activated carbon/ M SAND	FILL	0.4 to 1.5ft	1.5	8.8-9.3	10 < X < 50	N	Petro	10.0
SB-113-4.5-6.5-031416	3/14/2016	9:08	4.5-6.5'	Pale brown, damp, SILT, trace clay, trace F gravel		4.5 to 8.8 ft	1.5	8.8-9.3	10 < X < 50	N	Petro	10.0
SB-114-2-2.5-030216	3/2/2016	13:35	2-2.5'	Light brown damp SILT, trace SAND, little distinct rust mottling		1.5 ft to 2.7 ft	8.5	1.5-2.7'	< 10	N	Petro	17.6
SB-115-5.6-6.7-030216	3/2/2016	13:20	5.6-6.7'	Grayish black damp SILT, trace clay, few brick fragments, trace fine SAND, chemical odor	FILL	5.6 ft to 6.7 ft	6.7	5.6-6.7'	< 10	N	Petro	16.0
SB-116-5.7-6.5-030216	3/2/2016	10:59	5.7-6.5'	Olive black damp SILT, trace fine SAND, petroleum odor common coarse distinct black mottling		5.7 ft to 6.5 ft	5.7	6.5-17'	< 10	N	Petro	17.0
SB-117-5.9-7-030216	3/2/2016	10:12	5.9-7'	Olive black damp SILT with little fine SAND, slight petroleum odor		5.9 ft to 7 ft	5.9	12-13.2'	< 10	N	Petro	15.4
SB-118-7-7.4-030216	3/2/2016	8:52	7-7.4'	Black wet fine-medium SAND, little SILT, thin layer moderate reddish brown SILT, brick fragments, cinders	FILL	5.5 ft to 7.4 ft	5.5	5.5-7.4'	< 10	N	Slight Chemical	16.0
SB-119-4.5-6-031116	3/11/2016	9:10	4.5-6'	Lt. Olive gray, damp, many coarse distinct dk. Yellowish orange mottling, clayey SILT		4.5 to 6 ft	4.5	0.7-1.8	< 10	N	N	10.5
SB-120-6.5-7.4-031416	3/14/2016	11:19	6.5-7.4'	Olive gray, wet, F SAND, some cinders/ash, trace black staining, slight petro odor		4.9 to 7.4 ft	7.4	0.75-1.6'	< 10	N	N	9.1
SB-121-2-2.5-031416	3/14/2016	12:22	2-2.5'	Black, damp, F SAND, little F gravel, slight		1.8 to 2.5 ft	1.8	1.8-2.5'	< 10	N	Petro	None, Ended @ 4'
SB-122-7-8-022916	2/29/2016	14:30	7-8'	Medium light gray many coarse distance moderate brown mottling SILT, fine SAND		5.2 ft to 8 ft	4.6	13-14'	< 10	N	Petro	15.0
SB-123-6-7-031416	3/14/2016	13:03	6-7'	Greenish gray, damp, many coarse faint dk yellowish orange mottling, F SAND, trace SILT, petro odor		4.9 to 7 ft	0.85	4.9-7'	10 < X < 50	N	Petro	8.5
SB-124-8-9-031116	3/11/2016	9:50	8-9'	Med. Dark gray, wet, common med. Faint pale yellowish brown mottling, Silt, trace clay, little F SAND, petro odor		5.8 to 12.8 ft	5.8	5.8-11.4'	> 100	Slight	Petro	13.3
SB-125-5-7-031416	3/14/2016	13:50	5-7'	Dk greenish gray, wet, common med faint dk yellowish orange mottling, little black staining, Clayey SILT		4.55 to 7 ft	4.55	1.2-1.8'	< 10	Slight	Petro	9.0
SB-126-1.5-2-031516	3/15/2016	8:45	1.5-2'	Olive black, wet, F-M SAND, little SILT, trace F gravel, petro odor		1.5 to 2.1 ft	1.5	1.5-2.1'	10 < X < 50	N	Petro	8.5
SB-127-10-11-031116	3/11/2016	10:45	10-11'	Med. Gray, damp, few coarse faint dk. Yellowish orange mottling, F SAND, trace SILT, petro odor		7 to 12.6 ft	5	7-11'	> 100	N	Petro	12.6
SB-128-6-6.5-031516	3/15/2016	9:28	6-6.5'	Lt olive gray, many coarse distinct olive black mottling, SILT, trace clay, trace wood & shell frag		5.8 to 6.7 ft	4.5	1-1.8'	< 10	N	N	10.0
SB-129-4.6-6.6-031516	3/15/2016	10:05	4.6-6.6'	Dk greenish gray, damp many coarse faint dk yellowish orange mottling, F SAND, little silt, petro odor, sheen		4.6 t o 6.6	0.7	4.6-6.6'	> 100	slight iridescent	Petro	9.0
SB-130-4-4.5-042216	4/22/2016	12:44	4-4.5'	Olive black, Wet FM SAND, little silt, F gravel, petroleum odor.		4ft to 4.5ft	0.8	4.5-5.4'	> 100	N	Petro	8.0
SB-131-8-10-031116	3/11/2016	11:41	8-10'	Med. Bluish gray, damp, many coarse faint dk yellowish orange mottling, SILT trace clay		7.2 to 10 ft	4.9	7.2-7.8'	50 < X < 100	N	N	12.0
SB-132-4.5-5-041516	4/15/2016	8:45	4.5-5	Greenish gray wet many course faint dark yellowish orange mottling,, F SAND, little slit, petroleum odor		4.2ft to 5.2ft.	1.1	4.2-5.2'	> 100	N	Petro	9.0
SB-133-4.5-5-041416	4/14/2016	14:40	4.5-5'	Olive black, wet, F SAND, little silt, some F Sub angular gravel, oily odor, slight sheen		4.5ft. To 5ft.	4.5	8-8.7'	10 < X < 50	Slight	Petro/Oily	9.0
SB-134-10-11-031516	3/15/2016	10:57	10-11'	Dk greenish gray, damp many coarse faint dk yellowish orange mottling, SILT, trace clay, petro odor, slight sheen		5.8 to 11.8 ft	5.1	5.1-5.8'	> 100	Slight	Petro	11.8
SB-135-8-9-041516	4/15/2016	11:53	8-9'	Greenish gray damp, many coarse dark yellowish, orange mottling SILT, trace clay petro odor.		8ft to 8.3ft.	4.6	8.3-9'	> 100	N	Petro	11.0
SB-136-5-7-031116	3/11/2016	12:30	5-7'	Greenish gray, many coarse distinct dk yellowish orange mottling, SILT, trace clay, petro odor			0.9	4-7'	> 100	N	Petro	13.0
SB-137-6-8-031116	3/11/2016	13:30	6-8'	Greenish gray, few fine faint yellowish orange mottling, F SAND, petro		6 to 9 ft	0.6	6-8'	> 100	N	Petro	9.0
SB-138-4-4.8-030116	3/1/2016	15:15	4-4.8'	Dark greenish gray wet fine SANDS, little SILT, trace brick fragments	FILL	4 ft to 4.8 ft	4.8	4-4.8'	> 100	N	N	12.0
SB-139-8-9.7-030116	3/1/2016	14:50	8-9.7'	Olive black wet fine SAND, some SILT, slight petroleum odor		8 ft to 9.7 ft	5.7	8-9.7'	< 10	N	Petro/Chem	13.2
SB-141-7-8-030116	3/1/2016	12:46	7-8'	Brownish gray wet many coarse distinct mottling/staining petroleum odor		5.5 ft to 8 ft	4.5	4.5-8'	> 100	N	Petro	14.3
SB-142-11-12-030116	3/1/2016	11:20	11-12'	Medium gray damp fine SANDS with SILT, trace CLAY, slight petroleum odor		11 ft to 13.2 ft	11	4-5'	50 < X < 100	N	Petro	13.2

Table 2 - Surface Soil, Existing Surface Cover, and Subsurface Soil Descriptions and Field Observations
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

Sample ID	Date Collected	Sample Time	Sample Interval	Sampled Material Simplified Description	Interval Layer	Interval Top & Bottom	Base of fill	Depth of Max PID Interval	Max PID Reading (ppm)	Sheen Present	Odor	Refusal Depth
SB-143-3-4-030116*	3/1/2016	9:56	3-4'	Black damp activated carbon material/medium SAND	FILL	0.7 ft to 4.85 ft	6.3	0.7-2.5'	< 10	N	N	22.0
SB-144-1-1.8-030116	3/1/2016	9:00	1-1.8'	Red brick fragments, moderate yellowish brown damp SILTS, little fine SAND, loose		0.6 ft to 1.8 ft	5.65	all low	< 10	N	N	18.0
SB-145-25.4-26.1-030916	3/9/2016	10:33	25.4-26.1'	Olive gray, saturated, F-M gravel, some F-M SAND (gravely SAND), loose		25.4 to 26.1 ft	9	4.6-5.9'	< 10	N	N	28.0
SB-146-6-8-030216	3/2/2016	12:00	6-8'	Medium gray damp many coarse distinct dark yellowish orange mottling SILT, trace clay		5.2 ft to 8 ft	5.2	5.2-8'	< 10	N	N	17.4
SB-147-10-11.4-042216	4/22/2016	9:25	10'-12'	Olive gray, F-M SAND (Slight sulfur order)		10ft. To 12ft.	4.45	6-7'	< 10	N	Petro	17.4
SB-148-8-9.2-040716	4/7/2016	9:49	8-9.2'	Olive gray, wet, many course faint dk. Yellowish orange mottling, F SAND, little SILT, slight sheen		8ft. To 9.2ft.	6.5	2.2-2.9'	< 10	slight iridescent	Petro	16.1
SB-149-4-5-040616*	4/6/2016	14:23	4-5'	Black, wet, activated carbon/ M SAND material	FILL	3.3ft. To 7.5ft.	8	6-10'	10 < X < 50	N	Petro	18.6
SB-149-10-11-040616	4/6/2016	14:45	10-11'	Lt. olive gray, wet, many coarse distinct dk. Yellowish orange mottling, SILT, trace CLAY, slight petro odor		10ft. To 13ft.	8	6-10'	10 < X < 50	N	Petro	18.6
SB-150-3-4-022916	2/29/2016	13:08	3-4'	Black fine SANDS, brick fragments, coal ash, slag fragments, some fine sub angular gravel	FILL	0.3 ft to 4 ft	8.4	8.4-10'	< 10	N	N	19.5
SB-151-16.6-17.2-030316	3/3/2016	9:20	16.6-17.2'	Light brownish gray wet fine-medium SAND, fine gravel		16.6 ft to 17.2 ft	5.1	4.2-4.6'	< 10	N	N	21.9
SB-152-6-7-030316	3/3/2016	10:05	6-7'				8.4	4.2-5.3'	< 10	N	Petro	19.2
SB-154-15-17-030316	3/3/2016	11:35	15-17'	Yellowish brown saturated fine-medium SAND, well graded		12 ft to 18.7 ft	7	1-2'	< 10	N	N	20.0
SB-155-2-3-031016	3/10/2016	10:00	2-3'	Dk. Yellowish brown, many coarse distinct dark yellowish orange mottling, SILT trace clay, trace F SAND		0.7 to 3 ft		4-4.5'	< 10	N	Petro	19.0
SB-156-16-17-030916	3/9/2016	15:08	16-17'	Pale yellowish brown, wet, F-M SAND, F-M gravel, hard, slight petro odor		16 to 17 ft	1	16-17'	< 10	N	Petro/ Sulfur	22.5
SB-157-20.5-21.5-030916	3/9/2016	13:48	20.5-21.5'	Olive gray, wet, SILT trace clay, trace F gravel, trace F SAND		20.5 to 21.6 ft	10.5	20.5-21.5'	< 10	N	N	None, Ended @ 28'
SB-158-16-17.5-030816	3/8/2016	15:20	16-17.5'	Olive gray, wet, M-C SAND, F gravel (gravely sand)		16 to 17.6 ft		1.1-2.2'	< 10	N	N	26.5
SB-159-17-18-030916	3/9/2016	9:03	17-18'	Grayish red, wet, Clayey SILT		17 to 18.2 ft		8-12'	< 10	N	N	23.8
SB-160-4-5-030916	3/9/2016	11:44	4-5'	Mod. Yellowish brown, damp, F SAND, poorly graded, loose, trace cinders, trace F gravel	FILL	0.6 to 10.7 ft	10.7	4-6.7'	< 10	N	N	None, Ended @ 28'
SB-161-24-26-030816	3/8/2016	14:10	24-26'	Pale brown, damp F-M SAND, F-M rounded gravel, hard		20.4 to 26 ft		19.1-19.6'	< 10	N	Petro	28.3
SB-162-19-20-030816	3/8/2016	12:19	19-20'	Grayish black wet fine-medium SAND, trace fine gravel		19 ft to 20.4 ft		15-15.6'	< 10	N	N	21.5
SB-163-13.5-16-030816	3/8/2016	11:15	13.5-16'	Light olive gray wet many coarse distinct dark yellowish orange mottling, fine SAND		13.4 ft to 17.5 ft	10.3	9.45-10.3'	< 10	N	N	22.3
SB-164-4-5.9-030716	3/7/2016	14:15	4-5.9'	Moderate yellowish brown damp fine SAND, poorly graded, trace fine		1.5 ft to 5.9 ft	1.5	4-5.9'	< 10	N	N	29.9
SB-165-22-23-030716	3/7/2016	11:30	22-23'	Olive gray wet fine-medium SAND, few wood fragments		22 ft to 23 ft	0.9	4-6.5'	< 10	N	N	26.8
SB-166-13-15-030816	3/8/2016	10:05	13-15'	Light olive gray with many coarse distinct dark yellowish orange mottling fine SAND, trace fine gravel		12.8 ft to 15.2 ft	12.8	4-6'	< 10	N	N	22.0
SB-167-18-19-030716	3/7/2016	10:15	18-19'	Olive gray damp with many coarse distinct dark yellowish orange mottling, fine SAND, trace SILT		17 ft to 20.4 ft	10.7	17-20'	> 100	N	N	24.5
SB-168-16-17-030816	3/8/2016	9:05	16-17'	Olive gray many coarse distinct black mottling, fine SAND, little SILT, slight petroleum odor		16 ft to 17 ft		16-17'	< 10	N	Petro	17.0
SB-169-16-17-030716	3/7/2016	9:20	16-17'	Olive gray wet fine SAND, petroleum odor		16 ft to 17.3 ft	9.8	16-20'	> 100	N	Petro	23.3
SB-170-16-16.8-022916	2/29/2016	11:15	16-16.8'	Olive gray few black mottling SILTS ith fine SAND, layers with fine-medium		12 ft to 16.8 ft	6.8	16-17.4'	< 10	N	N	17.4
SB-171-15-16-022916	2/29/2016	9:45	15-16'	Gray wet soft SILTS, trace fine SAND, petroleum odor		15 ft to 16 ft	1.4	15-20'	> 100	N	Petro	21.2
SB-172-8.8-9.6-082217 SB-172-8.5-9.7-090717	8/22/2017 9/7/2017	9:20 9:56	8.8-9.6' 8.5-9.7'	Lt. brownish gray, wet, F-M gravely SAND, F rnd gravel, slight petro odor		8.5 to 9.7 ft	5	4-5'	< 10	N	Petro	11.5
SB-173-12-15-082117 SB-173-12-15-090717	8/21/2017 9/7/2017	11:22 9:22	12-15'	Lt. olive gray, damp, many coarse distinct dk. Yellowish orange mottling, silty CLAY		12 to 15.1 ft	5.5		< 10	N	N	17.5
SB-174-12.5-15-082117 SB-174-12.5-15-090717	8/21/2017 9/7/2017	10:10 8:59	12.5-15'	Olive gray, wet, few coarse distinct dk. Yellowish orange mottling, clayey SILT, some sand		12.4 to 15 ft	8.7		< 10	N	N	none
SB-175-21-21.4-030716	3/7/2016	15:10	21-21.4'	Pale brown wet fine-medium SAND, fine-medium rounded gravel, slight petroleum odor		20.2 ft to 21.4 ft	9.5	4-6.7'	< 10	N	Petro	22.5
SB-176-6-7-041216	4/12/2016	10:42	6-7'	Light blue-ish gray, damp many coarse distinct dark yellowish orange mottling, SILT, trace clay, slight petroleum odor		6ft to 7.1ft.	2.2	2.5-2.9'	> 100	N	Petro	11.0
SB-177-5.5-6.5-031416	3/14/2016	10:40	5.5-6.5'	Lt Olive gray, many med faint dk yellowish orange mottling, little black staining, SILT trace clay, slight petro odor		5.4 to 6.6 ft	1.5	5.4-6.6'	< 10	N	N	9.2
SB-178-1.5-2-031416	3/14/2016	10:01	1.5-2'	Olive gray, damp, many coarse distinct dk. Yellowish brown mottling, SILT, some F gravel, trace F SAND,		1.3 to 2 ft	1.3	1.3-2'	< 10	N	N	10.5
SB-179-6.7-7-030416	3/4/2016	10:00	6.7-7'	Olive black wet fine SAND, trace SILT, trace fine gravel		6.2 ft to 7 ft	6.2	6.2-7'	< 10	N	N	18.8
SB-180-14-14.7-030416	3/4/2016	9:07	14-14.7'	Olive gray wet many coarse faint and yellowish brown mottling fine SAND, little SILT		13.4 ft to 14.7 ft	12.7	8-8.4'	< 10	N	Petro	21.5
SB-TP-111-0-0.6-082117	8/21/2017	10:26	0-0.6'	Dusky yellowish brown, damp, topsoil, some SAND		0 to 0.6 ft.			< 10	N	N	0.6
SB-TP-131-5-7-031516	42444	0.490972	5-7'	Olive black, wet, F-M SAND, some cinders, some F gravel, sheen, oily odor	FILL	4.6 to 9 ft	1/9/1900	9-10'	10 < X < 50	slight	Petro/Oily	10.5
SB-TP-139-12-14-030716*	42436	0.520833	12-14'	Moderate yellowish brown wet, fine SAND, poorly graded, trace fine gravel, trace activated carbon	FILL	8.9 ft to 14.6 ft	########	2.3-2.6'	< 10	N	N	26.5
SB-TP-144-4-6-030916	42438	0.525	4-6'	Mod. Yellowish brown, damp, F SAND, poorly graded, loose, trace cinders, trace F gravel	FILL	0.65 to 10.1 ft	########	4-6'	< 10	N	N	28
SB-TP-147-16-18-031016	42439	0.377778	16-18'	Olive gray, wet, F-C SAND, F-C gravel, hard, slight petro odor		16 to 20.5 ft		0.6-3'	< 10	N	Petro	22.8
Overburden Wells/Borings												
OVR-100-6-7-042216	4/22/2016	14:07	6-7'	Olive gray, wet, F-M SAND with silt, some cinders, little F rounded gravel, little red brick fragments, slight odor.	FILL	6ft to 7.1 ft.	7.1	6-7'	10 < X < 50	N	Petro	11.0
OVR-107-10-11-041216	4/12/2016	13:20	10-11'	Greenish gray, wet, many coarse dark yellowish orange mottling, silt, trace clay, petroleum odor.		10 Ft to 11.2 ft.	1.2	7-7.7'	>100	N	Petro	12.0
OVR-108-4.1-5.4-041316	4/13/2016	9:15	4.1-5.4'	Light Olive gray, damp, many coarse distinct dark yellowish orange mottling, SILT, trace clay, tree roots		4.1 ft to 5.4 ft.	2.2	6.8-7.2'	>100	N	Petro	12.1
OVR-109-10-11.8-041116	4/11/2016	12:10	10-11.8'	Greenish gray, we many courses, faint dark yellowish orange mottling, F SAND, little SILT, petroleum odor		10 Ft to 12ft.	6.3	10-11.8'	>100	N	Petro	15.0
OVR-116-10-11.9-040116	4/1/2016	12:03	10-11.9'	Olive gray, wet many coarse distinct dark yellowish orange mottling, F SAND, some silt, trace F Sub rounded gravel		10ft to 11.9 ft.		12-13'	< 10	N	N	19.4
OVR-117-7-7.6-040716	4/7/2016	13:00	7-7.6'	Greenish black (5 GY 2/1) damp tar like substance, hard, strong chemical odor	FILL	6.8ft to 7.6ft.	12.4	6.8-12.4	> 100	N	Chemical	15.8
OVR-118-0.5-1-042216	4/13/2016	11:30	0.5-1	Mod. Yellowish brown, damp, FM SAND, little coal fragments, tree, rusty metal debris, trace F Sub rounded gravel	FILL	0.2ft. To 0.9ft.	5.1	0.2-0.9	< 10	N	Sulfur	9.5
Test Pits												
TP-100-2-4-012116	1/21/2016	10:45	2-4'	Strong brown silty SAND, brick fragments - FILL	FILL	1 to 3 ft.	9.9	NA	< 10	N	N	NA
TP-101-2-4-012116	1/21/2016	14:00	2-4'	Black ash - FILL	FILL	1 to 3.4 ft.	11.4	NA	< 10	N	N	NA
TP-102-0-2-012216	1/22/2016	10:30	1-3'	Black ash, tree roots, moist - FILL	FILL	1 to 7.5 ft.	7.5	NA	< 10	N	N	NA
TP-103-0-2-012116	1/21/2016	15:00	0-2'	trace roots, some yellowish brown silty fine SAND, very dark grayish brown moist fine SAND, and coarse subangular gravel, scattered twisted rebaor, moist - FILL		0 to 2 ft.	8.5	NA	< 10	N	N	NA
TP-104-0-2-012216	1/22/2016	9:15	0-2'	Brown fine sand and coarse subangular gravel, rocks, brick fragments, street curbing?, white ash, tree roots, moist - FILL	FILL	0.5 to 8.5 ft.	8.5	NA	< 10	N	N	NA
TP-105-4.5-6.5-012216	1/22/2016	11:30	4.5-6.5'	Dark reddish brown fine SILT and SAND, trace gravel, brick fragments, tree roots, moist - FILL		4.5 to 6 ft.	6.3	NA	< 10	N	N	NA
TP-106-1.5-4-012216	1/22/2016	13:15	1.5-4'	Black ash, trace brick fragments and rust colored slag chunks, smearing of grayish redddish orange ash - FILL	FILL	1.5 to 4 ft.	7	NA	< 10	N	N	NA
TP-107-0-2-012216	1/22/2016	14:30	0-2'	Tires, roots, bricks, brick fragments, railroad ties, broken glass bottles, white ash, mixed with Black SAND and SILT - FILL	FILL	0 to 2 ft.	4	NA	< 10	N	Sulfur	NA
TP-108-0-1.5-012516	1/25/2016	13:20	0-1.5'	Black topsoil, some roots, coal ash debris - FILL	FILL	0 to 1.5 ft.	1.5	NA	< 10	N	N	NA
TP-109-4-4.5-012516*	1/25/2016	10:40	4-4.5'	Black ash/Black medium SAND (coffee ground like material) - FILL	FILL	0.5 to 4.5 ft.	4.5	NA	< 10	N	N	NA
TP-110-1.5-2-012516	1/25/2016	11:32	1.5-2'	Black smear layer, SILTs, trace find SAND, gravel, coal - FILL	FILL	1.5 to 2 ft	7.5	NA	< 10	N	N	NA
TP-112-3.5-4-012516	1/25/2016	14:10	3.5-4'	Black ash, fill layer above CLAY	FILL	3.5 to 4 ft.	3.5	NA	< 10	N	N	NA
TP-113-1.5-2-012516	1/25/2016	15:04	1.5-2'	Thin tan SAND layer, dark yellowish brown SILTs, little CLAY		1.5 to 2 ft	2	NA	< 10	N	N	NA
TP-114-4-5-012616	1/26/2016	9:09	4-5'	Dark grayish brown SILTS with little SLAY, soft - NATIVE		4 to 6 ft.	4	NA	< 10	N	N	NA
TP-115-4-5-012616	1/26/2016	9:59	4-5'	Brown gravel, ash - FILL	FILL	2 to 4 ft.	4	NA	< 10	N	N	NA
TP-116-7-8-011516	1/15/2016	13:45	7-8'	Very dark gray SILTS, little CLAY, soft, wet - assumed NATIVE - Fuel odor		4 to 8 ft.	2	NA	10 < X < 50	N	Petro	NA
TP-117-1.5-2-011516	1/15/2016	11:31	1.5-2'	Dark brown topsoil, bricks, leaf litter, ash, brick fragments - FILL (above	FILL	Lens of fill 1.5 -2 ft, within 0 to 3 ft.	3	NA	< 10	N	N	NA
TP-118-3.5-4-011516	1/15/2016	10:24	3.5-4'	Ash, debris, black medium SAND - FILL	FILL	2.5 to 4 ft.	4	NA	< 10	N	N	NA
TP-119-5-6-012616	1/26/2016	10:40	5-6'	Very dark gray CLAY with cinders/ash material - FILL (petroleum odor &	FILL	4 to 7 ft.	7	NA	> 100	Sheen	Petro	NA
TP-120-4-4.5-012616	1/26/2016	13:25	4-4.5'	Dark gray CLAY, little SILT, damp, on top of concrete slab - FILL	FILL	4 to 5 ft.	5	NA	< 10	N	N	NA
TP-121-8-8.5-012616	1/26/2016	11:45	8-8.5'	Very dark gray SILTs with some fine SAND - NATIVE (petroleum odor)		CLAY 2-8, SAND/SILT 8-8.5 ft	2	NA	> 100	N	Petro	NA
TP-122-7-8-012716	1/27/2016	9:08	7-8'	Very dark gray SILTS, little CLAY - assumed NATIVE (little black staining)		3 to 8 ft.	3	NA	< 10	N	N	NA
TP-123-4.5-5-012616	1/26/2016	14:24	4.5-5'	Very dark gray CLAY, little SILTY SAND - petroleum odor		2.5 to 5 ft.	2.5	NA	> 100	N	Petro	NA
TP-124-7.5-8-012616	1/26/2016	15:10	7.5-8'	Very dark gray CLAY, little SILTY SAND, fine rounded gravel - Assumed NATIVE/ petro sheen/odor		2 to 8 ft.	2	NA	> 100	Slight	Petro	NA
TP-125-3-4-012716	1/27/2016	10:58	3-4'	Strong brown SILTS with fine SAND, coal ash, damp - FILL	FILL	2.5 to 4.5 ft	4.5	NA	10 < X < 50	N	Petro	NA
TP-126-2-3-012716	1/27/2016	10:00	2-3'	Very dark gray SILTS, little CLAY, soft, saturated - assumed NATIVE - Petroleum odor		3 to 8 ft.	3	NA	50 < X < 100	N	Petro	NA
TP-127-8-8.5-012716	1/27/2016	11:50	8-8.5'	Very dark gray SILTS, some fine rounded gravel, petroleum odor/sheen		4.5 to 8.5 ft.	4.5	NA	< 10	Sheen	Petro	NA
TP-128-5-6-012716	1/27/2016	14:07	5-6'	Very dark gray SILTS, little CLAY, mottled with blue/cream debris - FILL	FILL	5 to 7 ft.	7	NA	> 100	Sheen	Petro	NA
TP-129-4-4.5-012816	1/28/2016	14:00	4-4.5'	Gray SILTS, some fine SAND - strong solvent odor (sandwiched between petroleum odor)		3.5 to 6 ft.	3.5	NA	> 100	N	Petro/ Solvent	NA
TP-130-9.5-10-012816	1/28/2016	9:28	9.5-10'	Black coal ash & sub angular gravel (slight sheen) - FILL	FILL	8 to 10 ft.	10	NA	< 10	Slight	Petro	NA
TP-132-3-3.5-012816	1/28/2016	10:24	3-3.5'	Dark brown topsoil bricks, concrete slab -black SILTS	FILL	0 to 3.5, concrete slab @3'	11	NA	< 10	Slight	Petro	NA
TP-133-6.5-7-012716	1/27/2016	14:57	6.5-7'	Very dark Gray CLAY, some SILT, soft, wet, slight petroleum odor - NATIVE		6.5 to 8.5 ft.	6.5	NA	50 < X < 100	N	Petro	NA
TP-134-5-6-012816	1/28/2016	11:28	5-6'	Very dark gray SILTs, little CLAY, trace fine SAND		4 to 7.5 ft.	4	NA	> 100	N	Petro	NA
TP-135-2-3-012916	1/29/2016	12:17	2-3'	Dark yellowish brown SILTs, some fine SAND, coal ash debirs -FILL	FILL	2 to 4 ft.	4	NA	< 10	N	N	NA
TP-136-8-8.5-012916	1/29/2016	13:02	8-8.5'	Very dark gray SILTS, little sand, trace CLAY - NATIVE		8 to 8.5 ft.		NA	< 10	N	N	NA

Table 2 - Surface Soil, Existing Surface Cover, and Subsurface Soil Descriptions and Field Observations
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

Sample ID	Date Collected	Sample Time	Sample Interval	Sampled Material Simplified Description	Interval Layer	Interval Top & Bottom	Base of fill	Depth of Max PID Interval	Max PID Reading (ppm)	Sheen Present	Odor	Refusal Depth
TP-137-9.5-10-012916	1/29/2016	13:40	9.5-10'	Very dark gray SILTS, little CLAY, samp, soft - petroleum odor		9 to 10		NA	10 < X < 50	N	Petro	NA
TP-138-5-6-011516	1/15/2016	15:00	5-6'	Dark gray SILTS, saturated, little SAND - assumed NATIVE - Petroleum Odor		4.5 to 6 ft. under GRAVELY SAND	4.5	NA	> 100	N	Petro	NA
TP-140-2.5-3-011416*	1/14/2016	14:08	2.5-3'	Black medium SAND (coffee ground like material) - FILL	FILL	thin layer 2.5 to 3 ft.	5.8	NA	< 10	N	N	NA
TP-141-4-5-011416	1/14/2016	13:04	4-5'	Black ash material, bricks, wood debris - FILL	FILL	3 to 6.5 ft.	6.5	NA	< 10	N	N	NA
TP-142-0-1-011516	1/15/2016	9:24	0-1'	Black topsoil with SAND, brick fragments - FILL	FILL	0 to 2 ft.	3.8	NA	< 10	N	N	NA
TP-143-4-6.5-011416	1/14/2016	9:55	4-6.5'	Black ash material, some medium SAND, brick/brick fragments, metal, piping - FILL	FILL	4 to 6.5 ft.	6.5	NA	< 10	N	Tar Like	NA
TP-145-5-6-012916	1/29/2016	14:35	5-6'	Very dark gray SILTS, some fine SAND		5 to 8 ft.		NA	< 10	N	N	NA
TP-146-6-8-011316	1/13/2016	14:56	6-8'	Black ash material, brick fragments - FILL	FILL	6.5 to 8 ft.	8	NA	< 10	N	N	NA
TP-148-2-2.5-012516	1/25/2016	9:25	2-2.5'	SAND layer under concrete slab, concrete fragments - FILL	FILL	2 to 2.5 ft.	2.5	NA	< 10	N	N	NA
TP-149-6-8-011416*	1/14/2016	11:00	6-8'	Black medium SAND (coffee ground like material) - FILL	FILL	5.7 to 8 ft.	8	NA	< 10	N	N	NA
TP-150-4-6-011316*	1/13/2016	13:40	4-6'	Black ash/Black medium SAND (coffee ground like material) - FILL	FILL	2.9 to 6 ft.	6	NA	< 10	N	Petro	NA
TP-151-2-4-011316	1/13/2016	12:15	2-4'	Dark brown topsoil, SILT, black ash & brick - FILL	FILL	0 to 4 ft.	9	NA	< 10	N	Petro	NA
TP-152-2.5-3-012916	1/29/2016	10:20	2.5-3'	Dark brown SILTS mottled with coal ash, cinders, fine subrounded GRAVEL,		2.5 to 3 ft	3	NA	10 < X < 50	Slight	Petro	NA

Notes:
Locations without analytical sample(s) collected are not shown.

Table 3 - Well Construction and Groundwater Elevations
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

Well ID	Northing	Easting	UTM N	UTM E	Concrete Pad Elevation (ft amsl)	Top of Riser Elevation (ft amsl)	Screen Interval (ft bgs)	Slot Size (in.)	Filter Pack Type	Sand Pack Interval (ft bgs)	Seal Type	Seal Interval (ft bgs)	Well Depth (ft bgs)	Purpose	Round 1 Depth to Water (ft btoc)	Round 1 Depth to Water (ft amsl)	Round 2 Depth to Water (ft btoc)	Round 2 Depth to Water (ft amsl)	Depth to Water 8/22/17) (ft btoc)	Status
OVR-100	1144499.736	1405239.022	4779367.96831	286864.46168	511.43	513.72	3 -11	0.020	WG #0 Sand	2.5 -11	Bentonite	2 - 2.5	11	RI	9.2	504.52	7.62	506.10	NM	Active
OVR-101	1144317.789	1405086.357	4779314.54345	286815.59329	508.36	510.77	3 - 8	0.020	WG #0 Sand	2.5 - 8	Bentonite	2 - 2.5	8	RI	5.85	504.92	4.86	505.91	NM	Active
OVR-102	1144286.294	1405357.445	4779301.41738	286897.74700	512.70	515.48	4.5 - 14.5	0.020	WG #0 Sand	3.5 - 14.5	Bentonite	3 - 3.5	14.5	RI	9.65	505.83	9.2	506.28	NM	Active
OVR-103	1144022.011	1405129.258	4779223.90020	286824.80391	512.63	514.68	3 - 16	0.020	WG #0 Sand	2.5 - 16.1	Bentonite	2 - 2.5	16.1	RI	9.02	505.66	8.71	505.97	NM	Active
OVR-104	1143749.526	1404953.187	4779143.20554	286767.62669	511.71	514.01	3.4 - 17.4	0.020	WG #0 Sand	2.5 -17.4	Bentonite	2 - 2.5	17.4	RI	8.43	505.58	7.95	506.06	NM	Active
OVR-105	1144456.074	1405462.445	4779351.75789	286931.93961	515.95	518.19	5.8 - 15.8	0.020	WG #0 Sand	4 - 15.8	Bentonite	3.5 - 4	15.8	RI	11.04	507.15	10.58	507.61	NM	Active
OVR-106	1144384.328	1405333.889	4779331.58228	286891.85055	511.77	514.16	3 - 12.5	0.020	WG #0 Sand	2.5 - 12.5	Bentonite	2 - 2.5	12.5	RI	8.18	505.98	7.65	506.51	NM	Active
OVR-107	1144332.145	1405170.393	4779317.82036	286841.37496	511.47	513.59	3 - 12	0.020	WG #0 Sand	2.5 - 12	Bentonite	2 - 2.5	12	RI	9.9	503.69	6.65	506.94	NM	Active
OVR-108	1144193.662	1405065.253	4779277.01364	286807.54767	511.57	513.84	3.1 - 12.1	0.020	WG #0 Sand	3.1 - 12.1	Bentonite	2 - 2.5	12.1	RI	11.13	502.71	7.19	506.65	NM	Active
OVR-109	1144233.373	1405233.156	4779286.91959	286859.20291	514.57	517.06	3 - 15	0.020	WG #0 Sand	2.5 - 15	Bentonite	2 - 2.5	15	RI	10.03	507.03	9.71	507.35	NM	Active
OVR-110	1144186.323	1405367.501	4779270.83851	286899.50655	516.22	518.60	3.5 - 18.5	0.020	WG #0 Sand	3 - 18.5	Bentonite	2.5 - 3	18.5	RI	12.76	505.84	12.67	505.93	NM	Active
OVR-111	1144124.725	1405184.611	4779254.46188	286843.00148	512.91	515.26	3 - 14	0.020	WG #0 Sand	2.5 - 14	Bentonite	2 - 2.5	14	RI	9.68	505.58	9.36	505.90	NM	Active
OVR-112	1144027.016	1404948.631	4779227.77908	286769.85623	511.18	513.62	3 - 12	0.020	WG #0 Sand	2.5 - 12.2	Bentonite	2 - 2.5	12.2	RI	10.74	502.88	7.37	506.25	NM	Active
OVR-113	1143952.264	1405003.665	4779204.29474	286785.64333	512.70	515.18	3.8 - 14.8	0.020	WG #0 Sand	3 - 14.8	Bentonite	2 -3	14.8	RI	10.24	504.94	9.5	505.68	NM	Active
OVR-114	1143926.092	1405243.006	4779193.20377	286858.19739	518.06	520.38	4.2 - 22.2	0.020	WG #0 Sand	2.2 - 22.2	Bentonite	2 - 2.5	22.3	RI	14	506.38	14.35	506.03	NM	Active
OVR-115	1143751.933	1405205.515	4779140.64951	286844.50870	516.84	519.47	4.2 - 24.2	0.010	00N Sand	3.5 - 24.2	Bentonite	2.5 - 3.5	24.3	RI	13.15	506.32	13.67	505.80	NM	Active
OVR-116	1143638.017	1405139.637	4779106.81325	286822.95958	517.45	519.82	3.4 - 19.4	0.010	00N Sand	3.5 - 19.4	Bentonite	2 - 2.5	19.4	RI	13.35	506.47	13.69	506.13	NM	Active
OVR-117	1143807.262	1404893.106	4779161.57315	286750.08063	514.47	516.78	3.8 - 15.8	0.010	00N Sand	3 - 15.8	Bentonite	2 -3	15.8	RI	11.2	505.58	10.55	506.23	NM	Active
OVR-118	1143934.707	1404751.113	4779202.23955	286708.49558	510.83	513.17	3 - 9.5	0.010	00N Sand	2.5 - 9.5	Bentonite	2 - 2.5	9.5	RI	7	506.17	5.92	507.25	NM	Active
OVR-119	1143733.902	1404886.843	4779139.31179	286747.21687	512.32	514.91	3.1 - 16.1	0.010	00N Sand	2.5 - 16.1	Bentonite	2 - 2.5	16.1	RI	9.16	505.75	8.53	506.38	NM	Active
OVR-120	1143670.257	1404855.073	4779120.34178	286736.71118	514.19	516.44	3.2 - 18.2	0.010	00N Sand	3 - 18.2	Bentonite	2 -3	18.6	RI	10.88	505.56	9.27	507.17	NM	Active
OVR-121	1143392.994	1404957.796	4779034.55776	286764.38305	517.29	519.70	4 - 29	0.010	00N Sand	3 - 29	Bentonite	2 -3	29	RI	11.14	508.56	10.58	509.12	NM	Active
OVR-122	1143597.338	1404802.172	4779098.82266	286719.64880	514.16	516.41	3.4 - 17.4	0.010	00N Sand	3 - 17.4	Bentonite	2 -3	17.4	RI	8.69	507.72	8.18	508.23	NM	Active
OVR-123	1143741.247	1404630.308	4779144.89280	286669.18062	509.68	511.91	3 - 10	0.010	00N Sand	2.5 - 10	Bentonite	2 - 2.5	10	RI	6.43	505.48	5.55	506.36	NM	Active
OVR-124	1143562.332	1404700.136	4779089.49104	286688.11574	515.67	518.05	4.8 - 18.8	0.010	00N Sand	3 - 18.9	Bentonite	2 -3	18.9	RI	10.25	507.80	9.62	508.43	NM	Active
OVR-125	1143417.960	1404741.264	4779044.98404	286698.76007	515.76	518.14	5 - 21	0.010	00N Sand	3 - 21.1	Bentonite	2 -3	21.1	RI	10.08	508.06	9.32	508.82	NM	Active
OVR-126	1143293.389	1404748.140	4779006.95424	286699.23050	520.03	522.46	8 - 28	0.020	WG #0 Sand	6 - 28	Bentonite	4 - 6	28	RI	13.19	509.27	13.02	509.44	NM	Active
OVR-127	1143361.058	1404539.037	4779030.28960	286636.42675	518.16	520.55	4.7 - 18.7	0.010	00N Sand	3.5 - 18.7	Bentonite	2 - 3.5	18.7	RI	12.17	508.38	11.4	509.15	NM	Active
OVR-128	1143374.279	1404278.103	4779037.71752	286557.12723	514.84	517.20	5.5 - 15.5	0.010	00N Sand	4 - 15.5	Bentonite	2 - 4	15.5	RI	10.61	506.59	9.2	508.00	NM	Active
OVR-129	1143185.805	1403965.136	4778984.39403	286459.35107	523.27	525.57	4.9 - 16.9	0.010	00N Sand	3 - 16.9	Bentonite	2 -3	16.9	RI	12.42	513.15	12.16	513.41	NM	Active
OVR-130	1144412.876	1405157.063	4779342.58206	286838.36746	509.46	511.81	3 -9	0.020	WG #0 Sand	2.5 - 9	Bentonite	2 - 2.5	9	RI	7.09	504.72	6.01	505.80	NM	Active
OVR-131	1144524.803	1405241.112	4779375.57563	286865.42499	511.56	513.87	3 - 11	0.020	WG #0 Sand	2.5 - 11	Bentonite	2 - 2.5	11	RI	9.01	504.86	8.2	505.67	NM	Active
OVR-132	1144449.250	1405265.451	4779352.24746	286871.85295	510.82	513.28	3 - 11	0.020	WG #0 Sand	2.5 - 11	Bentonite	2 - 2.5	11	RI	8.09	505.19	5.93	507.35	NM	Active
BED1-100	1144498.848	1405248.838	4779367.56990	286867.43973	511.18	512.70	18 - 23	0.020	WG #0 Sand	16 - 23	Bentonite-Grout	0 - 16	23	RI	4.17	508.53	3.85	508.85	NM	Active
BED1-101	1144311.025	1405084.059	4779312.51332	286814.80522	508.11	510.20	15.1 -20.1	0.020	WG #0 Sand	13 - 20.1	Bentonite-Grout	0 - 13	20.1	RI	1.7	508.50	1.34	508.86	NM	Active
BED1-102	1144295.203	1405364.918	4779304.03335	286900.13915	513.50	514.98	22.5 - 27.5	0.020	WG #0 Sand	20.5 - 27.5	Bentonite-Grout	0 - 20.5	27.5	RI	6.52	508.46	6.19	508.79	NM	Active
BED1-103	1144006.762	1405124.130	4779219.32271	286823.04331	512.39	514.74	22.5 - 27.5	0.020	WG #0 Sand	20 - 27.5	Bentonite-Grout	0 - 20	27.5	RI	6.45	508.29	6.08	508.66	NM	Active

Table 3 - Well Construction and Groundwater Elevations
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

Well ID	Northing	Easting	UTM N	UTM E	Concrete Pad Elevation (ft amsl)	Top of Riser Elevation (ft amsl)	Screen Interval (ft bgs)	Slot Size (in.)	Filter Pack Type	Sand Pack Interval (ft bgs)	Seal Type	Seal Interval (ft bgs)	Well Depth (ft bgs)	Purpose	Round 1 Depth to Water (ft btoc)	Round 1 Depth to Water (ft amsl)	Round 2 Depth to Water (ft btoc)	Round 2 Depth to Water (ft amsl)	Depth to Water 8/22/17) (ft btoc)	Status
BED1-104	1143738.057	1404955.774	4779139.67874	286768.26511	512.03	513.74	23.9 - 28.9	0.020	WG #0 Sand	21.9 - 28.9	Bentonite-Grout	0 - 21.9	28.9	RI	3.42	510.32	3.29	510.45	NM	Active
MW-3	1144095.65	1404885.62	4779249.50406	286751.55986	510.12	511.95	2 - 6	0.010	Choke Sand - 001	1.5 - 6	Cement-Bentonite	1 - 1.5	6.00	NYSDEC	5.97	505.98	4.82	507.13	NM	Active
GW-101*	*1143728.469*	*1404498.668*	4779142.71699	286628.92089	Not surveyed	Not surveyed	3 - 8	0.010	00N Sand	2 - 8	Bentonite	0.5 - 3	8	RI	NM	NA	NM	NA	2.65	Temporary - Decommissioned
GW-102*	*1143800.364*	*1404559.578*	4779163.81985	286648.40922	Not surveyed	Not surveyed	2.5 - 7.5	0.010	00N Sand	1.5 - 7.5	Bentonite	0.5 - 1.5	7.5	RI	NM	NA	NM	NA	6.78	Temporary - Decommissioned
GW-103*	*1143619.787*	*1404493.844*	4779109.67894	286626.03498	Not surveyed	Not surveyed	4.5 - 11.5	0.010	00N Sand	3.5 - 11.5	Bentonite	0.5 - 3.5	11.5	RI	NM	NA	NM	NA	5.47	Temporary - Decommissioned
GW-104*	*1143442.166*	*1404205.117*	4779059.34503	286535.78301	Not surveyed	Not surveyed	12.5 - 17.5	0.010	00N Sand	11.5 - 17.5	Bentonite	1.0 - 11.5	17.5	RI	NM	NA	NM	NA	11.91	Temporary - Decommissioned
GW-105*	*1143437.666*	*1404184.223*	4779058.24683	286529.36073	Not surveyed	Not surveyed	11 - 16	0.010	00N Sand	9 - 16	Bentonite	1.5 - 9	16	RI	NM	NA	NM	NA	9.3	Temporary - Decommissioned
GW-106*	*1143216.612*	*1403965.937*	4778993.76639	286459.99659	Not surveyed	Not surveyed	11 - 16	0.010	00N Sand	10 - 16	Bentonite	1.5 - 10	16	RI	NM	NA	NM	NA	11.5	Temporary - Decommissioned
GW-107*	*1143187.375*	*1403873.555*	4778986.06594	286431.47896	Not surveyed	Not surveyed	11 - 16	0.010	00N Sand	10 - 16	Bentonite	1.5 - 10	16	RI	NM	NA	NM	NA	11.88	Temporary - Decommissioned
GW-108*	*1143173.886*	*1403825.255*	4778982.58721	286416.59254	Not surveyed	Not surveyed	11 - 16	0.010	00N Sand	10 - 16	Bentonite	1.5 - 10	16	RI	NM	NA	NM	NA	16.18	Temporary - Decommissioned

NOTES:
ft amsl - feet above mean sea level
ft bgs - feet below ground surface
- feet below top of casing
Horizontal Datum: NAD 1983 State Plane New York West
ID - identification
in. - inches
NA - Not Available
RI - Remedial Investigation
NM = Not measured
* = Temporary groundwater grab points were collected via GPS.

Table 4 - Hydraulic Conductivity Test Results
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

Location ID	Date Installed	Well Depth (ft)	Screened Length (ft)	Well Diameter (inch)	Top of Screen Depth (ft)		Bottom of Screen Depth (ft)	Geologic Unit Screened	Date of Slug Test	Hydraulic Conductivity Slug Tests					
										Estimated Hydraulic Conductivity				Geometric Mean	
										Rising Head		Falling Head			
										(cm/sec)	(ft/d)	(cm/sec)	(ft/d)	(cm/sec)	(ft/d)
BED1-100	4/28/2016	23.75	5	2	19.7	-	24.7	Bedrock	10/19/16	1.64E-03	4.68	1.62E-03	4.62	1.63E-03	4.65
BED1-101	4/27/2016	21.72	5	2	17.3	-	22.3	Bedrock	10/19/16	1.15E-02	32.9	1.06E-02	30.4	1.11E-02	31.6
BED1-102	4/25/2016	28.92	5	2	24.2	-	29.2	Bedrock	10/19/16	8.67E-02	247.6	NA	NA	8.67E-02	247.6
BED1-103	4/26/2016	29.8	5	2	25.0	-	30.0	Bedrock	10/19/16	8.42E-03	24.06	9.37E-03	26.77	8.88E-03	25.38
BED1-104	4/26/2016	30.35	5	2	25.9	-	30.9	Bedrock	10/18/16	3.85E-04	1.1	3.66E-04	1.0	3.75E-04	1.1
OVR-102*	3/30/2016	17.13	10	2	7.3	-	17.3	Overburden	10/18/16	2.49E-04	0.7	NA	NA	2.49E-04	0.7
OVR-106*	4/12/2016	14.75	9.5	2	5.4	-	14.9	Overburden	10/20/16	4.47E-04	1.3	NA	NA	4.47E-04	1.3
OVR-107*	4/12/2016	13.93	9	2	5.3	-	14.3	Overburden	10/19/16	3.77E-05	0.1	NA	NA	3.77E-05	0.1
OVR-111*	4/11/2016	14.78	11	2	5.4	-	16.4	Overburden	10/19/16	4.97E-03	14.2	NA	NA	4.97E-03	14.2
OVR-113*	4/8/2016	16.06	11	2	6.3	-	17.3	Overburden	10/19/16	7.35E-03	21.0	NA	NA	7.35E-03	21.0
OVR-115*	4/1/2016	25.8	20	2	6.8	-	26.8	Overburden	10/18/16	6.04E-04	1.7	NA	NA	6.04E-04	1.7
OVR-123*	4/13/2016	11.98	7	2	6.3	-	17.3	Overburden	10/19/16	9.80E-04	2.80	NA	NA	9.80E-04	2.8
OVR-125*	4/4/2016	22.65	16	2	7.4	-	23.4	Overburden	10/18/16	6.49E-03	18.55	NA	NA	6.49E-03	18.55
OVR-129*	4/5/2016	19.2	12	2	7.2	-	19.2	Overburden	10/19/16	9.73E-02	278.0	NA	NA	9.73E-02	278.0
OVR-131*	4/15/2016	12.85	8	2	5.4	-	13.4	Overburden	10/20/16	1.48E-02	42.4	NA	NA	1.48E-02	42.4
MW-3*	NA	8.02	4	2	4.3	-	8.3	Overburden	10/18/16	5.02E-03	14.336	NA	NA	5.02E-03	14.34

Notes:
* - Only rising test performed
NA - Not Available

Table 5A - Surface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-100	SS-101	SS-102	SS-103
			Sample ID	SS-100-0-0.17-092016	SS-101-0-0.17-092016	SS-102-0-0.17-092016	SS-103-0-0.17-092016
			Sample Date	9/20/2016	9/20/2016	9/20/2016	9/20/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1609909	R1609909	R1609909	R1609909
			Start Depth	0	0	0	0
			End Depth	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]				
VOCs							
1,1,1-Trichloroethane	71-55-6	100,000	100,000	13 U	4.9 U	5.1 U	6.4 U
1,1,2,2-Tetrachloroethane	79-34-5	35000[CP]	NC	13 U	4.9 U	5.1 U	6.4 U
1,1,2-Trichloroethane	79-00-5	NC	NC	13 U	4.9 U	5.1 U	6.4 U
1,1-Dichloroethane	75-34-3	19,000	26,000	13 U	4.9 U	5.1 U	6.4 U
1,1-Dichloroethene	75-35-4	100,000	100,000	13 U	4.9 U	5.1 U	6.4 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	13 U	4.9 U	5.1 U	6.4 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	13 U	4.9 U	5.1 U	6.4 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	13 U	4.9 U	5.1 U	6.4 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	13 U	4.9 UJ	5.1 UJ	6.4 UJ
1,2-Dibromoethane	106-93-4	NC	NC	13 U	4.9 U	5.1 U	6.4 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	13 U	4.9 U	5.1 U	6.4 U
1,2-Dichloroethane	107-06-2	2300	3100	13 U	4.9 U	5.1 U	6.4 U
1,2-Dichloropropane	78-87-5	NC	NC	13 U	4.9 U	5.1 U	6.4 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	13 U	4.9 U	5.1 U	6.4 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	13 U	4.9 U	5.1 U	6.4 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	13 U	4.9 U	5.1 U	6.4 U
1,4-Dioxane	123-91-1	9,800	13,000	250 R	98 R	100 R	130 R
2-Butanone	78-93-3	100,000 100,000[CP]	100,000	13 UJ	4.9 UJ	5.1 UJ	6.4 UJ
2-Hexanone	591-78-6	NC	NC	13 UJ	4.9 UJ	5.1 UJ	6.4 UJ
4-Isopropyltoluene	99-87-6	NC	NC	13 U	4.9 U	5.1 U	6.4 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	13 UJ	4.9 UJ	5.1 UJ	6.4 UJ
Acetone	67-64-1	100,000	100,000	130	4.9 U	9.4	6.4 U
Benzene	71-43-2	2,900	4,800	13 U	4.9 U	5.1 U	6.4 U
Bromochloromethane	74-97-5	NC	NC	13 U	4.9 U	5.1 U	6.4 U
Bromodichloromethane	75-27-4	NC	NC	13 U	4.9 U	5.1 U	6.4 U
Bromoform	75-25-2	NC	NC	13 U	4.9 U	5.1 U	6.4 U
Bromomethane	74-83-9	NC	NC	13 U	4.9 U	5.1 U	6.4 U
Carbon disulfide	75-15-0	100,000[CP]	NC	13 U	4.9 U	5.1 U	6.4 U
Carbon Tetrachloride	56-23-5	1400	2,400	13 U	4.9 U	5.1 U	6.4 U
Chlorobenzene	108-90-7	100,000	100,000	13 U	4.9 U	5.1 U	6.4 U
Chloroethane	75-00-3	NC	NC	13 U	4.9 U	5.1 U	6.4 U
Chloroform	67-66-3	10,000	49,000	13 U	4.9 U	5.1 U	6.4 U
Chloromethane	74-87-3	NC	NC	13 U	4.9 U	5.1 U	6.4 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	13 U	4.9 U	5.1 U	6.4 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	13 U	4.9 U	5.1 U	6.4 U
Cyclohexane	110-82-7	NC	NC	13 U	4.9 U	5.1 U	6.4 U
Dibromochloromethane	124-48-1	NC	NC	13 U	4.9 U	5.1 U	6.4 U
Dichlorodifluoromethane	75-71-8	NC	NC	13 U	4.9 U	5.1 U	6.4 U
Ethylbenzene	100-41-4	30,000	41,000	13 U	4.9 U	5.1 U	6.4 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	13 U	4.9 U	5.1 U	6.4 U
M,P-XYLENE	XYLMP	NC	NC	25 U	9.8 U	10 U	13 U
Methyl Acetate	79-20-9	NC	NC	13 U	4.9 U	5.1 U	6.4 U
Methylcyclohexane	108-87-2	NC	NC	13 U	4.9 U	5.1 U	6.4 U
Methylene Chloride	75-09-2	51,000	100,000	13 U	4.9 U	5.1 U	0.75 J
MTBE	1634-04-4	62,000	100,000	5.8 J	4.9 U	5.1 U	6.4 U
n-Butylbenzene	104-51-8	100,000	100,000	13 U	4.9 U	5.1 U	6.4 U
n-Propylbenzene	103-65-1	100,000	100,000	13 U	4.9 U	5.1 U	6.4 U
o-Xylene	95-47-6	NC	NC	13 U	4.9 U	5.1 U	6.4 U
sec-Butylbenzene	135-98-8	100,000	100,000	13 U	4.9 U	5.1 U	6.4 U
Styrene	100-42-5	NC	NC	13 U	4.9 U	5.1 U	6.4 U
Tert-Butylbenzene	98-06-6	100,000	100,000	13 U	4.9 U	5.1 U	6.4 U
Tetrachloroethene	127-18-4	5,500	19,000	13 U	4.9 U	5.1 U	6.4 U
Toluene	108-88-3	100,000	100,000	13 U	4.9 U	5.1 U	6.4 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	13 U	4.9 U	5.1 U	6.4 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	13 U	4.9 U	5.1 U	6.4 U
Trichloroethene	79-01-6	10,000	21,000	13 U	4.9 U	5.1 U	6.4 U
Trichlorofluoromethane	75-69-4	NC	NC	13 U	4.9 U	5.1 U	6.4 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	NC	13 U	4.9 U	5.1 U	6.4 U
Vinyl Chloride	75-01-4	210	900	13 U	4.9 U	5.1 U	6.4 U
Total VOC TICs	NA	NC	NC	191	119.7	52.2	0

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51

Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5A - Surface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-104	SS-105	SS-106	SS-107
			Sample ID	SS-104-0-0.17-091916	SS-105-0-0.17-091916	SS-106-0-0.17-091916	SS-107-0-0.17-091916
			Sample Date	9/19/2016	9/19/2016	9/19/2016	9/19/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1609864	R1609864	R1609864	R1609864
			Start Depth	0	0	0	0
			End Depth	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]				
VOCs							
1,1,1-Trichloroethane	71-55-6	100,000	100,000	7.6 U	8.4 U	13 U	4.8 U
1,1,2,2-Tetrachloroethane	79-34-5	35000[CP]	NC	7.6 UJ	8.4 UJ	13 U	4.8 U
1,1,2-Trichloroethane	79-00-5	NC	NC	7.6 U	8.4 U	13 U	4.8 U
1,1-Dichloroethane	75-34-3	19,000	26,000	7.6 U	8.4 U	13 U	4.8 U
1,1-Dichloroethene	75-35-4	100,000	100,000	7.6 U	8.4 U	13 U	4.8 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	7.6 UJ	8.4 UJ	13 U	4.8 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	7.6 UJ	8.4 UJ	13 U	4.8 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	7.6 UJ	8.4 UJ	13 U	4.8 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	7.6 UJ	8.4 UJ	13 U	4.8 U
1,2-Dibromoethane	106-93-4	NC	NC	7.6 U	8.4 U	13 U	4.8 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	7.6 UJ	8.4 UJ	13 U	4.8 U
1,2-Dichloroethane	107-06-2	2300	3100	7.6 U	8.4 U	13 U	4.8 U
1,2-Dichloropropane	78-87-5	NC	NC	7.6 U	8.4 U	13 U	4.8 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	7.6 UJ	8.4 UJ	13 U	4.8 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	7.6 UJ	8.4 UJ	13 U	4.8 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	7.6 UJ	8.4 UJ	13 U	4.8 U
1,4-Dioxane	123-91-1	9,800	13,000	150 R	170 R	250 R	95 R
2-Butanone	78-93-3	100,000 100,000[CP]	100,000	7.6 UJ	4 J	6.3 J	4.8 UJ
2-Hexanone	591-78-6	NC	NC	7.6 UJ	8.4 UJ	13 J	4.8 UJ
4-Isopropyltoluene	99-87-6	NC	NC	7.6 UJ	8.4 UJ	13 U	4.8 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	7.6 UJ	8.4 UJ	13 J	4.8 UJ
Acetone	67-64-1	100,000	100,000	14	42	46	4.8 U
Benzene	71-43-2	2,900	4,800	7.6 U	8.4 U	13 U	4.8 U
Bromochloromethane	74-97-5	NC	NC	7.6 U	8.4 U	13 U	4.8 U
Bromodichloromethane	75-27-4	NC	NC	7.6 U	8.4 U	13 U	4.8 U
Bromoform	75-25-2	NC	NC	7.6 U	8.4 U	13 U	4.8 U
Bromomethane	74-83-9	NC	NC	7.6 U	8.4 U	13 U	4.8 U
Carbon disulfide	75-15-0	100,000[CP]	NC	7.6 U	8.4 U	13 U	4.8 U
Carbon Tetrachloride	56-23-5	1400	2,400	7.6 U	8.4 U	13 U	4.8 U
Chlorobenzene	108-90-7	100,000	100,000	7.6 U	8.4 U	13 U	4.8 U
Chloroethane	75-00-3	NC	NC	7.6 U	8.4 U	13 U	4.8 U
Chloroform	67-66-3	10,000	49,000	7.6 U	8.4 U	13 U	4.8 U
Chloromethane	74-87-3	NC	NC	7.6 U	8.4 U	13 U	4.8 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	7.6 U	8.4 U	13 U	4.8 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	7.6 U	8.4 U	13 U	4.8 U
Cyclohexane	110-82-7	NC	NC	7.6 U	8.4 U	13 U	4.8 U
Dibromochloromethane	124-48-1	NC	NC	7.6 U	8.4 U	13 U	4.8 U
Dichlorodifluoromethane	75-71-8	NC	NC	7.6 U	8.4 U	13 U	4.8 U
Ethylbenzene	100-41-4	30,000	41,000	7.6 U	8.4 U	13 U	4.8 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	7.6 U	8.4 U	13 U	4.8 U
M,P-XYLENE	XYLMP	NC	NC	15 U	17 U	25 U	9.5 U
Methyl Acetate	79-20-9	NC	NC	7.6 U	8.4 U	13 U	4.8 U
Methylcyclohexane	108-87-2	NC	NC	7.6 U	8.4 U	13 U	4.8 U
Methylene Chloride	75-09-2	51,000	100,000	7.6 U	8.4 U	13 U	4.8 U
MTBE	1634-04-4	62,000	100,000	7.6 U	8.4 U	13 U	4.8 U
n-Butylbenzene	104-51-8	100,000	100,000	7.6 UJ	8.4 UJ	13 U	4.8 U
n-Propylbenzene	103-65-1	100,000	100,000	7.6 UJ	8.4 UJ	13 U	4.8 U
o-Xylene	95-47-6	NC	NC	7.6 U	8.4 U	13 U	4.8 U
sec-Butylbenzene	135-98-8	100,000	100,000	7.6 UJ	8.4 UJ	13 U	4.8 U
Styrene	100-42-5	NC	NC	7.6 U	8.4 U	13 U	4.8 U
Tert-Butylbenzene	98-06-6	100,000	100,000	7.6 UJ	8.4 UJ	13 U	4.8 U
Tetrachloroethene	127-18-4	5,500	19,000	7.6 U	8.4 U	13 U	4.8 U
Toluene	108-88-3	100,000	100,000	7.6 U	8.4 U	13 U	4.8 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	7.6 U	8.4 U	13 U	4.8 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	7.6 U	8.4 U	13 U	4.8 U
Trichloroethene	79-01-6	10,000	21,000	7.6 U	8.4 U	13 U	4.8 U
Trichlorofluoromethane	75-69-4	NC	NC	7.6 U	8.4 U	13 U	4.8 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	NC	7.6 U	8.4 U	13 U	4.8 U
Vinyl Chloride	75-01-4	210	900	7.6 U	8.4 U	13 U	4.8 U
Total VOC TICs	NA	NC	NC	79	19.5	71	67.8

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5A - Surface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-108	SS-111	SS-112	SS-114
			Sample ID	SS-108-0-0.17-091916	SS-111-0-0.17-091916	SS-112-0-0.17-091916	SS-114-0-0.17-092016
			Sample Date	9/19/2016	9/19/2016	9/19/2016	9/20/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1609864	R1609864	R1609864	R1609909
			Start Depth	0	0	0	0
			End Depth	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]				
VOCs							
1,1,1-Trichloroethane	71-55-6	100,000	100,000	3.1 U	7.5 U	3.7 U	11 U
1,1,2,2-Tetrachloroethane	79-34-5	35000[CP]	NC	3.1 U	7.5 U	3.7 U	11 UJ
1,1,2-Trichloroethane	79-00-5	NC	NC	3.1 U	7.5 U	3.7 U	11 U
1,1-Dichloroethane	75-34-3	19,000	26,000	3.1 U	7.5 U	3.7 U	11 U
1,1-Dichloroethene	75-35-4	100,000	100,000	3.1 U	7.5 U	3.7 U	11 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	3.1 U	7.5 U	3.7 U	11 UJ
1,2,4-Trichlorobenzene	120-82-1	NC	NC	3.1 U	7.5 U	3.7 U	11 UJ
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	3.1 U	7.5 U	3.7 U	11 UJ
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	3.1 U	7.5 U	3.7 UJ	11 UJ
1,2-Dibromoethane	106-93-4	NC	NC	3.1 U	7.5 U	3.7 U	11 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	3.1 U	7.5 U	3.7 U	11 UJ
1,2-Dichloroethane	107-06-2	2300	3100	3.1 U	7.5 U	3.7 U	11 U
1,2-Dichloropropane	78-87-5	NC	NC	3.1 U	7.5 U	3.7 U	11 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	3.1 U	7.5 U	3.7 U	11 UJ
1,3-Dichlorobenzene	541-73-1	17,000	49,000	3.1 U	7.5 U	3.7 U	11 UJ
1,4-Dichlorobenzene	106-46-7	9,800	13,000	3.1 U	7.5 U	3.7 U	11 UJ
1,4-Dioxane	123-91-1	9,800	13,000	61 R	150 R	75 R	220 R
2-Butanone	78-93-3	100,000 100,000[CP]	100,000	3.1 UJ	5.8 J	3.7 UJ	11 U
2-Hexanone	591-78-6	NC	NC	3.1 UJ	7.5 UJ	3.7 UJ	11 U
4-Isopropyltoluene	99-87-6	NC	NC	3.1 U	7.5 U	3.7 U	11 UJ
4-Methyl-2-Pentanone	108-10-1	NC	NC	3.1 UJ	7.5 UJ	3.7 UJ	11 U
Acetone	67-64-1	100,000	100,000	3.1 U	100	4.2	11 U
Benzene	71-43-2	2,900	4,800	3.1 U	7.5 U	3.7 U	11 U
Bromochloromethane	74-97-5	NC	NC	3.1 U	7.5 U	3.7 U	11 U
Bromodichloromethane	75-27-4	NC	NC	3.1 U	7.5 U	3.7 U	11 U
Bromoform	75-25-2	NC	NC	3.1 U	7.5 U	3.7 U	11 U
Bromomethane	74-83-9	NC	NC	3.1 U	7.5 U	3.7 U	11 U
Carbon disulfide	75-15-0	100,000[CP]	NC	3.1 U	7.5 U	3.7 U	11 U
Carbon Tetrachloride	56-23-5	1400	2,400	3.1 U	7.5 U	3.7 U	11 U
Chlorobenzene	108-90-7	100,000	100,000	3.1 U	7.5 U	3.7 U	11 U
Chloroethane	75-00-3	NC	NC	3.1 U	7.5 U	3.7 U	11 U
Chloroform	67-66-3	10,000	49,000	3.1 U	7.5 U	3.7 U	11 U
Chloromethane	74-87-3	NC	NC	3.1 U	7.5 U	3.7 U	11 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	3.1 U	7.5 U	3.7 U	11 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	3.1 U	7.5 U	3.7 U	11 U
Cyclohexane	110-82-7	NC	NC	3.1 U	7.5 U	3.7 U	11 UJ
Dibromochloromethane	124-48-1	NC	NC	3.1 U	7.5 U	3.7 U	11 U
Dichlorodifluoromethane	75-71-8	NC	NC	3.1 U	7.5 U	3.7 U	11 U
Ethylbenzene	100-41-4	30,000	41,000	3.1 U	7.5 U	3.7 U	11 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	3.1 U	7.5 U	3.7 U	11 U
M,P-XYLENE	XYLMP	NC	NC	6.1 U	15 U	7.5 U	22 U
Methyl Acetate	79-20-9	NC	NC	3.1 U	7.5 U	3.7 U	11 U
Methylcyclohexane	108-87-2	NC	NC	3.1 U	7.5 U	3.7 U	11 UJ
Methylene Chloride	75-09-2	51,000	100,000	3.1 U	7.5 U	3.7 U	11 U
MTBE	1634-04-4	62,000	100,000	3.1 U	1.7 J	3.7 U	11 U
n-Butylbenzene	104-51-8	100,000	100,000	3.1 U	7.5 U	3.7 U	11 UJ
n-Propylbenzene	103-65-1	100,000	100,000	3.1 U	7.5 U	3.7 U	11 UJ
o-Xylene	95-47-6	NC	NC	3.1 U	7.5 U	3.7 U	11 U
sec-Butylbenzene	135-98-8	100,000	100,000	3.1 U	7.5 U	3.7 U	11 UJ
Styrene	100-42-5	NC	NC	3.1 U	7.5 U	3.7 U	11 U
Tert-Butylbenzene	98-06-6	100,000	100,000	3.1 U	7.5 U	3.7 U	11 UJ
Tetrachloroethene	127-18-4	5,500	19,000	3.1 U	7.5 U	3.7 U	11 U
Toluene	108-88-3	100,000	100,000	3.1 U	7.5 U	3.7 U	11 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	3.1 U	7.5 U	3.7 U	11 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	3.1 U	7.5 U	3.7 U	11 U
Trichloroethene	79-01-6	10,000	21,000	3.1 U	7.5 U	3.7 U	11 U
Trichlorofluoromethane	75-69-4	NC	NC	3.1 U	7.5 U	3.7 U	11 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	NC	3.1 U	7.5 U	3.7 U	11 U
Vinyl Chloride	75-01-4	210	900	3.1 U	7.5 U	3.7 U	11 U
Total VOC TICs	NA	NC	NC	23.5	254.6	109.2	88.2

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51

Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5A - Surface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-115	SS-121	SS-123	SS-129
			Sample ID	SS-115-0-0.17-092016	SS-121-0-0.17-092016	SS-123-0-0.17-092016	SS-129-0-0.17-092016
			Sample Date	9/20/2016	9/20/2016	9/20/2016	9/20/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1609909	R1609909	R1609909	R1609909
			Start Depth	0	0	0	0
			End Depth	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]				
VOCs							
1,1,1-Trichloroethane	71-55-6	100,000	100,000	6.2 U	5.2 U	8.3 U	9.1 U
1,1,2,2-Tetrachloroethane	79-34-5	35000[CP]	NC	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U
1,1,2-Trichloroethane	79-00-5	NC	NC	6.2 U	5.2 U	8.3 U	9.1 U
1,1-Dichloroethane	75-34-3	19,000	26,000	6.2 U	5.2 U	8.3 U	9.1 U
1,1-Dichloroethene	75-35-4	100,000	100,000	6.2 U	5.2 U	8.3 U	9.1 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	6.2 UJ	5.2 UJ	8.3 UJ	9.1 UJ
1,2-Dibromoethane	106-93-4	NC	NC	6.2 U	5.2 U	8.3 U	9.1 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U
1,2-Dichloroethane	107-06-2	2300	3100	6.2 U	5.2 U	8.3 U	9.1 U
1,2-Dichloropropane	78-87-5	NC	NC	6.2 U	5.2 U	8.3 U	9.1 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U
1,4-Dioxane	123-91-1	9,800	13,000	120 R	100 R	170 R	180 R
2-Butanone	78-93-3	100,000 100,000[CP]	100,000	6.2 U	5.2 U	8.3 UJ	9.1 UJ
2-Hexanone	591-78-6	NC	NC	6.2 U	5.2 U	8.3 UJ	9.1 UJ
4-Isopropyltoluene	99-87-6	NC	NC	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	6.2 U	5.2 U	8.3 UJ	9.1 UJ
Acetone	67-64-1	100,000	100,000	6.2 U	5.2 U	8.3 U	9.9
Benzene	71-43-2	2,900	4,800	6.2 U	5.2 U	8.3 U	9.1 U
Bromochloromethane	74-97-5	NC	NC	6.2 U	5.2 U	8.3 U	9.1 U
Bromodichloromethane	75-27-4	NC	NC	6.2 U	5.2 U	8.3 U	9.1 U
Bromoform	75-25-2	NC	NC	6.2 U	5.2 U	8.3 U	9.1 U
Bromomethane	74-83-9	NC	NC	6.2 U	5.2 U	8.3 U	9.1 U
Carbon disulfide	75-15-0	100,000[CP]	NC	6.2 U	5.2 U	8.3 U	9.1 U
Carbon Tetrachloride	56-23-5	1400	2,400	6.2 U	5.2 U	8.3 U	9.1 U
Chlorobenzene	108-90-7	100,000	100,000	6.2 U	5.2 U	8.3 U	9.1 U
Chloroethane	75-00-3	NC	NC	6.2 U	5.2 U	8.3 U	9.1 U
Chloroform	67-66-3	10,000	49,000	6.2 U	5.2 U	8.3 U	9.1 U
Chloromethane	74-87-3	NC	NC	6.2 U	5.2 U	8.3 U	9.1 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	6.2 U	5.2 U	8.3 U	9.1 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	6.2 U	5.2 U	8.3 U	9.1 U
Cyclohexane	110-82-7	NC	NC	6.2 UJ	5.2 UJ	8.3 U	9.1 U
Dibromochloromethane	124-48-1	NC	NC	6.2 U	5.2 U	8.3 U	9.1 U
Dichlorodifluoromethane	75-71-8	NC	NC	6.2 U	5.2 U	8.3 U	9.1 U
Ethylbenzene	100-41-4	30,000	41,000	6.2 U	5.2 U	8.3 U	9.1 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	6.2 U	5.2 U	8.3 U	9.1 U
M,P-XYLENE	XYLMP	NC	NC	12 U	10 U	17 U	18 U
Methyl Acetate	79-20-9	NC	NC	6.2 U	5.2 U	8.3 U	9.1 U
Methylcyclohexane	108-87-2	NC	NC	6.2 UJ	5.2 UJ	8.3 U	9.1 U
Methylene Chloride	75-09-2	51,000	100,000	6.2 U	5.2 U	8.3 U	1.8 J
MTBE	1634-04-4	62,000	100,000	6.2 U	5.2 U	8.3 U	9.1 U
n-Butylbenzene	104-51-8	100,000	100,000	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U
n-Propylbenzene	103-65-1	100,000	100,000	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U
o-Xylene	95-47-6	NC	NC	6.2 U	5.2 U	8.3 U	9.1 U
sec-Butylbenzene	135-98-8	100,000	100,000	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U
Styrene	100-42-5	NC	NC	6.2 U	5.2 U	8.3 U	9.1 U
Tert-Butylbenzene	98-06-6	100,000	100,000	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U
Tetrachloroethene	127-18-4	5,500	19,000	6.2 U	5.2 U	8.3 U	9.1 U
Toluene	108-88-3	100,000	100,000	6.2 U	5.2 U	8.3 U	9.1 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	6.2 U	5.2 U	8.3 U	9.1 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	6.2 U	5.2 U	8.3 U	9.1 U
Trichloroethene	79-01-6	10,000	21,000	6.2 U	5.2 U	8.3 U	9.1 U
Trichlorofluoromethane	75-69-4	NC	NC	6.2 U	5.2 U	8.3 U	9.1 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	NC	6.2 U	5.2 U	8.3 U	9.1 U
Vinyl Chloride	75-01-4	210	900	6.2 U	5.2 U	8.3 U	9.1 U
Total VOC TICs	NA	NC	NC	50.4	0	66	61.8

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5A - Surface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-131	SS-135	SS-136	SS-140
			Sample ID	SS-131-0-0.17-092016	SS-135-0-0.17-091916	SS-136-0-0.17-091916	SS-140-0-0.17-091916
			Sample Date	9/20/2016	9/19/2016	9/19/2016	9/19/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1609909	R1609864	R1609864	R1609864
			Start Depth	0	0	0	0
			End Depth	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]				
VOCs							
1,1,1-Trichloroethane	71-55-6	100,000	100,000	4.7 U	8.1 U	3.6 U	12 U
1,1,2,2-Tetrachloroethane	79-34-5	35000[CP]	NC	4.7 U	8.1 UJ	3.6 U	12 U
1,1,2-Trichloroethane	79-00-5	NC	NC	4.7 U	8.1 U	3.6 U	12 U
1,1-Dichloroethane	75-34-3	19,000	26,000	4.7 U	8.1 U	3.6 U	12 U
1,1-Dichloroethene	75-35-4	100,000	100,000	4.7 U	8.1 U	3.6 U	12 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	4.7 U	8.1 UJ	3.6 U	12 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	4.7 U	8.1 UJ	3.6 U	12 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	4.7 U	8.1 UJ	3.6 U	5.3 J
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	4.7 UJ	8.1 UJ	3.6 U	12 UJ
1,2-Dibromoethane	106-93-4	NC	NC	4.7 U	8.1 U	3.6 U	12 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	4.7 U	8.1 UJ	3.6 U	12 U
1,2-Dichloroethane	107-06-2	2300	3100	4.7 U	8.1 U	3.6 U	12 U
1,2-Dichloropropane	78-87-5	NC	NC	4.7 U	8.1 U	3.6 U	12 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	4.7 U	8.1 UJ	3.6 U	12 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	4.7 U	8.1 UJ	3.6 U	12 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	4.7 U	8.1 UJ	3.6 U	12 U
1,4-Dioxane	123-91-1	9,800	13,000	94 R	160 R	15 J	230 R
2-Butanone	78-93-3	100,000 100,000[CP]	100,000	3.3 J	8.1 UJ	3.6 UJ	12 UJ
2-Hexanone	591-78-6	NC	NC	4.7 UJ	8.1 UJ	3.6 UJ	12 UJ
4-Isopropyltoluene	99-87-6	NC	NC	4.7 U	8.1 UJ	3.6 U	2.6 J
4-Methyl-2-Pentanone	108-10-1	NC	NC	4.7 UJ	8.1 UJ	3.6 UJ	12 UJ
Acetone	67-64-1	100,000	100,000	35	8.1 U	3.6 U	53
Benzene	71-43-2	2,900	4,800	4.7 U	8.1 U	3.6 U	12 U
Bromochloromethane	74-97-5	NC	NC	4.7 U	8.1 U	3.6 U	12 U
Bromodichloromethane	75-27-4	NC	NC	4.7 U	8.1 U	3.6 U	12 U
Bromoform	75-25-2	NC	NC	4.7 U	8.1 U	3.6 U	12 U
Bromomethane	74-83-9	NC	NC	4.7 U	8.1 U	3.6 U	12 U
Carbon disulfide	75-15-0	100,000[CP]	NC	4.7 U	8.1 U	3.6 U	12 U
Carbon Tetrachloride	56-23-5	1400	2,400	4.7 U	8.1 U	3.6 U	12 U
Chlorobenzene	108-90-7	100,000	100,000	4.7 U	8.1 U	3.6 U	12 U
Chloroethane	75-00-3	NC	NC	4.7 U	8.1 U	3.6 U	12 U
Chloroform	67-66-3	10,000	49,000	4.7 U	8.1 U	3.6 U	12 U
Chloromethane	74-87-3	NC	NC	4.7 U	8.1 U	3.6 U	12 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	4.7 U	8.1 U	3.6 U	12 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	4.7 U	8.1 U	3.6 U	12 U
Cyclohexane	110-82-7	NC	NC	4.7 U	8.1 U	3.6 U	12 U
Dibromochloromethane	124-48-1	NC	NC	4.7 U	8.1 U	3.6 U	12 U
Dichlorodifluoromethane	75-71-8	NC	NC	4.7 U	8.1 U	3.6 U	12 U
Ethylbenzene	100-41-4	30,000	41,000	4.7 U	8.1 U	3.6 U	12 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	4.7 U	8.1 U	3.6 U	2.8 J
M,P-XYLENE	XYLMP	NC	NC	9.4 U	16 U	7.3 U	23 U
Methyl Acetate	79-20-9	NC	NC	2.8 J	8.1 U	3.6 U	7.7 J
Methylcyclohexane	108-87-2	NC	NC	4.7 U	8.1 U	3.6 U	12 U
Methylene Chloride	75-09-2	51,000	100,000	4.7 U	8.1 U	3.6 U	12 U
MTBE	1634-04-4	62,000	100,000	1.2 J	8.1 U	3.6 U	12 U
n-Butylbenzene	104-51-8	100,000	100,000	4.7 U	8.1 UJ	3.6 U	12 U
n-Propylbenzene	103-65-1	100,000	100,000	4.7 U	8.1 UJ	3.6 U	12 U
o-Xylene	95-47-6	NC	NC	4.7 U	8.1 U	3.6 U	12 U
sec-Butylbenzene	135-98-8	100,000	100,000	4.7 U	8.1 UJ	3.6 U	12 U
Styrene	100-42-5	NC	NC	4.7 U	8.1 U	3.6 U	12 U
Tert-Butylbenzene	98-06-6	100,000	100,000	4.7 U	8.1 UJ	3.6 U	8.3 J
Tetrachloroethene	127-18-4	5,500	19,000	4.7 U	8.1 U	3.6 U	12 U
Toluene	108-88-3	100,000	100,000	4.7 U	8.1 U	3.6 U	12 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	4.7 U	8.1 U	3.6 U	12 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	4.7 U	8.1 U	3.6 U	12 U
Trichloroethene	79-01-6	10,000	21,000	4.7 U	8.1 U	3.6 U	12 U
Trichlorofluoromethane	75-69-4	NC	NC	4.7 U	8.1 U	3.6 U	12 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	NC	4.7 U	8.1 U	3.6 U	12 U
Vinyl Chloride	75-01-4	210	900	4.7 U	8.1 U	3.6 U	12 U
Total VOC TICs	NA	NC	NC	58	0	77	0

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51

Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5A - Surface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-143	SS-146	SS-148	SS-150
			Sample ID	SS-143-0-0.17-091916	SS-146-0-0.17-091916	SS-148-0-0.17-092016	DUP-006-091916
			Sample Date	9/19/2016	9/19/2016	9/20/2016	9/19/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1609864	R1609864	R1609909	R1609864
			Start Depth	0	0	0	0
			End Depth	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]				
VOCs							
1,1,1-Trichloroethane	71-55-6	100,000	100,000	4.8 U	4.4 U	6.2 U	3.8 U
1,1,2,2-Tetrachloroethane	79-34-5	35000[CP]	NC	4.8 U	4.4 U	6.2 U	3.8 U
1,1,2-Trichloroethane	79-00-5	NC	NC	4.8 U	4.4 U	6.2 UJ	3.8 U
1,1-Dichloroethane	75-34-3	19,000	26,000	4.8 U	4.4 U	6.2 U	3.8 U
1,1-Dichloroethene	75-35-4	100,000	100,000	4.8 U	4.4 U	6.2 U	3.8 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	4.8 U	4.4 U	6.2 U	3.8 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	4.8 U	4.4 U	6.2 U	3.8 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	4.8 U	4.4 U	6.2 U	3.8 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	4.8 U	4.4 U	6.2 UJ	3.8 U
1,2-Dibromoethane	106-93-4	NC	NC	4.8 U	4.4 U	6.2 UJ	3.8 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	4.8 U	4.4 U	6.2 U	3.8 U
1,2-Dichloroethane	107-06-2	2300	3100	4.8 U	4.4 U	6.2 U	3.8 U
1,2-Dichloropropane	78-87-5	NC	NC	4.8 U	4.4 U	6.2 U	3.8 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	4.8 U	4.4 U	6.2 U	3.8 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	4.8 U	4.4 U	6.2 U	3.8 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	4.8 U	4.4 U	6.2 U	3.8 U
1,4-Dioxane	123-91-1	9,800	13,000	97 R	87 R	120 R	77 R
2-Butanone	78-93-3	100,000 100,000[CP]	100,000	4.8 UJ	4.4 UJ	6.2 UJ	3.8 UJ
2-Hexanone	591-78-6	NC	NC	4.8 UJ	4.4 UJ	6.2 R	3.8 UJ
4-Isopropyltoluene	99-87-6	NC	NC	4.8 U	4.4 U	6.2 U	3.8 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	4.8 UJ	4.4 UJ	6.2 UJ	3.8 UJ
Acetone	67-64-1	100,000	100,000	4.8 U	25	6.2 U	3.8 U
Benzene	71-43-2	2,900	4,800	4.8 U	4.4 U	6.2 U	3.8 U
Bromochloromethane	74-97-5	NC	NC	4.8 U	4.4 U	6.2 U	3.8 U
Bromodichloromethane	75-27-4	NC	NC	4.8 U	4.4 U	6.2 U	3.8 U
Bromoform	75-25-2	NC	NC	4.8 U	4.4 U	6.2 U	3.8 U
Bromomethane	74-83-9	NC	NC	4.8 U	4.4 U	6.2 R	3.8 U
Carbon disulfide	75-15-0	100,000[CP]	NC	4.8 U	4.4 U	6.2 U	3.8 U
Carbon Tetrachloride	56-23-5	1400	2,400	4.8 U	4.4 U	6.2 U	3.8 U
Chlorobenzene	108-90-7	100,000	100,000	4.8 U	4.4 U	6.2 UJ	3.8 U
Chloroethane	75-00-3	NC	NC	4.8 U	4.4 U	6.2 U	3.8 U
Chloroform	67-66-3	10,000	49,000	4.8 U	4.4 U	6.2 U	3.8 U
Chloromethane	74-87-3	NC	NC	4.8 U	4.4 U	6.2 U	3.8 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	4.8 U	4.4 U	6.2 U	3.8 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	4.8 U	4.4 U	6.2 UJ	3.8 U
Cyclohexane	110-82-7	NC	NC	4.8 U	4.4 U	6.2 U	3.8 U
Dibromochloromethane	124-48-1	NC	NC	4.8 U	4.4 U	6.2 U	3.8 U
Dichlorodifluoromethane	75-71-8	NC	NC	4.8 U	4.4 U	6.2 U	3.8 U
Ethylbenzene	100-41-4	30,000	41,000	4.8 U	4.4 U	6.2 U	3.8 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	4.8 U	4.4 U	6.2 U	3.8 U
M,P-XYLENE	XYLMP	NC	NC	9.7 U	8.7 U	12 U	7.7 U
Methyl Acetate	79-20-9	NC	NC	4.8 U	4.4 U	6.2 R	3.8 U
Methylcyclohexane	108-87-2	NC	NC	4.8 U	4.4 U	6.2 U	3.8 U
Methylene Chloride	75-09-2	51,000	100,000	4.8 U	4.4 U	6.2 U	3.8 U
MTBE	1634-04-4	62,000	100,000	4.8 U	4.4 U	6.2 U	3.8 U
n-Butylbenzene	104-51-8	100,000	100,000	4.8 U	4.4 U	6.2 U	3.8 U
n-Propylbenzene	103-65-1	100,000	100,000	4.8 U	4.4 U	6.2 U	3.8 U
o-Xylene	95-47-6	NC	NC	4.8 U	4.4 U	6.2 U	3.8 U
sec-Butylbenzene	135-98-8	100,000	100,000	4.8 U	4.4 U	6.2 U	3.8 U
Styrene	100-42-5	NC	NC	4.8 U	4.4 U	6.2 UJ	3.8 U
Tert-Butylbenzene	98-06-6	100,000	100,000	4.8 U	4.4 U	6.2 U	3.8 U
Tetrachloroethene	127-18-4	5,500	19,000	4.8 U	4.4 U	6.2 U	3.8 U
Toluene	108-88-3	100,000	100,000	4.8 U	4.4 U	6.2 U	3.8 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	4.8 U	4.4 U	6.2 U	3.8 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	4.8 U	4.4 U	6.2 UJ	3.8 U
Trichloroethene	79-01-6	10,000	21,000	4.8 U	4.4 U	6.2 U	3.8 U
Trichlorofluoromethane	75-69-4	NC	NC	4.8 U	4.4 U	6.2 U	3.8 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	NC	4.8 U	4.4 U	6.2 U	3.8 U
Vinyl Chloride	75-01-4	210	900	4.8 U	4.4 U	6.2 U	3.8 U
Total VOC TICs	NA	NC	NC	19.9	101.4	15.9	61.1

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51

Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5A - Surface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-150	SS-152	SS-153
			Sample ID	SS-150-0-0.17-091916	SS-152-0-0.17-091916	SS-153-0-0.17-091916
			Sample Date	9/19/2016	9/19/2016	9/19/2016
			Unit	µg/kg	µg/kg	µg/kg
			Lab SDG	R1609864	R1609864	R1609864
			Start Depth	0	0	0
			End Depth	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]			
VOCs						
1,1,1-Trichloroethane	71-55-6	100,000	100,000	3.1 U	5 U	4.6 U
1,1,2,2-Tetrachloroethane	79-34-5	35000[CP]	NC	3.1 U	5 U	4.6 U
1,1,2-Trichloroethane	79-00-5	NC	NC	3.1 U	5 U	4.6 U
1,1-Dichloroethane	75-34-3	19,000	26,000	3.1 U	5 U	4.6 U
1,1-Dichloroethene	75-35-4	100,000	100,000	3.1 U	5 U	4.6 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	3.1 U	5 U	4.6 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	3.1 U	5 U	4.6 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	3.1 U	5 U	4.6 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	3.1 U	5 U	4.6 U
1,2-Dibromoethane	106-93-4	NC	NC	3.1 U	5 U	4.6 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	3.1 U	5 U	4.6 U
1,2-Dichloroethane	107-06-2	2300	3100	3.1 U	5 U	4.6 U
1,2-Dichloropropane	78-87-5	NC	NC	3.1 U	5 U	4.6 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	3.1 U	5 U	4.6 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	3.1 U	5 U	4.6 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	3.1 U	5 U	4.6 U
1,4-Dioxane	123-91-1	9,800	13,000	63 R	100 R	91 R
2-Butanone	78-93-3	100,000 100,000[CP]	100,000	3.1 UJ	5 UJ	4.6 UJ
2-Hexanone	591-78-6	NC	NC	3.1 UJ	5 UJ	4.6 UJ
4-Isopropyltoluene	99-87-6	NC	NC	3.1 U	5 U	4.6 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	3.1 UJ	5 UJ	4.6 UJ
Acetone	67-64-1	100,000	100,000	11	37	4.6 U
Benzene	71-43-2	2,900	4,800	3.1 U	5 U	4.6 U
Bromochloromethane	74-97-5	NC	NC	3.1 U	5 U	4.6 U
Bromodichloromethane	75-27-4	NC	NC	3.1 U	5 U	4.6 U
Bromoform	75-25-2	NC	NC	3.1 U	5 U	4.6 U
Bromomethane	74-83-9	NC	NC	3.1 U	5 U	4.6 U
Carbon disulfide	75-15-0	100,000[CP]	NC	3.1 U	5 U	4.6 U
Carbon Tetrachloride	56-23-5	1400	2,400	3.1 U	5 U	4.6 U
Chlorobenzene	108-90-7	100,000	100,000	3.1 U	5 U	4.6 U
Chloroethane	75-00-3	NC	NC	3.1 U	5 U	4.6 U
Chloroform	67-66-3	10,000	49,000	3.1 U	5 U	4.6 U
Chloromethane	74-87-3	NC	NC	3.1 U	5 U	4.6 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	3.1 U	5 U	4.6 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	3.1 U	5 U	4.6 U
Cyclohexane	110-82-7	NC	NC	3.1 U	5 U	4.6 U
Dibromochloromethane	124-48-1	NC	NC	3.1 U	5 U	4.6 U
Dichlorodifluoromethane	75-71-8	NC	NC	3.1 U	5 U	4.6 U
Ethylbenzene	100-41-4	30,000	41,000	3.1 U	5 U	4.6 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	3.1 U	5 U	4.6 U
M,P-XYLENE	XYLMP	NC	NC	6.3 U	10 U	9.1 U
Methyl Acetate	79-20-9	NC	NC	3.1 U	5 U	4.6 U
Methylcyclohexane	108-87-2	NC	NC	3.1 U	5 U	4.6 U
Methylene Chloride	75-09-2	51,000	100,000	3.1 U	5 U	4.6 U
MTBE	1634-04-4	62,000	100,000	3.1 U	5 U	4.6 U
n-Butylbenzene	104-51-8	100,000	100,000	3.1 U	5 U	4.6 U
n-Propylbenzene	103-65-1	100,000	100,000	3.1 U	5 U	4.6 U
o-Xylene	95-47-6	NC	NC	3.1 U	5 U	4.6 U
sec-Butylbenzene	135-98-8	100,000	100,000	3.1 U	5 U	4.6 U
Styrene	100-42-5	NC	NC	3.1 U	5 U	4.6 U
Tert-Butylbenzene	98-06-6	100,000	100,000	3.1 U	5 U	4.6 U
Tetrachloroethene	127-18-4	5,500	19,000	3.1 U	5 U	4.6 U
Toluene	108-88-3	100,000	100,000	3.1 U	5 U	4.6 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	3.1 U	5 U	4.6 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	3.1 U	5 U	4.6 U
Trichloroethene	79-01-6	10,000	21,000	3.1 U	5 U	4.6 U
Trichlorofluoromethane	75-69-4	NC	NC	3.1 U	5 U	4.6 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	NC	3.1 U	5 U	4.6 U
Vinyl Chloride	75-01-4	210	900	3.1 U	5 U	4.6 U
Total VOC TICs	NA	NC	NC	62.4	100.4	11

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51

Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5A1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-100	SS-101	SS-102	SS-103	SS-104
			Sample ID	SS-100-0-0.17-092016	SS-101-0-0.17-092016	SS-102-0-0.17-092016	SS-103-0-0.17-092016	SS-104-0-0.17-091916
			Sample Date	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/19/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1609909	R1609909	R1609909	R1609909	R1609864
			Start Depth	0	0	0	0	0
			End Depth	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]					
VOCs								
1,1,1-Trichloroethane	71-55-6	100,000	100,000	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,1,2,2-Tetrachloroethane	79-34-5	35000[CP]	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,1,2-Trichloroethane	79-00-5	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,1-Dichloroethane	75-34-3	19,000	26,000	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,1-Dichloroethene	75-35-4	100,000	100,000	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,2,4-Trichlorobenzene	120-82-1	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	13 U	4.9 UJ	5.1 UJ	6.4 UJ	7.6 UJ
1,2-Dibromoethane	106-93-4	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,2-Dichloroethane	107-06-2	2300	3100	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,2-Dichloropropane	78-87-5	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,3-Dichlorobenzene	541-73-1	17,000	49,000	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,4-Dichlorobenzene	106-46-7	9,800	13,000	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,4-Dioxane	123-91-1	9,800	13,000	250 R	98 R	100 R	130 R	150 R
2-Butanone	78-93-3	100,000 100,000[CP]	100,000	13 UJ	4.9 UJ	5.1 UJ	6.4 UJ	7.6 UJ
2-Hexanone	591-78-6	NC	NC	13 UJ	4.9 UJ	5.1 UJ	6.4 UJ	7.6 UJ
4-Isopropyltoluene	99-87-6	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
4-Methyl-2-Pentanone	108-10-1	NC	NC	13 UJ	4.9 UJ	5.1 UJ	6.4 UJ	7.6 UJ
Acetone	67-64-1	100,000	100,000	130	4.9 U	9.4	6.4 U	14
Benzene	71-43-2	2,900	4,800	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Bromochloromethane	74-97-5	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Bromodichloromethane	75-27-4	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Bromoform	75-25-2	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Bromomethane	74-83-9	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Carbon disulfide	75-15-0	100,000[CP]	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Carbon Tetrachloride	56-23-5	1400	2,400	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Chlorobenzene	108-90-7	100,000	100,000	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Chloroethane	75-00-3	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Chloroform	67-66-3	10,000	49,000	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Chloromethane	74-87-3	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Cyclohexane	110-82-7	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Dibromochloromethane	124-48-1	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Dichlorodifluoromethane	75-71-8	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Ethylbenzene	100-41-4	30,000	41,000	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
M,P-XYLENE	XYLMP	NC	NC	25 U	9.8 U	10 U	13 U	15 U
Methyl Acetate	79-20-9	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Methylcyclohexane	108-87-2	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Methylene Chloride	75-09-2	51,000	100,000	13 U	4.9 U	5.1 U	0.75 J	7.6 U
MTBE	1634-04-4	62,000	100,000	5.8 J	4.9 U	5.1 U	6.4 U	7.6 U
n-Butylbenzene	104-51-8	100,000	100,000	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
n-Propylbenzene	103-65-1	100,000	100,000	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
o-Xylene	95-47-6	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
sec-Butylbenzene	135-98-8	100,000	100,000	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
Styrene	100-42-5	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Tert-Butylbenzene	98-06-6	100,000	100,000	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
Tetrachloroethene	127-18-4	5,500	19,000	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Toluene	108-88-3	100,000	100,000	13 U	4.9 U	5.1 U	6.4 U	7.6 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Trichloroethene	79-01-6	10,000	21,000	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Trichlorofluoromethane	75-69-4	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Vinyl Chloride	75-01-4	210	900	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Total VOC TICs	NA	NC	NC	191	119.7	52.2	0	79

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5A1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-105	SS-106	SS-107	SS-108	SS-110	SS-111
			Sample ID	SS-105-0-0.17-091916	SS-106-0-0.17-091916	SS-107-0-0.17-091916	SS-108-0-0.17-091916	SS-110-1-2-092116	SS-111-0-0.17-091916
			Sample Date	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/21/2016	9/19/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1609864	R1609864	R1609864	R1609864	R1609954	R1609864
			Start Depth	0	0	0	0	1	0
			End Depth	0.17	0.17	0.17	0.17	2	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
VOCs									
1,1,1-Trichloroethane	71-55-6	100,000	100,000	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
1,1,2,2-Tetrachloroethane	79-34-5	35000[CP]	NC	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
1,1,2-Trichloroethane	79-00-5	NC	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
1,1-Dichloroethane	75-34-3	19,000	26,000	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
1,1-Dichloroethene	75-35-4	100,000	100,000	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
1,2-Dibromoethane	106-93-4	NC	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
1,2-Dichloroethane	107-06-2	2300	3100	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
1,2-Dichloropropane	78-87-5	NC	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
1,4-Dioxane	123-91-1	9,800	13,000	170 R	250 R	95 R	61 R	100 R	150 R
2-Butanone	78-93-3	100,000 100,000[CP]	100,000	4 J	6.3 J	4.8 UJ	3.1 UJ	5.2 UJ	5.8 J
2-Hexanone	591-78-6	NC	NC	8.4 UJ	13 J	4.8 UJ	3.1 UJ	5.2 UJ	7.5 UJ
4-Isopropyltoluene	99-87-6	NC	NC	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	8.4 UJ	13 J	4.8 UJ	3.1 UJ	5.2 UJ	7.5 UJ
Acetone	67-64-1	100,000	100,000	42	46	4.8 U	3.1 U	5.2 UJ	100
Benzene	71-43-2	2,900	4,800	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Bromochloromethane	74-97-5	NC	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Bromodichloromethane	75-27-4	NC	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Bromoform	75-25-2	NC	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Bromomethane	74-83-9	NC	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Carbon disulfide	75-15-0	100,000[CP]	NC	8.4 U	13 U	4.8 U	3.1 U	3.7 J	7.5 U
Carbon Tetrachloride	56-23-5	1400	2,400	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Chlorobenzene	108-90-7	100,000	100,000	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Chloroethane	75-00-3	NC	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Chloroform	67-66-3	10,000	49,000	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Chloromethane	74-87-3	NC	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Cyclohexane	110-82-7	NC	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Dibromochloromethane	124-48-1	NC	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Dichlorodifluoromethane	75-71-8	NC	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Ethylbenzene	100-41-4	30,000	41,000	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
M,P-XYLENE	XYLMP	NC	NC	17 U	25 U	9.5 U	6.1 U	10 UJ	15 U
Methyl Acetate	79-20-9	NC	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Methylcyclohexane	108-87-2	NC	NC	8.4 U	13 U	4.8 U	3.1 U	1.3 J	7.5 U
Methylene Chloride	75-09-2	51,000	100,000	8.4 U	13 U	4.8 U	3.1 U	3.5 J	7.5 U
MTBE	1634-04-4	62,000	100,000	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	1.7 J
n-Butylbenzene	104-51-8	100,000	100,000	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
n-Propylbenzene	103-65-1	100,000	100,000	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
o-Xylene	95-47-6	NC	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
sec-Butylbenzene	135-98-8	100,000	100,000	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Styrene	100-42-5	NC	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Tert-Butylbenzene	98-06-6	100,000	100,000	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Tetrachloroethene	127-18-4	5,500	19,000	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Toluene	108-88-3	100,000	100,000	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Trichloroethene	79-01-6	10,000	21,000	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Trichlorofluoromethane	75-69-4	NC	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Vinyl Chloride	75-01-4	210	900	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ	7.5 U
Total VOC TICs	NA	NC	NC	19.5	71	67.8	23.5	160	254.6

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51

Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5A1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-112	SS-113	SS-113	SS-114	SS-115	SS-117
			Sample ID	SS-112-0-0.17-091916	DUP-005-092116	SS-113-1-2-092116	SS-114-0-0.17-092016	SS-115-0-0.17-092016	SS-117-1-1.5-092116
			Sample Date	9/19/2016	9/21/2016	9/21/2016	9/20/2016	9/20/2016	9/21/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1609864	R1609954	R1609954	R1609909	R1609909	R1609954
			Start Depth	0	1	1	0	0	1
			End Depth	0.17	2	2	0.17	0.17	1.5
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
VOCs									
1,1,1-Trichloroethane	71-55-6	100,000	100,000	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
1,1,2,2-Tetrachloroethane	79-34-5	35000[CP]	NC	3.7 U	3.6 U	6.2 U	11 UJ	6.2 UJ	4.3 UJ
1,1,2-Trichloroethane	79-00-5	NC	NC	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
1,1-Dichloroethane	75-34-3	19,000	26,000	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
1,1-Dichloroethene	75-35-4	100,000	100,000	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	3.7 U	3.6 U	6.2 U	11 UJ	6.2 UJ	4.3 UJ
1,2,4-Trichlorobenzene	120-82-1	NC	NC	3.7 U	3.6 U	6.2 U	11 UJ	6.2 UJ	4.3 UJ
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	3.7 U	3.6 U	6.2 U	11 UJ	6.2 UJ	4.3 UJ
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	3.7 UJ	3.6 U	6.2 U	11 UJ	6.2 UJ	4.3 UJ
1,2-Dibromoethane	106-93-4	NC	NC	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	3.7 U	3.6 U	6.2 U	11 UJ	6.2 UJ	4.3 UJ
1,2-Dichloroethane	107-06-2	2300	3100	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
1,2-Dichloropropane	78-87-5	NC	NC	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	3.7 U	3.6 U	6.2 U	11 UJ	6.2 UJ	4.3 UJ
1,3-Dichlorobenzene	541-73-1	17,000	49,000	3.7 U	3.6 U	6.2 U	11 UJ	6.2 UJ	4.3 UJ
1,4-Dichlorobenzene	106-46-7	9,800	13,000	3.7 U	3.6 U	6.2 U	11 UJ	6.2 UJ	4.3 UJ
1,4-Dioxane	123-91-1	9,800	13,000	75 R	72 R	120 R	220 R	120 R	85 R
2-Butanone	78-93-3	100,000 100,000[CP]	100,000	3.7 UJ	3.6 U	6.2 U	11 U	6.2 U	4.3 U
2-Hexanone	591-78-6	NC	NC	3.7 UJ	3.6 U	6.2 U	11 U	6.2 U	4.3 U
4-Isopropyltoluene	99-87-6	NC	NC	3.7 U	3.6 U	6.2 U	11 UJ	6.2 UJ	4.3 UJ
4-Methyl-2-Pentanone	108-10-1	NC	NC	3.7 UJ	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Acetone	67-64-1	100,000	100,000	4.2	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Benzene	71-43-2	2,900	4,800	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Bromochloromethane	74-97-5	NC	NC	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Bromodichloromethane	75-27-4	NC	NC	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Bromoform	75-25-2	NC	NC	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Bromomethane	74-83-9	NC	NC	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Carbon disulfide	75-15-0	100,000[CP]	NC	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Carbon Tetrachloride	56-23-5	1400	2,400	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Chlorobenzene	108-90-7	100,000	100,000	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Chloroethane	75-00-3	NC	NC	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Chloroform	67-66-3	10,000	49,000	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Chloromethane	74-87-3	NC	NC	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Cyclohexane	110-82-7	NC	NC	3.7 U	3.6 UJ	6.2 UJ	11 UJ	6.2 UJ	4.3 UJ
Dibromochloromethane	124-48-1	NC	NC	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Dichlorodifluoromethane	75-71-8	NC	NC	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Ethylbenzene	100-41-4	30,000	41,000	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
M,P-XYLENE	XYLMP	NC	NC	7.5 U	7.2 U	12 U	22 U	12 U	8.5 U
Methyl Acetate	79-20-9	NC	NC	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Methylcyclohexane	108-87-2	NC	NC	3.7 U	3.6 UJ	6.2 UJ	11 UJ	6.2 UJ	4.3 UJ
Methylene Chloride	75-09-2	51,000	100,000	3.7 U	0.86 J	2.9 J	11 U	6.2 U	3.1 J
MTBE	1634-04-4	62,000	100,000	3.7 U	0.76 J	6.2 U	11 U	6.2 U	4.3 U
n-Butylbenzene	104-51-8	100,000	100,000	3.7 U	3.6 U	6.2 U	11 UJ	6.2 UJ	4.3 UJ
n-Propylbenzene	103-65-1	100,000	100,000	3.7 U	3.6 U	6.2 U	11 UJ	6.2 UJ	4.3 UJ
o-Xylene	95-47-6	NC	NC	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
sec-Butylbenzene	135-98-8	100,000	100,000	3.7 U	3.6 U	6.2 U	11 UJ	6.2 UJ	4.3 UJ
Styrene	100-42-5	NC	NC	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Tert-Butylbenzene	98-06-6	100,000	100,000	3.7 U	3.6 U	6.2 U	11 UJ	6.2 UJ	4.3 UJ
Tetrachloroethene	127-18-4	5,500	19,000	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Toluene	108-88-3	100,000	100,000	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Trichloroethene	79-01-6	10,000	21,000	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Trichlorofluoromethane	75-69-4	NC	NC	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	NC	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Vinyl Chloride	75-01-4	210	900	3.7 U	3.6 U	6.2 U	11 U	6.2 U	4.3 U
Total VOC TICs	NA	NC	NC	109.2	112.5	22.4	88.2	50.4	63.1

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5A1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-118	SS-120	SS-121	SS-122	SS-123	SS-124
			Sample ID	SS-118-1-2-092116	SS-120-0.5-1-092116	SS-121-0-0.17-092016	SS-122-1.5-2-092116	SS-123-0-0.17-092016	SS-124-1-2-092216
			Sample Date	9/21/2016	9/21/2016	9/20/2016	9/21/2016	9/20/2016	9/22/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1609954	R1609954	R1609909	R1609954	R1609909	R1610012
			Start Depth	1	0.5	0	1.5	0	1
			End Depth	2	1	0.17	2	0.17	2
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
VOCs									
1,1,1-Trichloroethane	71-55-6	100,000	100,000	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 J
1,1,2,2-Tetrachloroethane	79-34-5	35000[CP]	NC	2.8 U	3.5 U	5.2 UJ	5.9 UJ	8.3 UJ	4.7 U
1,1,2-Trichloroethane	79-00-5	NC	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 U
1,1-Dichloroethane	75-34-3	19,000	26,000	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 U
1,1-Dichloroethene	75-35-4	100,000	100,000	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	2.8 U	3.5 U	5.2 UJ	5.9 UJ	8.3 UJ	4.7 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	2.8 U	3.5 U	5.2 UJ	5.9 UJ	8.3 UJ	4.7 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	2.8 U	3.5 U	5.2 UJ	5.9 UJ	8.3 UJ	1.8 J
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	2.8 U	3.5 U	5.2 UJ	5.9 UJ	8.3 UJ	4.7 R
1,2-Dibromoethane	106-93-4	NC	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
1,2-Dichlorobenzene	95-50-1	100,000	100,000	2.8 U	3.5 U	5.2 UJ	5.9 UJ	8.3 UJ	4.7 R
1,2-Dichloroethane	107-06-2	2300	3100	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
1,2-Dichloropropane	78-87-5	NC	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	2.8 U	3.5 U	5.2 UJ	5.9 UJ	8.3 UJ	4.7 R
1,3-Dichlorobenzene	541-73-1	17,000	49,000	2.8 U	3.5 U	5.2 UJ	5.9 UJ	8.3 UJ	4.7 R
1,4-Dichlorobenzene	106-46-7	9,800	13,000	2.8 U	3.5 U	5.2 UJ	5.9 UJ	8.3 UJ	4.7 R
1,4-Dioxane	123-91-1	9,800	13,000	55 R	70 R	100 R	120 R	170 R	94 R
2-Butanone	78-93-3	100,000 100,000[CP]	100,000	2.8 U	3.5 U	5.2 U	5.9 U	8.3 UJ	4.7 UJ
2-Hexanone	591-78-6	NC	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 UJ	4.7 UJ
4-Isopropyltoluene	99-87-6	NC	NC	2.8 U	3.5 U	5.2 UJ	5.9 UJ	8.3 UJ	4.7 R
4-Methyl-2-Pentanone	108-10-1	NC	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 UJ	4.7 UJ
Acetone	67-64-1	100,000	100,000	2.8 U	3.5 U	5.2 U	19	8.3 U	4.7 UJ
Benzene	71-43-2	2,900	4,800	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	0.29 J
Bromochloromethane	74-97-5	NC	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 U
Bromodichloromethane	75-27-4	NC	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 U
Bromoform	75-25-2	NC	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 U
Bromomethane	74-83-9	NC	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 U
Carbon disulfide	75-15-0	100,000[CP]	NC	2.8 U	3.5 U	5.2 U	5.9 UJ	8.3 U	3.5 J
Carbon Tetrachloride	56-23-5	1400	2,400	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
Chlorobenzene	108-90-7	100,000	100,000	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
Chloroethane	75-00-3	NC	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
Chloroform	67-66-3	10,000	49,000	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
Chloromethane	74-87-3	NC	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
Cyclohexane	110-82-7	NC	NC	2.8 UJ	3.5 UJ	5.2 UJ	5.9 U	8.3 U	4.7 UJ
Dibromochloromethane	124-48-1	NC	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
Dichlorodifluoromethane	75-71-8	NC	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
Ethylbenzene	100-41-4	30,000	41,000	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
Isopropylbenzene	98-82-8	100,000[CP]	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
M,P-XYLENE	XYLMP	NC	NC	5.5 U	7 U	10 U	12 U	17 U	1.6 J
Methyl Acetate	79-20-9	NC	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
Methylcyclohexane	108-87-2	NC	NC	2.8 UJ	3.5 UJ	5.2 UJ	5.9 U	8.3 U	1.7 J
Methylene Chloride	75-09-2	51,000	100,000	2.8 U	0.86 J	5.2 U	5.9 U	8.3 U	1.2 J
MTBE	1634-04-4	62,000	100,000	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
n-Butylbenzene	104-51-8	100,000	100,000	2.8 U	3.5 U	5.2 UJ	5.9 UJ	8.3 UJ	4.7 R
n-Propylbenzene	103-65-1	100,000	100,000	2.8 U	3.5 U	5.2 UJ	5.9 UJ	8.3 UJ	4.7 R
o-Xylene	95-47-6	NC	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
sec-Butylbenzene	135-98-8	100,000	100,000	2.8 U	3.5 U	5.2 UJ	5.9 UJ	8.3 UJ	4.7 R
Styrene	100-42-5	NC	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
Tert-Butylbenzene	98-06-6	100,000	100,000	2.8 U	3.5 U	5.2 UJ	5.9 UJ	8.3 UJ	4.7 R
Tetrachloroethene	127-18-4	5,500	19,000	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	2 J
Toluene	108-88-3	100,000	100,000	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
Trichloroethene	79-01-6	10,000	21,000	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
Trichlorofluoromethane	75-69-4	NC	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	NC	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 U
Vinyl Chloride	75-01-4	210	900	2.8 U	3.5 U	5.2 U	5.9 U	8.3 U	4.7 UJ
Total VOC TICs	NA	NC	NC	53.1	46.4	0	120.4	66	62.3

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5A1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-125	SS-129	SS-131	SS-133	SS-135	SS-136
			Sample ID	SS-125-1-2-092216	SS-129-0-0.17-092016	SS-131-0-0.17-092016	SS-133-1-2-092016	SS-135-0-0.17-091916	SS-136-0-0.17-091916
			Sample Date	9/22/2016	9/20/2016	9/20/2016	9/20/2016	9/19/2016	9/19/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1610012	R1609909	R1609909	R1609909	R1609864	R1609864
			Start Depth	1	0	0	1	0	0
			End Depth	2	0.17	0.17	2	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
VOCs									
1,1,1-Trichloroethane	71-55-6	100,000	100,000	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
1,1,2,2-Tetrachloroethane	79-34-5	35000[CP]	NC	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 UJ	3.6 U
1,1,2-Trichloroethane	79-00-5	NC	NC	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
1,1-Dichloroethane	75-34-3	19,000	26,000	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
1,1-Dichloroethene	75-35-4	100,000	100,000	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 UJ	3.6 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	0.76 J	9.1 U	4.7 U	4.4 UJ	8.1 UJ	3.6 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	3.9 J	9.1 U	4.7 U	4.4 UJ	8.1 UJ	3.6 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	4.5 UJ	9.1 UJ	4.7 UJ	4.4 UJ	8.1 UJ	3.6 U
1,2-Dibromoethane	106-93-4	NC	NC	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 UJ	3.6 U
1,2-Dichloroethane	107-06-2	2300	3100	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
1,2-Dichloropropane	78-87-5	NC	NC	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	1.6 J	9.1 U	4.7 U	4.4 UJ	8.1 UJ	3.6 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 UJ	3.6 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 UJ	3.6 U
1,4-Dioxane	123-91-1	9,800	13,000	90 R	180 R	94 R	87 R	160 R	15 J
2-Butanone	78-93-3	100,000 100,000[CP]	100,000	2.4 J	9.1 UJ	3.3 J	4.4 UJ	8.1 UJ	3.6 UJ
2-Hexanone	591-78-6	NC	NC	4.5 UJ	9.1 UJ	4.7 UJ	4.4 UJ	8.1 UJ	3.6 UJ
4-Isopropyltoluene	99-87-6	NC	NC	1.5 J	9.1 U	4.7 U	4.4 UJ	8.1 UJ	3.6 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	3.5 J	9.1 UJ	4.7 UJ	4.4 UJ	8.1 UJ	3.6 UJ
Acetone	67-64-1	100,000	100,000	17 J	9.9	35	17 J	8.1 U	3.6 U
Benzene	71-43-2	2,900	4,800	0.41 J	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Bromochloromethane	74-97-5	NC	NC	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Bromodichloromethane	75-27-4	NC	NC	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Bromoform	75-25-2	NC	NC	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Bromomethane	74-83-9	NC	NC	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Carbon disulfide	75-15-0	100,000[CP]	NC	1.5 J	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Carbon Tetrachloride	56-23-5	1400	2,400	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Chlorobenzene	108-90-7	100,000	100,000	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Chloroethane	75-00-3	NC	NC	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Chloroform	67-66-3	10,000	49,000	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Chloromethane	74-87-3	NC	NC	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Cyclohexane	110-82-7	NC	NC	2 J	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Dibromochloromethane	124-48-1	NC	NC	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Dichlorodifluoromethane	75-71-8	NC	NC	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Ethylbenzene	100-41-4	30,000	41,000	0.59 J	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
M,P-XYLENE	XYLMP	NC	NC	2.3 J	18 U	9.4 U	8.7 UJ	16 U	7.3 U
Methyl Acetate	79-20-9	NC	NC	4.5 UJ	9.1 U	2.8 J	4.4 UJ	8.1 U	3.6 U
Methylcyclohexane	108-87-2	NC	NC	5 J	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Methylene Chloride	75-09-2	51,000	100,000	4.5 UJ	1.8 J	4.7 U	4.4 UJ	8.1 U	3.6 U
MTBE	1634-04-4	62,000	100,000	4.5 UJ	9.1 U	1.2 J	4.4 UJ	8.1 U	3.6 U
n-Butylbenzene	104-51-8	100,000	100,000	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 UJ	3.6 U
n-Propylbenzene	103-65-1	100,000	100,000	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 UJ	3.6 U
o-Xylene	95-47-6	NC	NC	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
sec-Butylbenzene	135-98-8	100,000	100,000	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 UJ	3.6 U
Styrene	100-42-5	NC	NC	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Tert-Butylbenzene	98-06-6	100,000	100,000	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 UJ	3.6 U
Tetrachloroethene	127-18-4	5,500	19,000	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Toluene	108-88-3	100,000	100,000	9.5 J	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Trichloroethene	79-01-6	10,000	21,000	3.6 J	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Trichlorofluoromethane	75-69-4	NC	NC	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	NC	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Vinyl Chloride	75-01-4	210	900	4.5 UJ	9.1 U	4.7 U	4.4 UJ	8.1 U	3.6 U
Total VOC TICs	NA	NC	NC	162.1	61.8	58	69.1	0	77

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5A1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-140	SS-141[BB]	SS-142	SS-143	SS-145	SS-146
			Sample ID	SS-140-0-0.17-091916	SS-141-1-2-092116	SS-142-0.5-1.5-092116	SS-143-0-0.17-091916	SS-145-0.5-1.5-092116	SS-146-0-0.17-091916
			Sample Date	9/19/2016	9/21/2016	9/21/2016	9/19/2016	9/21/2016	9/19/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1609864	R1609954	R1609954	R1609864	R1609954	R1609864
			Start Depth	0	1	0.5	0	0.5	0
			End Depth	0.17	2	1.5	0.17	1.5	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
VOCs									
1,1,1-Trichloroethane	71-55-6	100,000	100,000	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
1,1,2,2-Tetrachloroethane	79-34-5	35000[CP]	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
1,1,2-Trichloroethane	79-00-5	NC	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
1,1-Dichloroethane	75-34-3	19,000	26,000	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
1,1-Dichloroethene	75-35-4	100,000	100,000	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	5.3 J	7.2 U	1.5 J	4.8 U	8.2 UJ	4.4 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	12 UJ	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
1,2-Dibromoethane	106-93-4	NC	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	12 U	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
1,2-Dichloroethane	107-06-2	2300	3100	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
1,2-Dichloropropane	78-87-5	NC	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	12 U	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	12 U	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	12 U	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
1,4-Dioxane	123-91-1	9,800	13,000	230 R	140 R	130 R	97 R	44 J	87 R
2-Butanone	78-93-3	100,000 100,000[CP]	100,000	12 UJ	7.2 U	6.5 J	4.8 UJ	8.2 U	4.4 UJ
2-Hexanone	591-78-6	NC	NC	12 UJ	7.2 U	6.5 U	4.8 UJ	8.2 U	4.4 UJ
4-Isopropyltoluene	99-87-6	NC	NC	2.6 J	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	12 UJ	7.2 U	6.5 U	4.8 UJ	8.2 U	4.4 UJ
Acetone	67-64-1	100,000	100,000	53	17	43	4.8 U	13	25
Benzene	71-43-2	2,900	4,800	12 U	7.2 U	0.54 J	4.8 U	8.2 U	4.4 U
Bromochloromethane	74-97-5	NC	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Bromodichloromethane	75-27-4	NC	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Bromoform	75-25-2	NC	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Bromomethane	74-83-9	NC	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Carbon disulfide	75-15-0	100,000[CP]	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Carbon Tetrachloride	56-23-5	1400	2,400	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Chlorobenzene	108-90-7	100,000	100,000	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Chloroethane	75-00-3	NC	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Chloroform	67-66-3	10,000	49,000	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Chloromethane	74-87-3	NC	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Cyclohexane	110-82-7	NC	NC	12 U	7.2 UJ	6.5 UJ	4.8 U	8.2 UJ	4.4 U
Dibromochloromethane	124-48-1	NC	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Dichlorodifluoromethane	75-71-8	NC	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Ethylbenzene	100-41-4	30,000	41,000	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	2.8 J	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
M,P-XYLENE	XYLMP	NC	NC	23 U	14 U	1.8 J	9.7 U	16 U	8.7 U
Methyl Acetate	79-20-9	NC	NC	7.7 J	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Methylcyclohexane	108-87-2	NC	NC	12 U	7.2 UJ	6.5 UJ	4.8 U	8.2 UJ	4.4 U
Methylene Chloride	75-09-2	51,000	100,000	12 U	7.2 U	2.6 J	4.8 U	1.9 J	4.4 U
MTBE	1634-04-4	62,000	100,000	12 U	1.6 J	6.5 U	4.8 U	8.2 U	4.4 U
n-Butylbenzene	104-51-8	100,000	100,000	12 U	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
n-Propylbenzene	103-65-1	100,000	100,000	12 U	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
o-Xylene	95-47-6	NC	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
sec-Butylbenzene	135-98-8	100,000	100,000	12 U	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
Styrene	100-42-5	NC	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Tert-Butylbenzene	98-06-6	100,000	100,000	8.3 J	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
Tetrachloroethene	127-18-4	5,500	19,000	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Toluene	108-88-3	100,000	100,000	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Trichloroethene	79-01-6	10,000	21,000	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Trichlorofluoromethane	75-69-4	NC	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	NC	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Vinyl Chloride	75-01-4	210	900	12 U	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Total VOC TICs	NA	NC	NC	0	562	181.3	19.9	118	101.4

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5A1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-147	SS-148	SS-150	SS-150	SS-152	SS-153
			Sample ID	SS-147-0.5-1.5-092116	SS-148-0-0.17-092016	DUP-006-091916	SS-150-0-0.17-091916	SS-152-0-0.17-091916	SS-153-0-0.17-091916
			Sample Date	9/21/2016	9/20/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1609954	R1609909	R1609864	R1609864	R1609864	R1609864
			Start Depth	0.5	0	0	0	0	0
			End Depth	1.5	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
VOCs									
1,1,1-Trichloroethane	71-55-6	100,000	100,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,1,2,2-Tetrachloroethane	79-34-5	35000[CP]	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,1,2-Trichloroethane	79-00-5	NC	NC	6.2 U	6.2 UJ	3.8 U	3.1 U	5 U	4.6 U
1,1-Dichloroethane	75-34-3	19,000	26,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,1-Dichloroethene	75-35-4	100,000	100,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	1.1 J	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	6.2 U	6.2 UJ	3.8 U	3.1 U	5 U	4.6 U
1,2-Dibromoethane	106-93-4	NC	NC	6.2 U	6.2 UJ	3.8 U	3.1 U	5 U	4.6 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,2-Dichloroethane	107-06-2	2300	3100	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,2-Dichloropropane	78-87-5	NC	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,4-Dioxane	123-91-1	9,800	13,000	120 R	120 R	77 R	63 R	100 R	91 R
2-Butanone	78-93-3	100,000 100,000[CP]	100,000	6.2 U	6.2 UJ	3.8 UJ	3.1 UJ	5 UJ	4.6 UJ
2-Hexanone	591-78-6	NC	NC	6.2 U	6.2 R	3.8 UJ	3.1 UJ	5 UJ	4.6 UJ
4-Isopropyltoluene	99-87-6	NC	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	6.2 U	6.2 UJ	3.8 UJ	3.1 UJ	5 UJ	4.6 UJ
Acetone	67-64-1	100,000	100,000	8.9	6.2 U	3.8 U	11	37	4.6 U
Benzene	71-43-2	2,900	4,800	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Bromochloromethane	74-97-5	NC	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Bromodichloromethane	75-27-4	NC	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Bromoform	75-25-2	NC	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Bromomethane	74-83-9	NC	NC	6.2 U	6.2 R	3.8 U	3.1 U	5 U	4.6 U
Carbon disulfide	75-15-0	100,000[CP]	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Carbon Tetrachloride	56-23-5	1400	2,400	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Chlorobenzene	108-90-7	100,000	100,000	6.2 U	6.2 UJ	3.8 U	3.1 U	5 U	4.6 U
Chloroethane	75-00-3	NC	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Chloroform	67-66-3	10,000	49,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Chloromethane	74-87-3	NC	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	6.2 U	6.2 UJ	3.8 U	3.1 U	5 U	4.6 U
Cyclohexane	110-82-7	NC	NC	6.2 UJ	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Dibromochloromethane	124-48-1	NC	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Dichlorodifluoromethane	75-71-8	NC	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Ethylbenzene	100-41-4	30,000	41,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
M,P-XYLENE	XYLMP	NC	NC	12 U	12 U	7.7 U	6.3 U	10 U	9.1 U
Methyl Acetate	79-20-9	NC	NC	6.2 U	6.2 R	3.8 U	3.1 U	5 U	4.6 U
Methylcyclohexane	108-87-2	NC	NC	6.2 UJ	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Methylene Chloride	75-09-2	51,000	100,000	0.74 J	6.2 U	3.8 U	3.1 U	5 U	4.6 U
MTBE	1634-04-4	62,000	100,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
n-Butylbenzene	104-51-8	100,000	100,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
n-Propylbenzene	103-65-1	100,000	100,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
o-Xylene	95-47-6	NC	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
sec-Butylbenzene	135-98-8	100,000	100,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Styrene	100-42-5	NC	NC	6.2 U	6.2 UJ	3.8 U	3.1 U	5 U	4.6 U
Tert-Butylbenzene	98-06-6	100,000	100,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Tetrachloroethene	127-18-4	5,500	19,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Toluene	108-88-3	100,000	100,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	6.2 U	6.2 UJ	3.8 U	3.1 U	5 U	4.6 U
Trichloroethene	79-01-6	10,000	21,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Trichlorofluoromethane	75-69-4	NC	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Vinyl Chloride	75-01-4	210	900	6.2 U	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Total VOC TICs	NA	NC	NC	553.2	15.9	61.1	62.4	100.4	11

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5B - Surface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-101	SS-103	SS-105	SS-106
			Sample ID	SS-101-0-0.17-092016	SS-103-0-0.17-092016	SS-105-0-0.17-091916	SS-106-0-0.17-091916
			Sample Date	9/20/2016	9/20/2016	9/19/2016	9/19/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2177436	2177436	2176860	2176860
			Start Depth	0	0	0	0
			End Depth	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]				
SVOCs							
1,1'-Biphenyl	92-52-4	NC	NC	119 U	123 U	168 U	13.6 J
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	119 U	123 U	168 U	149 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	238 U	246 U	335 U	298 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	238 U	246 U	335 U	298 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	238 U	246 U	335 U	298 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	238 U	246 U	335 U	298 U
2,4-Dimethylphenol	105-67-9	NC	NC	238 U	246 U	335 U	298 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	417 U	430 U	335 U	298 U
2,4-Dinitrotoluene	121-14-2		NC	119 U	123 U	168 U	149 U
2,6-Dinitrotoluene	606-20-2	1030[CP]	NC	119 U	123 U	168 U	149 U
2-Chloronaphthalene	91-58-7	NC	NC	119 U	123 U	168 U	149 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	238 U	246 U	335 U	298 U
2-Methylnaphthalene	91-57-6	410[CP]	NC	119 U	123 U	16.4 J	145 J
2-Methylphenol	95-48-7	100,000	100,000	238 U	246 U	335 U	298 U
2-Nitroaniline	88-74-4	NC	NC	238 U	246 U	335 U	298 U
2-Nitrophenol	88-75-5	NC	NC	238 U	246 U	335 U	298 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	238 U	246 U	335 U	298 U
3-Nitroaniline	99-09-2	NC	NC	238 U	246 U	335 U	298 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	238 U	246 U	335 U	298 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	119 U	123 U	168 U	149 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	238 U	246 U	335 U	298 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	238 U	246 U	335 U	298 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	119 U	123 U	168 U	149 U
4-Nitroaniline	100-01-6	NC	NC	238 U	246 U	335 U	298 U
4-Nitrophenol	100-02-7	NC	NC	238 U	246 U	335 U	298 U
Acenaphthene	83-32-9	100,000	100,000	59.6 U	61.4 U	13.6 J	52 J
Acenaphthylene	208-96-8	100,000	100,000	59.6 U	40.4 J	48.7 J	73.4 J
Acetophenone	98-86-2	NC	NC	119 U	123 U	168 U	149 U
Anthracene	120-12-7	100,000	100,000	59.6 U	79.7	96.2	233
Atrazine	1912-24-9	NC	NC	119 U	123 U	168 U	149 U
Benzaldehyde	100-52-7	NC	NC	238 U	246 U	108 J	175 J
Benzidine	92-87-5	NC	NC	238 U	246 U	335 U	298 U
Benzo[a]anthracene	56-55-3	1,000	1,000	59.6 U	286	500	1,000
Benzo[a]pyrene	50-32-8	1,000	1,000	51.9 J	315	613	1,130
Benzo[b]fluoranthene	205-99-2	1,000	1,000	73.6	440	698	1,490
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	41.9 J	239	581	696
Benzo[k]fluoranthene	207-08-9	1,000	3900	59.6 U	160	255	527
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	119 U	123 U	168 U	149 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	119 U	123 U	168 U	149 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	119 U	123 U	168 U	149 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	298 U	307 U	417	149 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	119 U	123 U	168 U	149 U
Caprolactam	105-60-2	NC	NC	238 U	246 U	335 UJ	298 UJ
Carbazole	86-74-8	NC	NC	119 U	40.8 J	41.3 J	150
Chrysene	218-01-9	1,000	3,900	45.8 J	309	610	1,180
Dibenzo[a,h]Anthracene	53-70-3	330	330	59.6 U	64.4	153	171
Dibenzofuran	132-64-9	14,000	59,000	119 U	123 U	168 U	63.9 J
Diethylphthalate	84-66-2	100,000[CP]	NC	119 U	123 U	168 U	149 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	119 U	123 U	168 U	149 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	119 U	123 U	168 U	149 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	119 U	123 U	168 UJ	149 UJ
Fluoranthene	206-44-0	100,000	100,000	102	637	1010	1,940
Fluorene	86-73-7	100,000	100,000	59.6 U	61.4 U	15.8 J	63.4 J
Hexachlorobenzene	118-74-1	330 410[CP]	1,200	119 U	123 U	168 U	149 U
Hexachlorobutadiene	87-68-3	NC	NC	119 U	123 U	168 U	149 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	238 U	246 U	335 U	298 U
Hexachloroethane	67-72-1	NC	NC	119 U	123 U	168 U	149 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	53.8 J	242	359	756
Isophorone	78-59-1	100,000[CP]	NC	119 U	123 U	168 U	149 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	238 U	246 U	335 U	298 U
Naphthalene	91-20-3	100,000	100,000	59.6 U	61.4 U	83.8 U	119
Nitrobenzene	98-95-3	3,700[CP]	15,000[CP]	119 U	123 U	168 U	149 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	119 U	123 U	168 U	149 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	119 U	123 U	168 U	149 U
Pentachlorophenol	87-86-5	2,400	6,700	238 U	246 U	335 U	298 U
Phenanthrene	85-01-8	100,000	100,000	45.7 J	302	427	1,100
Phenol	108-95-2	100,000	100,000	238 U	246 U	335 U	298 U
Pyrene	129-00-0	100,000	100,000	83.3	508	943	2,280
Pyridine	110-86-1	NC	NC	238 U	246 U	335 U	298 U
Total SVOC TICs	NA	NC	NC	29,248	18,867	31,100	59,940

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs

Table 5B - Surface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SS-108	SS-109	SS-111	SS-112
				Sample ID	SS-108-0-0.17-091916	SS-109-0-0.17-091916	SS-111-0-0.17-091916	SS-112-0-0.17-091916
				Sample Date	9/19/2016	9/19/2016	9/19/2016	9/19/2016
				Unit	µg/kg	µg/kg	µg/kg	µg/kg
				Lab SDG	2176860	2176860	2176860	2176860
				Start Depth	0	0	0	0
				End Depth	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]					
SVOCs								
1,1'-Biphenyl	92-52-4	NC	NC	130 U	36.1 J	58.7 J	79.8 J	
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	130 U	152 U	170 U	139 U	
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	260 U	304 U	340 U	277 U	
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	260 U	304 U	340 U	277 U	
2,4,6-Trichlorophenol	88-06-2	NC	NC	260 U	304 U	340 U	277 U	
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	260 U	304 U	340 U	277 U	
2,4-Dimethylphenol	105-67-9	NC	NC	260 U	304 U	340 U	277 U	
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	260 U	304 U	340 U	277 U	
2,4-Dinitrotoluene	121-14-2		NC	130 U	152 U	170 U	139 U	
2,6-Dinitrotoluene	606-20-2	1030[CP]	NC	130 U	152 U	170 U	139 U	
2-Chloronaphthalene	91-58-7	NC	NC	130 U	152 U	170 U	139 U	
2-Chlorophenol	95-57-8	100,000[CP]	NC	260 U	304 U	340 U	277 U	
2-Methylnaphthalene	91-57-6	410[CP]	NC	11.2 J	404 J	725 J	571 J	
2-Methylphenol	95-48-7	100,000	100,000	260 U	304 U	340 U	24.4 J	
2-Nitroaniline	88-74-4	NC	NC	260 U	304 U	340 U	277 U	
2-Nitrophenol	88-75-5	NC	NC	260 U	304 U	340 U	277 U	
3,3-Dichlorobenzidine	91-94-1	NC	NC	260 U	304 U	340 U	277 U	
3-Nitroaniline	99-09-2	NC	NC	260 U	304 U	340 U	277 U	
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	260 U	304 U	340 U	277 U	
4-Bromophenyl-phenylether	101-55-3	NC	NC	130 U	152 U	170 U	139 U	
4-Chloro-3-methylphenol	59-50-7	NC	NC	260 U	304 U	340 U	277 U	
4-Chloroaniline	106-47-8	100,000[CP]	NC	260 U	304 U	340 U	277 U	
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	130 U	152 U	170 U	139 U	
4-Nitroaniline	100-01-6	NC	NC	260 U	304 U	340 U	277 U	
4-Nitrophenol	100-02-7	NC	NC	260 U	304 U	340 U	277 U	
Acenaphthene	83-32-9	100,000	100,000	11.1 J	24.4 J	43.3 J	247	
Acenaphthylene	208-96-8	100,000	100,000	16.9 J	180	148	357	
Acetophenone	98-86-2	NC	NC	130 U	152 U	170 U	139 U	
Anthracene	120-12-7	100,000	100,000	35.1 J	247	222	901	
Atrazine	1912-24-9	NC	NC	130 U	24.2 J	170 U	139 U	
Benzaldehyde	100-52-7	NC	NC	59.3 J	122 J	246 J	495	
Benzidine	92-87-5	NC	NC	260 U	304 U	340 U	277 U	
Benzo[a]anthracene	56-55-3	1,000	1,000	172	756	951	2,740	
Benzo[a]pyrene	50-32-8	1,000	1,000	228	995	1,070	2,860	
Benzo[b]fluoranthene	205-99-2	1,000	1,000	304	1,820	1,740	3,650	
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	162	693	694	1,570	
Benzo[k]fluoranthene	207-08-9	1,000	3900	109	597	627	1,390	
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	130 U	152 U	170 U	139 U	
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	130 U	152 U	170 U	139 U	
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	130 U	152 U	170 U	139 U	
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	130 U	152 U	170 U	139 U	
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	130 U	152 U	170 U	139 U	
Caprolactam	105-60-2	NC	NC	260 UJ	304 UJ	340 UJ	277 UJ	
Carbazole	86-74-8	NC	NC	23.9 J	105 J	113 J	337	
Chrysene	218-01-9	1,000	3,900	210	1,100	1,210	2,910	
Dibenzo[a,h]Anthracene	53-70-3	330	330	44 J	196	182	424	
Dibenzofuran	132-64-9	14,000	59,000	130 U	129 J	196	233	
Diethylphthalate	84-66-2	100,000[CP]	NC	130 U	152 U	170 U	139 U	
Dimethylphthalate	131-11-3	100,000[CP]	NC	130 U	152 U	170 U	139 U	
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	130 U	152 U	170 U	139 U	
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	130 UJ	152 UJ	170 UJ	139 UJ	
Fluoranthene	206-44-0	100,000	100,000	314	1090	1420	5170	
Fluorene	86-73-7	100,000	100,000	11.2 J	76 U	55 J	256	
Hexachlorobenzene	118-74-1	330 410[CP]	1,200	130 U	152 U	170 U	139 U	
Hexachlorobutadiene	87-68-3	NC	NC	130 U	152 U	170 U	139 U	
Hexachlorocyclopentadiene	77-47-4	NC	NC	260 U	304 U	340 U	277 U	
Hexachloroethane	67-72-1	NC	NC	130 U	152 U	170 U	139 U	
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	175	738	734	1,700	
Isophorone	78-59-1	100,000[CP]	NC	130 U	152 U	170 U	139 U	
m-Cresol & p-Cresol	MEPH1314	NC	NC	260 U	304 U	340 U	113 J	
Naphthalene	91-20-3	100,000	100,000	65.1 U	356	523	373	
Nitrobenzene	98-95-3	3,700[CP]	15,000[CP]	130 U	152 U	170 U	139 U	
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	130 U	152 U	170 U	139 U	
N-Nitrosodiphenylamine	86-30-6	NC	NC	130 U	152 U	170 U	139 U	
Pentachlorophenol	87-86-5	2,400	6,700	260 U	304 U	340 U	277 U	
Phenanthrene	85-01-8	100,000	100,000	147	505	975	3710	
Phenol	108-95-2	100,000	100,000	280	304 U	34.3 J	277 U	
Pyrene	129-00-0	100,000	100,000	362	1,330	1,810	5,830	
Pyridine	110-86-1	NC	NC	260 U	304 U	340 U	277 U	
Total SVOC TICs	NA	NC	NC	11,427	25,483	33,122	90,150	

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs

Table 5B - Surface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SS-114	SS-115	SS-116	SS-123
				Sample ID	SS-114-0-0.17-092016	SS-115-0-0.17-092016	SS-116-0-0.17-092016	SS-123-0-0.17-092016
				Sample Date	9/20/2016	9/20/2016	9/20/2016	9/20/2016
				Unit	µg/kg	µg/kg	µg/kg	µg/kg
				Lab SDG	2177436	2177436	2177436	2177436
				Start Depth	0	0	0	0
				End Depth	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]					
SVOCs								
1,1'-Biphenyl	92-52-4	NC	NC	89.1 J	115 J	40.9 J	91.8 J	
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	139 U	140 U	169 U	150 U	
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	277 U	281 U	337 U	299 U	
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	277 U	281 U	337 U	299 U	
2,4,6-Trichlorophenol	88-06-2	NC	NC	277 U	281 U	337 U	299 U	
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	277 U	281 U	337 U	299 U	
2,4-Dimethylphenol	105-67-9	NC	NC	277 U	281 U	337 U	299 U	
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	486 U	491 U	590 U	524 U	
2,4-Dinitrotoluene	121-14-2		NC	139 U	140 U	169 U	150 U	
2,6-Dinitrotoluene	606-20-2	1030[CP]	NC	139 U	140 U	169 U	150 U	
2-Chloronaphthalene	91-58-7	NC	NC	139 U	140 U	169 U	150 U	
2-Chlorophenol	95-57-8	100,000[CP]	NC	277 U	281 U	337 U	299 U	
2-Methylnaphthalene	91-57-6	410[CP]	NC	745	945	372	1,190	
2-Methylphenol	95-48-7	100,000	100,000	277 U	281 U	337 U	299 U	
2-Nitroaniline	88-74-4	NC	NC	277 U	281 U	337 U	299 U	
2-Nitrophenol	88-75-5	NC	NC	277 U	281 U	337 U	299 U	
3,3-Dichlorobenzidine	91-94-1	NC	NC	277 U	281 U	337 U	299 U	
3-Nitroaniline	99-09-2	NC	NC	277 U	281 U	337 U	299 U	
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	277 U	281 U	337 U	299 U	
4-Bromophenyl-phenylether	101-55-3	NC	NC	139 U	140 U	169 U	150 U	
4-Chloro-3-methylphenol	59-50-7	NC	NC	277 U	281 U	337 U	299 U	
4-Chloroaniline	106-47-8	100,000[CP]	NC	277 U	281 U	337 U	68.7 J	
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	139 U	140 U	169 U	150 U	
4-Nitroaniline	100-01-6	NC	NC	277 U	281 U	337 U	299 U	
4-Nitrophenol	100-02-7	NC	NC	277 U	281 U	337 U	299 U	
Acenaphthene	83-32-9	100,000	100,000	69.4 U	206	46.3 J	74.8 U	
Acenaphthylene	208-96-8	100,000	100,000	69.4 U	70.1 U	84.3 U	212	
Acetophenone	98-86-2	NC	NC	139 U	140 U	169 U	150 U	
Anthracene	120-12-7	100,000	100,000	73.7	587	119	331	
Atrazine	1912-24-9	NC	NC	139 U	140 U	169 U	150 U	
Benzaldehyde	100-52-7	NC	NC	277 U	281 U	335 J	532	
Benzidine	92-87-5	NC	NC	277 U	281 U	337 U	299 U	
Benzo[a]anthracene	56-55-3	1,000	1,000	298	1,200	391	834	
Benzo[a]pyrene	50-32-8	1,000	1,000	364	1,070	409	1,010	
Benzo[b]fluoranthene	205-99-2	1,000	1,000	541	1,430	558	1,740	
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	261	647	277	762	
Benzo[k]fluoranthene	207-08-9	1,000	3900	186	508	197	554	
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	139 U	140 U	169 U	150 U	
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	139 U	140 U	169 U	150 U	
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	139 U	140 U	169 U	150 U	
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	347 U	351 U	422 U	374 U	
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	139 U	140 U	169 U	38.1 J	
Caprolactam	105-60-2	NC	NC	277 U	281 U	337 U	299 U	
Carbazole	86-74-8	NC	NC	54.9 J	377	80.7 J	139 J	
Chrysene	218-01-9	1,000	3,900	453	1,270	556	1,230	
Dibenzo[a,h]Anthracene	53-70-3	330	330	76.6	201	86.4	224	
Dibenzofuran	132-64-9	14,000	59,000	177	384	99.7 J	320	
Diethylphthalate	84-66-2	100,000[CP]	NC	139 U	140 U	169 U	150 U	
Dimethylphthalate	131-11-3	100,000[CP]	NC	139 U	140 U	169 U	150 U	
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	139 U	140 U	169 U	150 U	
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	139 U	140 U	169 U	150 U	
Fluoranthene	206-44-0	100,000	100,000	652	2760	806	1590	
Fluorene	86-73-7	100,000	100,000	69.4 U	255	53.6 J	75.4	
Hexachlorobenzene	118-74-1	330 410[CP]	1,200	139 U	140 U	169 U	150 U	
Hexachlorobutadiene	87-68-3	NC	NC	139 U	140 U	169 U	150 U	
Hexachlorocyclopentadiene	77-47-4	NC	NC	277 U	281 U	337 U	299 U	
Hexachloroethane	67-72-1	NC	NC	139 U	140 U	169 U	150 U	
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	272	741	286	803	
Isophorone	78-59-1	100,000[CP]	NC	139 U	140 U	169 U	150 U	
m-Cresol & p-Cresol	MEPH1314	NC	NC	26.4 J	24.1 J	337 U	76.1 J	
Naphthalene	91-20-3	100,000	100,000	355	658	246	848	
Nitrobenzene	98-95-3	3,700[CP]	15,000[CP]	139 U	140 U	169 U	150 U	
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	139 U	140 U	169 U	150 U	
N-Nitrosodiphenylamine	86-30-6	NC	NC	139 U	140 U	169 U	150 U	
Pentachlorophenol	87-86-5	2,400	6,700	277 U	281 U	337 U	299 U	
Phenanthrene	85-01-8	100,000	100,000	682	2940	753	1290	
Phenol	108-95-2	100,000	100,000	277 U	281 U	337 U	49.4 J	
Pyrene	129-00-0	100,000	100,000	564	2,110	693	1450	
Pyridine	110-86-1	NC	NC	277 U	281 U	337 U	299 U	
Total SVOC TICs	NA	NC	NC	54,024	70,382	61,944	39,759	

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs

Table 5B - Surface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-129	SS-131	SS-134	SS-135
			Sample ID	SS-129-0-0.17-092016	SS-131-0-0.17-092016	SS-134-0-0.17-091916	SS-135-0-0.17-091916
			Sample Date	9/20/2016	9/20/2016	9/19/2016	9/19/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2177436	2177436	2176860	2176860
			Start Depth	0	0	0	0
			End Depth	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]				
SVOCs							
1,1'-Biphenyl	92-52-4	NC	NC	144 U	107 U	125 U	28.2 J
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	144 U	107 U	125 U	135 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	288 U	215 U	249 U	270 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	288 U	215 U	249 U	270 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	288 U	215 U	249 U	270 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	288 U	215 U	249 U	270 U
2,4-Dimethylphenol	105-67-9	NC	NC	288 U	215 U	249 U	270 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	505 U	376 U	249 U	270 U
2,4-Dinitrotoluene	121-14-2		NC	144 U	107 U	125 U	135 U
2,6-Dinitrotoluene	606-20-2	1030[CP]	NC	144 U	107 U	125 U	135 U
2-Chloronaphthalene	91-58-7	NC	NC	144 U	107 U	125 U	135 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	288 U	215 U	249 U	270 U
2-Methylnaphthalene	91-57-6	410[CP]	NC	62.1 J	25.4 J	125 U	184 J
2-Methylphenol	95-48-7	100,000	100,000	288 U	215 U	249 U	28.3 J
2-Nitroaniline	88-74-4	NC	NC	288 U	215 U	249 U	270 U
2-Nitrophenol	88-75-5	NC	NC	288 U	215 U	249 U	270 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	288 U	215 U	249 U	270 U
3-Nitroaniline	99-09-2	NC	NC	288 U	215 U	249 U	270 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	288 U	215 U	249 U	270 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	144 U	107 U	125 U	135 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	288 U	215 U	249 U	270 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	288 U	215 U	249 U	270 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	144 U	107 U	125 U	135 U
4-Nitroaniline	100-01-6	NC	NC	288 U	215 U	249 U	270 U
4-Nitrophenol	100-02-7	NC	NC	288 U	215 U	249 U	270 U
Acenaphthene	83-32-9	100,000	100,000	72.1 U	56.3	62.3 U	183
Acenaphthylene	208-96-8	100,000	100,000	34.1 J	66	9 J	982
Acetophenone	98-86-2	NC	NC	144 U	107 U	125 U	135 U
Anthracene	120-12-7	100,000	100,000	79.3	209	19 J	983
Atrazine	1912-24-9	NC	NC	144 U	107 U	125 U	135 U
Benzaldehyde	100-52-7	NC	NC	160 J	215 U	22.4 J	86.7 J
Benzidine	92-87-5	NC	NC	288 U	215 U	249 U	270 U
Benzo[a]anthracene	56-55-3	1,000	1,000	293	646	94.5	3,920
Benzo[a]pyrene	50-32-8	1,000	1,000	710	650	106	3,780
Benzo[b]fluoranthene	205-99-2	1,000	1,000	628	865	134	5,840
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	1070	407	80.5	1,990
Benzo[k]fluoranthene	207-08-9	1,000	3900	215	311	68.5	2,200
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	144 U	107 U	125 U	135 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	144 U	107 U	125 U	135 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	144 U	107 U	125 U	135 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	629	268 U	125 U	135 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	144 U	138	125 U	135 U
Caprolactam	105-60-2	NC	NC	288 U	215 U	249 UJ	270 UJ
Carbazole	86-74-8	NC	NC	58.7 J	90.2 J	13 J	372
Chrysene	218-01-9	1,000	3,900	391	716	92.8	4,140
Dibenzo[a,h]Anthracene	53-70-3	330	330	572	119	25.8 J	582
Dibenzofuran	132-64-9	14,000	59,000	144 U	25.3 J	125 U	148
Diethylphthalate	84-66-2	100,000[CP]	NC	144 U	107 U	125 U	135 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	144 U	107 U	125 U	135 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	144 U	107 U	125 U	135 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	144 U	107 U	125 UJ	135 UJ
Fluoranthene	206-44-0	100,000	100,000	570	1370	161	8170
Fluorene	86-73-7	100,000	100,000	72.1 U	63	62.3 U	205
Hexachlorobenzene	118-74-1	330 410[CP]	1,200	144 U	107 U	125 U	135 U
Hexachlorobutadiene	87-68-3	NC	NC	144 U	107 U	125 U	135 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	288 U	215 U	249 U	270 U
Hexachloroethane	67-72-1	NC	NC	144 U	107 U	125 U	135 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	558	431	72.4	2,340
Isophorone	78-59-1	100,000[CP]	NC	144 U	107 U	125 U	135 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	288 U	215 U	249 U	64.8 J
Naphthalene	91-20-3	100,000	100,000	72.1 U	53.7 U	62.3 U	260
Nitrobenzene	98-95-3	3,700[CP]	15,000[CP]	144 U	107 U	125 U	135 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	144 U	107 U	125 U	135 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	144 U	107 U	125 U	135 U
Pentachlorophenol	87-86-5	2,400	6,700	288 U	215 U	249 U	270 U
Phenanthrene	85-01-8	100,000	100,000	291	823	65.9	2920
Phenol	108-95-2	100,000	100,000	288 U	215 U	249 U	60 J
Pyrene	129-00-0	100,000	100,000	468	1200	157	7900
Pyridine	110-86-1	NC	NC	288 U	215 U	249 U	270 U
Total SVOC TICs	NA	NC	NC	80,810	16,241	4,765	23,228

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs

Table 5B - Surface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-136	SS-140	SS-143	SS-146
			Sample ID	SS-136-0-0.17-091916	SS-140-0-0.17-091916	SS-143-0-0.17-091916	SS-146-0-0.17-091916
			Sample Date	9/19/2016	9/19/2016	9/19/2016	9/19/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2176860	2176860	2176860	2176860
			Start Depth	0	0	0	0
			End Depth	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]				
SVOCs							
1,1'-Biphenyl	92-52-4	NC	NC	124 U	29.3 J	133 U	127 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	124 U	150 U	133 U	127 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	249 U	299 U	266 U	253 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	249 U	299 U	266 U	253 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	249 U	299 U	266 U	253 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	249 U	299 U	266 U	253 U
2,4-Dimethylphenol	105-67-9	NC	NC	249 U	299 U	266 U	253 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	249 U	299 U	266 U	253 U
2,4-Dinitrotoluene	121-14-2		NC	124 U	150 U	133 U	127 U
2,6-Dinitrotoluene	606-20-2	1030[CP]	NC	124 U	150 U	133 U	127 U
2-Chloronaphthalene	91-58-7	NC	NC	124 U	150 U	133 U	127 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	249 U	299 U	266 U	253 U
2-Methylnaphthalene	91-57-6	410[CP]	NC	10.2 J	234 J	133 U	10.1 J
2-Methylphenol	95-48-7	100,000	100,000	249 U	299 U	266 U	253 U
2-Nitroaniline	88-74-4	NC	NC	249 U	299 U	266 U	253 U
2-Nitrophenol	88-75-5	NC	NC	249 U	299 U	266 U	253 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	249 U	299 U	266 U	253 U
3-Nitroaniline	99-09-2	NC	NC	249 U	299 U	266 U	253 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	249 U	299 U	266 U	253 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	124 U	150 U	133 U	127 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	249 U	299 U	266 U	253 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	249 U	299 U	266 U	253 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	124 U	150 U	133 U	127 U
4-Nitroaniline	100-01-6	NC	NC	249 U	299 U	266 U	253 U
4-Nitrophenol	100-02-7	NC	NC	249 U	299 U	266 U	253 U
Acenaphthene	83-32-9	100,000	100,000	62.2 U	29.2 J	66.4 U	63.3 U
Acenaphthylene	208-96-8	100,000	100,000	9.7 J	355	66.4 U	63.3 U
Acetophenone	98-86-2	NC	NC	124 U	150 U	133 U	127 U
Anthracene	120-12-7	100,000	100,000	14.7 J	219	11.6 J	63.3 U
Atrazine	1912-24-9	NC	NC	124 U	150 U	133 U	127 U
Benzaldehyde	100-52-7	NC	NC	249 U	181 J	266 U	253 U
Benzidine	92-87-5	NC	NC	249 U	299 U	266 U	253 U
Benzo[a]anthracene	56-55-3	1,000	1,000	84.7	1,020	57 J	53.2 J
Benzo[a]pyrene	50-32-8	1,000	1,000	92.4	1,890	69.3	66.7
Benzo[b]fluoranthene	205-99-2	1,000	1,000	130	3,180	107	90.1
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	59.7 J	1,050	56.7 J	43 J
Benzo[k]fluoranthene	207-08-9	1,000	3900	52.9 J	1,020	46.6 J	63.3 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	124 U	150 U	133 U	127 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	124 U	150 U	133 U	127 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	124 U	150 U	133 U	127 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	124 U	150 U	133 U	127 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	124 U	150 U	133 U	127 U
Caprolactam	105-60-2	NC	NC	249 UJ	299 UJ	266 UJ	253 UJ
Carbazole	86-74-8	NC	NC	10.2 J	79.9 J	12.7 J	10.2 J
Chrysene	218-01-9	1,000	3,900	103	1,780	64.7 J	68.1
Dibenzo[a,h]Anthracene	53-70-3	330	330	14.7 J	358	66.4 U	12.8 J
Dibenzofuran	132-64-9	14,000	59,000	124 U	94.8 J	133 U	127 U
Diethylphthalate	84-66-2	100,000[CP]	NC	124 U	150 U	133 U	127 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	124 U	150 U	133 U	127 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	124 U	150 U	133 U	127 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	124 UJ	150 UJ	133 UJ	127 UJ
Fluoranthene	206-44-0	100,000	100,000	161	980	123	120
Fluorene	86-73-7	100,000	100,000	62.2 U	45.8 J	66.4 U	63.3 U
Hexachlorobenzene	118-74-1	330 410[CP]	1,200	124 U	150 U	133 U	127 U
Hexachlorobutadiene	87-68-3	NC	NC	124 U	150 U	133 U	127 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	249 U	299 U	266 U	253 U
Hexachloroethane	67-72-1	NC	NC	124 U	150 U	133 U	127 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	62.1 J	1,240	65 J	47.3 J
Isophorone	78-59-1	100,000[CP]	NC	124 U	150 U	133 U	127 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	249 U	299 U	266 U	253 U
Naphthalene	91-20-3	100,000	100,000	62.2 U	124	66.4 U	63.3 U
Nitrobenzene	98-95-3	3,700[CP]	15,000[CP]	124 U	150 U	133 U	127 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	124 U	150 U	133 U	127 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	124 U	150 U	133 U	127 U
Pentachlorophenol	87-86-5	2,400	6,700	249 U	299 U	266 U	253 U
Phenanthrene	85-01-8	100,000	100,000	65.2	986	49.9 J	72.2
Phenol	108-95-2	100,000	100,000	249 U	299 U	266 U	253 U
Pyrene	129-00-0	100,000	100,000	150	1,050	126	129
Pyridine	110-86-1	NC	NC	249 U	299 U	266 U	253 U
Total SVOC TICs	NA	NC	NC	11,241	49,520	10,099	3,639

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs

Table 5B - Surface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-148	SS-149	SS-150
			Sample ID	SS-148-0-0.17-092016	SS-149-0-0.17-091916	DUP-006-091916
			Sample Date	9/20/2016	9/19/2016	9/19/2016
			Unit	µg/kg	µg/kg	µg/kg
			Lab SDG	2177436	2176860	2176860
			Start Depth	0	0	0
			End Depth	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]			
SVOCs						
1,1'-Biphenyl	92-52-4	NC	NC	33.2 J	25.3 J	126 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	127 U	126 U	126 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	254 U	252 U	253 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	254 U	252 U	253 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	254 U	252 U	253 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	254 U	252 U	253 U
2,4-Dimethylphenol	105-67-9	NC	NC	254 U	252 U	253 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	444 R	252 U	253 U
2,4-Dinitrotoluene	121-14-2		NC	127 U	126 U	126 U
2,6-Dinitrotoluene	606-20-2	1030[CP]	NC	127 U	126 U	126 U
2-Chloronaphthalene	91-58-7	NC	NC	127 U	126 U	126 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	254 U	252 U	253 U
2-Methylnaphthalene	91-57-6	410[CP]	NC	233	180 J	34 J
2-Methylphenol	95-48-7	100,000	100,000	254 U	252 U	253 U
2-Nitroaniline	88-74-4	NC	NC	254 U	252 U	253 U
2-Nitrophenol	88-75-5	NC	NC	254 U	252 U	253 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	254 U	252 U	253 U
3-Nitroaniline	99-09-2	NC	NC	254 U	252 U	253 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	254 UJ	252 U	253 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	127 U	126 U	126 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	254 U	252 U	253 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	254 U	252 U	253 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	127 U	126 U	126 U
4-Nitroaniline	100-01-6	NC	NC	254 U	252 U	253 U
4-Nitrophenol	100-02-7	NC	NC	254 U	252 U	253 U
Acenaphthene	83-32-9	100,000	100,000	48.2 J	63.2	63.2 U
Acenaphthylene	208-96-8	100,000	100,000	105	1050	19.5 J
Acetophenone	98-86-2	NC	NC	127 U	126 U	126 U
Anthracene	120-12-7	100,000	100,000	199	722	24.4 J
Atrazine	1912-24-9	NC	NC	127 U	126 U	126 U
Benzaldehyde	100-52-7	NC	NC	169 J	88.1 J	253 U
Benzidine	92-87-5	NC	NC	254 R	252 U	253 U
Benzo[a]anthracene	56-55-3	1,000	1,000	842	2,970	109
Benzo[a]pyrene	50-32-8	1,000	1,000	898	3,100	119
Benzo[b]fluoranthene	205-99-2	1,000	1,000	1,270	4,800	169
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	654	1,790	80.1
Benzo[k]fluoranthene	207-08-9	1,000	3900	456	2,040	73.3
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	127 U	126 U	126 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	127 U	126 U	126 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	127 U	126 U	126 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	317 U	126 U	126 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	127 U	126 U	126 U
Caprolactam	105-60-2	NC	NC	254 U	252 UJ	253 UJ
Carbazole	86-74-8	NC	NC	134	280	13 J
Chrysene	218-01-9	1,000	3,900	1,080	3,460	133
Dibenzo[a,h]Anthracene	53-70-3	330	330	185	540	21.6 J
Dibenzofuran	132-64-9	14,000	59,000	88.6 J	116 J	126 U
Diethylphthalate	84-66-2	100,000[CP]	NC	127 U	126 U	126 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	127 U	126 U	126 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	127 U	126 U	126 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	127 U	126 UJ	126 UJ
Fluoranthene	206-44-0	100,000	100,000	1,700	5,930	235
Fluorene	86-73-7	100,000	100,000	69.6	140	63.2 U
Hexachlorobenzene	118-74-1	330 410[CP]	1,200	127 U	126 U	126 U
Hexachlorobutadiene	87-68-3	NC	NC	127 U	126 U	126 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	254 UJ	252 U	253 U
Hexachloroethane	67-72-1	NC	NC	127 U	126 U	126 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	693	2,130	79.6
Isophorone	78-59-1	100,000[CP]	NC	127 U	126 U	126 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	254 U	252 U	253 U
Naphthalene	91-20-3	100,000	100,000	157	239	63.2 U
Nitrobenzene	98-95-3	3,700[CP]	15,000[CP]	127 U	126 U	126 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	127 U	126 U	126 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	127 U	126 U	126 U
Pentachlorophenol	87-86-5	2,400	6,700	254 U	252 U	253 U
Phenanthrene	85-01-8	100,000	100,000	1,040	1,830	96.8
Phenol	108-95-2	100,000	100,000	254 U	252 U	253 U
Pyrene	129-00-0	100,000	100,000	1,450	6,150	235
Pyridine	110-86-1	NC	NC	254 U	252 U	253 U
Total SVOC TICs	NA	NC	NC	83,050	33,490	17,061

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs

Table 5B - Surface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-150	SS-152	SS-153
			Sample ID	SS-150-0-0.17-091916	SS-152-0-0.17-091916	SS-153-0-0.17-091916
			Sample Date	9/19/2016	9/19/2016	9/19/2016
			Unit	µg/kg	µg/kg	µg/kg
			Lab SDG	2176860	2176860	2176860
			Start Depth	0	0	0
			End Depth	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]			
SVOCs						
1,1'-Biphenyl	92-52-4	NC	NC	129 U	120 U	121 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	129 U	120 U	121 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	258 U	241 U	242 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	258 U	241 U	242 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	258 U	241 U	242 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	258 U	241 U	242 U
2,4-Dimethylphenol	105-67-9	NC	NC	258 U	241 U	242 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	258 U	241 U	242 U
2,4-Dinitrotoluene	121-14-2		NC	129 U	120 U	121 U
2,6-Dinitrotoluene	606-20-2	1030[CP]	NC	129 U	120 U	121 U
2-Chloronaphthalene	91-58-7	NC	NC	129 U	120 U	121 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	258 U	241 U	242 U
2-Methylnaphthalene	91-57-6	410[CP]	NC	22.4 J	16.1 J	8.3 J
2-Methylphenol	95-48-7	100,000	100,000	258 U	241 U	242 U
2-Nitroaniline	88-74-4	NC	NC	258 U	241 U	242 U
2-Nitrophenol	88-75-5	NC	NC	258 U	241 U	242 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	258 U	241 U	242 U
3-Nitroaniline	99-09-2	NC	NC	258 U	241 U	242 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	258 U	241 U	242 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	129 U	120 U	121 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	258 U	241 U	242 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	258 U	241 U	242 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	129 U	120 U	121 U
4-Nitroaniline	100-01-6	NC	NC	258 U	241 U	242 U
4-Nitrophenol	100-02-7	NC	NC	258 U	241 U	242 U
Acenaphthene	83-32-9	100,000	100,000	64.5 U	60.1 U	60.6 U
Acenaphthylene	208-96-8	100,000	100,000	15.3 J	41.3 J	13.4 J
Acetophenone	98-86-2	NC	NC	129 U	120 U	121 U
Anthracene	120-12-7	100,000	100,000	16.8 J	31.4 J	13.8 J
Atrazine	1912-24-9	NC	NC	129 U	120 U	121 U
Benzaldehyde	100-52-7	NC	NC	258 U	241 U	242 U
Benzidine	92-87-5	NC	NC	258 U	241 U	242 U
Benzo[a]anthracene	56-55-3	1,000	1,000	94.7	158	56.7 J
Benzo[a]pyrene	50-32-8	1,000	1,000	119	190	62.5
Benzo[b]fluoranthene	205-99-2	1,000	1,000	162	308	91
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	77.5	124	46.1 J
Benzo[k]fluoranthene	207-08-9	1,000	3900	59.3 J	113	60.6 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	129 U	120 U	121 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	129 U	120 U	121 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	129 U	120 U	121 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	129 U	120 U	121 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	129 U	120 U	121 U
Caprolactam	105-60-2	NC	NC	258 UJ	241 UJ	242 UJ
Carbazole	86-74-8	NC	NC	13.8 J	19.9 J	11.2 J
Chrysene	218-01-9	1,000	3,900	120	215	61.1
Dibenzo[a,h]Anthracene	53-70-3	330	330	23 J	39.4 J	13.1 J
Dibenzofuran	132-64-9	14,000	59,000	129 U	120 U	121 U
Diethylphthalate	84-66-2	100,000[CP]	NC	129 U	120 U	121 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	129 U	120 U	121 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	129 U	120 U	121 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	129 UJ	120 UJ	121 UJ
Fluoranthene	206-44-0	100,000	100,000	202	267	123
Fluorene	86-73-7	100,000	100,000	64.5 U	60.1 U	60.6 U
Hexachlorobenzene	118-74-1	330 410[CP]	1,200	129 U	120 U	121 U
Hexachlorobutadiene	87-68-3	NC	NC	129 U	120 U	121 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	258 U	241 U	242 U
Hexachloroethane	67-72-1	NC	NC	129 U	120 U	121 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	75.4	127	44.6 J
Isophorone	78-59-1	100,000[CP]	NC	129 U	120 U	121 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	258 U	241 U	242 U
Naphthalene	91-20-3	100,000	100,000	64.5 U	60.1 U	60.6 U
Nitrobenzene	98-95-3	3,700[CP]	15,000[CP]	129 U	120 U	121 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	129 U	120 U	121 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	129 U	120 U	121 U
Pentachlorophenol	87-86-5	2,400	6,700	258 U	241 U	242 U
Phenanthrene	85-01-8	100,000	100,000	94.7	113	64.6
Phenol	108-95-2	100,000	100,000	258 U	241 U	242 U
Pyrene	129-00-0	100,000	100,000	216	336	130
Pyridine	110-86-1	NC	NC	258 U	241 U	242 U
Total SVOC TICs	NA	NC	NC	12,510	9,229	10,060

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs

Table 5B1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-101	SS-103	SS-105	SS-106	SS-108
			Sample ID	SS-101-0-0.17-092016	SS-103-0-0.17-092016	SS-105-0-0.17-091916	SS-106-0-0.17-091916	SS-108-0-0.17-091916
			Sample Date	9/20/2016	9/20/2016	9/19/2016	9/19/2016	9/19/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2177436	2177436	2176860	2176860	2176860
			Start Depth	0	0	0	0	0
			End Depth	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]					
SVOCs								
1,1'-Biphenyl	92-52-4	NC	NC	119 U	123 U	168 U	13.6 J	130 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	119 U	123 U	168 U	149 U	130 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	238 U	246 U	335 U	298 U	260 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	238 U	246 U	335 U	298 U	260 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	238 U	246 U	335 U	298 U	260 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	238 U	246 U	335 U	298 U	260 U
2,4-Dimethylphenol	105-67-9	NC	NC	238 U	246 U	335 U	298 U	260 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	417 U	430 U	335 U	298 U	260 U
2,4-Dinitrotoluene	121-14-2		NC	119 U	123 U	168 U	149 U	130 U
2,6-Dinitrotoluene	606-20-2	1030[CP]	NC	119 U	123 U	168 U	149 U	130 U
2-Chloronaphthalene	91-58-7	NC	NC	119 U	123 U	168 U	149 U	130 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	238 U	246 U	335 U	298 U	260 U
2-Methylnaphthalene	91-57-6	410[CP]	NC	119 U	123 U	16.4 J	145 J	11.2 J
2-Methylphenol	95-48-7	100,000	100,000	238 U	246 U	335 U	298 U	260 U
2-Nitroaniline	88-74-4	NC	NC	238 U	246 U	335 U	298 U	260 U
2-Nitrophenol	88-75-5	NC	NC	238 U	246 U	335 U	298 U	260 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	238 U	246 U	335 U	298 U	260 U
3-Nitroaniline	99-09-2	NC	NC	238 U	246 U	335 U	298 U	260 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	238 U	246 U	335 U	298 U	260 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	119 U	123 U	168 U	149 U	130 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	238 U	246 U	335 U	298 U	260 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	238 U	246 U	335 U	298 U	260 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	119 U	123 U	168 U	149 U	130 U
4-Nitroaniline	100-01-6	NC	NC	238 U	246 U	335 U	298 U	260 U
4-Nitrophenol	100-02-7	NC	NC	238 U	246 U	335 U	298 U	260 U
Acenaphthene	83-32-9	100,000	100,000	59.6 U	61.4 U	13.6 J	52 J	11.1 J
Acenaphthylene	208-96-8	100,000	100,000	59.6 U	40.4 J	48.7 J	73.4 J	16.9 J
Acetophenone	98-86-2	NC	NC	119 U	123 U	168 U	149 U	130 U
Anthracene	120-12-7	100,000	100,000	59.6 U	79.7	96.2	233	35.1 J
Atrazine	1912-24-9	NC	NC	119 U	123 U	168 U	149 U	130 U
Benzaldehyde	100-52-7	NC	NC	238 U	246 U	108 J	175 J	59.3 J
Benzidine	92-87-5	NC	NC	238 U	246 U	335 U	298 U	260 U
Benzo[a]anthracene	56-55-3	1,000	1,000	59.6 U	286	500	1,000	172
Benzo[a]pyrene	50-32-8	1,000	1,000	51.9 J	315	613	1,130	228
Benzo[b]fluoranthene	205-99-2	1,000	1,000	73.6	440	698	1,490	304
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	41.9 J	239	581	696	162
Benzo[k]fluoranthene	207-08-9	1,000	3900	59.6 U	160	255	527	109
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	119 U	123 U	168 U	149 U	130 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	119 U	123 U	168 U	149 U	130 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	119 U	123 U	168 U	149 U	130 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	298 U	307 U	417	149 U	130 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	119 U	123 U	168 U	149 U	130 U
Caprolactam	105-60-2	NC	NC	238 U	246 U	335 UJ	298 UJ	260 UJ
Carbazole	86-74-8	NC	NC	119 U	40.8 J	41.3 J	150	23.9 J
Chrysene	218-01-9	1,000	3,900	45.8 J	309	610	1,180	210
Dibenzo[a,h]Anthracene	53-70-3	330	330	59.6 U	64.4	153	171	44 J
Dibenzofuran	132-64-9	14,000	59,000	119 U	123 U	168 U	63.9 J	130 U
Diethylphthalate	84-66-2	100,000[CP]	NC	119 U	123 U	168 U	149 U	130 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	119 U	123 U	168 U	149 U	130 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	119 U	123 U	168 U	149 U	130 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	119 U	123 U	168 UJ	149 UJ	130 UJ
Fluoranthene	206-44-0	100,000	100,000	102	637	1010	1,940	314
Fluorene	86-73-7	100,000	100,000	59.6 U	61.4 U	15.8 J	63.4 J	11.2 J
Hexachlorobenzene	118-74-1	330 410[CP]	1,200	119 U	123 U	168 U	149 U	130 U
Hexachlorobutadiene	87-68-3	NC	NC	119 U	123 U	168 U	149 U	130 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	238 U	246 U	335 U	298 U	260 U
Hexachloroethane	67-72-1	NC	NC	119 U	123 U	168 U	149 U	130 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	53.8 J	242	359	756	175
Isophorone	78-59-1	100,000[CP]	NC	119 U	123 U	168 U	149 U	130 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	238 U	246 U	335 U	298 U	260 U
Naphthalene	91-20-3	100,000	100,000	59.6 U	61.4 U	83.8 U	119	65.1 U
Nitrobenzene	98-95-3	3,700[CP]	15,000[CP]	119 U	123 U	168 U	149 U	130 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	119 U	123 U	168 U	149 U	130 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	119 U	123 U	168 U	149 U	130 U
Pentachlorophenol	87-86-5	2,400	6,700	238 U	246 U	335 U	298 U	260 U
Phenanthrene	85-01-8	100,000	100,000	45.7 J	302	427	1,100	147
Phenol	108-95-2	100,000	100,000	238 U	246 U	335 U	298 U	280
Pyrene	129-00-0	100,000	100,000	83.3	508	943	2,280	362
Pyridine	110-86-1	NC	NC	238 U	246 U	335 U	298 U	260 U
Total SVOC TICs	NA	NC	NC	29,248	18,867	31,100	59,940	11,427

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICS identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs

Table 5B1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SS-109	SS-110	SS-111	SS-112	SS-113
				Sample ID	SS-109-0-0.17-091916	SS-110-1-2-092116	SS-111-0-0.17-091916	SS-112-0-0.17-091916	DUP-005-092116
				Sample Date	9/19/2016	9/21/2016	9/19/2016	9/19/2016	9/21/2016
				Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
				Lab SDG	2176860	2177433	2176860	2176860	2177433
				Start Depth	0	1	0	0	1
				End Depth	0.17	2	0.17	0.17	2
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
SVOCs									
1,1'-Biphenyl	92-52-4	NC	NC	36.1 J	103 J	58.7 J	79.8 J	28.9 J	
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	152 U	108 U	170 U	139 U	106 U	
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	304 U	217 U	340 U	277 U	212 U	
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	304 U	217 U	340 U	277 U	212 U	
2,4,6-Trichlorophenol	88-06-2	NC	NC	304 U	217 U	340 U	277 U	212 U	
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	304 U	217 U	340 U	277 U	212 U	
2,4-Dimethylphenol	105-67-9	NC	NC	304 U	217 U	340 U	277 U	212 U	
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	304 U	217 UJ	340 U	277 U	371 U	
2,4-Dinitrotoluene	121-14-2		NC	152 U	108 U	170 U	139 U	106 U	
2,6-Dinitrotoluene	606-20-2	1030[CP]	NC	152 U	108 U	170 U	139 U	106 U	
2-Chloronaphthalene	91-58-7	NC	NC	152 U	108 U	170 U	139 U	106 U	
2-Chlorophenol	95-57-8	100,000[CP]	NC	304 U	217 U	340 U	277 U	212 U	
2-Methylnaphthalene	91-57-6	410[CP]	NC	404 J	1,150 J	725 J	571 J	155	
2-Methylphenol	95-48-7	100,000	100,000	304 U	217 U	340 U	24.4 J	212 U	
2-Nitroaniline	88-74-4	NC	NC	304 U	217 U	340 U	277 U	212 U	
2-Nitrophenol	88-75-5	NC	NC	304 U	217 U	340 U	277 U	212 U	
3,3-Dichlorobenzidine	91-94-1	NC	NC	304 U	217 U	340 U	277 U	212 U	
3-Nitroaniline	99-09-2	NC	NC	304 U	217 U	340 U	277 U	212 U	
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	304 U	217 U	340 U	277 U	212 U	
4-Bromophenyl-phenylether	101-55-3	NC	NC	152 U	108 U	170 U	139 U	106 U	
4-Chloro-3-methylphenol	59-50-7	NC	NC	304 U	217 U	340 U	277 U	212 U	
4-Chloroaniline	106-47-8	100,000[CP]	NC	304 U	217 U	340 U	277 U	212 U	
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	152 U	108 U	170 U	139 U	106 U	
4-Nitroaniline	100-01-6	NC	NC	304 U	217 U	340 U	277 U	212 U	
4-Nitrophenol	100-02-7	NC	NC	304 U	217 UJ	340 U	277 U	212 U	
Acenaphthene	83-32-9	100,000	100,000	24.4 J	54.2 U	43.3 J	247	36.6 J	
Acenaphthylene	208-96-8	100,000	100,000	180	54.2 U	148	357	44.8 J	
Acetophenone	98-86-2	NC	NC	152 U	123	170 U	139 U	106 U	
Anthracene	120-12-7	100,000	100,000	247	89.2	222	901	126	
Atrazine	1912-24-9	NC	NC	24.2 J	108 U	170 U	139 U	106 U	
Benzaldehyde	100-52-7	NC	NC	122 J	132 J	246 J	495	212 U	
Benzidine	92-87-5	NC	NC	304 U	217 U	340 U	277 U	212 U	
Benzo[a]anthracene	56-55-3	1,000	1,000	756	194	951	2,740	385	
Benzo[a]pyrene	50-32-8	1,000	1,000	995	193	1,070	2,860	367	
Benzo[b]fluoranthene	205-99-2	1,000	1,000	1,820	366 J	1,740	3,650	507	
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	693	175	694	1,570	247	
Benzo[k]fluoranthene	207-08-9	1,000	3900	597	106 J	627	1,390	185	
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	152 U	108 U	170 U	139 U	106 U	
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	152 U	108 U	170 U	139 U	106 U	
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	152 U	108 U	170 U	139 U	106 U	
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	152 U	8.8 J	170 U	139 U	265 U	
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	152 U	108 U	170 U	139 U	106 U	
Caprolactam	105-60-2	NC	NC	304 UJ	217 U	340 UJ	277 UJ	212 U	
Carbazole	86-74-8	NC	NC	105 J	48.5 J	113 J	337	62.4 J	
Chrysene	218-01-9	1,000	3,900	1,100	369	1,210	2,910	437	
Dibenzo[a,h]Anthracene	53-70-3	330	330	196	55.2	182	424	76.3	
Dibenzofuran	132-64-9	14,000	59,000	129 J	280	196	233	66.3 J	
Diethylphthalate	84-66-2	100,000[CP]	NC	152 U	108 U	170 U	139 U	106 U	
Dimethylphthalate	131-11-3	100,000[CP]	NC	152 U	108 U	170 U	139 U	106 U	
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	152 U	108 U	170 U	139 U	106 U	
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	152 UJ	108 UJ	170 UJ	139 UJ	106 U	
Fluoranthene	206-44-0	100,000	100,000	1090	225	1420	5170	777	
Fluorene	86-73-7	100,000	100,000	76 U	32.4 J	55 J	256	41.3 J	
Hexachlorobenzene	118-74-1	330 410[CP]	1,200	152 U	108 U	170 U	139 U	106 U	
Hexachlorobutadiene	87-68-3	NC	NC	152 U	108 U	170 U	139 U	106 U	
Hexachlorocyclopentadiene	77-47-4	NC	NC	304 U	217 U	340 U	277 U	212 U	
Hexachloroethane	67-72-1	NC	NC	152 U	108 U	170 U	139 U	106 U	
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	738	143	734	1,700	269	
Isophorone	78-59-1	100,000[CP]	NC	152 U	108 U	170 U	139 U	106 U	
m-Cresol & p-Cresol	MEPH1314	NC	NC	304 U	18 J	340 U	113 J	212 U	
Naphthalene	91-20-3	100,000	100,000	356	603 J	523	373	101	
Nitrobenzene	98-95-3	3,700[CP]	15,000[CP]	152 U	108 U	170 U	139 U	106 U	
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	152 U	108 U	170 U	139 U	106 U	
N-Nitrosodiphenylamine	86-30-6	NC	NC	152 U	108 U	170 U	139 U	106 U	
Pentachlorophenol	87-86-5	2,400	6,700	304 U	217 U	340 U	277 U	212 U	
Phenanthrene	85-01-8	100,000	100,000	505	919	975	3710	600	
Phenol	108-95-2	100,000	100,000	304 U	217 U	34.3 J	277 U	212 U	
Pyrene	129-00-0	100,000	100,000	1,330	314 J	1,810	5,830	640	
Pyridine	110-86-1	NC	NC	304 U	217 U	340 U	277 U	212 U	
Total SVOC TICs	NA	NC	NC	25,483	15,166	33,122	90,150	32,425	

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICS identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
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[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs

Table 5B1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-113	SS-114	SS-115	SS-116	SS-117
			Sample ID	SS-113-1-2-092116	SS-114-0-0.17-092016	SS-115-0-0.17-092016	SS-116-0-0.17-092016	SS-117-1-1.5-092116
			Sample Date	9/21/2016	9/20/2016	9/20/2016	9/20/2016	9/21/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2177433	2177436	2177436	2177436	2177433
			Start Depth	1	0	0	0	1
			End Depth	2	0.17	0.17	0.17	1.5
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]					
SVOCs								
1,1'-Biphenyl	92-52-4	NC	NC	61.2 J	89.1 J	115 J	40.9 J	20.5 J
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	108 U	139 U	140 U	169 U	109 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	216 U	277 U	281 U	337 U	217 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	216 U	277 U	281 U	337 U	217 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	216 U	277 U	281 U	337 U	217 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	216 U	277 U	281 U	337 U	217 U
2,4-Dimethylphenol	105-67-9	NC	NC	216 U	277 U	281 U	337 U	217 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	216 UJ	486 U	491 U	590 U	217 UJ
2,4-Dinitrotoluene	121-14-2		NC	108 U	139 U	140 U	169 U	109 U
2,6-Dinitrotoluene	606-20-2	1030[CP]	NC	108 U	139 U	140 U	169 U	109 U
2-Chloronaphthalene	91-58-7	NC	NC	108 U	139 U	140 U	169 U	109 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	216 U	277 U	281 U	337 U	217 U
2-Methylnaphthalene	91-57-6	410[CP]	NC	434 J	745	945	372	197 J
2-Methylphenol	95-48-7	100,000	100,000	216 U	277 U	281 U	337 U	217 U
2-Nitroaniline	88-74-4	NC	NC	216 U	277 U	281 U	337 U	217 U
2-Nitrophenol	88-75-5	NC	NC	216 U	277 U	281 U	337 U	217 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	216 U	277 U	281 U	337 U	217 U
3-Nitroaniline	99-09-2	NC	NC	216 U	277 U	281 U	337 U	217 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	216 U	277 U	281 U	337 U	217 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	108 U	139 U	140 U	169 U	109 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	216 U	277 U	281 U	337 U	217 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	216 U	277 U	281 U	337 U	217 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	108 U	139 U	140 U	169 U	109 U
4-Nitroaniline	100-01-6	NC	NC	216 U	277 U	281 U	337 U	217 U
4-Nitrophenol	100-02-7	NC	NC	216 UJ	277 U	281 U	337 U	217 UJ
Acenaphthene	83-32-9	100,000	100,000	63.9	69.4 U	206	46.3 J	54.4 U
Acenaphthylene	208-96-8	100,000	100,000	54.1 U	69.4 U	70.1 U	84.3 U	54.4 U
Acetophenone	98-86-2	NC	NC	108 U	139 U	140 U	169 U	109 U
Anthracene	120-12-7	100,000	100,000	224	73.7	587	119	23.6 J
Atrazine	1912-24-9	NC	NC	108 U	139 U	140 U	169 U	109 U
Benzaldehyde	100-52-7	NC	NC	77.6 J	277 U	281 U	335 J	51.3 J
Benzidine	92-87-5	NC	NC	216 U	277 U	281 U	337 U	217 U
Benzo[a]anthracene	56-55-3	1,000	1,000	642	298	1,200	391	81.1
Benzo[a]pyrene	50-32-8	1,000	1,000	593	364	1,070	409	64.9
Benzo[b]fluoranthene	205-99-2	1,000	1,000	831 J	541	1,430	558	115 J
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	365	261	647	277	53.5 J
Benzo[k]fluoranthene	207-08-9	1,000	3900	312 J	186	508	197	30.3 J
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	108 U	139 U	140 U	169 U	109 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	108 U	139 U	140 U	169 U	109 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	108 U	139 U	140 U	169 U	109 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	108 U	347 U	351 U	422 U	11.7 J
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	108 U	139 U	140 U	169 U	109 U
Caprolactam	105-60-2	NC	NC	216 U	277 U	281 U	337 U	217 U
Carbazole	86-74-8	NC	NC	96.2 J	54.9 J	377	80.7 J	12.7 J
Chrysene	218-01-9	1,000	3,900	720	453	1,270	556	169
Dibenzo[a,h]Anthracene	53-70-3	330	330	105	76.6	201	86.4	26.4 J
Dibenzofuran	132-64-9	14,000	59,000	142	177	384	99.7 J	64.3 J
Diethylphthalate	84-66-2	100,000[CP]	NC	108 U	139 U	140 U	169 U	109 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	108 U	139 U	140 U	169 U	109 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	108 U	139 U	140 U	169 U	109 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	108 UJ	139 U	140 U	169 U	109 UJ
Fluoranthene	206-44-0	100,000	100,000	1280	652	2760	806	104
Fluorene	86-73-7	100,000	100,000	75.8	69.4 U	255	53.6 J	11.2 J
Hexachlorobenzene	118-74-1	330 410[CP]	1,200	108 U	139 U	140 U	169 U	109 U
Hexachlorobutadiene	87-68-3	NC	NC	108 U	139 U	140 U	169 U	109 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	216 U	277 U	281 U	337 U	217 U
Hexachloroethane	67-72-1	NC	NC	108 U	139 U	140 U	169 U	109 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	411	272	741	286	41.1 J
Isophorone	78-59-1	100,000[CP]	NC	108 U	139 U	140 U	169 U	109 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	8.7 J	26.4 J	24.1 J	337 U	217 U
Naphthalene	91-20-3	100,000	100,000	281 J	355	658	246	120 J
Nitrobenzene	98-95-3	3,700[CP]	15,000[CP]	108 U	139 U	140 U	169 U	109 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	108 U	139 U	140 U	169 U	109 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	108 U	139 U	140 U	169 U	109 U
Pentachlorophenol	87-86-5	2,400	6,700	216 U	277 U	281 U	337 U	217 U
Phenanthrene	85-01-8	100,000	100,000	1200	682	2940	753	386
Phenol	108-95-2	100,000	100,000	216 U	277 U	281 U	337 U	217 U
Pyrene	129-00-0	100,000	100,000	1200 J	564	2,110	693	127 J
Pyridine	110-86-1	NC	NC	216 U	277 U	281 U	337 U	217 U
Total SVOC TICs	NA	NC	NC	11,383	54,024	70,382	61,944	6,062

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICS identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs

Table 5B1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-118	SS-119	SS-120	SS-122	SS-123
			Sample ID	SS-118-1-2-092116	SS-119-0-0.5-092116	SS-120-0.5-1-092116	SS-122-1.5-2-092116	SS-123-0-0.17-092016
			Sample Date	9/21/2016	9/21/2016	9/21/2016	9/21/2016	9/20/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2177433	2177433	2177433	2177433	2177436
			Start Depth	1	0	0.5	1.5	0
			End Depth	2	0.5	1	2	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]					
SVOCs								
1,1'-Biphenyl	92-52-4	NC	NC	109 U	124 U	116 U	74.8 J	91.8 J
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	109 U	124 U	116 U	122 U	150 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	218 U	248 U	231 U	243 U	299 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	218 U	248 U	231 U	243 U	299 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	218 U	248 U	231 U	243 U	299 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	218 U	248 U	231 U	243 U	299 U
2,4-Dimethylphenol	105-67-9	NC	NC	218 U	248 U	231 U	243 U	299 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	381 U	433 U	404 U	425 U	524 U
2,4-Dinitrotoluene	121-14-2		NC	109 U	124 U	116 U	122 U	150 U
2,6-Dinitrotoluene	606-20-2	1030[CP]	NC	109 U	124 U	116 U	122 U	150 U
2-Chloronaphthalene	91-58-7	NC	NC	109 U	124 U	116 U	122 U	150 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	218 U	248 U	231 U	243 U	299 U
2-Methylnaphthalene	91-57-6	410[CP]	NC	103 J	22.6 J	280	600	1,190
2-Methylphenol	95-48-7	100,000	100,000	218 U	248 U	231 U	243 U	299 U
2-Nitroaniline	88-74-4	NC	NC	218 U	248 U	231 U	243 U	299 U
2-Nitrophenol	88-75-5	NC	NC	218 U	248 U	231 U	243 U	299 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	218 U	248 U	231 U	243 U	299 U
3-Nitroaniline	99-09-2	NC	NC	218 U	248 U	231 U	243 U	299 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	218 U	248 U	231 U	243 U	299 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	109 U	124 U	116 U	122 U	150 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	218 U	248 U	231 U	243 U	299 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	218 U	248 U	231 U	243 U	68.7 J
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	109 U	124 U	116 U	122 U	150 U
4-Nitroaniline	100-01-6	NC	NC	218 U	248 U	231 U	243 U	299 U
4-Nitrophenol	100-02-7	NC	NC	218 U	248 U	231 U	243 U	299 U
Acenaphthene	83-32-9	100,000	100,000	54.4 U	61.9 U	34.7 J	633	74.8 U
Acenaphthylene	208-96-8	100,000	100,000	22.2 J	54.2 J	57.8 U	60.8 U	212
Acetophenone	98-86-2	NC	NC	109 U	124 U	116 U	122 U	150 U
Anthracene	120-12-7	100,000	100,000	27.1 J	76.1	104	1340	331
Atrazine	1912-24-9	NC	NC	109 U	124 U	116 U	122 U	150 U
Benzaldehyde	100-52-7	NC	NC	218 U	64.9 J	35.3 J	46.1 J	532
Benzidine	92-87-5	NC	NC	218 U	248 U	231 U	243 U	299 U
Benzo[a]anthracene	56-55-3	1,000	1,000	68.4	354	331	1,650	834
Benzo[a]pyrene	50-32-8	1,000	1,000	63.7	475	302	1,330	1,010
Benzo[b]fluoranthene	205-99-2	1,000	1,000	95	655	433	1,670	1,740
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	44.2 J	422	210	650	762
Benzo[k]fluoranthene	207-08-9	1,000	3900	32.7 J	240	151	675	554
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	109 U	124 U	116 U	122 U	150 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	109 U	124 U	116 U	122 U	150 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	109 U	124 U	116 U	122 U	150 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	272 U	309 U	289 U	304 U	374 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	109 U	124 U	116 U	122 U	38.1 J
Caprolactam	105-60-2	NC	NC	218 U	248 U	231 U	243 U	299 U
Carbazole	86-74-8	NC	NC	17 J	33.6 J	51.5 J	640	139 J
Chrysene	218-01-9	1,000	3,900	91	437	417	1,640	1,230
Dibenzo[a,h]Anthracene	53-70-3	330	330	54.4 U	102	71.7	212	224
Dibenzofuran	132-64-9	14,000	59,000	31.9 J	124 U	86.7 J	555	320
Diethylphthalate	84-66-2	100,000[CP]	NC	109 U	124 U	116 U	122 U	150 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	109 U	124 U	116 U	122 U	150 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	109 U	124 U	116 U	122 U	150 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	109 U	124 U	116 U	122 U	150 U
Fluoranthene	206-44-0	100,000	100,000	129	663	619	3930	1590
Fluorene	86-73-7	100,000	100,000	54.4 U	61.9 U	37.6 J	673	75.4
Hexachlorobenzene	118-74-1	330 410[CP]	1,200	109 U	124 U	116 U	122 U	150 U
Hexachlorobutadiene	87-68-3	NC	NC	109 U	124 U	116 U	122 U	150 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	218 U	248 U	231 U	243 U	299 U
Hexachloroethane	67-72-1	NC	NC	109 U	124 U	116 U	122 U	150 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	42.6 J	408	206	760	803
Isophorone	78-59-1	100,000[CP]	NC	109 U	124 U	116 U	122 U	150 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	218 U	43.5 J	231 U	32.4 J	76.1 J
Naphthalene	91-20-3	100,000	100,000	59.7	61.9 U	175	561	848
Nitrobenzene	98-95-3	3,700[CP]	15,000[CP]	109 U	124 U	116 U	122 U	150 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	109 U	124 U	116 U	122 U	150 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	109 U	124 U	116 U	122 U	150 U
Pentachlorophenol	87-86-5	2,400	6,700	218 U	248 U	231 U	243 U	299 U
Phenanthrene	85-01-8	100,000	100,000	166	247	604	4930	1290
Phenol	108-95-2	100,000	100,000	218 U	248 U	231 U	243 U	49.4 J
Pyrene	129-00-0	100,000	100,000	110	620	537	3210	1450
Pyridine	110-86-1	NC	NC	218 U	248 U	231 U	243 U	299 U
Total SVOC TICs	NA	NC	NC	15,426	47,050	17,270	12,196	39,759

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICS identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs

Table 5B1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SS-124	SS-125	SS-129	SS-130	SS-131
				Sample ID	SS-124-1-2-092216	SS-125-1-2-092216	SS-129-0-0.17-092016	SS-130-0.5-1.5-092216	SS-131-0-0.17-092016
				Sample Date	9/22/2016	9/22/2016	9/20/2016	9/22/2016	9/20/2016
				Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
				Lab SDG	2177432	2177432	2177436	2177432	2177436
				Start Depth	1	1	0	0.5	0
				End Depth	2	2	0.17	1.5	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
SVOCs									
1,1'-Biphenyl	92-52-4	NC	NC	37 J	147	144 U	35 J	107 U	
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	115 U	111 U	144 U	117 U	107 U	
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	230 U	222 U	288 U	235 U	215 U	
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	230 U	222 U	288 U	235 U	215 U	
2,4,6-Trichlorophenol	88-06-2	NC	NC	230 U	222 U	288 U	235 U	215 U	
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	230 U	222 U	288 U	235 U	215 U	
2,4-Dimethylphenol	105-67-9	NC	NC	230 UJ	222 U	288 U	235 U	215 U	
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	230 U	222 U	505 U	235 U	376 U	
2,4-Dinitrotoluene	121-14-2		NC	115 UJ	111 U	144 U	117 U	107 U	
2,6-Dinitrotoluene	606-20-2	1030[CP]	NC	115 U	111 U	144 U	117 U	107 U	
2-Chloronaphthalene	91-58-7	NC	NC	115 U	111 U	144 U	117 U	107 U	
2-Chlorophenol	95-57-8	100,000[CP]	NC	230 U	222 U	288 U	235 U	215 U	
2-Methylnaphthalene	91-57-6	410[CP]	NC	297 J	2,070 J	62.1 J	258 J	25.4 J	
2-Methylphenol	95-48-7	100,000	100,000	230 U	222 U	288 U	235 U	215 U	
2-Nitroaniline	88-74-4	NC	NC	230 U	222 U	288 U	235 U	215 U	
2-Nitrophenol	88-75-5	NC	NC	230 U	222 U	288 U	235 U	215 U	
3,3-Dichlorobenzidine	91-94-1	NC	NC	230 UJ	222 U	288 U	235 U	215 U	
3-Nitroaniline	99-09-2	NC	NC	230 UJ	222 U	288 U	235 U	215 U	
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	230 UJ	222 U	288 U	235 U	215 U	
4-Bromophenyl-phenylether	101-55-3	NC	NC	115 U	111 U	144 U	117 U	107 U	
4-Chloro-3-methylphenol	59-50-7	NC	NC	230 U	222 U	288 U	235 U	215 U	
4-Chloroaniline	106-47-8	100,000[CP]	NC	230 UJ	222 U	288 U	235 U	215 U	
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	115 U	111 U	144 U	117 U	107 U	
4-Nitroaniline	100-01-6	NC	NC	230 U	222 U	288 U	235 U	215 U	
4-Nitrophenol	100-02-7	NC	NC	230 U	222 U	288 U	235 U	215 U	
Acenaphthene	83-32-9	100,000	100,000	52.1 J	189	72.1 U	24.2 J	56.3	
Acenaphthylene	208-96-8	100,000	100,000	867	55.5 U	34.1 J	58.7 U	66	
Acetophenone	98-86-2	NC	NC	115 U	111 U	144 U	117 U	107 U	
Anthracene	120-12-7	100,000	100,000	1040	560	79.3	44.7 J	209	
Atrazine	1912-24-9	NC	NC	115 U	111 U	144 U	117 U	107 U	
Benzaldehyde	100-52-7	NC	NC	59.6 J	222 U	160 J	235 U	215 U	
Benzidine	92-87-5	NC	NC	230 R	222 U	288 U	235 U	215 U	
Benzo[a]anthracene	56-55-3	1,000	1,000	1,410	1,540	293	144	646	
Benzo[a]pyrene	50-32-8	1,000	1,000	2,610	1,750	710	150	650	
Benzo[b]fluoranthene	205-99-2	1,000	1,000	4,350	2,660	628	214	865	
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	2320	1320	1070	132	407	
Benzo[k]fluoranthene	207-08-9	1,000	3900	1310	918	215	85.8	311	
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	115 U	111 U	144 U	117 U	107 U	
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	115 U	111 U	144 U	117 U	107 U	
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	115 U	111 U	144 U	117 U	107 U	
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	115 U	111 U	629	117 U	268 U	
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	115 U	111 U	144 U	117 U	138	
Caprolactam	105-60-2	NC	NC	230 UJ	222 UJ	288 U	235 UJ	215 U	
Carbazole	86-74-8	NC	NC	208	304	58.7 J	27.2 J	90.2 J	
Chrysene	218-01-9	1,000	3,900	1,970	2,130	391	200	716	
Dibenzo[a,h]Anthracene	53-70-3	330	330	572	317	572	58.7 U	119	
Dibenzofuran	132-64-9	14,000	59,000	104 J	629	144 U	58.1 J	25.3 J	
Diethylphthalate	84-66-2	100,000[CP]	NC	115 U	111 U	144 U	117 U	107 U	
Dimethylphthalate	131-11-3	100,000[CP]	NC	115 U	111 U	144 U	117 U	107 U	
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	115 U	237	144 U	117 U	107 U	
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	115 UJ	111 UJ	144 U	117 UJ	107 U	
Fluoranthene	206-44-0	100,000	100,000	1400	3050	570	225	1370	
Fluorene	86-73-7	100,000	100,000	83.1	215	72.1 U	58.7 U	63	
Hexachlorobenzene	118-74-1	330 410[CP]	1,200	115 U	111 U	144 U	117 U	107 U	
Hexachlorobutadiene	87-68-3	NC	NC	115 U	111 U	144 U	117 U	107 U	
Hexachlorocyclopentadiene	77-47-4	NC	NC	230 U	222 U	288 U	235 U	215 U	
Hexachloroethane	67-72-1	NC	NC	115 U	111 U	144 U	117 U	107 U	
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	2,170	1,300	558	124	431	
Isophorone	78-59-1	100,000[CP]	NC	115 U	111 U	144 U	117 U	107 U	
m-Cresol & p-Cresol	MEPH1314	NC	NC	230 U	222 U	288 U	235 U	215 U	
Naphthalene	91-20-3	100,000	100,000	239	1090	72.1 U	173	53.7 U	
Nitrobenzene	98-95-3	3,700[CP]	15,000[CP]	115 U	111 U	144 U	117 U	107 U	
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	115 U	111 U	144 U	117 U	107 U	
N-Nitrosodiphenylamine	86-30-6	NC	NC	115 U	111 U	144 U	117 U	107 U	
Pentachlorophenol	87-86-5	2,400	6,700	230 U	222 U	288 U	235 U	215 U	
Phenanthrene	85-01-8	100,000	100,000	731	4430	291	293	823	
Phenol	108-95-2	100,000	100,000	230 U	222 U	288 U	235 U	215 U	
Pyrene	129-00-0	100,000	100,000	2020	3850	468	276	1200	
Pyridine	110-86-1	NC	NC	230 U	222 U	288 U	235 U	215 U	
Total SVOC TICs	NA	NC	NC	19,978	26,020	80,810	6,034	16,241	

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICS identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs

Table 5B1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-132	SS-133	SS-134	SS-135	SS-136
			Sample ID	SS-132-1-1.5-092216	SS-133-1-2-092016	SS-134-0-0.17-091916	SS-135-0-0.17-091916	SS-136-0-0.17-091916
			Sample Date	9/22/2016	9/20/2016	9/19/2016	9/19/2016	9/19/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2177432	2177436	2176860	2176860	2176860
			Start Depth	1	1	0	0	0
			End Depth	1.5	2	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]					
SVOCs								
1,1'-Biphenyl	92-52-4	NC	NC	11.5 J	66.9 J	125 U	28.2 J	124 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	108 U	107 U	125 U	135 U	124 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	216 U	214 U	249 U	270 U	249 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	216 U	214 U	249 U	270 U	249 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	216 U	214 U	249 U	270 U	249 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	216 U	214 U	249 U	270 U	249 U
2,4-Dimethylphenol	105-67-9	NC	NC	216 U	214 U	249 U	270 U	249 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	216 UJ	374 U	249 U	270 U	249 U
2,4-Dinitrotoluene	121-14-2		NC	108 U	107 U	125 U	135 U	124 U
2,6-Dinitrotoluene	606-20-2	1030[CP]	NC	108 U	107 U	125 U	135 U	124 U
2-Chloronaphthalene	91-58-7	NC	NC	108 U	107 U	125 U	135 U	124 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	216 U	214 U	249 U	270 U	249 U
2-Methylnaphthalene	91-57-6	410[CP]	NC	84.3 J	359	125 U	184 J	10.2 J
2-Methylphenol	95-48-7	100,000	100,000	216 U	214 U	249 U	28.3 J	249 U
2-Nitroaniline	88-74-4	NC	NC	216 U	214 U	249 U	270 U	249 U
2-Nitrophenol	88-75-5	NC	NC	216 U	214 U	249 U	270 U	249 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	216 U	214 U	249 U	270 U	249 U
3-Nitroaniline	99-09-2	NC	NC	216 U	214 U	249 U	270 U	249 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	216 U	214 U	249 U	270 U	249 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	108 U	107 U	125 U	135 U	124 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	216 U	214 U	249 U	270 U	249 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	216 U	214 U	249 U	270 U	249 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	108 U	107 U	125 U	135 U	124 U
4-Nitroaniline	100-01-6	NC	NC	216 U	214 U	249 U	270 U	249 U
4-Nitrophenol	100-02-7	NC	NC	216 UJ	214 U	249 U	270 U	249 U
Acenaphthene	83-32-9	100,000	100,000	47.9 J	354	62.3 U	183	62.2 U
Acenaphthylene	208-96-8	100,000	100,000	101	53.4 U	9 J	982	9.7 J
Acetophenone	98-86-2	NC	NC	108 U	107 U	125 U	135 U	124 U
Anthracene	120-12-7	100,000	100,000	277	1180	19 J	983	14.7 J
Atrazine	1912-24-9	NC	NC	108 U	107 U	125 U	135 U	124 U
Benzaldehyde	100-52-7	NC	NC	19.2 J	109 J	22.4 J	86.7 J	249 U
Benzidine	92-87-5	NC	NC	216 U	214 U	249 U	270 U	249 U
Benzo[a]anthracene	56-55-3	1,000	1,000	985	1,910	94.5	3,920	84.7
Benzo[a]pyrene	50-32-8	1,000	1,000	1,110	1,740	106	3,780	92.4
Benzo[b]fluoranthene	205-99-2	1,000	1,000	1,360 J	2,410	134	5,840	130
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	662	1150	80.5	1,990	59.7 J
Benzo[k]fluoranthene	207-08-9	1,000	3900	528 J	852	68.5	2,200	52.9 J
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	108 U	107 U	125 U	135 U	124 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	108 U	107 U	125 U	135 U	124 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	108 U	107 U	125 U	135 U	124 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	57.1 J	267 U	125 U	135 U	124 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	108 U	107 U	125 U	135 U	124 U
Caprolactam	105-60-2	NC	NC	216 U	214 U	249 UJ	270 UJ	249 UJ
Carbazole	86-74-8	NC	NC	117	501	13 J	372	10.2 J
Chrysene	218-01-9	1,000	3,900	990	2130	92.8	4,140	103
Dibenzo[a,h]Anthracene	53-70-3	330	330	187	300	25.8 J	582	14.7 J
Dibenzofuran	132-64-9	14,000	59,000	58.1 J	432	125 U	148	124 U
Diethylphthalate	84-66-2	100,000[CP]	NC	108 U	107 U	125 U	135 U	124 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	108 U	107 U	125 U	135 U	124 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	108 U	107 U	125 U	135 U	124 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	108 UJ	107 U	125 UJ	135 UJ	124 UJ
Fluoranthene	206-44-0	100,000	100,000	1730	5330	161	8170	161
Fluorene	86-73-7	100,000	100,000	90.8	475	62.3 U	205	62.2 U
Hexachlorobenzene	118-74-1	330 410[CP]	1,200	108 U	107 U	125 U	135 U	124 U
Hexachlorobutadiene	87-68-3	NC	NC	108 U	107 U	125 U	135 U	124 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	216 U	214 U	249 U	270 U	249 U
Hexachloroethane	67-72-1	NC	NC	108 U	107 U	125 U	135 U	124 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	732	1,220	72.4	2,340	62.1 J
Isophorone	78-59-1	100,000[CP]	NC	108 U	107 U	125 U	135 U	124 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	16.5 J	23.5 J	249 U	64.8 J	249 U
Naphthalene	91-20-3	100,000	100,000	94.5 J	375	62.3 U	260	62.2 U
Nitrobenzene	98-95-3	3,700[CP]	15,000[CP]	108 U	107 U	125 U	135 U	124 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	108 U	107 U	125 U	135 U	124 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	108 U	107 U	125 U	135 U	124 U
Pentachlorophenol	87-86-5	2,400	6,700	216 U	214 U	249 U	270 U	249 U
Phenanthrene	85-01-8	100,000	100,000	1060	5510	65.9	2920	65.2
Phenol	108-95-2	100,000	100,000	216 U	214 U	249 U	60 J	249 U
Pyrene	129-00-0	100,000	100,000	1790 J	4070	157	7900	150
Pyridine	110-86-1	NC	NC	216 U	214 U	249 U	270 U	249 U
Total SVOC TICs	NA	NC	NC	7,811	28,635	4,765	23,228	11,241

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICS identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs

Table 5B1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SS-137	SS-138	SS-140	SS-141[BB]	SS-142
				Sample ID	SS-137-1.5-2-092016	SS-138-0.5-1-092016	SS-140-0-0.17-091916	SS-141-1-2-092116	SS-142-0.5-1.5-092116
				Sample Date	9/20/2016	9/20/2016	9/19/2016	9/21/2016	9/21/2016
				Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
				Lab SDG	2177436	2177433	2176860	2177433	2177433
				Start Depth	1.5	0.5	0	1	0.5
				End Depth	2	1	0.17	2	1.5
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
SVOCs									
1,1'-Biphenyl	92-52-4	NC	NC	108 U	106 U	29.3 J	6510	258	
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	108 U	106 U	150 U	131 U	111 U	
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	216 U	212 U	299 U	262 U	222 U	
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	216 U	212 U	299 U	262 U	222 U	
2,4,6-Trichlorophenol	88-06-2	NC	NC	216 U	212 U	299 U	262 U	222 U	
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	216 U	212 U	299 U	262 U	222 U	
2,4-Dimethylphenol	105-67-9	NC	NC	216 U	212 U	299 U	540	222 U	
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	378 U	370 U	299 U	459 U	389 U	
2,4-Dinitrotoluene	121-14-2		NC	108 U	106 U	150 U	131 U	111 U	
2,6-Dinitrotoluene	606-20-2	1030[CP]	NC	108 U	106 U	150 U	131 U	111 U	
2-Chloronaphthalene	91-58-7	NC	NC	108 U	106 U	150 U	131 U	111 U	
2-Chlorophenol	95-57-8	100,000[CP]	NC	216 U	212 U	299 U	262 U	222 U	
2-Methylnaphthalene	91-57-6	410[CP]	NC	108 U	72.3 J	234 J	33,000	1,470	
2-Methylphenol	95-48-7	100,000	100,000	216 U	212 U	299 U	283	222 U	
2-Nitroaniline	88-74-4	NC	NC	216 U	212 U	299 U	262 U	222 U	
2-Nitrophenol	88-75-5	NC	NC	216 U	212 U	299 U	262 U	222 U	
3,3-Dichlorobenzidine	91-94-1	NC	NC	216 U	212 U	299 U	262 U	222 U	
3-Nitroaniline	99-09-2	NC	NC	216 U	212 U	299 U	262 U	222 U	
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	216 U	212 U	299 U	262 U	222 U	
4-Bromophenyl-phenylether	101-55-3	NC	NC	108 U	106 U	150 U	131 U	111 U	
4-Chloro-3-methylphenol	59-50-7	NC	NC	216 U	212 U	299 U	262 U	222 U	
4-Chloroaniline	106-47-8	100,000[CP]	NC	216 U	212 U	299 U	262 U	222 U	
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	108 U	106 U	150 U	131 U	111 U	
4-Nitroaniline	100-01-6	NC	NC	216 U	212 U	299 U	262 U	222 U	
4-Nitrophenol	100-02-7	NC	NC	216 U	212 U	299 U	262 U	222 U	
Acenaphthene	83-32-9	100,000	100,000	54 U	52.9 U	29.2 J	96200	2630	
Acenaphthylene	208-96-8	100,000	100,000	54 U	52.9 U	355	65.6 U	622	
Acetophenone	98-86-2	NC	NC	108 U	106 U	150 U	380	111 U	
Anthracene	120-12-7	100,000	100,000	54 U	52.9 U	219	184,000	7980	
Atrazine	1912-24-9	NC	NC	108 U	106 U	150 U	131 U	111 U	
Benzaldehyde	100-52-7	NC	NC	216 U	212 U	181 J	262 U	222 U	
Benzidine	92-87-5	NC	NC	216 U	212 U	299 U	262 U	222 U	
Benzo[a]anthracene	56-55-3	1,000	1,000	54 U	52.9 U	1,020	232,000	20,400	
Benzo[a]pyrene	50-32-8	1,000	1,000	54 U	52.9 U	1,890	202,000	16,800	
Benzo[b]fluoranthene	205-99-2	1,000	1,000	31.3 J	34.8 J	3,180	262,000	22,700	
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	54 U	52.9 U	1,050	114,000	8,580	
Benzo[k]fluoranthene	207-08-9	1,000	3900	54 U	52.9 U	1,020	99,400	7,100	
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	108 U	106 U	150 U	131 U	111 U	
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	108 U	106 U	150 U	131 U	111 U	
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	108 U	106 U	150 U	131 U	111 U	
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	270 U	265 U	150 U	328 U	278 U	
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	108 U	106 U	150 U	131 U	111 U	
Caprolactam	105-60-2	NC	NC	216 U	212 U	299 UJ	262 U	222 U	
Carbazole	86-74-8	NC	NC	108 U	106 U	79.9 J	107,000	3420	
Chrysene	218-01-9	1,000	3,900	54 U	34.1 J	1,780	229,000	21,000	
Dibenzo[a,h]Anthracene	53-70-3	330	330	54 U	52.9 U	358	32,100	2,840	
Dibenzofuran	132-64-9	14,000	59,000	108 U	31 J	94.8 J	81,900	1,510	
Diethylphthalate	84-66-2	100,000[CP]	NC	108 U	106 U	150 U	131 U	111 U	
Dimethylphthalate	131-11-3	100,000[CP]	NC	108 U	106 U	150 U	131 U	111 U	
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	108 U	106 U	150 U	131 U	111 U	
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	108 U	106 U	150 UJ	131 U	111 U	
Fluoranthene	206-44-0	100,000	100,000	38.1 J	41.2 J	980	598,000	44,600	
Fluorene	86-73-7	100,000	100,000	54 U	52.9 U	45.8 J	114,000	3140	
Hexachlorobenzene	118-74-1	330 410[CP]	1,200	108 U	106 U	150 U	131 U	111 U	
Hexachlorobutadiene	87-68-3	NC	NC	108 U	106 U	150 U	131 U	111 U	
Hexachlorocyclopentadiene	77-47-4	NC	NC	216 U	212 U	299 U	262 U	222 U	
Hexachloroethane	67-72-1	NC	NC	108 U	106 U	150 U	131 U	111 U	
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	54 U	52.9 U	1,240	127,000	10,600	
Isophorone	78-59-1	100,000[CP]	NC	108 U	106 U	150 U	131 U	111 U	
m-Cresol & p-Cresol	MEPH1314	NC	NC	216 U	212 U	299 U	837	53.5 J	
Naphthalene	91-20-3	100,000	100,000	54 U	52.9 U	124	95,000	1,450	
Nitrobenzene	98-95-3	3,700[CP]	15,000[CP]	108 U	106 U	150 U	131 U	111 U	
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	108 U	106 U	150 U	131 U	111 U	
N-Nitrosodiphenylamine	86-30-6	NC	NC	108 U	106 U	150 U	131 U	111 U	
Pentachlorophenol	87-86-5	2,400	6,700	216 U	212 U	299 U	262 U	222 U	
Phenanthrene	85-01-8	100,000	100,000	20.7 J	172	986	733,000	38,800	
Phenol	108-95-2	100,000	100,000	216 U	212 U	299 U	456	222 U	
Pyrene	129-00-0	100,000	100,000	31.8 J	35.1 J	1,050	470,000	39500	
Pyridine	110-86-1	NC	NC	216 U	212 U	299 U	262 U	222 U	
Total SVOC TICs	NA	NC	NC	1,719	14,274	49,520	7,811	48,867	

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICS identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
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[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs

Table 5B1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-143	SS-144	SS-145	SS-146
			Sample ID	SS-143-0-0.17-091916	SS-144-0.5-1.5-092116	SS-145-0.5-1.5-092116	SS-146-0-0.17-091916
			Sample Date	9/19/2016	9/21/2016	9/21/2016	9/19/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2176860	2177433	2177433	2176860
			Start Depth	0	0.5	0.5	0
			End Depth	0.17	1.5	1.5	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]				
SVOCs							
1,1'-Biphenyl	92-52-4	NC	NC	133 U	104 U	21.6 J	127 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	133 U	104 U	115 U	127 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	266 U	208 U	231 U	253 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	266 U	208 U	231 U	253 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	266 U	208 U	231 U	253 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	266 U	208 U	231 U	253 U
2,4-Dimethylphenol	105-67-9	NC	NC	266 U	208 U	231 U	253 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	266 U	208 UJ	231 UJ	253 U
2,4-Dinitrotoluene	121-14-2		NC	133 U	104 U	115 U	127 U
2,6-Dinitrotoluene	606-20-2	1030[CP]	NC	133 U	104 U	115 U	127 U
2-Chloronaphthalene	91-58-7	NC	NC	133 U	104 U	115 U	127 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	266 U	208 U	231 U	253 U
2-Methylnaphthalene	91-57-6	410[CP]	NC	133 U	27.1 J	113 J	10.1 J
2-Methylphenol	95-48-7	100,000	100,000	266 U	208 U	231 U	253 U
2-Nitroaniline	88-74-4	NC	NC	266 U	208 U	231 U	253 U
2-Nitrophenol	88-75-5	NC	NC	266 U	208 U	231 U	253 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	266 U	208 U	231 U	253 U
3-Nitroaniline	99-09-2	NC	NC	266 U	208 U	231 U	253 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	266 U	208 U	231 U	253 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	133 U	104 U	115 U	127 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	266 U	208 U	231 U	253 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	266 U	208 U	231 U	253 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	133 U	104 U	115 U	127 U
4-Nitroaniline	100-01-6	NC	NC	266 U	208 U	231 U	253 U
4-Nitrophenol	100-02-7	NC	NC	266 U	208 UJ	231 UJ	253 U
Acenaphthene	83-32-9	100,000	100,000	66.4 U	52.1 U	57.7 U	63.3 U
Acenaphthylene	208-96-8	100,000	100,000	66.4 U	52.1 U	97.7	63.3 U
Acetophenone	98-86-2	NC	NC	133 U	104 U	115 U	127 U
Anthracene	120-12-7	100,000	100,000	11.6 J	11.4 J	64.2	63.3 U
Atrazine	1912-24-9	NC	NC	133 U	104 U	115 U	127 U
Benzaldehyde	100-52-7	NC	NC	266 U	32.4 J	118 J	253 U
Benzidine	92-87-5	NC	NC	266 U	208 R	231 U	253 U
Benzo[a]anthracene	56-55-3	1,000	1,000	57 J	52.1 U	229	53.2 J
Benzo[a]pyrene	50-32-8	1,000	1,000	69.3	46.9 J	243	66.7
Benzo[b]fluoranthene	205-99-2	1,000	1,000	107	79.8 J	581 J	90.1
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	56.7 J	39.9 J	271	43 J
Benzo[k]fluoranthene	207-08-9	1,000	3900	46.6 J	29.4 J	156 J	63.3 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	133 U	104 U	115 U	127 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	133 U	104 U	115 U	127 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	133 U	104 U	115 U	127 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	133 U	19 J	13 J	127 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	133 U	7.7 J	115 U	127 U
Caprolactam	105-60-2	NC	NC	266 UJ	208 U	231 U	253 UJ
Carbazole	86-74-8	NC	NC	12.7 J	8.8 J	29.1 J	10.2 J
Chrysene	218-01-9	1,000	3,900	64.7 J	71	457	68.1
Dibenzo[a,h]Anthracene	53-70-3	330	330	66.4 U	11.5 J	98.8	12.8 J
Dibenzofuran	132-64-9	14,000	59,000	133 U	9.1 J	28.8 J	127 U
Diethylphthalate	84-66-2	100,000[CP]	NC	133 U	104 U	115 U	127 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	133 U	104 U	115 U	127 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	133 U	104 U	115 U	127 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	133 UJ	104 UJ	115 UJ	127 UJ
Fluoranthene	206-44-0	100,000	100,000	123	85.5	370	120
Fluorene	86-73-7	100,000	100,000	66.4 U	52.1 U	28.1 J	63.3 U
Hexachlorobenzene	118-74-1	330 410[CP]	1,200	133 U	104 U	115 U	127 U
Hexachlorobutadiene	87-68-3	NC	NC	133 U	104 U	115 U	127 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	266 U	208 U	231 U	253 U
Hexachloroethane	67-72-1	NC	NC	133 U	104 U	115 U	127 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	65 J	40.9 J	193	47.3 J
Isophorone	78-59-1	100,000[CP]	NC	133 U	104 U	115 U	127 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	266 U	208 U	15.9 J	253 U
Naphthalene	91-20-3	100,000	100,000	66.4 U	52.1 U	140 J	63.3 U
Nitrobenzene	98-95-3	3,700[CP]	15,000[CP]	133 U	104 U	115 U	127 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	133 U	104 U	115 U	127 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	133 U	104 U	115 U	127 U
Pentachlorophenol	87-86-5	2,400	6,700	266 U	208 U	231 U	253 U
Phenanthrene	85-01-8	100,000	100,000	49.9 J	69	651	72.2
Phenol	108-95-2	100,000	100,000	266 U	208 U	231 U	253 U
Pyrene	129-00-0	100,000	100,000	126	87.5 J	455 J	129
Pyridine	110-86-1	NC	NC	266 U	208 U	231 U	253 U
Total SVOC TICs	NA	NC	NC	10,099	NT	17,218	3,639

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICS identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs

Table 5B1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-147	SS-148	SS-149	SS-150	SS-150
			Sample ID	SS-147-0.5-1.5-092116	SS-148-0-0.17-092016	SS-149-0-0.17-091916	DUP-006-091916	SS-150-0-0.17-091916
			Sample Date	9/21/2016	9/20/2016	9/19/2016	9/19/2016	9/19/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2177433	2177436	2176860	2176860	2176860
			Start Depth	0.5	0	0	0	0
			End Depth	1.5	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]					
SVOCs								
1,1'-Biphenyl	92-52-4	NC	NC	1080	33.2 J	25.3 J	126 U	129 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	112 U	127 U	126 U	126 U	129 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	225 U	254 U	252 U	253 U	258 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	225 U	254 U	252 U	253 U	258 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	225 U	254 U	252 U	253 U	258 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	225 U	254 U	252 U	253 U	258 U
2,4-Dimethylphenol	105-67-9	NC	NC	47.9 J	254 U	252 U	253 U	258 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	394 U	444 R	252 U	253 U	258 U
2,4-Dinitrotoluene	121-14-2		NC	112 U	127 U	126 U	126 U	129 U
2,6-Dinitrotoluene	606-20-2	1030[CP]	NC	112 U	127 U	126 U	126 U	129 U
2-Chloronaphthalene	91-58-7	NC	NC	112 U	127 U	126 U	126 U	129 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	225 U	254 U	252 U	253 U	258 U
2-Methylnaphthalene	91-57-6	410[CP]	NC	4,820	233	180 J	34 J	22.4 J
2-Methylphenol	95-48-7	100,000	100,000	45 J	254 U	252 U	253 U	258 U
2-Nitroaniline	88-74-4	NC	NC	225 U	254 U	252 U	253 U	258 U
2-Nitrophenol	88-75-5	NC	NC	225 U	254 U	252 U	253 U	258 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	225 U	254 U	252 U	253 U	258 U
3-Nitroaniline	99-09-2	NC	NC	225 U	254 U	252 U	253 U	258 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	225 U	254 UJ	252 U	253 U	258 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	112 U	127 U	126 U	126 U	129 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	225 U	254 U	252 U	253 U	258 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	225 U	254 U	252 U	253 U	258 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	112 U	127 U	126 U	126 U	129 U
4-Nitroaniline	100-01-6	NC	NC	225 U	254 U	252 U	253 U	258 U
4-Nitrophenol	100-02-7	NC	NC	225 U	254 U	252 U	253 U	258 U
Acenaphthene	83-32-9	100,000	100,000	14,900	48.2 J	63.2	63.2 U	64.5 U
Acenaphthylene	208-96-8	100,000	100,000	56.2 U	105	1050	19.5 J	15.3 J
Acetophenone	98-86-2	NC	NC	112 U	127 U	126 U	126 U	129 U
Anthracene	120-12-7	100,000	100,000	37200	199	722	24.4 J	16.8 J
Atrazine	1912-24-9	NC	NC	112 U	127 U	126 U	126 U	129 U
Benzaldehyde	100-52-7	NC	NC	225 U	169 J	88.1 J	253 U	258 U
Benzidine	92-87-5	NC	NC	225 U	254 R	252 U	253 U	258 U
Benzo[a]anthracene	56-55-3	1,000	1,000	59,300	842	2,970	109	94.7
Benzo[a]pyrene	50-32-8	1,000	1,000	52,300	898	3,100	119	119
Benzo[b]fluoranthene	205-99-2	1,000	1,000	66,200	1,270	4,800	169	162
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	29,600	654	1,790	80.1	77.5
Benzo[k]fluoranthene	207-08-9	1,000	3900	23,800	456	2,040	73.3	59.3 J
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	112 U	127 U	126 U	126 U	129 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	112 U	127 U	126 U	126 U	129 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	112 U	127 U	126 U	126 U	129 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	281 U	317 U	126 U	126 U	129 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	112 U	127 U	126 U	126 U	129 U
Caprolactam	105-60-2	NC	NC	225 U	254 U	252 UJ	253 UJ	258 UJ
Carbazole	86-74-8	NC	NC	12,700	134	280	13 J	13.8 J
Chrysene	218-01-9	1,000	3,900	58,700	1,080	3,460	133	120
Dibenzo[a,h]Anthracene	53-70-3	330	330	7,850	185	540	21.6 J	23 J
Dibenzofuran	132-64-9	14,000	59,000	9,000	88.6 J	116 J	126 U	129 U
Diethylphthalate	84-66-2	100,000[CP]	NC	112 U	127 U	126 U	126 U	129 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	112 U	127 U	126 U	126 U	129 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	112 U	127 U	126 U	126 U	129 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	112 U	127 U	126 UJ	126 UJ	129 UJ
Fluoranthene	206-44-0	100,000	100,000	151,000	1,700	5,930	235	202
Fluorene	86-73-7	100,000	100,000	17,100	69.6	140	63.2 U	64.5 U
Hexachlorobenzene	118-74-1	330 410[CP]	1,200	112 U	127 U	126 U	126 U	129 U
Hexachlorobutadiene	87-68-3	NC	NC	112 U	127 U	126 U	126 U	129 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	225 U	254 UJ	252 U	253 U	258 U
Hexachloroethane	67-72-1	NC	NC	112 U	127 U	126 U	126 U	129 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	32,900	693	2,130	79.6	75.4
Isophorone	78-59-1	100,000[CP]	NC	112 U	127 U	126 U	126 U	129 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	116 J	254 U	252 U	253 U	258 U
Naphthalene	91-20-3	100,000	100,000	7,800	157	239	63.2 U	64.5 U
Nitrobenzene	98-95-3	3,700[CP]	15,000[CP]	112 U	127 U	126 U	126 U	129 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	112 U	127 U	126 U	126 U	129 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	112 U	127 U	126 U	126 U	129 U
Pentachlorophenol	87-86-5	2,400	6,700	225 U	254 U	252 U	253 U	258 U
Phenanthrene	85-01-8	100,000	100,000	155,000	1,040	1,830	96.8	94.7
Phenol	108-95-2	100,000	100,000	80.7 J	254 U	252 U	253 U	258 U
Pyrene	129-00-0	100,000	100,000	126,000	1,450	6,150	235	216
Pyridine	110-86-1	NC	NC	225 U	254 U	252 U	253 U	258 U
Total SVOC TICs	NA	NC	NC	13,369	83,050	33,490	17,061	12,510

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICS identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs

Table 5B1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-151
			Sample ID	SS-151-0-0.5-092116
			Sample Date	9/21/2016
			Unit	µg/kg
			Lab SDG	2177433
			Start Depth	0
			End Depth	0.5
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]	
SVOCs				
1,1'-Biphenyl	92-52-4	NC	NC	48.5 J
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	120 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	240 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	240 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	240 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	240 U
2,4-Dimethylphenol	105-67-9	NC	NC	240 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	240 UJ
2,4-Dinitrotoluene	121-14-2		NC	120 U
2,6-Dinitrotoluene	606-20-2	1030[CP]	NC	120 U
2-Chloronaphthalene	91-58-7	NC	NC	120 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	240 U
2-Methylnaphthalene	91-57-6	410[CP]	NC	411 J
2-Methylphenol	95-48-7	100,000	100,000	240 U
2-Nitroaniline	88-74-4	NC	NC	240 U
2-Nitrophenol	88-75-5	NC	NC	240 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	240 U
3-Nitroaniline	99-09-2	NC	NC	240 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	240 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	120 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	240 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	240 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	120 U
4-Nitroaniline	100-01-6	NC	NC	240 U
4-Nitrophenol	100-02-7	NC	NC	240 UJ
Acenaphthene	83-32-9	100,000	100,000	73.2
Acenaphthylene	208-96-8	100,000	100,000	694
Acetophenone	98-86-2	NC	NC	120 U
Anthracene	120-12-7	100,000	100,000	618
Atrazine	1912-24-9	NC	NC	120 U
Benzaldehyde	100-52-7	NC	NC	159 J
Benzidine	92-87-5	NC	NC	240 U
Benzo[a]anthracene	56-55-3	1,000	1,000	2,310
Benzo[a]pyrene	50-32-8	1,000	1,000	2,000
Benzo[b]fluoranthene	205-99-2	1,000	1,000	3,630 J
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	1,160
Benzo[k]fluoranthene	207-08-9	1,000	3900	1,260 J
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	120 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	120 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	120 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	26.5 J
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	120 U
Caprolactam	105-60-2	NC	NC	240 U
Carbazole	86-74-8	NC	NC	156
Chrysene	218-01-9	1,000	3,900	2,500
Dibenzo[a,h]Anthracene	53-70-3	330	330	366
Dibenzofuran	132-64-9	14,000	59,000	143
Diethylphthalate	84-66-2	100,000[CP]	NC	120 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	120 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	309
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	120 UJ
Fluoranthene	206-44-0	100,000	100,000	4,570
Fluorene	86-73-7	100,000	100,000	90
Hexachlorobenzene	118-74-1	330 410[CP]	1,200	120 U
Hexachlorobutadiene	87-68-3	NC	NC	120 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	240 U
Hexachloroethane	67-72-1	NC	NC	120 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	1,430
Isophorone	78-59-1	100,000[CP]	NC	120 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	26.5 J
Naphthalene	91-20-3	100,000	100,000	373 J
Nitrobenzene	98-95-3	3,700[CP]	15,000[CP]	120 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	120 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	120 U
Pentachlorophenol	87-86-5	2,400	6,700	240 U
Phenanthrene	85-01-8	100,000	100,000	1190
Phenol	108-95-2	100,000	100,000	39.6 J
Pyrene	129-00-0	100,000	100,000	4,480 J
Pyridine	110-86-1	NC	NC	240 U
Total SVOC TICs	NA	NC	NC	13,375

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICS identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs

Table 5C - Surface Soil Results Compared to Restricted SCOs
Pesticides/Herbicides
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-114	SS-123	SS-126	SS-127	SS-131	SS-135	SS-136	SS-140	SS-143	SS-152
			Sample ID	SS-114-0-0.17-092016	SS-123-0-0.17-092016	SS-126-0-0.17-092016	SS-127-0-0.17-092016	SS-131-0-0.17-092016	SS-135-0-0.17-091916	SS-136-0-0.17-091916	SS-140-0-0.17-091916	SS-143-0-0.17-091916	SS-152-0-0.17-091916
			Sample Date	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016
			Unit	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
			Lab SDG	2177436	2177436	2177436	2177436	2177436	2176860	2176860	2176860	2176860	2176860
			Start Depth	0	0	0	0	0	0	0	0	0	0
			End Depth	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]										
Pesticides/Herbicides													
4-4-DDD	72-54-8	2,600	13,000	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
4-4-DDE	72-55-9	1,800	8,900	18.6 JN	6.7 JN	4 U	3.8 U	1.5 J	7.2 J	3.3 U	7.1 JN	4.4 J	3.3 U
4-4-DDT	50-29-3	1,700	7,900	18.8	13.7 J	4 U	11.4 JN	8.3	8.6 JN	3.3 U	22.2 J	3.6 U	3.3 U
a-BHC	319-84-6	97	480	3.7 U	3.9 U	4 U	4.1 J	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Aldrin	309-00-2	19	97	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
alpha-Chlordane	5103-71-9	910	4,200	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
b-BHC	319-85-7	72	360	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
d-BHC	319-86-8	100,000	100,000	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Dieldrin	60-57-1	39	200	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Endosulfan I	959-98-8	4,800	24,000	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Endosulfan II	33213-65-9	4,800	24,000	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Endosulfan Sulfate	1031-07-8	4,800	24,000	3.7 U	3.9 U	4 U	3.8 U	2.9 U	9.4 J	3.3 U	4.1 U	3.6 U	3.3 U
Endrin	72-20-8	2,200	11,000	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Endrin Aldehyde	7421-93-4	NC	NC	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Endrin Ketone	53494-70-5	NC	NC	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Heptachlor	76-44-8	420	2100	3.9 J	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Heptachlor Epoxide	1024-57-3	77[CP]	NC	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Lindane	58-89-9	280	1,300	3.7 U	3.9 U	4.7 JN	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Methoxychlor	72-43-5	100,000[CP]	NC	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Toxaphene	8001-35-2	NC	NC	74.4 U	79.7 U	81.6 U	76.2 U	57.9 U	72.8 U	67.1 U	82.9 U	72.5 U	66.2 U
y-Chlordane	5103-74-2	540[CP]	NC	3.7 U	3.9 U	4 U	3.8 U	1.9 J	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51

Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5C1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
Pesticides/Herbicides
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-113	SS-113	SS-114	SS-120	SS-123	SS-124	SS-125	SS-126	SS-127	SS-131
			Sample ID	DUP-005-092116	SS-113-1-2-092116	SS-114-0-0.17-092016	SS-120-0.5-1-092116	SS-123-0-0.17-092016	SS-124-1-2-092216	SS-125-1-2-092216	SS-126-0-0.17-092016	SS-127-0-0.17-092016	SS-131-0-0.17-092016
			Sample Date	9/21/2016	9/21/2016	9/20/2016	9/21/2016	9/20/2016	9/22/2016	9/22/2016	9/20/2016	9/20/2016	9/20/2016
			Unit	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
			Lab SDG	2177433	2177433	2177436	2177433	2177436	2177432	2177432	2177436	2177436	2177436
			Start Depth	1	1	0	0.5	0	1	1	0	0	0
			End Depth	2	2	0.17	1	0.17	2	2	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]										
Pesticides/Herbicides													
4-4-DDD	72-54-8	2,600	13,000	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U	2.9 U
4-4-DDE	72-55-9	1,800	8,900	2.8 U	1.7 J	18.6 JN	3 U	6.7 JN	4.5 JN	2.9 U	4 U	3.8 U	1.5 J
4-4-DDT	50-29-3	1,700	7,900	2.8 U	2.9 U	18.8	3 U	13.7 J	48.1	11.3 J	4 U	11.4 JN	8.3
a-BHC	319-84-6	97	480	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	4.1 J	2.9 U
Aldrin	309-00-2	19	97	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U	2.9 U
alpha-Chlordane	5103-71-9	910	4,200	2.8 U	2.9 U	3.7 U	3 U	3.9 U	2 J	2.9 U	4 U	3.8 U	2.9 U
b-BHC	319-85-7	72	360	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U	2.9 U
d-BHC	319-86-8	100,000	100,000	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U	2.9 U
Dieldrin	60-57-1	39	200	2.8 U	2.9 U	3.7 U	3 U	3.9 U	20.7 JN	2.9 U	4 U	3.8 U	2.9 U
Endosulfan I	959-98-8	4,800	24,000	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U	2.9 U
Endosulfan II	33213-65-9	4,800	24,000	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U	2.9 U
Endosulfan Sulfate	1031-07-8	4,800	24,000	2.8 U	2.9 U	3.7 U	3 U	3.9 U	6.2 JN	2.9 U	4 U	3.8 U	2.9 U
Endrin	72-20-8	2,200	11,000	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U	2.9 U
Endrin Aldehyde	7421-93-4	NC	NC	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U	2.9 U
Endrin Ketone	53494-70-5	NC	NC	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U	2.9 U
Heptachlor	76-44-8	420	2100	2.8 U	2.9 U	3.9 J	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U	2.9 U
Heptachlor Epoxide	1024-57-3	77[CP]	NC	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U	2.9 U
Lindane	58-89-9	280	1,300	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4.7 JN	3.8 U	2.9 U
Methoxychlor	72-43-5	100,000[CP]	NC	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U	2.9 U
Toxaphene	8001-35-2	NC	NC	57.8 U	59.5 U	74.4 U	61.9 U	79.7 U	59.9 U	58.7 U	81.6 U	76.2 U	57.9 U
γ-Chlordane	5103-74-2	540[CP]	NC	2.8 U	2.9 U	3.7 U	3 U	3.9 U	4.8	2.9 U	4 U	3.8 U	1.9 J

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5C1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
Pesticides/Herbicides
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-132	SS-133	SS-135	SS-136	SS-138	SS-140	SS-143	SS-144	SS-145	SS-147	SS-152
			Sample ID	SS-132-1-1.5-092216	SS-133-1-2-092016	SS-135-0-0.17-091916	SS-136-0-0.17-091916	SS-138-0.5-1-092016	SS-140-0-0.17-091916	SS-143-0-0.17-091916	SS-144-0.5-1.5-092116	SS-145-0.5-1.5-092116	SS-147-0.5-1.5-092116	SS-152-0-0.17-091916
			Sample Date	9/22/2016	9/20/2016	9/19/2016	9/19/2016	9/20/2016	9/19/2016	9/19/2016	9/21/2016	9/21/2016	9/21/2016	9/19/2016
			Unit	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
			Lab SDG	2177432	2177436	2176860	2176860	2177433	2176860	2176860	2177433	2177433	2177433	2176860
			Start Depth	1	1	0	0	0.5	0	0	0.5	0.5	0.5	0
			End Depth	1.5	2	0.17	0.17	1	0.17	0.17	1.5	1.5	1.5	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]											
Pesticides/Herbicides														
4-4-DDD	72-54-8	2,600	13,000	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
4-4-DDE	72-55-9	1,800	8,900	2.8 U	2.8 U	7.2 J	3.3 U	2.8 U	7.1 JN	4.4 J	3.8	3.1 U	2.9 U	3.3 U
4-4-DDT	50-29-3	1,700	7,900	3.1 JN	2.8 U	8.6 JN	3.3 U	2.8 U	22.2 J	3.6 U	2.8 J	3.1 U	2.9 U	3.3 U
a-BHC	319-84-6	97	480	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Aldrin	309-00-2	19	97	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
alpha-Chlordane	5103-71-9	910	4,200	1.3 J	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
b-BHC	319-85-7	72	360	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
d-BHC	319-86-8	100,000	100,000	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Dieldrin	60-57-1	39	200	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Endosulfan I	959-98-8	4,800	24,000	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Endosulfan II	33213-65-9	4,800	24,000	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Endosulfan Sulfate	1031-07-8	4,800	24,000	2.8 U	2.8 U	9.4 J	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Endrin	72-20-8	2,200	11,000	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Endrin Aldehyde	7421-93-4	NC	NC	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Endrin Ketone	53494-70-5	NC	NC	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Heptachlor	76-44-8	420	2100	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Heptachlor Epoxide	1024-57-3	77[CP]	NC	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Lindane	58-89-9	280	1,300	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Methoxychlor	72-43-5	100,000[CP]	NC	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Toxaphene	8001-35-2	NC	NC	57.2 U	57.6 U	72.8 U	67.1 U	57.8 U	82.9 U	72.5 U	58.8 U	63.6 U	58.7 U	66.2 U
y-Chlordane	5103-74-2	540[CP]	NC	2.7 J	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51

Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5D - Surface Soil Results Compared to Restricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SS-123	SS-123	SS-126	SS-127
				Sample ID	DUP-007-092016	SS-123-0-0.17-092016	SS-126-0-0.17-092016	SS-127-0-0.17-092016
				Sample Date	9/20/2016	9/20/2016	9/20/2016	9/20/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	2177436	2177436	2177436	2177436
				Start Depth	0	0	0	0
				End Depth	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]	CP PCB Guidance[2] Greater 1 ft				
PCBs								
Aroclor 1268	11100-14-4	NC	NC	NC	0.048 U	0.049 U	0.27 U	0.05 U
Aroclor-1016	12674-11-2	NC	NC	1	0.048 U	0.049 U	0.27 U	0.05 U
Aroclor-1221	11104-28-2	NC	NC	1	0.048 U	0.049 U	0.27 U	0.05 U
Aroclor-1232	11141-16-5	NC	NC	1	0.048 U	0.049 U	0.27 U	0.05 U
Aroclor-1242	53469-21-9	NC	NC	1	0.048 U	0.049 U	0.27 U	0.05 U
Aroclor-1248	12672-29-6	NC	NC	1	0.048 U	0.049 U	0.82 J	0.05 U
Aroclor-1254	11097-69-1	NC	NC	1	0.048 U	0.04 J	2.6	0.21
Aroclor-1260	11096-82-5	NC	NC	1	0.018 J	0.023 J	1.3	0.088
PCB-1262	37324-23-5	NC	NC	NC	0.048 U	0.049 U	0.27 U	0.05 U
Total PCBs	1336-36-3	1	1	1	0.018 J	0.063	4.7	0.29

Notes:
U - Not detected at the detection limit shown
mg/kg - milligrams per kilogram
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
R - result rejected during validation due to QA/QC excursion
JN - Detection is tenative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[2] - Criteria from the CP-51, Soil Cleanup Guidance.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceesd Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5D - Surface Soil Results Compared to Restricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SS-128	SS-129	SS-131	SS-135	SS-143
				Sample ID	SS-128-0-0.17-092016	SS-129-0-0.17-092016	SS-131-0-0.17-092016	SS-135-0-0.17-091916	SS-143-0-0.17-091916
				Sample Date	9/20/2016	9/20/2016	9/20/2016	9/19/2016	9/19/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	2177436	2177436	2177436	2176860	2176860
				Start Depth	0	0	0	0	0
				End Depth	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]	CP PCB Guidance[2] Greater 1 ft					
PCBs									
Aroclor 1268	11100-14-4	NC	NC	NC	0.047 U	0.049 U	0.036 U	0.044 U	0.047 U
Aroclor-1016	12674-11-2	NC	NC	1	0.047 U	0.049 U	0.036 U	0.044 U	0.047 U
Aroclor-1221	11104-28-2	NC	NC	1	0.047 U	0.049 U	0.036 U	0.044 U	0.047 U
Aroclor-1232	11141-16-5	NC	NC	1	0.047 U	0.049 U	0.036 U	0.044 U	0.047 U
Aroclor-1242	53469-21-9	NC	NC	1	0.047 U	0.049 U	0.036 U	0.044 U	0.047 U
Aroclor-1248	12672-29-6	NC	NC	1	0.39	0.049 U	0.036 U	0.044 U	0.047 U
Aroclor-1254	11097-69-1	NC	NC	1	1.3	0.28 J	0.036 U	0.044 U	0.047 U
Aroclor-1260	11096-82-5	NC	NC	1	0.49	0.074	0.011 J	0.044 U	0.047 U
PCB-1262	37324-23-5	NC	NC	NC	0.047 U	0.049 U	0.036 U	0.044 U	0.047 U
Total PCBs	1336-36-3	1	1	1	2.1	0.35	0.011 J	0.044 U	0.047 U

Notes:
U - Not detected at the detection limit shown
mg/kg - milligrams per kilogram
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
R - result rejected during validation due to QA/QC excursion
JN - Detection is tenative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[2] - Criteria from the CP-51, Soil Cleanup Guidance.

Exceeds Residential Use SCO listed in Part 375 or CP-51

Concentration exceesd Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5D1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SS-110	SS-113	SS-113	SS-118	SS-123	SS-123	SS-124	SS-125	SS-126
				Sample ID	SS-110-1-2-092116	DUP-005-092116	SS-113-1-2-092116	SS-118-1-2-092116	DUP-007-092016	SS-123-0-0.17-092016	SS-124-1-2-092216	SS-125-1-2-092216	SS-126-0-0.17-092016
				Sample Date	9/21/2016	9/21/2016	9/21/2016	9/21/2016	9/20/2016	9/20/2016	9/22/2016	9/22/2016	9/20/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	2177433	2177433	2177433	2177433	2177436	2177436	2177432	2177432	2177436
				Start Depth	1	1	1	1	0	0	1	1	0
				End Depth	2	2	2	2	0.17	0.17	2	2	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]	CP PCB Guidance[2] Greater 1 ft									
PCBs													
Aroclor 1268	11100-14-4	NC	NC	NC	0.036 U	0.037 U	0.037 U	0.035 U	0.048 U	0.049 U	0.055	0.036 U	0.27 U
Aroclor-1016	12674-11-2	NC	NC	1	0.036 U	0.037 U	0.037 U	0.035 U	0.048 U	0.049 U	0.036 U	0.036 U	0.27 U
Aroclor-1221	11104-28-2	NC	NC	1	0.036 U	0.037 U	0.037 U	0.035 U	0.048 U	0.049 U	0.036 U	0.036 U	0.27 U
Aroclor-1232	11141-16-5	NC	NC	1	0.036 U	0.037 U	0.037 U	0.035 U	0.048 U	0.049 U	0.036 U	0.036 U	0.27 U
Aroclor-1242	53469-21-9	NC	NC	1	0.036 U	0.037 U	0.037 U	0.035 U	0.048 U	0.049 U	0.036 U	0.036 U	0.27 U
Aroclor-1248	12672-29-6	NC	NC	1	0.036 U	0.037 U	0.037 U	0.035 U	0.048 U	0.049 U	0.036 U	0.036 U	0.82 J
Aroclor-1254	11097-69-1	NC	NC	1	0.036 U	0.037 U	0.037 U	0.035 U	0.048 U	0.04 J	0.11 J	0.036 U	2.6
Aroclor-1260	11096-82-5	NC	NC	1	0.036 U	0.037 U	0.037 U	0.035 U	0.018 J	0.023 J	0.12	0.034 J	1.3
PCB-1262	37324-23-5	NC	NC	NC	0.036 U	0.037 U	0.037 U	0.035 U	0.048 U	0.049 U	0.036 U	0.036 U	0.27 U
Total PCBs	1336-36-3	1	1	1	0.036 U	0.037 U	0.037 U	0.035 U	0.018 J	0.063	0.29	0.034 J	4.7

Notes:
U - Not detected at the detection limit shown
mg/kg - milligrams per kilogram
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
R - result rejected during validation due to QA/QC excursion
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[2] - Criteria from the CP-51, Soil Cleanup Guidance.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5D1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SS-127	SS-128	SS-129	SS-131	SS-132	SS-135	SS-138	SS-143	SS-145
				Sample ID	SS-127-0-0.17-092016	SS-128-0-0.17-092016	SS-129-0-0.17-092016	SS-131-0-0.17-092016	SS-132-1-1.5-092216	SS-135-0-0.17-091916	SS-138-0.5-1-092016	SS-143-0-0.17-091916	SS-145-0.5-1.5-092116
				Sample Date	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/22/2016	9/19/2016	9/20/2016	9/19/2016	9/21/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	2177436	2177436	2177436	2177436	2177432	2176860	2177433	2176860	2177433
				Start Depth	0	0	0	0	1	0	0.5	0	0.5
				End Depth	0.17	0.17	0.17	0.17	1.5	0.17	1	0.17	1.5
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]	CP PCB Guidance[2] Greater 1 ft									
PCBs													
Aroclor 1268	11100-14-4	NC	NC	NC	0.05 U	0.047 U	0.049 U	0.036 U	0.034 U	0.044 U	0.034 U	0.047 U	0.039 U
Aroclor-1016	12674-11-2	NC	NC	1	0.05 U	0.047 U	0.049 U	0.036 U	0.034 U	0.044 U	0.034 U	0.047 U	0.039 U
Aroclor-1221	11104-28-2	NC	NC	1	0.05 U	0.047 U	0.049 U	0.036 U	0.034 U	0.044 U	0.034 U	0.047 U	0.039 U
Aroclor-1232	11141-16-5	NC	NC	1	0.05 U	0.047 U	0.049 U	0.036 U	0.034 U	0.044 U	0.034 U	0.047 U	0.039 U
Aroclor-1242	53469-21-9	NC	NC	1	0.05 U	0.047 U	0.049 U	0.036 U	0.034 U	0.044 U	0.034 U	0.047 U	0.039 U
Aroclor-1248	12672-29-6	NC	NC	1	0.05 U	0.39	0.049 U	0.036 U	0.034 U	0.044 U	0.034 U	0.047 U	0.039 U
Aroclor-1254	11097-69-1	NC	NC	1	0.21	1.3	0.28 J	0.036 U	0.034 U	0.044 U	0.034 U	0.047 U	0.039 U
Aroclor-1260	11096-82-5	NC	NC	1	0.088	0.49	0.074	0.011 J	0.013 J	0.044 U	0.034 U	0.047 U	0.039 U
PCB-1262	37324-23-5	NC	NC	NC	0.05 U	0.047 U	0.049 U	0.036 U	0.034 U	0.044 U	0.034 U	0.047 U	0.039 U
Total PCBs	1336-36-3	1	1	1	0.29	2.1	0.35	0.011 J	0.013 J	0.044 U	0.034 U	0.047 U	0.039 U

Notes:
U - Not detected at the detection limit shown
mg/kg - milligrams per kilogram
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
R - result rejected during validation due to QA/QC excursion
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[2] - Criteria from the CP-51, Soil Cleanup Guidance.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5E - Surface Soil Results Compared to Restricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SS-101	SS-103	SS-105	SS-106	SS-108	SS-109	SS-111	SS-112	SS-114
				Sample ID	SS-101-0-0.17-092016	SS-103-0-0.17-092016	SS-105-0-0.17-091916	SS-106-0-0.17-091916	SS-108-0-0.17-091916	SS-109-0-0.17-091916	SS-111-0-0.17-091916	SS-112-0-0.17-091916	SS-114-0-0.17-092016
				Sample Date	9/20/2016	9/20/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/20/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	R1609909	R1609909	R1609864	R1609864	R1609864	R1609864	R1609864	R1609864	R1609909
				Start Depth	0	0	0	0	0	0	0	0	0
				End Depth	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]										
Inorganics													
Aluminum	7429-90-5	NC	NC	3,530 J	6,230 J	5,430	7,290	5,080	7,660	12,700	5,890	2,970 J
Antimony	7440-36-0	NC	NC	7.4 U	7.3 U	1.7 J	0.353 J	8 U	0.873 J	1.4 J	26.3	6.9 J
Arsenic	7440-38-2	16	16	2.3	5.9	7.8	7.7	3.7	9.1	19	21.3	16.9
Barium	7440-39-3	350	400	31.3 J	110 J	491	68.2	39.8	94.9	90.1	466	99.4 J
Beryllium	7440-41-7	14	72	0.172 J	0.315 J	0.461 J	0.441 U	0.399 U	0.452	0.809	0.486	0.414
Cadmium	7440-43-9	2.5	4.3	0.185 J	0.763	2.3	0.734	0.666 U	0.753 U	1.2	2.8	5
Calcium	7440-70-2	NC	NC	2,820	3,580	12,900	18,100	16,500	13,000	21,500	18,000	8,460
Chromium	7440-47-3	22*	110*	5.9 J	10.2 J	28.7	12.6	8.3	15.7	34.6	29.9	11.8 J
Cobalt	7440-48-4	30[CP]	NC	2.8 J	4.3 J	7 J	5.4 J	4.1 J	6.1 J	7.5 J	8.8	8.7
Copper	7440-50-8	270	270	9.3 J	21.3 J	3,980	33	22.1	29.7	58.6	2,410	78.9 J
Cyanide	57-12-5	27	27	0.16 J	0.23 J	1.01	0.86	0.31	0.72	1.09	0.6	0.57 J
Iron	7439-89-6	2,000[CP]	NC	*7,670 J*	*13,200 J*	*14,200*	*14,500*	*11,300*	*21,400*	*21,400*	*34,900*	*28,700 J*
Lead	7439-92-1	400	400	51.8	204	652	177	68.9	82.2	148	2,640	265
Magnesium	7439-95-4	NC	NC	1,070	1,410	2,100	5,420	5,380	4,380	11,100	8,210	1,570
Manganese	7439-96-5	2,000	2,000	228	311	285	399	305	657	322	340	170
Mercury	7439-97-6	0.81	0.81	0.083 N	0.387 N	0.352 J	0.405 J	0.2 J	0.162 J	0.263 J	0.633 J	0.128 N
Nickel	7440-02-0	140	310	5.3	8.2	6.1 U	11	7.4	12.2	18.7	10.1	20.6
Potassium	7440-09-7	NC	NC	681	881	979	1,520	1,210	1,230	2,520	1,000	576
Selenium	7782-49-2	36	180	1 J	1.1 J	3	2.4	1.7	3	3.2	1.2 U	1.5
Silver	7440-22-4	36	180	0.111 J	0.206 J	1.3 J	0.25 J	0.107 J	0.346 J	0.953 J	1.6	0.954 J
Sodium	7440-23-5	NC	NC	123 U	121 U	154 U	147 U	133 U	151 U	187	318	125 U
Thallium	7440-28-0	NC	NC	1.2 U	1.2 U	1.5 U	1.5 U	1.3 U	1.5 U	1.8 U	1.2 U	1.3 U
Vanadium	7440-62-2	100[CP]	NC	11.2	17	19.5	19.4	15.7	22.1	37.6	23.7	15.7
Zinc	7440-66-6	2,200	10,000	59.9 J	353 J	1,130	178	107	110	173	1,770	695 J

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
* Chromium SCO is Hexavalent Chromium as conservative value. Results presented are Total Chromium.
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5E - Surface Soil Results Compared to Restricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SS-115	SS-116	SS-121	SS-123	SS-129	SS-131	SS-134	SS-135	SS-136
				Sample ID	SS-115-0-0.17-092016	SS-116-0-0.17-092016	SS-121-0-0.17-092016	SS-123-0-0.17-092016	SS-129-0-0.17-092016	SS-131-0-0.17-092016	SS-134-0-0.17-091916	SS-135-0-0.17-091916	SS-136-0-0.17-091916
				Sample Date	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/19/2016	9/19/2016	9/19/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	R1609909	R1609909	R1609909	R1609909	R1609909	R1609909	R1609864	R1609864	R1609864
				Start Depth	0	0	0	0	0	0	0	0	0
				End Depth	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]										
Inorganics													
Aluminum	7429-90-5	NC	NC	9,970 J	9,050 J	4,050 J	6,870 J	6,430 J	4,540 J	6,610	1,660	6,880	
Antimony	7440-36-0	NC	NC	8.8 U	1.2 J	7.9 U	1.9 J	8.6 U	6.5 U	7.6 U	1.5 J	7.7 U	
Arsenic	7440-38-2	16	16	37.2	21.4	9.5	20.9	5.7	3.6	4.9	37.9	7.1	
Barium	7440-39-3	350	400	138 J	201 J	38.2 J	95.2 J	3,690 J	58.3 J	47	98.6	48.5	
Beryllium	7440-41-7	14	72	0.788	0.756	0.341 J	0.657	0.316 J	0.293 J	0.379 U	0.388 U	0.384	
Cadmium	7440-43-9	2.5	4.3	1.5	3.4	0.563 J	1.1	2.3	0.325 J	0.632 U	0.646 U	0.64 U	
Calcium	7440-70-2	NC	NC	11,400	19,800	58,700	14,200	66,900	145,000	12,300	3,780	3,080	
Chromium	7440-47-3	22*	110*	27.4 J	28.2 J	9.6 J	17.8 J	14.6 J	8.2 J	9.1	7.4	10.1	
Cobalt	7440-48-4	30[CP]	NC	7.7	6.6 J	4.5 J	9.1	7.3	3.1 J	5.5 J	3.9 J	7.7	
Copper	7440-50-8	270	270	34.3 J	59.8 J	20.5 J	75.3 J	31.1 J	21.2 J	18.1	72.8	17.2	
Cyanide	57-12-5	27	27	0.48 J	1.37 J	0.24 J	0.49 J	0.06 J	0.04 J	0.36	0.55	0.22	
Iron	7439-89-6	2,000[CP]	NC	*27,200 J*	*19,200 J*	*13,500 J*	*31,500 J*	*22,600 J*	*13,900 J*	*13,000*	*16,500*	*16,600*	
Lead	7439-92-1	400	400	128	264	96.8	232	1,440	57.4	24.7	109	27	
Magnesium	7439-95-4	NC	NC	8,060	10,900	30,600	5,750	32,600	20,100	7,090	540	2,510	
Manganese	7439-96-5	2,000	2,000	287	228	249	335	417	251	425	183	341	
Mercury	7439-97-6	0.81	0.81	0.333 N	0.605 N	0.117 N	0.735 N	1.1 N	0.041 N	0.135 J	0.706 J	0.048 J	
Nickel	7440-02-0	140	310	16.2	16.5	9.3	20.8	10.9	8.4	9.8	6.1	16	
Potassium	7440-09-7	NC	NC	2,210	2,770	1,230	1,180	935	755	1,170	405	1,480	
Selenium	7782-49-2	36	180	1.7	2.6	1.2 J	1.6	0.651 J	1.1 U	1.6	2.1	1.3	
Silver	7440-22-4	36	180	0.321 J	0.616 J	0.419 J	0.719 J	0.603 J	0.087 J	0.089 J	0.336 J	0.218 J	
Sodium	7440-23-5	NC	NC	216	184	131 U	153 U	144 U	292	126 U	129 U	128 U	
Thallium	7440-28-0	NC	NC	1.5 U	1.8 U	1.3 U	1.5 U	1.4 U	1.9	1.3 U	1.3 U	1.3 U	
Vanadium	7440-62-2	100[CP]	NC	35	29.3	11.9	21.1	15.1	16.8	15	9.8	14.6	
Zinc	7440-66-6	2,200	10,000	363 J	537 J	118 J	279 J	2,470 J	126 J	79.3	126	62.5	

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
* Chromium SCO is Hexavalent Chromium as conservative value. Results presented are Total Chromium.
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5E - Surface Soil Results Compared to Restricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SS-139	SS-140	SS-148	SS-149	SS-150	SS-150	SS-152	SS-153
				Sample ID	SS-139-0-0.17-091916	SS-140-0-0.17-091916	SS-148-0-0.17-092016	SS-149-0-0.17-091916	DUP-006-091916	SS-150-0-0.17-091916	SS-152-0-0.17-091916	SS-153-0-0.17-091916
				Sample Date	9/19/2016	9/19/2016	9/20/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	R1609864	R1609864	R1609909	R1609864	R1609864	R1609864	R1609864	R1609864
				Start Depth	0	0	0	0	0	0	0	0
				End Depth	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]									
Inorganics												
Aluminum	7429-90-5	NC	NC	6,790	14,000	6,620 J	4,420	6,220	6,540	8,240	8,180
Antimony	7440-36-0	NC	NC	8.1 U	0.754 J	1.8 J	1.1 J	7.7 U	7.4 U	6.8 U	7.5 U
Arsenic	7440-38-2	16	16	12.8	23.8	65.4	42.5	7.3	7.7	6.7	7.1
Barium	7440-39-3	350	400	52	55.9	305 J	67.7	46.5	47.2	48.6	68.5
Beryllium	7440-41-7	14	72	0.404 U	0.769	0.964	0.511	0.386 U	0.369 U	0.455	0.447
Cadmium	7440-43-9	2.5	4.3	0.675 U	0.905	2.5	0.623 U	0.643 U	0.616 U	0.569 U	0.621 U
Calcium	7440-70-2	NC	NC	6,390	15,200	18,100	14,000	4,760	4,620	51,000	2,820
Chromium	7440-47-3	22*	110*	10.3	37.2	17.6 J	9.9	9.7	10	10.8	12.2
Cobalt	7440-48-4	30[CP]	NC	7.9	5.3 J	8.5	6.9	7.6	7.9	6.5	10.7
Copper	7440-50-8	270	270	23.2	79.5	55.1 J	84	22.1	19.7	15.5	16.6
Cyanide	57-12-5	27	27	0.38	0.69	0.96 J	0.32	0.32	0.25	0.12	0.13
Iron	7439-89-6	2,000[CP]	NC	*17,000*	*14,600*	*26,300 J*	*17,800*	*15,200*	*16,500*	*15,600*	*27,400*
Lead	7439-92-1	400	400	33.7	85.4	176	90.6	35	36	117	23.8
Magnesium	7439-95-4	NC	NC	2,880	13,800	6,600	4,360	2,700	2,750	19,100	2,670
Manganese	7439-96-5	2,000	2,000	346	188	308	249	322	338	324	435
Mercury	7439-97-6	0.81	0.81	0.063	0.204 J	0.857	0.298 J	0.081	0.08 J	0.058 J	0.047 J
Nickel	7440-02-0	140	310	15.9	13.5	27.1	13.9	15.5	16.2	10.8	17.7
Potassium	7440-09-7	NC	NC	1,630	2,700	1,490	1,130	1,290	1,320	1,540	1,220
Selenium	7782-49-2	36	180	1.6	2.6	3.1	2.2	1.3 U	1.7	1.2 U	1.2 U
Silver	7440-22-4	36	180	0.162 J	0.483 J	0.597 J	0.361 J	0.283 J	0.283 J	0.057 J	0.099 J
Sodium	7440-23-5	NC	NC	135 U	258	136 U	125 U	129 U	123 U	117 U	124 U
Thallium	7440-28-0	NC	NC	1.4 U	1.5 U	1.4 U	1.3 U	1.3 U	1.2 U	1.1 U	1.2 U
Vanadium	7440-62-2	100[CP]	NC	14.6	42.5	25.5	17.3	14.4	15.1	18.8	17.2
Zinc	7440-66-6	2,200	10,000	99.8	109	569 J	80.5	90.3	89.6	42.4	70.6

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
* Chromium SCO is Hexavalent Chromium as conservative value. Results presented are Total Chromium.
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5E1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-101	SS-103	SS-105	SS-106	SS-108	SS-109	SS-110	SS-111	SS-112	SS-113
			Sample ID	SS-101-0-0.17-092016	SS-103-0-0.17-092016	SS-105-0-0.17-091916	SS-106-0-0.17-091916	SS-108-0-0.17-091916	SS-109-0-0.17-091916	SS-110-1-2-092116	SS-111-0-0.17-091916	SS-112-0-0.17-091916	DUP-005-092116
			Sample Date	9/20/2016	9/20/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/21/2016	9/19/2016	9/19/2016	9/21/2016
			Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			Lab SDG	R1609909	R1609909	R1609864	R1609864	R1609864	R1609864	R1609954	R1609864	R1609864	R1609954
			Start Depth	0	0	0	0	0	0	1	0	0	1
			End Depth	0.17	0.17	0.17	0.17	0.17	0.17	2	0.17	0.17	2
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]										
Inorganics													
Aluminum	7429-90-5	NC	NC	3,530 J	6,230 J	5,430	7,290	5,080	7,660	2,820	12,700	5,890	7,690
Antimony	7440-36-0	NC	NC	7.4 U	7.3 U	1.7 J	0.353 J	8 U	0.873 J	1.9 J	1.4 J	26.3	6.7 UJ
Arsenic	7440-38-2	16	16	2.3	5.9	7.8	7.7	3.7	9.1	16.9	19	21.3	26.5
Barium	7440-39-3	350	400	31.3 J	110 J	491	68.2	39.8	94.9	111	90.1	466	103
Beryllium	7440-41-7	14	72	0.172 J	0.315 J	0.461 J	0.441 U	0.399 U	0.452	0.547	0.809	0.486	0.533
Cadmium	7440-43-9	2.5	4.3	0.185 J	0.763	2.3	0.734	0.666 U	0.753 U	0.186 J	1.2	2.8	0.388 J
Calcium	7440-70-2	NC	NC	2,820	3,580	12,900	18,100	16,500	13,000	6,170	21,500	18,000	19,100
Chromium	7440-47-3	22*	110*	5.9 J	10.2 J	28.7	12.6	8.3	15.7	7.4	34.6	29.9	12.8
Cobalt	7440-48-4	30[CP]	NC	2.8 J	4.3 J	7 J	5.4 J	4.1 J	6.1 J	6.8	7.5 J	8.8	12.2
Copper	7440-50-8	270	270	9.3 J	21.3 J	3,980	33	22.1	29.7	43.8	58.6	2,410	26.4
Cyanide	57-12-5	27	27	0.16 J	0.23 J	1.01	0.86	0.31	0.72	0.26	1.09	0.6	0.13
Iron	7439-89-6	2,000[CP]	NC	*7,670 J*	*13,200 J*	*14,200*	*14,500*	*11,300*	*21,400*	*28,500*	*21,400*	*34,900*	*35,100*
Lead	7439-92-1	400	400	51.8	204	652	177	68.9	82.2	82.7	148	2,640	47.7
Magnesium	7439-95-4	NC	NC	1,070	1,410	2,100	5,420	5,380	4,380	2,970	11,100	8,210	11,300
Manganese	7439-96-5	2,000	2,000	228	311	285	399	305	657	155	322	340	448
Mercury	7439-97-6	0.81	0.81	0.083 N	0.387 N	0.352 J	0.405 J	0.2 J	0.162 J	0.19	0.263 J	0.633 J	0.267
Nickel	7440-02-0	140	310	5.3	8.2	6.1 U	11	7.4	12.2	13.9	18.7	10.1	24
Potassium	7440-09-7	NC	NC	681	881	979	1,520	1,210	1,230	557	2,520	1,000	1,190
Selenium	7782-49-2	36	180	1 J	1.1 J	3	2.4	1.7	3	1.1 J	3.2	1.2 U	2.4
Silver	7440-22-4	36	180	0.111 J	0.206 J	1.3 J	0.25 J	0.107 J	0.346 J	0.077 J	0.953 J	1.6	0.122 J
Sodium	7440-23-5	NC	NC	123 U	121 U	154 U	147 U	133 U	151 U	109 U	187	318	142
Thallium	7440-28-0	NC	NC	1.2 U	1.2 U	1.5 U	1.5 U	1.3 U	1.5 U	1.1 U	1.8 U	1.2 U	1.1 U
Vanadium	7440-62-2	100[CP]	NC	11.2	17	19.5	19.4	15.7	22.1	13.7	37.6	23.7	19
Zinc	7440-66-6	2,200	10,000	59.9 J	353 J	1,130	178	107	110	37.2	173	1,770	120

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
STARTand END DEPTH - feet below ground surface
* Chromium SCO is Hexavalent Chromium as conservative value. Results presented are Total Chromium.
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tenative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5E1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-113	SS-114	SS-115	SS-116	SS-117	SS-118	SS-119	SS-120	SS-121	SS-122
			Sample ID	SS-113-1-2-092116	SS-114-0-0.17-092016	SS-115-0-0.17-092016	SS-116-0-0.17-092016	SS-117-1-1.5-092116	SS-118-1-2-092116	SS-119-0-0.5-092116	SS-120-0.5-1-092116	SS-121-0-0.17-092016	SS-122-1.5-2-092116
			Sample Date	9/21/2016	9/20/2016	9/20/2016	9/20/2016	9/21/2016	9/21/2016	9/21/2016	9/21/2016	9/20/2016	9/21/2016
			Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			Lab SDG	R1609954	R1609909	R1609909	R1609909	R1609954	R1609954	R1609954	R1609954	R1609909	R1609954
			Start Depth	1	0	0	0	1	1	0	0.5	0	1.5
			End Depth	2	0.17	0.17	0.17	1.5	2	0.5	1	0.17	2
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]										
Inorganics													
Aluminum	7429-90-5	NC	NC	6,900	2,970 J	9,970 J	9,050 J	9,700	7,350	3,960	9,480	4,050 J	5,740
Antimony	7440-36-0	NC	NC	6.9 UJ	6.9 J	8.8 U	1.2 J	6.7 UJ	6.4 UJ	7.2 UJ	6.7 UJ	7.9 U	7.2 UJ
Arsenic	7440-38-2	16	16	24.5	16.9	37.2	21.4	28.8	8.4	3.9	18.2	9.5	40.4
Barium	7440-39-3	350	400	102	99.4 J	138 J	201 J	99	49.2	51.3	76.2	38.2 J	63.7
Beryllium	7440-41-7	14	72	0.485	0.414	0.788	0.756	0.775	0.47	0.226 J	0.611	0.341 J	0.623
Cadmium	7440-43-9	2.5	4.3	0.439 J	5	1.5	3.4	0.764	0.267 J	0.465 J	0.567	0.563 J	0.359 J
Calcium	7440-70-2	NC	NC	16,700	8,460	11,400	19,800	13,700	58,300	29,500	19,400	58,700	5,960
Chromium	7440-47-3	22*	110*	11.5	11.8 J	27.4 J	28.2 J	24.5	12.2	7.4	18	9.6 J	11.2
Cobalt	7440-48-4	30[CP]	NC	10.8	8.7	7.7	6.6 J	9.3	8.1	4 J	9.2	4.5 J	8.3
Copper	7440-50-8	270	270	25.4	78.9 J	34.3 J	59.8 J	27.4	22.3	43.3	33.4	20.5 J	28.9
Cyanide	57-12-5	27	27	0.26	0.57 J	0.48 J	1.37 J	0.25	0.1	0.45	0.16	0.24 J	0.11 J
Iron	7439-89-6	2,000[CP]	NC	*34,900*	*28,700 J*	*27,200 J*	*19,200 J*	*21,100*	*19,600*	*11,500*	*29,200*	*13,500 J*	*27,700*
Lead	7439-92-1	400	400	45.9	265	128	264	85.4	31.7	189	147	96.8	69.4
Magnesium	7439-95-4	NC	NC	9,710	1,570	8,060	10,900	11,100	28,500	8,770	10,600	30,600	3,810
Manganese	7439-96-5	2,000	2,000	436	170	287	228	211	422	292	275	249	200
Mercury	7439-97-6	0.81	0.81	0.314	0.128 N	0.333 N	0.605 N	0.146	0.107	0.181	0.668	0.117 N	0.291
Nickel	7440-02-0	140	310	21.3	20.6	16.2	16.5	20.6	16.2	8.5	20.1	9.3	16.1
Potassium	7440-09-7	NC	NC	1,100	576	2,210	2,770	1,590	1420	986	1,460	1,230	881
Selenium	7782-49-2	36	180	1.9	1.5	1.7	2.6	0.989 J	1.1 U	1.2 U	1.4	1.2 J	2.3
Silver	7440-22-4	36	180	0.104 J	0.954 J	0.321 J	0.616 J	0.079 J	0.139 J	0.238 J	0.322 J	0.419 J	0.096 J
Sodium	7440-23-5	NC	NC	129	125 U	216	184	151	120	119 U	140	131 U	120 U
Thallium	7440-28-0	NC	NC	1.2 U	1.3 U	1.5 U	1.8 U	1.1 U	1.1 U	1.2 U	11.1 U	1.3 U	1.2 U
Vanadium	7440-62-2	100[CP]	NC	17.1	15.7	35	29.3	29.9	16.6	15.3	24.2	11.9	15.9
Zinc	7440-66-6	2,200	10,000	126	695 J	363 J	537 J	165	171	118	127	118 J	113

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
STARTand END DEPTH - feet below ground surface
* Chromium SCO is Hexavalent Chromium as conservative value. Results presented are Total Chromium.
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tenative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5E1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]	SS-123 SS-123-0-0.17-092016 9/20/2016 mg/kg R1609909 0 0.17	SS-124 SS-124-1-2-092216 9/22/2016 mg/kg R1610012 1 2	SS-125 SS-125-1-2-092216 9/22/2016 mg/kg R1610012 1 2	SS-129 SS-129-0-0.17-092016 9/20/2016 mg/kg R1609909 0 0.17	SS-130 SS-130-0.5-1.5-092216 9/22/2016 mg/kg R1610012 0.5 1.5	SS-131 SS-131-0-0.17-092016 9/20/2016 mg/kg R1609909 0 0.17	SS-132 SS-132-1-1.5-092216 9/22/2016 mg/kg R1610012 1 1.5	SS-133 SS-133-1-2-092016 9/20/2016 mg/kg R1609909 1 2	SS-134 SS-134-0-0.17-091916 9/19/2016 mg/kg R1609864 0 0.17	SS-135 SS-135-0-0.17-091916 9/19/2016 mg/kg R1609864 0 0.17
Inorganics													
Aluminum	7429-90-5	NC	NC	6,870 J	3,830	3,790	6,430 J	6,620	4,540 J	4,860	3,880 J	6,610	1,660
Antimony	7440-36-0	NC	NC	1.9 J	4.5 J	0.69 J	8.6 U	6.9 U	6.5 U	6.4 U	14.4	7.6 U	1.5 J
Arsenic	7440-38-2	16	16	20.9	20.9	18.2	5.7	20.6	3.6	5.5	30.5	4.9	37.9
Barium	7440-39-3	350	400	95.2 J	97.5	98.7	3,690 J	123	58.3 J	49.8	119 J	47	98.6
Beryllium	7440-41-7	14	72	0.657	0.621	0.654	0.316 J	0.949	0.293 J	0.308 J	0.623	0.379 U	0.388 U
Cadmium	7440-43-9	2.5	4.3	1.1	2.5	1.4	2.3	0.625	0.325 J	0.531 U	0.634	0.632 U	0.646 U
Calcium	7440-70-2	NC	NC	14,200	11,600 J	14,000 J	66,900	26,900 J	145,000	103,000 J	12,700	12,300	3,780
Chromium	7440-47-3	22*	110*	17.8 J	26.3 J	28.5 J	14.6 J	13.1 J	8.2 J	7.6 J	11.1 J	9.1	7.4
Cobalt	7440-48-4	30[CP]	NC	9.1	11	10	7.3	11.3	3.1 J	4.2 J	7.9	5.5 J	3.9 J
Copper	7440-50-8	270	270	75.3 J	831	73.5	31.1 J	41.7	21.2 J	22.8	175 J	18.1	72.8
Cyanide	57-12-5	27	27	0.49 J	0.11 U	0.23	0.06 J	0.31	0.04 J	0.032 J	0.36 J	0.36	0.55
Iron	7439-89-6	2,000[CP]	NC	*31,500 J*	*38,100*	*36,300*	*22,600 J*	*22,800*	*13,900 J*	*11,000*	*26,400 J*	*13,000*	*16,500*
Lead	7439-92-1	400	400	232	424	105	1,440	83	57.4	72.4	1,450	24.7	109
Magnesium	7439-95-4	NC	NC	5,750	5,510 J	6,820 J	32,600	14,700 J	20,100	13,400 J	3,350	7,090	540
Manganese	7439-96-5	2,000	2,000	335	558	747	417	157	251	334	213	425	183
Mercury	7439-97-6	0.81	0.81	0.735 N	0.286	0.263	1.1 N	0.338	0.041 N	0.279	6.9 N	0.135 J	0.706 J
Nickel	7440-02-0	140	310	20.8	51	25	10.9	27	8.4	9.6	16.5	9.8	6.1
Potassium	7440-09-7	NC	NC	1,180	514	653	935	683	755	981	636	1,170	405
Selenium	7782-49-2	36	180	1.6	2	11.9 U	0.651 J	11.6 U	1.1 U	1.1 U	0.78 J	1.6	2.1
Silver	7440-22-4	36	180	0.719 J	0.686 J	0.345 J	0.603 J	0.069 J	0.087 J	0.064 J	0.436 J	0.089 J	0.336 J
Sodium	7440-23-5	NC	NC	153 U	109 U	140	144 U	116 U	292	183	155	126 U	129 U
Thallium	7440-28-0	NC	NC	1.5 U	1.1 U	1.2 U	1.4 U	1.2 U	1.9	0.648 J	1 U	1.3 U	1.3 U
Vanadium	7440-62-2	100[CP]	NC	21.1	16.7	15.9	15.1	19	16.8	19.8	20	15	9.8
Zinc	7440-66-6	2,200	10,000	279 J	940	309	2,470 J	349	126 J	77.6	231 J	79.3	126

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
STARTand END DEPTH - feet below ground surface
* Chromium SCO is Hexavalent Chromium as conservative value. Results presented are Total Chromium.
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
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JN - Detection is tenative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5E1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]	SS-136 SS-136-0-0.17-091916 9/19/2016 mg/kg R1609864 0 0.17	SS-137 SS-137-1.5-2-092016 9/20/2016 mg/kg R1609909 1.5 2	SS-138 SS-138-0.5-1-092016 9/20/2016 mg/kg R1609954 0.5 1	SS-139 SS-139-0-0.17-091916 9/19/2016 mg/kg R1609864 0 0.17	SS-140 SS-140-0-0.17-091916 9/19/2016 mg/kg R1609864 0 0.17	SS-141[BB] SS-141-1-2-092116 9/21/2016 mg/kg R1609954 1 2	SS-142 SS-142-0.5-1.5-092116 9/21/2016 mg/kg R1609954 0.5 1.5	SS-144 SS-144-0.5-1.5-092116 9/21/2016 mg/kg R1609954 0.5 1.5	SS-145 SS-145-0.5-1.5-092116 9/21/2016 mg/kg R1609954 0.5 1.5	SS-147 SS-147-0.5-1.5-092116 9/21/2016 mg/kg R1609954 0.5 1.5
Inorganics													
Aluminum	7429-90-5	NC	NC	6,880	5,800 J	6,730 J	6,790	14,000	22,300	5,230	7,050	2,710	9,040
Antimony	7440-36-0	NC	NC	7.7 U	6.7 U	6.4 UJ	8.1 U	0.754 J	8.1 UJ	2.3 J	6.5 UJ	0.486 J	6.8 UJ
Arsenic	7440-38-2	16	16	7.1	5	7.4 J	12.8	23.8	29.3	14.3	7.1	48.6	11.3
Barium	7440-39-3	350	400	48.5	42.7 J	46.9 J	52	55.9	44.3	257	52.9	49.5	86.6
Beryllium	7440-41-7	14	72	0.384	0.325 J	0.375 J	0.404 U	0.769	0.886	0.676	0.387	0.474	0.488
Cadmium	7440-43-9	2.5	4.3	0.64 U	0.101 J	0.182 J	0.675 U	0.905	1.2	1.5	0.237 J	0.095 J	0.386 J
Calcium	7440-70-2	NC	NC	3,080	12,300	2,410 J	6,390	15,200	48,900	9,180	1,900	3,220	4,470
Chromium	7440-47-3	22*	110*	10.1	9.2 J	10.3 J	10.3	37.2	54.8	27.2	10.6	6.8	17.3
Cobalt	7440-48-4	30[CP]	NC	7.7	6.7	8.4 J	7.9	5.3 J	3.4 J	7.7	8.2	6.6	6.7
Copper	7440-50-8	270	270	17.2	13.1 J	14 J	23.2	79.5	11.8	291	15.3	84.9	24
Cyanide	57-12-5	27	27	0.22	0.03 J	0.043 J	0.38	0.69	0.34	1.31	0.07 J	0.58	0.17
Iron	7439-89-6	2,000[CP]	NC	*16,600*	*15,100 J*	*17,600 J*	*17,000*	*14,600*	*15,700*	*22,200*	*17,500*	*8,560*	*19,000*
Lead	7439-92-1	400	400	27	13.4	17.8 J	33.7	85.4	43.2	346	22.5	56.4	47.5
Magnesium	7439-95-4	NC	NC	2,510	4,620	2,980 J	2,880	13,800	31,100	2,990	2,580	681	3,750
Manganese	7439-96-5	2,000	2,000	341	224	371 J	346	188	135	205	316	96.1	433
Mercury	7439-97-6	0.81	0.81	0.048 J	0.022 NJ	0.03 J	0.063	0.204 J	0.134	2.9	0.046	0.096	16.4
Nickel	7440-02-0	140	310	16	13.6	17.3 J	15.9	13.5	17.1	15.1	17.1	13.3	14.6
Potassium	7440-09-7	NC	NC	1,480	882	922 J	1,630	2,700	2,740	895	1,010	693	1,420
Selenium	7782-49-2	36	180	1.3	0.71 J	1.1 UJ	1.6	2.6	0.846 J	2	1.1 U	1.7	1.3
Silver	7440-22-4	36	180	0.218 J	1.1 U	1.1 UJ	0.162 J	0.483 J	0.161 J	0.27 J	0.054 J	0.071 J	0.057 J
Sodium	7440-23-5	NC	NC	128 U	112 U	107 UJ	135 U	258	715	137	108 U	118 U	113 U
Thallium	7440-28-0	NC	NC	1.3 U	1.1 U	1.1 UJ	1.4 U	1.5 U	1.3 U	1.1 U	1.1 U	1.2 U	1.1 U
Vanadium	7440-62-2	100[CP]	NC	14.6	13.8	14 J	14.6	42.5	58.7	16.9	14.6	15.9	25
Zinc	7440-66-6	2,200	10,000	62.5	42.9 J	55.5 J	99.8	109	136	487	55.8	25.8	159

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
STARTand END DEPTH - feet below ground surface
* Chromium SCO is Hexavalent Chromium as conservative value. Results presented are Total Chromium.
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tenative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 5E1 - Existing Surface Cover Soil Results Compared to Restricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SS-148	SS-149	SS-150	SS-150	SS-151	SS-152	SS-153
			Sample ID	SS-148-0-0.17-092016	SS-149-0-0.17-091916	DUP-006-091916	SS-150-0-0.17-091916	SS-151-0-0.5-092116	SS-152-0-0.17-091916	SS-153-0-0.17-091916
			Sample Date	9/20/2016	9/19/2016	9/19/2016	9/19/2016	9/21/2016	9/19/2016	9/19/2016
			Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			Lab SDG	R1609909	R1609864	R1609864	R1609864	R1609954	R1609864	R1609864
			Start Depth	0	0	0	0	0	0	0
			End Depth	0.17	0.17	0.17	0.17	0.5	0.17	0.17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]							
Inorganics										
Aluminum	7429-90-5	NC	NC	6,620 J	4,420	6,220	6,540	6,290	8,240	8,180
Antimony	7440-36-0	NC	NC	1.8 J	1.1 J	7.7 U	7.4 U	7.1 UJ	6.8 U	7.5 U
Arsenic	7440-38-2	16	16	65.4	42.5	7.3	7.7	25.9	6.7	7.1
Barium	7440-39-3	350	400	305 J	67.7	46.5	47.2	52.1	48.6	68.5
Beryllium	7440-41-7	14	72	0.964	0.511	0.386 U	0.369 U	0.435	0.455	0.447
Cadmium	7440-43-9	2.5	4.3	2.5	0.623 U	0.643 U	0.616 U	0.341 J	0.569 U	0.621 U
Calcium	7440-70-2	NC	NC	18,100	14,000	4,760	4,620	3,280	51,000	2,820
Chromium	7440-47-3	22*	110*	17.6 J	9.9	9.7	10	11.2	10.8	12.2
Cobalt	7440-48-4	30[CP]	NC	8.5	6.9	7.6	7.9	8	6.5	10.7
Copper	7440-50-8	270	270	55.1 J	84	22.1	19.7	37	15.5	16.6
Cyanide	57-12-5	27	27	0.96 J	0.32	0.32	0.25	0.13	0.12	0.13
Iron	7439-89-6	2,000[CP]	NC	*26,300 J*	*17,800*	*15,200*	*16,500*	*21,200*	*15,600*	*27,400*
Lead	7439-92-1	400	400	176	90.6	35	36	49	117	23.8
Magnesium	7439-95-4	NC	NC	6,600	4,360	2,700	2,750	2,610	19,100	2,670
Manganese	7439-96-5	2,000	2,000	308	249	322	338	286	324	435
Mercury	7439-97-6	0.81	0.81	0.857	0.298 J	0.081	0.08 J	0.217	0.058 J	0.047 J
Nickel	7440-02-0	140	310	27.1	13.9	15.5	16.2	17.2	10.8	17.7
Potassium	7440-09-7	NC	NC	1,490	1,130	1,290	1,320	1,190	1,540	1,220
Selenium	7782-49-2	36	180	3.1	2.2	1.3 U	1.7	0.917 J	1.2 U	1.2 U
Silver	7440-22-4	36	180	0.597 J	0.361 J	0.283 J	0.283 J	0.282 J	0.057 J	0.099 J
Sodium	7440-23-5	NC	NC	136 U	125 U	129 U	123 U	118 U	117 U	124 U
Thallium	7440-28-0	NC	NC	1.4 U	1.3 U	1.3 U	1.2 U	1.2 U	1.1 U	1.2 U
Vanadium	7440-62-2	100[CP]	NC	25.5	17.3	14.4	15.1	16.3	18.8	17.2
Zinc	7440-66-6	2,200	10,000	569 J	80.5	90.3	89.6	77.9	42.4	70.6

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
STARTand END DEPTH - feet below ground surface
* Chromium SCO is Hexavalent Chromium as conservative value. Results presented are Total Chromium.
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tenative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 6A - Surface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-100	SS-101	SS-102	SS-103	SS-104
		Sample ID	SS-100-0-0.17-092016	SS-101-0-0.17-092016	SS-102-0-0.17-092016	SS-103-0-0.17-092016	SS-104-0-0.17-091916
		Sample Date	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/19/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1609909	R1609909	R1609909	R1609909	R1609864
		Start Depth	0	0	0	0	0
		End Depth	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,1,2-Trichloroethane	79-00-5	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,1-Dichloroethane	75-34-3	270	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,1-Dichloroethene	75-35-4	330	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,2,3-Trichlorobenzene	87-61-6	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,2,4-Trichlorobenzene	120-82-1	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,2,4-Trimethylbenzene	95-63-6	3,600	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,2-Dibromo-3-chloropropane	96-12-8	NC	13 U	4.9 UJ	5.1 UJ	6.4 UJ	7.6 UJ
1,2-Dibromoethane	106-93-4	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,2-Dichlorobenzene	95-50-1	1,100	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,2-Dichloroethane	107-06-2	20	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,2-Dichloropropane	78-87-5	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,3,5-Trimethylbenzene	108-67-8	8,400	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,3-Dichlorobenzene	541-73-1	2,400	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,4-Dichlorobenzene	106-46-7	1,800	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,4-Dioxane	123-91-1	100	250 R	98 R	100 R	130 R	150 R
2-Butanone	78-93-3	120	13 UJ	4.9 UJ	5.1 UJ	6.4 UJ	7.6 UJ
2-Hexanone	591-78-6	NC	13 UJ	4.9 UJ	5.1 UJ	6.4 UJ	7.6 UJ
4-Isopropyltoluene	99-87-6	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
4-Methyl-2-Pentanone	108-10-1	NC	13 UJ	4.9 UJ	5.1 UJ	6.4 UJ	7.6 UJ
Acetone	67-64-1	50	130	4.9 U	9.4	6.4 U	14
Benzene	71-43-2	60	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Bromochloromethane	74-97-5	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Bromodichloromethane	75-27-4	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Bromoform	75-25-2	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Bromomethane	74-83-9	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Carbon disulfide	75-15-0	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Carbon Tetrachloride	56-23-5	760	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Chlorobenzene	108-90-7	1,100	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Chloroethane	75-00-3	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Chloroform	67-66-3	370	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Chloromethane	74-87-3	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
cis-1,2-Dichloroethene	156-59-2	250	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Cis-1,3-Dichloropropene	10061-01-5	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Cyclohexane	110-82-7	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Dibromochloromethane	124-48-1	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Dichlorodifluoromethane	75-71-8	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Ethylbenzene	100-41-4	1,000	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Isopropylbenzene	98-82-8	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
M,P-XYLENE	XYLMP	NC	25 U	9.8 U	10 U	13 U	15 U
Methyl Acetate	79-20-9	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Methylcyclohexane	108-87-2	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Methylene Chloride	75-09-2	50	13 U	4.9 U	5.1 U	0.75 J	7.6 U
MTBE	1634-04-4	930	5.8 J	4.9 U	5.1 U	6.4 U	7.6 U
n-Butylbenzene	104-51-8	12,000	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
n-Propylbenzene	103-65-1	3,900	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
o-Xylene	95-47-6	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
sec-Butylbenzene	135-98-8	11,000	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
Styrene	100-42-5	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Tert-Butylbenzene	98-06-6	5,900	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
Tetrachloroethene	127-18-4	1,300	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Toluene	108-88-3	700	13 U	4.9 U	5.1 U	6.4 U	7.6 U
trans-1,2-Dichloroethene	156-60-5	190	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Trans-1,3-Dichloropropene	10061-02-6	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Trichloroethene	79-01-6	470	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Trichlorofluoromethane	75-69-4	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Vinyl Chloride	75-01-4	20	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Total Xylenes	NA	260	U	U	U	U	U
VOC TIC TOTALS	NA	NC	191	119.7	52.2	0	79

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
Exceeds Unrestricted SCO listed in Part 375.

Table 6A - Surface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-105	SS-106	SS-107	SS-108	SS-111
		Sample ID	SS-105-0-0.17-091916	SS-106-0-0.17-091916	SS-107-0-0.17-091916	SS-108-0-0.17-091916	SS-111-0-0.17-091916
		Sample Date	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1609864	R1609864	R1609864	R1609864	R1609864
		Start Depth	0	0	0	0	0
		End Depth	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	8.4 U	13 U	4.8 U	3.1 U	7.5 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	8.4 UJ	13 U	4.8 U	3.1 U	7.5 U
1,1,2-Trichloroethane	79-00-5	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
1,1-Dichloroethane	75-34-3	270	8.4 U	13 U	4.8 U	3.1 U	7.5 U
1,1-Dichloroethene	75-35-4	330	8.4 U	13 U	4.8 U	3.1 U	7.5 U
1,2,3-Trichlorobenzene	87-61-6	NC	8.4 UJ	13 U	4.8 U	3.1 U	7.5 U
1,2,4-Trichlorobenzene	120-82-1	NC	8.4 UJ	13 U	4.8 U	3.1 U	7.5 U
1,2,4-Trimethylbenzene	95-63-6	3,600	8.4 UJ	13 U	4.8 U	3.1 U	7.5 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	8.4 UJ	13 U	4.8 U	3.1 U	7.5 U
1,2-Dibromoethane	106-93-4	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
1,2-Dichlorobenzene	95-50-1	1,100	8.4 UJ	13 U	4.8 U	3.1 U	7.5 U
1,2-Dichloroethane	107-06-2	20	8.4 U	13 U	4.8 U	3.1 U	7.5 U
1,2-Dichloropropane	78-87-5	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
1,3,5-Trimethylbenzene	108-67-8	8,400	8.4 UJ	13 U	4.8 U	3.1 U	7.5 U
1,3-Dichlorobenzene	541-73-1	2,400	8.4 UJ	13 U	4.8 U	3.1 U	7.5 U
1,4-Dichlorobenzene	106-46-7	1,800	8.4 UJ	13 U	4.8 U	3.1 U	7.5 U
1,4-Dioxane	123-91-1	100	170 R	250 R	95 R	61 R	150 R
2-Butanone	78-93-3	120	4 J	6.3 J	4.8 UJ	3.1 UJ	5.8 J
2-Hexanone	591-78-6	NC	8.4 UJ	13 J	4.8 UJ	3.1 UJ	7.5 UJ
4-Isopropyltoluene	99-87-6	NC	8.4 UJ	13 U	4.8 U	3.1 U	7.5 U
4-Methyl-2-Pentanone	108-10-1	NC	8.4 UJ	13 J	4.8 UJ	3.1 UJ	7.5 UJ
Acetone	67-64-1	50	42	46	4.8 U	3.1 U	100
Benzene	71-43-2	60	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Bromochloromethane	74-97-5	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Bromodichloromethane	75-27-4	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Bromoform	75-25-2	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Bromomethane	74-83-9	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Carbon disulfide	75-15-0	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Carbon Tetrachloride	56-23-5	760	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Chlorobenzene	108-90-7	1,100	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Chloroethane	75-00-3	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Chloroform	67-66-3	370	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Chloromethane	74-87-3	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
cis-1,2-Dichloroethene	156-59-2	250	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Cis-1,3-Dichloropropene	10061-01-5	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Cyclohexane	110-82-7	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Dibromochloromethane	124-48-1	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Dichlorodifluoromethane	75-71-8	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Ethylbenzene	100-41-4	1,000	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Isopropylbenzene	98-82-8	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
M,P-XYLENE	XYLMP	NC	17 U	25 U	9.5 U	6.1 U	15 U
Methyl Acetate	79-20-9	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Methylcyclohexane	108-87-2	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Methylene Chloride	75-09-2	50	8.4 U	13 U	4.8 U	3.1 U	7.5 U
MTBE	1634-04-4	930	8.4 U	13 U	4.8 U	3.1 U	1.7 J
n-Butylbenzene	104-51-8	12,000	8.4 UJ	13 U	4.8 U	3.1 U	7.5 U
n-Propylbenzene	103-65-1	3,900	8.4 UJ	13 U	4.8 U	3.1 U	7.5 U
o-Xylene	95-47-6	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
sec-Butylbenzene	135-98-8	11,000	8.4 UJ	13 U	4.8 U	3.1 U	7.5 U
Styrene	100-42-5	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Tert-Butylbenzene	98-06-6	5,900	8.4 UJ	13 U	4.8 U	3.1 U	7.5 U
Tetrachloroethene	127-18-4	1,300	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Toluene	108-88-3	700	8.4 U	13 U	4.8 U	3.1 U	7.5 U
trans-1,2-Dichloroethene	156-60-5	190	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Trans-1,3-Dichloropropene	10061-02-6	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Trichloroethene	79-01-6	470	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Trichlorofluoromethane	75-69-4	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Vinyl Chloride	75-01-4	20	8.4 U	13 U	4.8 U	3.1 U	7.5 U
Total Xylenes	NA	260	U	U	U	U	U
VOC TIC TOTALS	NA	NC	19.5	71	67.8	23.5	254.6

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
Exceeds Unrestricted SCO listed in Part 375.

Table 6A - Surface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-112	SS-114
		Sample ID	SS-112-0-0.17-091916	SS-114-0-0.17-092016
		Sample Date	9/19/2016	9/20/2016
		Unit	µg/kg	µg/kg
		Lab SDG	R1609864	R1609909
		Start Depth	0	0
		End Depth	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]		
VOCs				
1,1,1-Trichloroethane	71-55-6	680	3.7 U	11 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	3.7 U	11 UJ
1,1,2-Trichloroethane	79-00-5	NC	3.7 U	11 U
1,1-Dichloroethane	75-34-3	270	3.7 U	11 U
1,1-Dichloroethene	75-35-4	330	3.7 U	11 U
1,2,3-Trichlorobenzene	87-61-6	NC	3.7 U	11 UJ
1,2,4-Trichlorobenzene	120-82-1	NC	3.7 U	11 UJ
1,2,4-Trimethylbenzene	95-63-6	3,600	3.7 U	11 UJ
1,2-Dibromo-3-chloropropane	96-12-8	NC	3.7 UJ	11 UJ
1,2-Dibromoethane	106-93-4	NC	3.7 U	11 U
1,2-Dichlorobenzene	95-50-1	1,100	3.7 U	11 UJ
1,2-Dichloroethane	107-06-2	20	3.7 U	11 U
1,2-Dichloropropane	78-87-5	NC	3.7 U	11 U
1,3,5-Trimethylbenzene	108-67-8	8,400	3.7 U	11 UJ
1,3-Dichlorobenzene	541-73-1	2,400	3.7 U	11 UJ
1,4-Dichlorobenzene	106-46-7	1,800	3.7 U	11 UJ
1,4-Dioxane	123-91-1	100	75 R	220 R
2-Butanone	78-93-3	120	3.7 UJ	11 U
2-Hexanone	591-78-6	NC	3.7 UJ	11 U
4-Isopropyltoluene	99-87-6	NC	3.7 U	11 UJ
4-Methyl-2-Pentanone	108-10-1	NC	3.7 UJ	11 U
Acetone	67-64-1	50	4.2	11 U
Benzene	71-43-2	60	3.7 U	11 U
Bromochloromethane	74-97-5	NC	3.7 U	11 U
Bromodichloromethane	75-27-4	NC	3.7 U	11 U
Bromoform	75-25-2	NC	3.7 U	11 U
Bromomethane	74-83-9	NC	3.7 U	11 U
Carbon disulfide	75-15-0	NC	3.7 U	11 U
Carbon Tetrachloride	56-23-5	760	3.7 U	11 U
Chlorobenzene	108-90-7	1,100	3.7 U	11 U
Chloroethane	75-00-3	NC	3.7 U	11 U
Chloroform	67-66-3	370	3.7 U	11 U
Chloromethane	74-87-3	NC	3.7 U	11 U
cis-1,2-Dichloroethene	156-59-2	250	3.7 U	11 U
Cis-1,3-Dichloropropene	10061-01-5	NC	3.7 U	11 U
Cyclohexane	110-82-7	NC	3.7 U	11 UJ
Dibromochloromethane	124-48-1	NC	3.7 U	11 U
Dichlorodifluoromethane	75-71-8	NC	3.7 U	11 U
Ethylbenzene	100-41-4	1,000	3.7 U	11 U
Isopropylbenzene	98-82-8	NC	3.7 U	11 U
M,P-XYLENE	XYLMP	NC	7.5 U	22 U
Methyl Acetate	79-20-9	NC	3.7 U	11 U
Methylcyclohexane	108-87-2	NC	3.7 U	11 UJ
Methylene Chloride	75-09-2	50	3.7 U	11 U
MTBE	1634-04-4	930	3.7 U	11 U
n-Butylbenzene	104-51-8	12,000	3.7 U	11 UJ
n-Propylbenzene	103-65-1	3,900	3.7 U	11 UJ
o-Xylene	95-47-6	NC	3.7 U	11 U
sec-Butylbenzene	135-98-8	11,000	3.7 U	11 UJ
Styrene	100-42-5	NC	3.7 U	11 U
Tert-Butylbenzene	98-06-6	5,900	3.7 U	11 UJ
Tetrachloroethene	127-18-4	1,300	3.7 U	11 U
Toluene	108-88-3	700	3.7 U	11 U
trans-1,2-Dichloroethene	156-60-5	190	3.7 U	11 U
Trans-1,3-Dichloropropene	10061-02-6	NC	3.7 U	11 U
Trichloroethene	79-01-6	470	3.7 U	11 U
Trichlorofluoromethane	75-69-4	NC	3.7 U	11 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	3.7 U	11 U
Vinyl Chloride	75-01-4	20	3.7 U	11 U
Total Xylenes	NA	260	U	U
VOC TIC TOTALS	NA	NC	109.2	88.2

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
Exceeds Unrestricted SCO listed in Part 375.

Table 6A - Surface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-115	SS-121	SS-123	SS-129	SS-131
		Sample ID	SS-115-0-0.17-092016	SS-121-0-0.17-092016	SS-123-0-0.17-092016	SS-129-0-0.17-092016	SS-131-0-0.17-092016
		Sample Date	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/20/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1609909	R1609909	R1609909	R1609909	R1609909
		Start Depth	0	0	0	0	0
		End Depth	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U	4.7 U
1,1,2-Trichloroethane	79-00-5	NC	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
1,1-Dichloroethane	75-34-3	270	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
1,1-Dichloroethene	75-35-4	330	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
1,2,3-Trichlorobenzene	87-61-6	NC	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U	4.7 U
1,2,4-Trichlorobenzene	120-82-1	NC	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U	4.7 U
1,2,4-Trimethylbenzene	95-63-6	3,600	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U	4.7 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	6.2 UJ	5.2 UJ	8.3 UJ	9.1 UJ	4.7 UJ
1,2-Dibromoethane	106-93-4	NC	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
1,2-Dichlorobenzene	95-50-1	1,100	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U	4.7 U
1,2-Dichloroethane	107-06-2	20	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
1,2-Dichloropropane	78-87-5	NC	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
1,3,5-Trimethylbenzene	108-67-8	8,400	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U	4.7 U
1,3-Dichlorobenzene	541-73-1	2,400	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U	4.7 U
1,4-Dichlorobenzene	106-46-7	1,800	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U	4.7 U
1,4-Dioxane	123-91-1	100	120 R	100 R	170 R	180 R	94 R
2-Butanone	78-93-3	120	6.2 U	5.2 U	8.3 UJ	9.1 UJ	3.3 J
2-Hexanone	591-78-6	NC	6.2 U	5.2 U	8.3 UJ	9.1 UJ	4.7 UJ
4-Isopropyltoluene	99-87-6	NC	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U	4.7 U
4-Methyl-2-Pentanone	108-10-1	NC	6.2 U	5.2 U	8.3 UJ	9.1 UJ	4.7 UJ
Acetone	67-64-1	50	6.2 U	5.2 U	8.3 U	9.9	35
Benzene	71-43-2	60	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Bromochloromethane	74-97-5	NC	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Bromodichloromethane	75-27-4	NC	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Bromoform	75-25-2	NC	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Bromomethane	74-83-9	NC	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Carbon disulfide	75-15-0	NC	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Carbon Tetrachloride	56-23-5	760	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Chlorobenzene	108-90-7	1,100	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Chloroethane	75-00-3	NC	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Chloroform	67-66-3	370	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Chloromethane	74-87-3	NC	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
cis-1,2-Dichloroethene	156-59-2	250	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Cis-1,3-Dichloropropene	10061-01-5	NC	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Cyclohexane	110-82-7	NC	6.2 UJ	5.2 UJ	8.3 U	9.1 U	4.7 U
Dibromochloromethane	124-48-1	NC	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Dichlorodifluoromethane	75-71-8	NC	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Ethylbenzene	100-41-4	1,000	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Isopropylbenzene	98-82-8	NC	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
M,P-XYLENE	XYLMP	NC	12 U	10 U	17 U	18 U	9.4 U
Methyl Acetate	79-20-9	NC	6.2 U	5.2 U	8.3 U	9.1 U	2.8 J
Methylcyclohexane	108-87-2	NC	6.2 UJ	5.2 UJ	8.3 U	9.1 U	4.7 U
Methylene Chloride	75-09-2	50	6.2 U	5.2 U	8.3 U	1.8 J	4.7 U
MTBE	1634-04-4	930	6.2 U	5.2 U	8.3 U	9.1 U	1.2 J
n-Butylbenzene	104-51-8	12,000	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U	4.7 U
n-Propylbenzene	103-65-1	3,900	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U	4.7 U
o-Xylene	95-47-6	NC	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
sec-Butylbenzene	135-98-8	11,000	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U	4.7 U
Styrene	100-42-5	NC	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Tert-Butylbenzene	98-06-6	5,900	6.2 UJ	5.2 UJ	8.3 UJ	9.1 U	4.7 U
Tetrachloroethene	127-18-4	1,300	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Toluene	108-88-3	700	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
trans-1,2-Dichloroethene	156-60-5	190	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Trans-1,3-Dichloropropene	10061-02-6	NC	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Trichloroethene	79-01-6	470	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Trichlorofluoromethane	75-69-4	NC	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Vinyl Chloride	75-01-4	20	6.2 U	5.2 U	8.3 U	9.1 U	4.7 U
Total Xylenes	NA	260	U	U	U	U	U
VOC TIC TOTALS	NA	NC	50.4	0	66	61.8	58

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
Exceeds Unrestricted SCO listed in Part 375.

Table 6A - Surface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-135	SS-136	SS-140	SS-143	SS-146
		Sample ID	SS-135-0-0.17-091916	SS-136-0-0.17-091916	SS-140-0-0.17-091916	SS-143-0-0.17-091916	SS-146-0-0.17-091916
		Sample Date	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1609864	R1609864	R1609864	R1609864	R1609864
		Start Depth	0	0	0	0	0
		End Depth	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	8.1 U	3.6 U	12 U	4.8 U	4.4 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	8.1 UJ	3.6 U	12 U	4.8 U	4.4 U
1,1,2-Trichloroethane	79-00-5	NC	8.1 U	3.6 U	12 U	4.8 U	4.4 U
1,1-Dichloroethane	75-34-3	270	8.1 U	3.6 U	12 U	4.8 U	4.4 U
1,1-Dichloroethene	75-35-4	330	8.1 U	3.6 U	12 U	4.8 U	4.4 U
1,2,3-Trichlorobenzene	87-61-6	NC	8.1 UJ	3.6 U	12 U	4.8 U	4.4 U
1,2,4-Trichlorobenzene	120-82-1	NC	8.1 UJ	3.6 U	12 U	4.8 U	4.4 U
1,2,4-Trimethylbenzene	95-63-6	3,600	8.1 UJ	3.6 U	5.3 J	4.8 U	4.4 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	8.1 UJ	3.6 U	12 UJ	4.8 U	4.4 U
1,2-Dibromoethane	106-93-4	NC	8.1 U	3.6 U	12 U	4.8 U	4.4 U
1,2-Dichlorobenzene	95-50-1	1,100	8.1 UJ	3.6 U	12 U	4.8 U	4.4 U
1,2-Dichloroethane	107-06-2	20	8.1 U	3.6 U	12 U	4.8 U	4.4 U
1,2-Dichloropropane	78-87-5	NC	8.1 U	3.6 U	12 U	4.8 U	4.4 U
1,3,5-Trimethylbenzene	108-67-8	8,400	8.1 UJ	3.6 U	12 U	4.8 U	4.4 U
1,3-Dichlorobenzene	541-73-1	2,400	8.1 UJ	3.6 U	12 U	4.8 U	4.4 U
1,4-Dichlorobenzene	106-46-7	1,800	8.1 UJ	3.6 U	12 U	4.8 U	4.4 U
1,4-Dioxane	123-91-1	100	160 R	15 J	230 R	97 R	87 R
2-Butanone	78-93-3	120	8.1 UJ	3.6 UJ	12 UJ	4.8 UJ	4.4 UJ
2-Hexanone	591-78-6	NC	8.1 UJ	3.6 UJ	12 UJ	4.8 UJ	4.4 UJ
4-Isopropyltoluene	99-87-6	NC	8.1 UJ	3.6 U	2.6 J	4.8 U	4.4 U
4-Methyl-2-Pentanone	108-10-1	NC	8.1 UJ	3.6 UJ	12 UJ	4.8 UJ	4.4 UJ
Acetone	67-64-1	50	8.1 U	3.6 U	53	4.8 U	25
Benzene	71-43-2	60	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Bromochloromethane	74-97-5	NC	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Bromodichloromethane	75-27-4	NC	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Bromoform	75-25-2	NC	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Bromomethane	74-83-9	NC	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Carbon disulfide	75-15-0	NC	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Carbon Tetrachloride	56-23-5	760	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Chlorobenzene	108-90-7	1,100	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Chloroethane	75-00-3	NC	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Chloroform	67-66-3	370	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Chloromethane	74-87-3	NC	8.1 U	3.6 U	12 U	4.8 U	4.4 U
cis-1,2-Dichloroethene	156-59-2	250	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Cis-1,3-Dichloropropene	10061-01-5	NC	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Cyclohexane	110-82-7	NC	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Dibromochloromethane	124-48-1	NC	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Dichlorodifluoromethane	75-71-8	NC	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Ethylbenzene	100-41-4	1,000	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Isopropylbenzene	98-82-8	NC	8.1 U	3.6 U	2.8 J	4.8 U	4.4 U
M,P-XYLENE	XYLMP	NC	16 U	7.3 U	23 U	9.7 U	8.7 U
Methyl Acetate	79-20-9	NC	8.1 U	3.6 U	7.7 J	4.8 U	4.4 U
Methylcyclohexane	108-87-2	NC	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Methylene Chloride	75-09-2	50	8.1 U	3.6 U	12 U	4.8 U	4.4 U
MTBE	1634-04-4	930	8.1 U	3.6 U	12 U	4.8 U	4.4 U
n-Butylbenzene	104-51-8	12,000	8.1 UJ	3.6 U	12 U	4.8 U	4.4 U
n-Propylbenzene	103-65-1	3,900	8.1 UJ	3.6 U	12 U	4.8 U	4.4 U
o-Xylene	95-47-6	NC	8.1 U	3.6 U	12 U	4.8 U	4.4 U
sec-Butylbenzene	135-98-8	11,000	8.1 UJ	3.6 U	12 U	4.8 U	4.4 U
Styrene	100-42-5	NC	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Tert-Butylbenzene	98-06-6	5,900	8.1 UJ	3.6 U	8.3 J	4.8 U	4.4 U
Tetrachloroethene	127-18-4	1,300	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Toluene	108-88-3	700	8.1 U	3.6 U	12 U	4.8 U	4.4 U
trans-1,2-Dichloroethene	156-60-5	190	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Trans-1,3-Dichloropropene	10061-02-6	NC	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Trichloroethene	79-01-6	470	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Trichlorofluoromethane	75-69-4	NC	8.1 U	3.6 U	12 U	4.8 U	4.4 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Vinyl Chloride	75-01-4	20	8.1 U	3.6 U	12 U	4.8 U	4.4 U
Total Xylenes	NA	260	U	U	U	U	U
VOC TIC TOTALS	NA	NC	0	77	0	19.9	101.4

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
Exceeds Unrestricted SCO listed in Part 375.

Table 6A - Surface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SS-148	SS-150	SS-150	SS-152	SS-153
	Sample ID	SS-148-0-0.17-092016	DUP-006-091916	SS-150-0-0.17-091916	SS-152-0-0.17-091916	SS-153-0-0.17-091916
	Sample Date	9/20/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016
	Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	Lab SDG	R1609909	R1609864	R1609864	R1609864	R1609864
	Start Depth	0	0	0	0	0
	End Depth	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,1,2-Trichloroethane	79-00-5	NC	6.2 UJ	3.8 U	3.1 U	5 U	4.6 U
1,1-Dichloroethane	75-34-3	270	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,1-Dichloroethene	75-35-4	330	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,2,3-Trichlorobenzene	87-61-6	NC	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,2,4-Trichlorobenzene	120-82-1	NC	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,2,4-Trimethylbenzene	95-63-6	3,600	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	6.2 UJ	3.8 U	3.1 U	5 U	4.6 U
1,2-Dibromoethane	106-93-4	NC	6.2 UJ	3.8 U	3.1 U	5 U	4.6 U
1,2-Dichlorobenzene	95-50-1	1,100	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,2-Dichloroethane	107-06-2	20	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,2-Dichloropropane	78-87-5	NC	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,3,5-Trimethylbenzene	108-67-8	8,400	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,3-Dichlorobenzene	541-73-1	2,400	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,4-Dichlorobenzene	106-46-7	1,800	6.2 U	3.8 U	3.1 U	5 U	4.6 U
1,4-Dioxane	123-91-1	100	120 R	77 R	63 R	100 R	91 R
2-Butanone	78-93-3	120	6.2 UJ	3.8 UJ	3.1 UJ	5 UJ	4.6 UJ
2-Hexanone	591-78-6	NC	6.2 R	3.8 UJ	3.1 UJ	5 UJ	4.6 UJ
4-Isopropyltoluene	99-87-6	NC	6.2 U	3.8 U	3.1 U	5 U	4.6 U
4-Methyl-2-Pentanone	108-10-1	NC	6.2 UJ	3.8 UJ	3.1 UJ	5 UJ	4.6 UJ
Acetone	67-64-1	50	6.2 U	3.8 U	11	37	4.6 U
Benzene	71-43-2	60	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Bromochloromethane	74-97-5	NC	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Bromodichloromethane	75-27-4	NC	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Bromoform	75-25-2	NC	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Bromomethane	74-83-9	NC	6.2 R	3.8 U	3.1 U	5 U	4.6 U
Carbon disulfide	75-15-0	NC	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Carbon Tetrachloride	56-23-5	760	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Chlorobenzene	108-90-7	1,100	6.2 UJ	3.8 U	3.1 U	5 U	4.6 U
Chloroethane	75-00-3	NC	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Chloroform	67-66-3	370	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Chloromethane	74-87-3	NC	6.2 U	3.8 U	3.1 U	5 U	4.6 U
cis-1,2-Dichloroethene	156-59-2	250	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Cis-1,3-Dichloropropene	10061-01-5	NC	6.2 UJ	3.8 U	3.1 U	5 U	4.6 U
Cyclohexane	110-82-7	NC	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Dibromochloromethane	124-48-1	NC	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Dichlorodifluoromethane	75-71-8	NC	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Ethylbenzene	100-41-4	1,000	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Isopropylbenzene	98-82-8	NC	6.2 U	3.8 U	3.1 U	5 U	4.6 U
M,P-XYLENE	XYLMP	NC	12 U	7.7 U	6.3 U	10 U	9.1 U
Methyl Acetate	79-20-9	NC	6.2 R	3.8 U	3.1 U	5 U	4.6 U
Methylcyclohexane	108-87-2	NC	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Methylene Chloride	75-09-2	50	6.2 U	3.8 U	3.1 U	5 U	4.6 U
MTBE	1634-04-4	930	6.2 U	3.8 U	3.1 U	5 U	4.6 U
n-Butylbenzene	104-51-8	12,000	6.2 U	3.8 U	3.1 U	5 U	4.6 U
n-Propylbenzene	103-65-1	3,900	6.2 U	3.8 U	3.1 U	5 U	4.6 U
o-Xylene	95-47-6	NC	6.2 U	3.8 U	3.1 U	5 U	4.6 U
sec-Butylbenzene	135-98-8	11,000	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Styrene	100-42-5	NC	6.2 UJ	3.8 U	3.1 U	5 U	4.6 U
Tert-Butylbenzene	98-06-6	5,900	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Tetrachloroethene	127-18-4	1,300	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Toluene	108-88-3	700	6.2 U	3.8 U	3.1 U	5 U	4.6 U
trans-1,2-Dichloroethene	156-60-5	190	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Trans-1,3-Dichloropropene	10061-02-6	NC	6.2 UJ	3.8 U	3.1 U	5 U	4.6 U
Trichloroethene	79-01-6	470	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Trichlorofluoromethane	75-69-4	NC	6.2 U	3.8 U	3.1 U	5 U	4.6 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Vinyl Chloride	75-01-4	20	6.2 U	3.8 U	3.1 U	5 U	4.6 U
Total Xylenes	NA	260	U	U	U	U	U
VOC TIC TOTALS	NA	NC	15.9	61.1	62.4	100.4	11

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
Exceeds Unrestricted SCO listed in Part 375.

Table 6A1 - Existing Surface Cover Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-100	SS-101	SS-102	SS-103	SS-104
		Sample ID	SS-100-0-0.17-092016	SS-101-0-0.17-092016	SS-102-0-0.17-092016	SS-103-0-0.17-092016	SS-104-0-0.17-091916
		Sample Date	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/19/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1609909	R1609909	R1609909	R1609909	R1609864
		Start Depth	0	0	0	0	0
		End Depth	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,1,2-Trichloroethane	79-00-5	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,1-Dichloroethane	75-34-3	270	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,1-Dichloroethene	75-35-4	330	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,2,3-Trichlorobenzene	87-61-6	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,2,4-Trichlorobenzene	120-82-1	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,2,4-Trimethylbenzene	95-63-6	3,600	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,2-Dibromo-3-chloropropane	96-12-8	NC	13 U	4.9 UJ	5.1 UJ	6.4 UJ	7.6 UJ
1,2-Dibromoethane	106-93-4	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,2-Dichlorobenzene	95-50-1	1,100	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,2-Dichloroethane	107-06-2	20	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,2-Dichloropropane	78-87-5	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
1,3,5-Trimethylbenzene	108-67-8	8,400	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,3-Dichlorobenzene	541-73-1	2,400	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,4-Dichlorobenzene	106-46-7	1,800	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
1,4-Dioxane	123-91-1	100	250 R	98 R	100 R	130 R	150 R
2-Butanone	78-93-3	120	13 UJ	4.9 UJ	5.1 UJ	6.4 UJ	7.6 UJ
2-Hexanone	591-78-6	NC	13 UJ	4.9 UJ	5.1 UJ	6.4 UJ	7.6 UJ
4-Isopropyltoluene	99-87-6	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
4-Methyl-2-Pentanone	108-10-1	NC	13 UJ	4.9 UJ	5.1 UJ	6.4 UJ	7.6 UJ
Acetone	67-64-1	50	130	4.9 U	9.4	6.4 U	14
Benzene	71-43-2	60	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Bromochloromethane	74-97-5	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Bromodichloromethane	75-27-4	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Bromoform	75-25-2	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Bromomethane	74-83-9	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Carbon disulfide	75-15-0	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Carbon Tetrachloride	56-23-5	760	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Chlorobenzene	108-90-7	1,100	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Chloroethane	75-00-3	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Chloroform	67-66-3	370	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Chloromethane	74-87-3	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
cis-1,2-Dichloroethene	156-59-2	250	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Cis-1,3-Dichloropropene	10061-01-5	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Cyclohexane	110-82-7	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Dibromochloromethane	124-48-1	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Dichlorodifluoromethane	75-71-8	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Ethylbenzene	100-41-4	1,000	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Isopropylbenzene	98-82-8	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
M,P-XYLENE	XYLMP	NC	25 U	9.8 U	10 U	13 U	15 U
Methyl Acetate	79-20-9	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Methylcyclohexane	108-87-2	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Methylene Chloride	75-09-2	50	13 U	4.9 U	5.1 U	0.75 J	7.6 U
MTBE	1634-04-4	930	5.8 J	4.9 U	5.1 U	6.4 U	7.6 U
n-Butylbenzene	104-51-8	12,000	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
n-Propylbenzene	103-65-1	3,900	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
o-Xylene	95-47-6	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
sec-Butylbenzene	135-98-8	11,000	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
Styrene	100-42-5	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Tert-Butylbenzene	98-06-6	5,900	13 U	4.9 U	5.1 U	6.4 U	7.6 UJ
Tetrachloroethene	127-18-4	1,300	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Toluene	108-88-3	700	13 U	4.9 U	5.1 U	6.4 U	7.6 U
trans-1,2-Dichloroethene	156-60-5	190	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Trans-1,3-Dichloropropene	10061-02-6	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Trichloroethene	79-01-6	470	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Trichlorofluoromethane	75-69-4	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Vinyl Chloride	75-01-4	20	13 U	4.9 U	5.1 U	6.4 U	7.6 U
Total Xylenes	NA	260	U	U	U	U	U
VOC TIC TOTALS	NA	NC	191	119.7	52.2	0	79

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 6A1 - Existing Surface Cover Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-105	SS-106	SS-107	SS-108	SS-110
		Sample ID	SS-105-0-0.17-091916	SS-106-0-0.17-091916	SS-107-0-0.17-091916	SS-108-0-0.17-091916	SS-110-1-2-092116
		Sample Date	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/21/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1609864	R1609864	R1609864	R1609864	R1609954
		Start Depth	0	0	0	0	1
		End Depth	0.17	0.17	0.17	0.17	2
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
1,1,2,2-Tetrachloroethane	79-34-5	NC	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ
1,1,2-Trichloroethane	79-00-5	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
1,1-Dichloroethane	75-34-3	270	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
1,1-Dichloroethene	75-35-4	330	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
1,2,3-Trichlorobenzene	87-61-6	NC	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ
1,2,4-Trichlorobenzene	120-82-1	NC	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ
1,2,4-Trimethylbenzene	95-63-6	3,600	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ
1,2-Dibromo-3-chloropropane	96-12-8	NC	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ
1,2-Dibromoethane	106-93-4	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
1,2-Dichlorobenzene	95-50-1	1,100	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ
1,2-Dichloroethane	107-06-2	20	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
1,2-Dichloropropane	78-87-5	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
1,3,5-Trimethylbenzene	108-67-8	8,400	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ
1,3-Dichlorobenzene	541-73-1	2,400	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ
1,4-Dichlorobenzene	106-46-7	1,800	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ
1,4-Dioxane	123-91-1	100	170 R	250 R	95 R	61 R	100 R
2-Butanone	78-93-3	120	4 J	6.3 J	4.8 UJ	3.1 UJ	5.2 UJ
2-Hexanone	591-78-6	NC	8.4 UJ	13 J	4.8 UJ	3.1 UJ	5.2 UJ
4-Isopropyltoluene	99-87-6	NC	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ
4-Methyl-2-Pentanone	108-10-1	NC	8.4 UJ	13 J	4.8 UJ	3.1 UJ	5.2 UJ
Acetone	67-64-1	50	42	46	4.8 U	3.1 U	5.2 UJ
Benzene	71-43-2	60	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Bromochloromethane	74-97-5	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Bromodichloromethane	75-27-4	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Bromoform	75-25-2	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Bromomethane	74-83-9	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Carbon disulfide	75-15-0	NC	8.4 U	13 U	4.8 U	3.1 U	3.7 J
Carbon Tetrachloride	56-23-5	760	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Chlorobenzene	108-90-7	1,100	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Chloroethane	75-00-3	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Chloroform	67-66-3	370	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Chloromethane	74-87-3	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
cis-1,2-Dichloroethene	156-59-2	250	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Cis-1,3-Dichloropropene	10061-01-5	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Cyclohexane	110-82-7	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Dibromochloromethane	124-48-1	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Dichlorodifluoromethane	75-71-8	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Ethylbenzene	100-41-4	1,000	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Isopropylbenzene	98-82-8	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
M,P-XYLENE	XYLMP	NC	17 U	25 U	9.5 U	6.1 U	10 UJ
Methyl Acetate	79-20-9	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Methylcyclohexane	108-87-2	NC	8.4 U	13 U	4.8 U	3.1 U	1.3 J
Methylene Chloride	75-09-2	50	8.4 U	13 U	4.8 U	3.1 U	3.5 J
MTBE	1634-04-4	930	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
n-Butylbenzene	104-51-8	12,000	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ
n-Propylbenzene	103-65-1	3,900	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ
o-Xylene	95-47-6	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
sec-Butylbenzene	135-98-8	11,000	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ
Styrene	100-42-5	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Tert-Butylbenzene	98-06-6	5,900	8.4 UJ	13 U	4.8 U	3.1 U	5.2 UJ
Tetrachloroethene	127-18-4	1,300	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Toluene	108-88-3	700	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
trans-1,2-Dichloroethene	156-60-5	190	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Trans-1,3-Dichloropropene	10061-02-6	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Trichloroethene	79-01-6	470	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Trichlorofluoromethane	75-69-4	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Vinyl Chloride	75-01-4	20	8.4 U	13 U	4.8 U	3.1 U	5.2 UJ
Total Xylenes	NA	260	U	U	U	U	U
VOC TIC TOTALS	NA	NC	19.5	71	67.8	23.5	160

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 6A1 - Existing Surface Cover Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-111	SS-112	SS-113	SS-113	SS-114
		Sample ID	SS-111-0-0.17-091916	SS-112-0-0.17-091916	DUP-005-092116	SS-113-1-2-092116	SS-114-0-0.17-092016
		Sample Date	9/19/2016	9/19/2016	9/21/2016	9/21/2016	9/20/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1609864	R1609864	R1609954	R1609954	R1609909
		Start Depth	0	0	1	1	0
		End Depth	0.17	0.17	2	2	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	7.5 U	3.7 U	3.6 U	6.2 U	11 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 UJ
1,1,2-Trichloroethane	79-00-5	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 U
1,1-Dichloroethane	75-34-3	270	7.5 U	3.7 U	3.6 U	6.2 U	11 U
1,1-Dichloroethene	75-35-4	330	7.5 U	3.7 U	3.6 U	6.2 U	11 U
1,2,3-Trichlorobenzene	87-61-6	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 UJ
1,2,4-Trichlorobenzene	120-82-1	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 UJ
1,2,4-Trimethylbenzene	95-63-6	3,600	7.5 U	3.7 U	3.6 U	6.2 U	11 UJ
1,2-Dibromo-3-chloropropane	96-12-8	NC	7.5 U	3.7 UJ	3.6 U	6.2 U	11 UJ
1,2-Dibromoethane	106-93-4	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 U
1,2-Dichlorobenzene	95-50-1	1,100	7.5 U	3.7 U	3.6 U	6.2 U	11 UJ
1,2-Dichloroethane	107-06-2	20	7.5 U	3.7 U	3.6 U	6.2 U	11 U
1,2-Dichloropropane	78-87-5	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 U
1,3,5-Trimethylbenzene	108-67-8	8,400	7.5 U	3.7 U	3.6 U	6.2 U	11 UJ
1,3-Dichlorobenzene	541-73-1	2,400	7.5 U	3.7 U	3.6 U	6.2 U	11 UJ
1,4-Dichlorobenzene	106-46-7	1,800	7.5 U	3.7 U	3.6 U	6.2 U	11 UJ
1,4-Dioxane	123-91-1	100	150 R	75 R	72 R	120 R	220 R
2-Butanone	78-93-3	120	5.8 J	3.7 UJ	3.6 U	6.2 U	11 U
2-Hexanone	591-78-6	NC	7.5 UJ	3.7 UJ	3.6 U	6.2 U	11 U
4-Isopropyltoluene	99-87-6	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 UJ
4-Methyl-2-Pentanone	108-10-1	NC	7.5 UJ	3.7 UJ	3.6 U	6.2 U	11 U
Acetone	67-64-1	50	100	4.2	3.6 U	6.2 U	11 U
Benzene	71-43-2	60	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Bromochloromethane	74-97-5	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Bromodichloromethane	75-27-4	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Bromoform	75-25-2	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Bromomethane	74-83-9	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Carbon disulfide	75-15-0	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Carbon Tetrachloride	56-23-5	760	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Chlorobenzene	108-90-7	1,100	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Chloroethane	75-00-3	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Chloroform	67-66-3	370	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Chloromethane	74-87-3	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 U
cis-1,2-Dichloroethene	156-59-2	250	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Cis-1,3-Dichloropropene	10061-01-5	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Cyclohexane	110-82-7	NC	7.5 U	3.7 U	3.6 UJ	6.2 UJ	11 UJ
Dibromochloromethane	124-48-1	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Dichlorodifluoromethane	75-71-8	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Ethylbenzene	100-41-4	1,000	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Isopropylbenzene	98-82-8	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 U
M,P-XYLENE	XYLMP	NC	15 U	7.5 U	7.2 U	12 U	22 U
Methyl Acetate	79-20-9	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Methylcyclohexane	108-87-2	NC	7.5 U	3.7 U	3.6 UJ	6.2 UJ	11 UJ
Methylene Chloride	75-09-2	50	7.5 U	3.7 U	0.86 J	2.9 J	11 U
MTBE	1634-04-4	930	1.7 J	3.7 U	0.76 J	6.2 U	11 U
n-Butylbenzene	104-51-8	12,000	7.5 U	3.7 U	3.6 U	6.2 U	11 UJ
n-Propylbenzene	103-65-1	3,900	7.5 U	3.7 U	3.6 U	6.2 U	11 UJ
o-Xylene	95-47-6	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 U
sec-Butylbenzene	135-98-8	11,000	7.5 U	3.7 U	3.6 U	6.2 U	11 UJ
Styrene	100-42-5	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Tert-Butylbenzene	98-06-6	5,900	7.5 U	3.7 U	3.6 U	6.2 U	11 UJ
Tetrachloroethene	127-18-4	1,300	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Toluene	108-88-3	700	7.5 U	3.7 U	3.6 U	6.2 U	11 U
trans-1,2-Dichloroethene	156-60-5	190	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Trans-1,3-Dichloropropene	10061-02-6	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Trichloroethene	79-01-6	470	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Trichlorofluoromethane	75-69-4	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Vinyl Chloride	75-01-4	20	7.5 U	3.7 U	3.6 U	6.2 U	11 U
Total Xylenes	NA	260	U	U	U	U	U
VOC TIC TOTALS	NA	NC	254.6	109.2	112.5	22.4	88.2

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 6A1 - Existing Surface Cover Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-115	SS-117	SS-118	SS-120	SS-121
		Sample ID	SS-115-0-0.17-092016	SS-117-1-1.5-092116	SS-118-1-2-092116	SS-120-0.5-1-092116	SS-121-0-0.17-092016
		Sample Date	9/20/2016	9/21/2016	9/21/2016	9/21/2016	9/20/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1609909	R1609954	R1609954	R1609954	R1609909
		Start Depth	0	1	1	0.5	0
		End Depth	0.17	1.5	2	1	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	6.2 UJ	4.3 UJ	2.8 U	3.5 U	5.2 UJ
1,1,2-Trichloroethane	79-00-5	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
1,1-Dichloroethane	75-34-3	270	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
1,1-Dichloroethene	75-35-4	330	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
1,2,3-Trichlorobenzene	87-61-6	NC	6.2 UJ	4.3 UJ	2.8 U	3.5 U	5.2 UJ
1,2,4-Trichlorobenzene	120-82-1	NC	6.2 UJ	4.3 UJ	2.8 U	3.5 U	5.2 UJ
1,2,4-Trimethylbenzene	95-63-6	3,600	6.2 UJ	4.3 UJ	2.8 U	3.5 U	5.2 UJ
1,2-Dibromo-3-chloropropane	96-12-8	NC	6.2 UJ	4.3 UJ	2.8 U	3.5 U	5.2 UJ
1,2-Dibromoethane	106-93-4	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
1,2-Dichlorobenzene	95-50-1	1,100	6.2 UJ	4.3 UJ	2.8 U	3.5 U	5.2 UJ
1,2-Dichloroethane	107-06-2	20	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
1,2-Dichloropropane	78-87-5	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
1,3,5-Trimethylbenzene	108-67-8	8,400	6.2 UJ	4.3 UJ	2.8 U	3.5 U	5.2 UJ
1,3-Dichlorobenzene	541-73-1	2,400	6.2 UJ	4.3 UJ	2.8 U	3.5 U	5.2 UJ
1,4-Dichlorobenzene	106-46-7	1,800	6.2 UJ	4.3 UJ	2.8 U	3.5 U	5.2 UJ
1,4-Dioxane	123-91-1	100	120 R	85 R	55 R	70 R	100 R
2-Butanone	78-93-3	120	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
2-Hexanone	591-78-6	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
4-Isopropyltoluene	99-87-6	NC	6.2 UJ	4.3 UJ	2.8 U	3.5 U	5.2 UJ
4-Methyl-2-Pentanone	108-10-1	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Acetone	67-64-1	50	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Benzene	71-43-2	60	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Bromochloromethane	74-97-5	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Bromodichloromethane	75-27-4	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Bromoform	75-25-2	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Bromomethane	74-83-9	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Carbon disulfide	75-15-0	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Carbon Tetrachloride	56-23-5	760	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Chlorobenzene	108-90-7	1,100	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Chloroethane	75-00-3	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Chloroform	67-66-3	370	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Chloromethane	74-87-3	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
cis-1,2-Dichloroethene	156-59-2	250	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Cis-1,3-Dichloropropene	10061-01-5	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Cyclohexane	110-82-7	NC	6.2 UJ	4.3 UJ	2.8 UJ	3.5 UJ	5.2 UJ
Dibromochloromethane	124-48-1	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Dichlorodifluoromethane	75-71-8	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Ethylbenzene	100-41-4	1,000	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Isopropylbenzene	98-82-8	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
M,P-XYLENE	XYLMP	NC	12 U	8.5 U	5.5 U	7 U	10 U
Methyl Acetate	79-20-9	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Methylcyclohexane	108-87-2	NC	6.2 UJ	4.3 UJ	2.8 UJ	3.5 UJ	5.2 UJ
Methylene Chloride	75-09-2	50	6.2 U	3.1 J	2.8 U	0.86 J	5.2 U
MTBE	1634-04-4	930	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
n-Butylbenzene	104-51-8	12,000	6.2 UJ	4.3 UJ	2.8 U	3.5 U	5.2 UJ
n-Propylbenzene	103-65-1	3,900	6.2 UJ	4.3 UJ	2.8 U	3.5 U	5.2 UJ
o-Xylene	95-47-6	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
sec-Butylbenzene	135-98-8	11,000	6.2 UJ	4.3 UJ	2.8 U	3.5 U	5.2 UJ
Styrene	100-42-5	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Tert-Butylbenzene	98-06-6	5,900	6.2 UJ	4.3 UJ	2.8 U	3.5 U	5.2 UJ
Tetrachloroethene	127-18-4	1,300	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Toluene	108-88-3	700	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
trans-1,2-Dichloroethene	156-60-5	190	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Trans-1,3-Dichloropropene	10061-02-6	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Trichloroethene	79-01-6	470	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Trichlorofluoromethane	75-69-4	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Vinyl Chloride	75-01-4	20	6.2 U	4.3 U	2.8 U	3.5 U	5.2 U
Total Xylenes	NA	260	U	U	U	U	U
VOC TIC TOTALS	NA	NC	50.4	63.1	53.1	46.4	0

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 6A1 - Existing Surface Cover Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-122	SS-123	SS-124	SS-125	SS-129
		Sample ID	SS-122-1.5-2-092116	SS-123-0-0.17-092016	SS-124-1-2-092216	SS-125-1-2-092216	SS-129-0-0.17-092016
		Sample Date	9/21/2016	9/20/2016	9/22/2016	9/22/2016	9/20/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1609954	R1609909	R1610012	R1610012	R1609909
		Start Depth	1.5	0	1	1	0
		End Depth	2	0.17	2	2	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	5.9 U	8.3 U	4.7 J	4.5 UJ	9.1 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	5.9 UJ	8.3 UJ	4.7 U	4.5 UJ	9.1 U
1,1,2-Trichloroethane	79-00-5	NC	5.9 U	8.3 U	4.7 U	4.5 UJ	9.1 U
1,1-Dichloroethane	75-34-3	270	5.9 U	8.3 U	4.7 U	4.5 UJ	9.1 U
1,1-Dichloroethene	75-35-4	330	5.9 U	8.3 U	4.7 U	4.5 UJ	9.1 U
1,2,3-Trichlorobenzene	87-61-6	NC	5.9 UJ	8.3 UJ	4.7 U	4.5 UJ	9.1 U
1,2,4-Trichlorobenzene	120-82-1	NC	5.9 UJ	8.3 UJ	4.7 U	0.76 J	9.1 U
1,2,4-Trimethylbenzene	95-63-6	3,600	5.9 UJ	8.3 UJ	1.8 J	3.9 J	9.1 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	5.9 UJ	8.3 UJ	4.7 R	4.5 UJ	9.1 UJ
1,2-Dibromoethane	106-93-4	NC	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
1,2-Dichlorobenzene	95-50-1	1,100	5.9 UJ	8.3 UJ	4.7 R	4.5 UJ	9.1 U
1,2-Dichloroethane	107-06-2	20	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
1,2-Dichloropropane	78-87-5	NC	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
1,3,5-Trimethylbenzene	108-67-8	8,400	5.9 UJ	8.3 UJ	4.7 R	1.6 J	9.1 U
1,3-Dichlorobenzene	541-73-1	2,400	5.9 UJ	8.3 UJ	4.7 R	4.5 UJ	9.1 U
1,4-Dichlorobenzene	106-46-7	1,800	5.9 UJ	8.3 UJ	4.7 R	4.5 UJ	9.1 U
1,4-Dioxane	123-91-1	100	120 R	170 R	94 R	90 R	180 R
2-Butanone	78-93-3	120	5.9 U	8.3 UJ	4.7 UJ	2.4 J	9.1 UJ
2-Hexanone	591-78-6	NC	5.9 U	8.3 UJ	4.7 UJ	4.5 UJ	9.1 UJ
4-Isopropyltoluene	99-87-6	NC	5.9 UJ	8.3 UJ	4.7 R	1.5 J	9.1 U
4-Methyl-2-Pentanone	108-10-1	NC	5.9 U	8.3 UJ	4.7 UJ	3.5 J	9.1 UJ
Acetone	67-64-1	50	19	8.3 U	4.7 UJ	17 J	9.9
Benzene	71-43-2	60	5.9 U	8.3 U	0.29 J	0.41 J	9.1 U
Bromochloromethane	74-97-5	NC	5.9 U	8.3 U	4.7 U	4.5 UJ	9.1 U
Bromodichloromethane	75-27-4	NC	5.9 U	8.3 U	4.7 U	4.5 UJ	9.1 U
Bromoform	75-25-2	NC	5.9 U	8.3 U	4.7 U	4.5 UJ	9.1 U
Bromomethane	74-83-9	NC	5.9 U	8.3 U	4.7 U	4.5 UJ	9.1 U
Carbon disulfide	75-15-0	NC	5.9 UJ	8.3 U	3.5 J	1.5 J	9.1 U
Carbon Tetrachloride	56-23-5	760	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
Chlorobenzene	108-90-7	1,100	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
Chloroethane	75-00-3	NC	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
Chloroform	67-66-3	370	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
Chloromethane	74-87-3	NC	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
cis-1,2-Dichloroethene	156-59-2	250	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
Cis-1,3-Dichloropropene	10061-01-5	NC	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
Cyclohexane	110-82-7	NC	5.9 U	8.3 U	4.7 UJ	2 J	9.1 U
Dibromochloromethane	124-48-1	NC	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
Dichlorodifluoromethane	75-71-8	NC	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
Ethylbenzene	100-41-4	1,000	5.9 U	8.3 U	4.7 UJ	0.59 J	9.1 U
Isopropylbenzene	98-82-8	NC	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
M,P-XYLENE	XYLMP	NC	12 U	17 U	1.6 J	2.3 J	18 U
Methyl Acetate	79-20-9	NC	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
Methylcyclohexane	108-87-2	NC	5.9 U	8.3 U	1.7 J	5 J	9.1 U
Methylene Chloride	75-09-2	50	5.9 U	8.3 U	1.2 J	4.5 UJ	1.8 J
MTBE	1634-04-4	930	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
n-Butylbenzene	104-51-8	12,000	5.9 UJ	8.3 UJ	4.7 R	4.5 UJ	9.1 U
n-Propylbenzene	103-65-1	3,900	5.9 UJ	8.3 UJ	4.7 R	4.5 UJ	9.1 U
o-Xylene	95-47-6	NC	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
sec-Butylbenzene	135-98-8	11,000	5.9 UJ	8.3 UJ	4.7 R	4.5 UJ	9.1 U
Styrene	100-42-5	NC	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
Tert-Butylbenzene	98-06-6	5,900	5.9 UJ	8.3 UJ	4.7 R	4.5 UJ	9.1 U
Tetrachloroethene	127-18-4	1,300	5.9 U	8.3 U	2 J	4.5 UJ	9.1 U
Toluene	108-88-3	700	5.9 U	8.3 U	4.7 UJ	9.5 J	9.1 U
trans-1,2-Dichloroethene	156-60-5	190	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
Trans-1,3-Dichloropropene	10061-02-6	NC	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
Trichloroethene	79-01-6	470	5.9 U	8.3 U	4.7 UJ	3.6 J	9.1 U
Trichlorofluoromethane	75-69-4	NC	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	5.9 U	8.3 U	4.7 U	4.5 UJ	9.1 U
Vinyl Chloride	75-01-4	20	5.9 U	8.3 U	4.7 UJ	4.5 UJ	9.1 U
Total Xylenes	NA	260	U	U	1.6	2.3	U
VOC TIC TOTALS	NA	NC	120.4	66	62.3	162.1	61.8

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 6A1 - Existing Surface Cover Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-131	SS-133	SS-135	SS-136	SS-140
		Sample ID	SS-131-0-0.17-092016	SS-133-1-2-092016	SS-135-0-0.17-091916	SS-136-0-0.17-091916	SS-140-0-0.17-091916
		Sample Date	9/20/2016	9/20/2016	9/19/2016	9/19/2016	9/19/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1609909	R1609909	R1609864	R1609864	R1609864
		Start Depth	0	1	0	0	0
		End Depth	0.17	2	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	4.7 U	4.4 UJ	8.1 UJ	3.6 U	12 U
1,1,2-Trichloroethane	79-00-5	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
1,1-Dichloroethane	75-34-3	270	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
1,1-Dichloroethene	75-35-4	330	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
1,2,3-Trichlorobenzene	87-61-6	NC	4.7 U	4.4 UJ	8.1 UJ	3.6 U	12 U
1,2,4-Trichlorobenzene	120-82-1	NC	4.7 U	4.4 UJ	8.1 UJ	3.6 U	12 U
1,2,4-Trimethylbenzene	95-63-6	3,600	4.7 U	4.4 UJ	8.1 UJ	3.6 U	5.3 J
1,2-Dibromo-3-chloropropane	96-12-8	NC	4.7 UJ	4.4 UJ	8.1 UJ	3.6 U	12 UJ
1,2-Dibromoethane	106-93-4	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
1,2-Dichlorobenzene	95-50-1	1,100	4.7 U	4.4 UJ	8.1 UJ	3.6 U	12 U
1,2-Dichloroethane	107-06-2	20	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
1,2-Dichloropropane	78-87-5	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
1,3,5-Trimethylbenzene	108-67-8	8,400	4.7 U	4.4 UJ	8.1 UJ	3.6 U	12 U
1,3-Dichlorobenzene	541-73-1	2,400	4.7 U	4.4 UJ	8.1 UJ	3.6 U	12 U
1,4-Dichlorobenzene	106-46-7	1,800	4.7 U	4.4 UJ	8.1 UJ	3.6 U	12 U
1,4-Dioxane	123-91-1	100	94 R	87 R	160 R	15 J	230 R
2-Butanone	78-93-3	120	3.3 J	4.4 UJ	8.1 UJ	3.6 UJ	12 UJ
2-Hexanone	591-78-6	NC	4.7 UJ	4.4 UJ	8.1 UJ	3.6 UJ	12 UJ
4-Isopropyltoluene	99-87-6	NC	4.7 U	4.4 UJ	8.1 UJ	3.6 U	2.6 J
4-Methyl-2-Pentanone	108-10-1	NC	4.7 UJ	4.4 UJ	8.1 UJ	3.6 UJ	12 UJ
Acetone	67-64-1	50	35	17 J	8.1 U	3.6 U	53
Benzene	71-43-2	60	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Bromochloromethane	74-97-5	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Bromodichloromethane	75-27-4	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Bromoform	75-25-2	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Bromomethane	74-83-9	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Carbon disulfide	75-15-0	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Carbon Tetrachloride	56-23-5	760	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Chlorobenzene	108-90-7	1,100	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Chloroethane	75-00-3	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Chloroform	67-66-3	370	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Chloromethane	74-87-3	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
cis-1,2-Dichloroethene	156-59-2	250	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Cis-1,3-Dichloropropene	10061-01-5	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Cyclohexane	110-82-7	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Dibromochloromethane	124-48-1	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Dichlorodifluoromethane	75-71-8	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Ethylbenzene	100-41-4	1,000	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Isopropylbenzene	98-82-8	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	2.8 J
M,P-XYLENE	XYLMP	NC	9.4 U	8.7 UJ	16 U	7.3 U	23 U
Methyl Acetate	79-20-9	NC	2.8 J	4.4 UJ	8.1 U	3.6 U	7.7 J
Methylcyclohexane	108-87-2	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Methylene Chloride	75-09-2	50	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
MTBE	1634-04-4	930	1.2 J	4.4 UJ	8.1 U	3.6 U	12 U
n-Butylbenzene	104-51-8	12,000	4.7 U	4.4 UJ	8.1 UJ	3.6 U	12 U
n-Propylbenzene	103-65-1	3,900	4.7 U	4.4 UJ	8.1 UJ	3.6 U	12 U
o-Xylene	95-47-6	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
sec-Butylbenzene	135-98-8	11,000	4.7 U	4.4 UJ	8.1 UJ	3.6 U	12 U
Styrene	100-42-5	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Tert-Butylbenzene	98-06-6	5,900	4.7 U	4.4 UJ	8.1 UJ	3.6 U	8.3 J
Tetrachloroethene	127-18-4	1,300	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Toluene	108-88-3	700	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
trans-1,2-Dichloroethene	156-60-5	190	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Trans-1,3-Dichloropropene	10061-02-6	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Trichloroethene	79-01-6	470	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Trichlorofluoromethane	75-69-4	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Vinyl Chloride	75-01-4	20	4.7 U	4.4 UJ	8.1 U	3.6 U	12 U
Total Xylenes	NA	260	U	U	U	U	U
VOC TIC TOTALS	NA	NC	58	69.1	0	77	0

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 6A1 - Existing Surface Cover Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-141[BB]	SS-142	SS-143	SS-145	SS-146
		Sample ID	SS-141-1-2-092116	SS-142-0.5-1.5-092116	SS-143-0-0.17-091916	SS-145-0.5-1.5-092116	SS-146-0-0.17-091916
		Sample Date	9/21/2016	9/21/2016	9/19/2016	9/21/2016	9/19/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1609954	R1609954	R1609864	R1609954	R1609864
		Start Depth	1	0.5	0	0.5	0
		End Depth	2	1.5	0.17	1.5	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
1,1,2-Trichloroethane	79-00-5	NC	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
1,1-Dichloroethane	75-34-3	270	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
1,1-Dichloroethene	75-35-4	330	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
1,2,3-Trichlorobenzene	87-61-6	NC	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
1,2,4-Trichlorobenzene	120-82-1	NC	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
1,2,4-Trimethylbenzene	95-63-6	3,600	7.2 U	1.5 J	4.8 U	8.2 UJ	4.4 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
1,2-Dibromoethane	106-93-4	NC	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
1,2-Dichlorobenzene	95-50-1	1,100	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
1,2-Dichloroethane	107-06-2	20	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
1,2-Dichloropropane	78-87-5	NC	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
1,3,5-Trimethylbenzene	108-67-8	8,400	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
1,3-Dichlorobenzene	541-73-1	2,400	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
1,4-Dichlorobenzene	106-46-7	1,800	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
1,4-Dioxane	123-91-1	100	140 R	130 R	97 R	44 J	87 R
2-Butanone	78-93-3	120	7.2 U	6.5 J	4.8 UJ	8.2 U	4.4 UJ
2-Hexanone	591-78-6	NC	7.2 U	6.5 U	4.8 UJ	8.2 U	4.4 UJ
4-Isopropyltoluene	99-87-6	NC	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
4-Methyl-2-Pentanone	108-10-1	NC	7.2 U	6.5 U	4.8 UJ	8.2 U	4.4 UJ
Acetone	67-64-1	50	17	43	4.8 U	13	25
Benzene	71-43-2	60	7.2 U	0.54 J	4.8 U	8.2 U	4.4 U
Bromochloromethane	74-97-5	NC	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Bromodichloromethane	75-27-4	NC	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Bromoform	75-25-2	NC	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Bromomethane	74-83-9	NC	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Carbon disulfide	75-15-0	NC	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Carbon Tetrachloride	56-23-5	760	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Chlorobenzene	108-90-7	1,100	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Chloroethane	75-00-3	NC	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Chloroform	67-66-3	370	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Chloromethane	74-87-3	NC	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
cis-1,2-Dichloroethene	156-59-2	250	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Cis-1,3-Dichloropropene	10061-01-5	NC	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Cyclohexane	110-82-7	NC	7.2 UJ	6.5 UJ	4.8 U	8.2 UJ	4.4 U
Dibromochloromethane	124-48-1	NC	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Dichlorodifluoromethane	75-71-8	NC	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Ethylbenzene	100-41-4	1,000	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Isopropylbenzene	98-82-8	NC	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
M,P-XYLENE	XYLMP	NC	14 U	1.8 J	9.7 U	16 U	8.7 U
Methyl Acetate	79-20-9	NC	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Methylcyclohexane	108-87-2	NC	7.2 UJ	6.5 UJ	4.8 U	8.2 UJ	4.4 U
Methylene Chloride	75-09-2	50	7.2 U	2.6 J	4.8 U	1.9 J	4.4 U
MTBE	1634-04-4	930	1.6 J	6.5 U	4.8 U	8.2 U	4.4 U
n-Butylbenzene	104-51-8	12,000	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
n-Propylbenzene	103-65-1	3,900	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
o-Xylene	95-47-6	NC	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
sec-Butylbenzene	135-98-8	11,000	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
Styrene	100-42-5	NC	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Tert-Butylbenzene	98-06-6	5,900	7.2 U	6.5 U	4.8 U	8.2 UJ	4.4 U
Tetrachloroethene	127-18-4	1,300	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Toluene	108-88-3	700	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
trans-1,2-Dichloroethene	156-60-5	190	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Trans-1,3-Dichloropropene	10061-02-6	NC	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Trichloroethene	79-01-6	470	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Trichlorofluoromethane	75-69-4	NC	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Vinyl Chloride	75-01-4	20	7.2 U	6.5 U	4.8 U	8.2 U	4.4 U
Total Xylenes	NA	260	U	1.8	U	U	U
VOC TIC TOTALS	NA	NC	562	181.3	19.9	118	101.4

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 6A1 - Existing Surface Cover Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-147	SS-148	SS-150	SS-150	SS-152
		Sample ID	SS-147-0.5-1.5-092116	SS-148-0-0.17-092016	DUP-006-091916	SS-150-0-0.17-091916	SS-152-0-0.17-091916
		Sample Date	9/21/2016	9/20/2016	9/19/2016	9/19/2016	9/19/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1609954	R1609909	R1609864	R1609864	R1609864
		Start Depth	0.5	0	0	0	0
		End Depth	1.5	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	6.2 U	6.2 U	3.8 U	3.1 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U
1,1,2-Trichloroethane	79-00-5	NC	6.2 U	6.2 UJ	3.8 U	3.1 U	5 U
1,1-Dichloroethane	75-34-3	270	6.2 U	6.2 U	3.8 U	3.1 U	5 U
1,1-Dichloroethene	75-35-4	330	6.2 U	6.2 U	3.8 U	3.1 U	5 U
1,2,3-Trichlorobenzene	87-61-6	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U
1,2,4-Trichlorobenzene	120-82-1	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U
1,2,4-Trimethylbenzene	95-63-6	3,600	1.1 J	6.2 U	3.8 U	3.1 U	5 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	6.2 U	6.2 UJ	3.8 U	3.1 U	5 U
1,2-Dibromoethane	106-93-4	NC	6.2 U	6.2 UJ	3.8 U	3.1 U	5 U
1,2-Dichlorobenzene	95-50-1	1,100	6.2 U	6.2 U	3.8 U	3.1 U	5 U
1,2-Dichloroethane	107-06-2	20	6.2 U	6.2 U	3.8 U	3.1 U	5 U
1,2-Dichloropropane	78-87-5	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U
1,3,5-Trimethylbenzene	108-67-8	8,400	6.2 U	6.2 U	3.8 U	3.1 U	5 U
1,3-Dichlorobenzene	541-73-1	2,400	6.2 U	6.2 U	3.8 U	3.1 U	5 U
1,4-Dichlorobenzene	106-46-7	1,800	6.2 U	6.2 U	3.8 U	3.1 U	5 U
1,4-Dioxane	123-91-1	100	120 R	120 R	77 R	63 R	100 R
2-Butanone	78-93-3	120	6.2 U	6.2 UJ	3.8 UJ	3.1 UJ	5 UJ
2-Hexanone	591-78-6	NC	6.2 U	6.2 R	3.8 UJ	3.1 UJ	5 UJ
4-Isopropyltoluene	99-87-6	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U
4-Methyl-2-Pentanone	108-10-1	NC	6.2 U	6.2 UJ	3.8 UJ	3.1 UJ	5 UJ
Acetone	67-64-1	50	8.9	6.2 U	3.8 U	11	37
Benzene	71-43-2	60	6.2 U	6.2 U	3.8 U	3.1 U	5 U
Bromochloromethane	74-97-5	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U
Bromodichloromethane	75-27-4	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U
Bromoform	75-25-2	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U
Bromomethane	74-83-9	NC	6.2 U	6.2 R	3.8 U	3.1 U	5 U
Carbon disulfide	75-15-0	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U
Carbon Tetrachloride	56-23-5	760	6.2 U	6.2 U	3.8 U	3.1 U	5 U
Chlorobenzene	108-90-7	1,100	6.2 U	6.2 UJ	3.8 U	3.1 U	5 U
Chloroethane	75-00-3	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U
Chloroform	67-66-3	370	6.2 U	6.2 U	3.8 U	3.1 U	5 U
Chloromethane	74-87-3	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U
cis-1,2-Dichloroethene	156-59-2	250	6.2 U	6.2 U	3.8 U	3.1 U	5 U
Cis-1,3-Dichloropropene	10061-01-5	NC	6.2 U	6.2 UJ	3.8 U	3.1 U	5 U
Cyclohexane	110-82-7	NC	6.2 UJ	6.2 U	3.8 U	3.1 U	5 U
Dibromochloromethane	124-48-1	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U
Dichlorodifluoromethane	75-71-8	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U
Ethylbenzene	100-41-4	1,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U
Isopropylbenzene	98-82-8	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U
M,P-XYLENE	XYLMP	NC	12 U	12 U	7.7 U	6.3 U	10 U
Methyl Acetate	79-20-9	NC	6.2 U	6.2 R	3.8 U	3.1 U	5 U
Methylcyclohexane	108-87-2	NC	6.2 UJ	6.2 U	3.8 U	3.1 U	5 U
Methylene Chloride	75-09-2	50	0.74 J	6.2 U	3.8 U	3.1 U	5 U
MTBE	1634-04-4	930	6.2 U	6.2 U	3.8 U	3.1 U	5 U
n-Butylbenzene	104-51-8	12,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U
n-Propylbenzene	103-65-1	3,900	6.2 U	6.2 U	3.8 U	3.1 U	5 U
o-Xylene	95-47-6	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U
sec-Butylbenzene	135-98-8	11,000	6.2 U	6.2 U	3.8 U	3.1 U	5 U
Styrene	100-42-5	NC	6.2 U	6.2 UJ	3.8 U	3.1 U	5 U
Tert-Butylbenzene	98-06-6	5,900	6.2 U	6.2 U	3.8 U	3.1 U	5 U
Tetrachloroethene	127-18-4	1,300	6.2 U	6.2 U	3.8 U	3.1 U	5 U
Toluene	108-88-3	700	6.2 U	6.2 U	3.8 U	3.1 U	5 U
trans-1,2-Dichloroethene	156-60-5	190	6.2 U	6.2 U	3.8 U	3.1 U	5 U
Trans-1,3-Dichloropropene	10061-02-6	NC	6.2 U	6.2 UJ	3.8 U	3.1 U	5 U
Trichloroethene	79-01-6	470	6.2 U	6.2 U	3.8 U	3.1 U	5 U
Trichlorofluoromethane	75-69-4	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	6.2 U	6.2 U	3.8 U	3.1 U	5 U
Vinyl Chloride	75-01-4	20	6.2 U	6.2 U	3.8 U	3.1 U	5 U
Total Xylenes	NA	260	U	U	U	U	U
VOC TIC TOTALS	NA	NC	553.2	15.9	61.1	62.4	100.4

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 6A1 - Existing Surface Cover Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-153
		Sample ID	SS-153-0-0.17-091916
		Sample Date	9/19/2016
		Unit	µg/kg
		Lab SDG	R1609864
		Start Depth	0
		End Depth	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]	
VOCs			
1,1,1-Trichloroethane	71-55-6	680	4.6 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	4.6 U
1,1,2-Trichloroethane	79-00-5	NC	4.6 U
1,1-Dichloroethane	75-34-3	270	4.6 U
1,1-Dichloroethene	75-35-4	330	4.6 U
1,2,3-Trichlorobenzene	87-61-6	NC	4.6 U
1,2,4-Trichlorobenzene	120-82-1	NC	4.6 U
1,2,4-Trimethylbenzene	95-63-6	3,600	4.6 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	4.6 U
1,2-Dibromoethane	106-93-4	NC	4.6 U
1,2-Dichlorobenzene	95-50-1	1,100	4.6 U
1,2-Dichloroethane	107-06-2	20	4.6 U
1,2-Dichloropropane	78-87-5	NC	4.6 U
1,3,5-Trimethylbenzene	108-67-8	8,400	4.6 U
1,3-Dichlorobenzene	541-73-1	2,400	4.6 U
1,4-Dichlorobenzene	106-46-7	1,800	4.6 U
1,4-Dioxane	123-91-1	100	91 R
2-Butanone	78-93-3	120	4.6 UJ
2-Hexanone	591-78-6	NC	4.6 UJ
4-Isopropyltoluene	99-87-6	NC	4.6 U
4-Methyl-2-Pentanone	108-10-1	NC	4.6 UJ
Acetone	67-64-1	50	4.6 U
Benzene	71-43-2	60	4.6 U
Bromochloromethane	74-97-5	NC	4.6 U
Bromodichloromethane	75-27-4	NC	4.6 U
Bromoform	75-25-2	NC	4.6 U
Bromomethane	74-83-9	NC	4.6 U
Carbon disulfide	75-15-0	NC	4.6 U
Carbon Tetrachloride	56-23-5	760	4.6 U
Chlorobenzene	108-90-7	1,100	4.6 U
Chloroethane	75-00-3	NC	4.6 U
Chloroform	67-66-3	370	4.6 U
Chloromethane	74-87-3	NC	4.6 U
cis-1,2-Dichloroethene	156-59-2	250	4.6 U
Cis-1,3-Dichloropropene	10061-01-5	NC	4.6 U
Cyclohexane	110-82-7	NC	4.6 U
Dibromochloromethane	124-48-1	NC	4.6 U
Dichlorodifluoromethane	75-71-8	NC	4.6 U
Ethylbenzene	100-41-4	1,000	4.6 U
Isopropylbenzene	98-82-8	NC	4.6 U
M,P-XYLENE	XYLMP	NC	9.1 U
Methyl Acetate	79-20-9	NC	4.6 U
Methylcyclohexane	108-87-2	NC	4.6 U
Methylene Chloride	75-09-2	50	4.6 U
MTBE	1634-04-4	930	4.6 U
n-Butylbenzene	104-51-8	12,000	4.6 U
n-Propylbenzene	103-65-1	3,900	4.6 U
o-Xylene	95-47-6	NC	4.6 U
sec-Butylbenzene	135-98-8	11,000	4.6 U
Styrene	100-42-5	NC	4.6 U
Tert-Butylbenzene	98-06-6	5,900	4.6 U
Tetrachloroethene	127-18-4	1,300	4.6 U
Toluene	108-88-3	700	4.6 U
trans-1,2-Dichloroethene	156-60-5	190	4.6 U
Trans-1,3-Dichloropropene	10061-02-6	NC	4.6 U
Trichloroethene	79-01-6	470	4.6 U
Trichlorofluoromethane	75-69-4	NC	4.6 U
TRICHLOROTRIFLUOROETHANE	26523-64-8	NC	4.6 U
Vinyl Chloride	75-01-4	20	4.6 U
Total Xylenes	NA	260	U
VOC TIC TOTALS	NA	NC	11

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 6B - Surface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-101	SS-103	SS-105	SS-106	SS-108	SS-109	SS-111
		Sample ID	SS-101-0-0.17-092016	SS-103-0-0.17-092016	SS-105-0-0.17-091916	SS-106-0-0.17-091916	SS-108-0-0.17-091916	SS-109-0-0.17-091916	SS-111-0-0.17-091916
		Sample Date	9/20/2016	9/20/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2177436	2177436	2176860	2176860	2176860	2176860	2176860
		Start Depth	0	0	0	0	0	0	0
		End Depth	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]							
SVOCs									
1,1'-Biphenyl	92-52-4	NC	119 U	123 U	168 U	13.6 J	130 U	36.1 J	58.7 J
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	119 U	123 U	168 U	149 U	130 U	152 U	170 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	238 U	246 U	335 U	298 U	260 U	304 U	340 U
2,4,5-Trichlorophenol	95-95-4	NC	238 U	246 U	335 U	298 U	260 U	304 U	340 U
2,4,6-Trichlorophenol	88-06-2	NC	238 U	246 U	335 U	298 U	260 U	304 U	340 U
2,4-Dichlorophenol	120-83-2	NC	238 U	246 U	335 U	298 U	260 U	304 U	340 U
2,4-Dimethylphenol	105-67-9	NC	238 U	246 U	335 U	298 U	260 U	304 U	340 U
2,4-Dinitrophenol	51-28-5	NC	417 U	430 U	335 U	298 U	260 U	304 U	340 U
2,4-Dinitrotoluene	121-14-2	NC	119 U	123 U	168 U	149 U	130 U	152 U	170 U
2,6-Dinitrotoluene	606-20-2	NC	119 U	123 U	168 U	149 U	130 U	152 U	170 U
2-Chloronaphthalene	91-58-7	NC	119 U	123 U	168 U	149 U	130 U	152 U	170 U
2-Chlorophenol	95-57-8	NC	238 U	246 U	335 U	298 U	260 U	304 U	340 U
2-Methylnaphthalene	91-57-6	NC	119 U	123 U	16.4 J	145 J	11.2 J	404 J	725 J
2-Methylphenol	95-48-7	330	238 U	246 U	335 U	298 U	260 U	304 U	340 U
2-Nitroaniline	88-74-4	NC	238 U	246 U	335 U	298 U	260 U	304 U	340 U
2-Nitrophenol	88-75-5	NC	238 U	246 U	335 U	298 U	260 U	304 U	340 U
3,3-Dichlorobenzidine	91-94-1	NC	238 U	246 U	335 U	298 U	260 U	304 U	340 U
3-Nitroaniline	99-09-2	NC	238 U	246 U	335 U	298 U	260 U	304 U	340 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	238 U	246 U	335 U	298 U	260 U	304 U	340 U
4-Bromophenyl-phenylether	101-55-3	NC	119 U	123 U	168 U	149 U	130 U	152 U	170 U
4-Chloro-3-methylphenol	59-50-7	NC	238 U	246 U	335 U	298 U	260 U	304 U	340 U
4-Chloroaniline	106-47-8	NC	238 U	246 U	335 U	298 U	260 U	304 U	340 U
4-Chlorophenyl-phenylether	7005-72-3	NC	119 U	123 U	168 U	149 U	130 U	152 U	170 U
4-Nitroaniline	100-01-6	NC	238 U	246 U	335 U	298 U	260 U	304 U	340 U
4-Nitrophenol	100-02-7	NC	238 U	246 U	335 U	298 U	260 U	304 U	340 U
Acenaphthene	83-32-9	20,000	59.6 U	61.4 U	13.6 J	52 J	11.1 J	24.4 J	43.3 J
Acenaphthylene	208-96-8	100,000	59.6 U	40.4 J	48.7 J	73.4 J	16.9 J	180	148
Acetophenone	98-86-2	NC	119 U	123 U	168 U	149 U	130 U	152 U	170 U
Anthracene	120-12-7	100,000	59.6 U	79.7	96.2	233	35.1 J	247	222
Atrazine	1912-24-9	NC	119 U	123 U	168 U	149 U	130 U	24.2 J	170 U
Benzaldehyde	100-52-7	NC	238 U	246 U	108 J	175 J	59.3 J	122 J	246 J
Benzidine	92-87-5	NC	238 U	246 U	335 U	298 U	260 U	304 U	340 U
Benzo[a]anthracene	56-55-3	1,000	59.6 U	286	500	1,000	172	756	951
Benzo[a]pyrene	50-32-8	1,000	51.9 J	315	613	1,130	228	995	1,070
Benzo[b]fluoranthene	205-99-2	1,000	73.6	440	698	1,490	304	1,820	1,740
Benzo[g,h,i]perylene	191-24-2	100,000	41.9 J	239	581	696	162	693	694
Benzo[k]fluoranthene	207-08-9	800	59.6 U	160	255	527	109	597	627
Bis(2-Chloroethoxy)methane	111-91-1	NC	119 U	123 U	168 U	149 U	130 U	152 U	170 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	119 U	123 U	168 U	149 U	130 U	152 U	170 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	119 U	123 U	168 U	149 U	130 U	152 U	170 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	298 U	307 U	417	149 U	130 U	152 U	170 U
Butylbenzylphthalate	85-68-7	NC	119 U	123 U	168 U	149 U	130 U	152 U	170 U
Caprolactam	105-60-2	NC	238 U	246 U	335 UJ	298 UJ	260 UJ	304 UJ	340 UJ
Carbazole	86-74-8	NC	119 U	40.8 J	41.3 J	150	23.9 J	105 J	113 J
Chrysene	218-01-9	1,000	45.8 J	309	610	1,180	210	1,100	1,210
Dibenzo[a,h]Anthracene	53-70-3	330	59.6 U	64.4	153	171	44 J	196	182
Dibenzofuran	132-64-9	7,000	119 U	123 U	168 U	63.9 J	130 U	129 J	196
Diethylphthalate	84-66-2	NC	119 U	123 U	168 U	149 U	130 U	152 U	170 U
Dimethylphthalate	131-11-3	NC	119 U	123 U	168 U	149 U	130 U	152 U	170 U
Di-n-butylphthalate	84-74-2	NC	119 U	123 U	168 U	149 U	130 U	152 U	170 U
Di-n-octylphthalate	117-84-0	NC	119 U	123 U	168 UJ	149 UJ	130 UJ	152 UJ	170 UJ
Fluoranthene	206-44-0	100,000	102	637	1010	1,940	314	1,090	1,420
Fluorene	86-73-7	30,000	59.6 U	61.4 U	15.8 J	63.4 J	11.2 J	76 U	55 J
Hexachlorobenzene	118-74-1	330	119 U	123 U	168 U	149 U	130 U	152 U	170 U
Hexachlorobutadiene	87-68-3	NC	119 U	123 U	168 U	149 U	130 U	152 U	170 U
Hexachlorocyclopentadiene	77-47-4	NC	238 U	246 U	335 U	298 U	260 U	304 U	340 U
Hexachloroethane	67-72-1	NC	119 U	123 U	168 U	149 U	130 U	152 U	170 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	53.8 J	242	359	756	175	738	734
Isophorone	78-59-1	NC	119 U	123 U	168 U	149 U	130 U	152 U	170 U
m-Cresol & p-Cresol	MEPH1314	330**	238 U	246 U	335 U	298 U	260 U	304 U	340 U
Naphthalene	91-20-3	12,000	59.6 U	61.4 U	83.8 U	119	65.1 U	356	523
Nitrobenzene	98-95-3	NC	119 U	123 U	168 U	149 U	130 U	152 U	170 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	119 U	123 U	168 U	149 U	130 U	152 U	170 U
N-Nitrosodiphenylamine	86-30-6	NC	119 U	123 U	168 U	149 U	130 U	152 U	170 U
Pentachlorophenol	87-86-5	800	238 U	246 U	335 U	298 U	260 U	304 U	340 U
Phenanthrene	85-01-8	100,000	45.7 J	302	427	1100	147	505	975
Phenol	108-95-2	330	238 U	246 U	335 U	298 U	280	304 U	34.3 J
Pyrene	129-00-0	100,000	83.3	508	943	2,280	362	1,330	1,810
Pyridine	110-86-1	NC	238 U	246 U	335 U	298 U	260 U	304 U	340 U
Total SVOCs	NA	NC	29,248	18,867	31,100	59,940	11,427	25,483	33,122

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
**- action level for Cresol applies to individual isomers.
Exceeds Unrestricted SCO listed in Part 375.

Table 6B - Surface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-112	SS-114	SS-115	SS-116	SS-123	SS-129	SS-131
		Sample ID	SS-112-0-0.17-091916	SS-114-0-0.17-092016	SS-115-0-0.17-092016	SS-116-0-0.17-092016	SS-123-0-0.17-092016	SS-129-0-0.17-092016	SS-131-0-0.17-092016
		Sample Date	9/19/2016	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/20/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2176860	2177436	2177436	2177436	2177436	2177436	2177436
		Start Depth	0	0	0	0	0	0	0
		End Depth	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]							
SVOCs									
1,1'-Biphenyl	92-52-4	NC	79.8 J	89.1 J	115 J	40.9 J	91.8 J	144 U	107 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	139 U	139 U	140 U	169 U	150 U	144 U	107 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	277 U	277 U	281 U	337 U	299 U	288 U	215 U
2,4,5-Trichlorophenol	95-95-4	NC	277 U	277 U	281 U	337 U	299 U	288 U	215 U
2,4,6-Trichlorophenol	88-06-2	NC	277 U	277 U	281 U	337 U	299 U	288 U	215 U
2,4-Dichlorophenol	120-83-2	NC	277 U	277 U	281 U	337 U	299 U	288 U	215 U
2,4-Dimethylphenol	105-67-9	NC	277 U	277 U	281 U	337 U	299 U	288 U	215 U
2,4-Dinitrophenol	51-28-5	NC	277 U	486 U	491 U	590 U	524 U	505 U	376 U
2,4-Dinitrotoluene	121-14-2	NC	139 U	139 U	140 U	169 U	150 U	144 U	107 U
2,6-Dinitrotoluene	606-20-2	NC	139 U	139 U	140 U	169 U	150 U	144 U	107 U
2-Chloronaphthalene	91-58-7	NC	139 U	139 U	140 U	169 U	150 U	144 U	107 U
2-Chlorophenol	95-57-8	NC	277 U	277 U	281 U	337 U	299 U	288 U	215 U
2-Methylnaphthalene	91-57-6	NC	571 J	745	945	372	1190	62.1 J	25.4 J
2-Methylphenol	95-48-7	330	24.4 J	277 U	281 U	337 U	299 U	288 U	215 U
2-Nitroaniline	88-74-4	NC	277 U	277 U	281 U	337 U	299 U	288 U	215 U
2-Nitrophenol	88-75-5	NC	277 U	277 U	281 U	337 U	299 U	288 U	215 U
3,3-Dichlorobenzidine	91-94-1	NC	277 U	277 U	281 U	337 U	299 U	288 U	215 U
3-Nitroaniline	99-09-2	NC	277 U	277 U	281 U	337 U	299 U	288 U	215 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	277 U	277 U	281 U	337 U	299 U	288 U	215 U
4-Bromophenyl-phenylether	101-55-3	NC	139 U	139 U	140 U	169 U	150 U	144 U	107 U
4-Chloro-3-methylphenol	59-50-7	NC	277 U	277 U	281 U	337 U	299 U	288 U	215 U
4-Chloroaniline	106-47-8	NC	277 U	277 U	281 U	337 U	68.7 J	288 U	215 U
4-Chlorophenyl-phenylether	7005-72-3	NC	139 U	139 U	140 U	169 U	150 U	144 U	107 U
4-Nitroaniline	100-01-6	NC	277 U	277 U	281 U	337 U	299 U	288 U	215 U
4-Nitrophenol	100-02-7	NC	277 U	277 U	281 U	337 U	299 U	288 U	215 U
Acenaphthene	83-32-9	20,000	247	69.4 U	206	46.3 J	74.8 U	72.1 U	56.3
Acenaphthylene	208-96-8	100,000	357	69.4 U	70.1 U	84.3 U	212	34.1 J	66
Acetophenone	98-86-2	NC	139 U	139 U	140 U	169 U	150 U	144 U	107 U
Anthracene	120-12-7	100,000	901	73.7	587	119	331	79.3	209
Atrazine	1912-24-9	NC	139 U	139 U	140 U	169 U	150 U	144 U	107 U
Benzaldehyde	100-52-7	NC	495	277 U	281 U	335 J	532	160 J	215 U
Benzidine	92-87-5	NC	277 U	277 U	281 U	337 U	299 U	288 U	215 U
Benzo[a]anthracene	56-55-3	1,000	2,740	298	1,200	391	834	293	646
Benzo[a]pyrene	50-32-8	1,000	2,860	364	1,070	409	1,010	710	650
Benzo[b]fluoranthene	205-99-2	1,000	3,650	541	1,430	558	1,740	628	865
Benzo[g,h,i]perylene	191-24-2	100,000	1570	261	647	277	762	1,070	407
Benzo[k]fluoranthene	207-08-9	800	1,390	186	508	197	554	215	311
Bis(2-Chloroethoxy)methane	111-91-1	NC	139 U	139 U	140 U	169 U	150 U	144 U	107 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	139 U	139 U	140 U	169 U	150 U	144 U	107 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	139 U	139 U	140 U	169 U	150 U	144 U	107 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	139 U	347 U	351 U	422 U	374 U	629	268 U
Butylbenzylphthalate	85-68-7	NC	139 U	139 U	140 U	169 U	38.1 J	144 U	138
Caprolactam	105-60-2	NC	277 UJ	277 U	281 U	337 U	299 U	288 U	215 U
Carbazole	86-74-8	NC	337	54.9 J	377	80.7 J	139 J	58.7 J	90.2 J
Chrysene	218-01-9	1,000	2,910	453	1,270	556	1,230	391	716
Dibenzo[a,h]Anthracene	53-70-3	330	424	76.6	201	86.4	224	572	119
Dibenzofuran	132-64-9	7,000	233	177	384	99.7 J	320	144 U	25.3 J
Diethylphthalate	84-66-2	NC	139 U	139 U	140 U	169 U	150 U	144 U	107 U
Dimethylphthalate	131-11-3	NC	139 U	139 U	140 U	169 U	150 U	144 U	107 U
Di-n-butylphthalate	84-74-2	NC	139 U	139 U	140 U	169 U	150 U	144 U	107 U
Di-n-octylphthalate	117-84-0	NC	139 UJ	139 U	140 U	169 U	150 U	144 U	107 U
Fluoranthene	206-44-0	100,000	5,170	652	2,760	806	1,590	570	1,370
Fluorene	86-73-7	30,000	256	69.4 U	255	53.6 J	75.4	72.1 U	63
Hexachlorobenzene	118-74-1	330	139 U	139 U	140 U	169 U	150 U	144 U	107 U
Hexachlorobutadiene	87-68-3	NC	139 U	139 U	140 U	169 U	150 U	144 U	107 U
Hexachlorocyclopentadiene	77-47-4	NC	277 U	277 U	281 U	337 U	299 U	288 U	215 U
Hexachloroethane	67-72-1	NC	139 U	139 U	140 U	169 U	150 U	144 U	107 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	1,700	272	741	286	803	558	431
Isophorone	78-59-1	NC	139 U	139 U	140 U	169 U	150 U	144 U	107 U
m-Cresol & p-Cresol	MEPH1314	330**	113 J	26.4 J	24.1 J	337 U	76.1 J	288 U	215 U
Naphthalene	91-20-3	12,000	373	355	658	246	848	72.1 U	53.7 U
Nitrobenzene	98-95-3	NC	139 U	139 U	140 U	169 U	150 U	144 U	107 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	139 U	139 U	140 U	169 U	150 U	144 U	107 U
N-Nitrosodiphenylamine	86-30-6	NC	139 U	139 U	140 U	169 U	150 U	144 U	107 U
Pentachlorophenol	87-86-5	800	277 U	277 U	281 U	337 U	299 U	288 U	215 U
Phenanthrene	85-01-8	100,000	3,710	682	2,940	753	1290	291	823
Phenol	108-95-2	330	277 U	277 U	281 U	337 U	49.4 J	288 U	215 U
Pyrene	129-00-0	100,000	5,830	564	2,110	693	1,450	468	1,200
Pyridine	110-86-1	NC	277 U	277 U	281 U	337 U	299 U	288 U	215 U
Total SVOCs	NA	NC	90,150	54,024	70,382	61,944	39,759	80,810	16,241

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
**- action level for Cresol applies to individual isomers.
Exceeds Unrestricted SCO listed in Part 375.

Table 6B - Surface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-134	SS-135	SS-136	SS-140	SS-143	SS-146
		Sample ID	SS-134-0-0.17-091916	SS-135-0-0.17-091916	SS-136-0-0.17-091916	SS-140-0-0.17-091916	SS-143-0-0.17-091916	SS-146-0-0.17-091916
		Sample Date	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2176860	2176860	2176860	2176860	2176860	2176860
		Start Depth	0	0	0	0	0	0
		End Depth	0.17	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	125 U	28.2 J	124 U	29.3 J	133 U	127 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	125 U	135 U	124 U	150 U	133 U	127 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	249 U	270 U	249 U	299 U	266 U	253 U
2,4,5-Trichlorophenol	95-95-4	NC	249 U	270 U	249 U	299 U	266 U	253 U
2,4,6-Trichlorophenol	88-06-2	NC	249 U	270 U	249 U	299 U	266 U	253 U
2,4-Dichlorophenol	120-83-2	NC	249 U	270 U	249 U	299 U	266 U	253 U
2,4-Dimethylphenol	105-67-9	NC	249 U	270 U	249 U	299 U	266 U	253 U
2,4-Dinitrophenol	51-28-5	NC	249 U	270 U	249 U	299 U	266 U	253 U
2,4-Dinitrotoluene	121-14-2	NC	125 U	135 U	124 U	150 U	133 U	127 U
2,6-Dinitrotoluene	606-20-2	NC	125 U	135 U	124 U	150 U	133 U	127 U
2-Chloronaphthalene	91-58-7	NC	125 U	135 U	124 U	150 U	133 U	127 U
2-Chlorophenol	95-57-8	NC	249 U	270 U	249 U	299 U	266 U	253 U
2-Methylnaphthalene	91-57-6	NC	125 U	184 J	10.2 J	234 J	133 U	10.1 J
2-Methylphenol	95-48-7	330	249 U	28.3 J	249 U	299 U	266 U	253 U
2-Nitroaniline	88-74-4	NC	249 U	270 U	249 U	299 U	266 U	253 U
2-Nitrophenol	88-75-5	NC	249 U	270 U	249 U	299 U	266 U	253 U
3,3-Dichlorobenzidine	91-94-1	NC	249 U	270 U	249 U	299 U	266 U	253 U
3-Nitroaniline	99-09-2	NC	249 U	270 U	249 U	299 U	266 U	253 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	249 U	270 U	249 U	299 U	266 U	253 U
4-Bromophenyl-phenylether	101-55-3	NC	125 U	135 U	124 U	150 U	133 U	127 U
4-Chloro-3-methylphenol	59-50-7	NC	249 U	270 U	249 U	299 U	266 U	253 U
4-Chloroaniline	106-47-8	NC	249 U	270 U	249 U	299 U	266 U	253 U
4-Chlorophenyl-phenylether	7005-72-3	NC	125 U	135 U	124 U	150 U	133 U	127 U
4-Nitroaniline	100-01-6	NC	249 U	270 U	249 U	299 U	266 U	253 U
4-Nitrophenol	100-02-7	NC	249 U	270 U	249 U	299 U	266 U	253 U
Acenaphthene	83-32-9	20,000	62.3 U	183	62.2 U	29.2 J	66.4 U	63.3 U
Acenaphthylene	208-96-8	100,000	9 J	982	9.7 J	355	66.4 U	63.3 U
Acetophenone	98-86-2	NC	125 U	135 U	124 U	150 U	133 U	127 U
Anthracene	120-12-7	100,000	19 J	983	14.7 J	219	11.6 J	63.3 U
Atrazine	1912-24-9	NC	125 U	135 U	124 U	150 U	133 U	127 U
Benzaldehyde	100-52-7	NC	22.4 J	86.7 J	249 U	181 J	266 U	253 U
Benzidine	92-87-5	NC	249 U	270 U	249 U	299 U	266 U	253 U
Benzo[a]anthracene	56-55-3	1,000	94.5	3,920	84.7	1,020	57 J	53.2 J
Benzo[a]pyrene	50-32-8	1,000	106	3,780	92.4	1,890	69.3	66.7
Benzo[b]fluoranthene	205-99-2	1,000	134	5,840	130	3,180	107	90.1
Benzo[g,h,i]perylene	191-24-2	100,000	80.5	1,990	59.7 J	1,050	56.7 J	43 J
Benzo[k]fluoranthene	207-08-9	800	68.5	2,200	52.9 J	1,020	46.6 J	63.3 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	125 U	135 U	124 U	150 U	133 U	127 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	125 U	135 U	124 U	150 U	133 U	127 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	125 U	135 U	124 U	150 U	133 U	127 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	125 U	135 U	124 U	150 U	133 U	127 U
Butylbenzylphthalate	85-68-7	NC	125 U	135 U	124 U	150 U	133 U	127 U
Caprolactam	105-60-2	NC	249 UJ	270 UJ	249 UJ	299 UJ	266 UJ	253 UJ
Carbazole	86-74-8	NC	13 J	372	10.2 J	79.9 J	12.7 J	10.2 J
Chrysene	218-01-9	1,000	92.8	4,140	103	1,780	64.7 J	68.1
Dibenzo[a,h]Anthracene	53-70-3	330	25.8 J	582	14.7 J	358	66.4 U	12.8 J
Dibenzofuran	132-64-9	7,000	125 U	148	124 U	94.8 J	133 U	127 U
Diethylphthalate	84-66-2	NC	125 U	135 U	124 U	150 U	133 U	127 U
Dimethylphthalate	131-11-3	NC	125 U	135 U	124 U	150 U	133 U	127 U
Di-n-butylphthalate	84-74-2	NC	125 U	135 U	124 U	150 U	133 U	127 U
Di-n-octylphthalate	117-84-0	NC	125 UJ	135 UJ	124 UJ	150 UJ	133 UJ	127 UJ
Fluoranthene	206-44-0	100,000	161	8,170	161	980	123	120
Fluorene	86-73-7	30,000	62.3 U	205	62.2 U	45.8 J	66.4 U	63.3 U
Hexachlorobenzene	118-74-1	330	125 U	135 U	124 U	150 U	133 U	127 U
Hexachlorobutadiene	87-68-3	NC	125 U	135 U	124 U	150 U	133 U	127 U
Hexachlorocyclopentadiene	77-47-4	NC	249 U	270 U	249 U	299 U	266 U	253 U
Hexachloroethane	67-72-1	NC	125 U	135 U	124 U	150 U	133 U	127 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	72.4	2,340	62.1 J	1,240	65 J	47.3 J
Isophorone	78-59-1	NC	125 U	135 U	124 U	150 U	133 U	127 U
m-Cresol & p-Cresol	MEPH1314	330**	249 U	64.8 J	249 U	299 U	266 U	253 U
Naphthalene	91-20-3	12,000	62.3 U	260	62.2 U	124	66.4 U	63.3 U
Nitrobenzene	98-95-3	NC	125 U	135 U	124 U	150 U	133 U	127 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	125 U	135 U	124 U	150 U	133 U	127 U
N-Nitrosodiphenylamine	86-30-6	NC	125 U	135 U	124 U	150 U	133 U	127 U
Pentachlorophenol	87-86-5	800	249 U	270 U	249 U	299 U	266 U	253 U
Phenanthrene	85-01-8	100,000	65.9	2,920	65.2	986	49.9 J	72.2
Phenol	108-95-2	330	249 U	60 J	249 U	299 U	266 U	253 U
Pyrene	129-00-0	100,000	157	7,900	150	1,050	126	129
Pyridine	110-86-1	NC	249 U	270 U	249 U	299 U	266 U	253 U
Total SVOCs	NA	NC	4,765	23,228	11,241	49,520	10,099	3,639

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
**- action level for Cresol applies to individual isomers.
Exceeds Unrestricted SCO listed in Part 375.

Table 6B - Surface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-148	SS-149	SS-150	SS-150	SS-152	SS-153
		Sample ID	SS-148-0-0.17-092016	SS-149-0-0.17-091916	DUP-006-091916	SS-150-0-0.17-091916	SS-152-0-0.17-091916	SS-153-0-0.17-091916
		Sample Date	9/20/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2177436	2176860	2176860	2176860	2176860	2176860
		Start Depth	0	0	0	0	0	0
		End Depth	0.17	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	33.2 J	25.3 J	126 U	129 U	120 U	121 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	127 U	126 U	126 U	129 U	120 U	121 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	254 U	252 U	253 U	258 U	241 U	242 U
2,4,5-Trichlorophenol	95-95-4	NC	254 U	252 U	253 U	258 U	241 U	242 U
2,4,6-Trichlorophenol	88-06-2	NC	254 U	252 U	253 U	258 U	241 U	242 U
2,4-Dichlorophenol	120-83-2	NC	254 U	252 U	253 U	258 U	241 U	242 U
2,4-Dimethylphenol	105-67-9	NC	254 U	252 U	253 U	258 U	241 U	242 U
2,4-Dinitrophenol	51-28-5	NC	444 R	252 U	253 U	258 U	241 U	242 U
2,4-Dinitrotoluene	121-14-2	NC	127 U	126 U	126 U	129 U	120 U	121 U
2,6-Dinitrotoluene	606-20-2	NC	127 U	126 U	126 U	129 U	120 U	121 U
2-Chloronaphthalene	91-58-7	NC	127 U	126 U	126 U	129 U	120 U	121 U
2-Chlorophenol	95-57-8	NC	254 U	252 U	253 U	258 U	241 U	242 U
2-Methylnaphthalene	91-57-6	NC	233	180 J	34 J	22.4 J	16.1 J	8.3 J
2-Methylphenol	95-48-7	330	254 U	252 U	253 U	258 U	241 U	242 U
2-Nitroaniline	88-74-4	NC	254 U	252 U	253 U	258 U	241 U	242 U
2-Nitrophenol	88-75-5	NC	254 U	252 U	253 U	258 U	241 U	242 U
3,3-Dichlorobenzidine	91-94-1	NC	254 U	252 U	253 U	258 U	241 U	242 U
3-Nitroaniline	99-09-2	NC	254 U	252 U	253 U	258 U	241 U	242 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	254 UJ	252 U	253 U	258 U	241 U	242 U
4-Bromophenyl-phenylether	101-55-3	NC	127 U	126 U	126 U	129 U	120 U	121 U
4-Chloro-3-methylphenol	59-50-7	NC	254 U	252 U	253 U	258 U	241 U	242 U
4-Chloroaniline	106-47-8	NC	254 U	252 U	253 U	258 U	241 U	242 U
4-Chlorophenyl-phenylether	7005-72-3	NC	127 U	126 U	126 U	129 U	120 U	121 U
4-Nitroaniline	100-01-6	NC	254 U	252 U	253 U	258 U	241 U	242 U
4-Nitrophenol	100-02-7	NC	254 U	252 U	253 U	258 U	241 U	242 U
Acenaphthene	83-32-9	20,000	48.2 J	63.2	63.2 U	64.5 U	60.1 U	60.6 U
Acenaphthylene	208-96-8	100,000	105	1,050	19.5 J	15.3 J	41.3 J	13.4 J
Acetophenone	98-86-2	NC	127 U	126 U	126 U	129 U	120 U	121 U
Anthracene	120-12-7	100,000	199	722	24.4 J	16.8 J	31.4 J	13.8 J
Atrazine	1912-24-9	NC	127 U	126 U	126 U	129 U	120 U	121 U
Benzaldehyde	100-52-7	NC	169 J	88.1 J	253 U	258 U	241 U	242 U
Benzidine	92-87-5	NC	254 R	252 U	253 U	258 U	241 U	242 U
Benzo[a]anthracene	56-55-3	1,000	842	2,970	109	94.7	158	56.7 J
Benzo[a]pyrene	50-32-8	1,000	898	3,100	119	119	190	62.5
Benzo[b]fluoranthene	205-99-2	1,000	1,270	4,800	169	162	308	91
Benzo[g,h,i]perylene	191-24-2	100,000	654	1,790	80.1	77.5	124	46.1 J
Benzo[k]fluoranthene	207-08-9	800	456	2,040	73.3	59.3 J	113	60.6 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	127 U	126 U	126 U	129 U	120 U	121 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	127 U	126 U	126 U	129 U	120 U	121 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	127 U	126 U	126 U	129 U	120 U	121 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	317 U	126 U	126 U	129 U	120 U	121 U
Butylbenzylphthalate	85-68-7	NC	127 U	126 U	126 U	129 U	120 U	121 U
Caprolactam	105-60-2	NC	254 U	252 UJ	253 UJ	258 UJ	241 UJ	242 UJ
Carbazole	86-74-8	NC	134	280	13 J	13.8 J	19.9 J	11.2 J
Chrysene	218-01-9	1,000	1,080	3,460	133	120	215	61.1
Dibenzo[a,h]Anthracene	53-70-3	330	185	540	21.6 J	23 J	39.4 J	13.1 J
Dibenzofuran	132-64-9	7,000	88.6 J	116 J	126 U	129 U	120 U	121 U
Diethylphthalate	84-66-2	NC	127 U	126 U	126 U	129 U	120 U	121 U
Dimethylphthalate	131-11-3	NC	127 U	126 U	126 U	129 U	120 U	121 U
Di-n-butylphthalate	84-74-2	NC	127 U	126 U	126 U	129 U	120 U	121 U
Di-n-octylphthalate	117-84-0	NC	127 U	126 UJ	126 UJ	129 UJ	120 UJ	121 UJ
Fluoranthene	206-44-0	100,000	1,700	5,930	235	202	267	123
Fluorene	86-73-7	30,000	69.6	140	63.2 U	64.5 U	60.1 U	60.6 U
Hexachlorobenzene	118-74-1	330	127 U	126 U	126 U	129 U	120 U	121 U
Hexachlorobutadiene	87-68-3	NC	127 U	126 U	126 U	129 U	120 U	121 U
Hexachlorocyclopentadiene	77-47-4	NC	254 UJ	252 U	253 U	258 U	241 U	242 U
Hexachloroethane	67-72-1	NC	127 U	126 U	126 U	129 U	120 U	121 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	693	2,130	79.6	75.4	127	44.6 J
Isophorone	78-59-1	NC	127 U	126 U	126 U	129 U	120 U	121 U
m-Cresol & p-Cresol	MEPH1314	330**	254 U	252 U	253 U	258 U	241 U	242 U
Naphthalene	91-20-3	12,000	157	239	63.2 U	64.5 U	60.1 U	60.6 U
Nitrobenzene	98-95-3	NC	127 U	126 U	126 U	129 U	120 U	121 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	127 U	126 U	126 U	129 U	120 U	121 U
N-Nitrosodiphenylamine	86-30-6	NC	127 U	126 U	126 U	129 U	120 U	121 U
Pentachlorophenol	87-86-5	800	254 U	252 U	253 U	258 U	241 U	242 U
Phenanthrene	85-01-8	100,000	1,040	1830	96.8	94.7	113	64.6
Phenol	108-95-2	330	254 U	252 U	253 U	258 U	241 U	242 U
Pyrene	129-00-0	100,000	1,450	6150	235	216	336	130
Pyridine	110-86-1	NC	254 U	252 U	253 U	258 U	241 U	242 U
Total SVOCs	NA	NC	83,050	33,490	17,061	12,510	9,229	10,060

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
**- action level for Cresol applies to individual isomers.
Exceeds Unrestricted SCO listed in Part 375.

Table 6B1 - Existing Surface Cover Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SS-101	SS-103	SS-105	SS-106	SS-108	SS-109
	Sample ID	SS-101-0-0.17-092016	SS-103-0-0.17-092016	SS-105-0-0.17-091916	SS-106-0-0.17-091916	SS-108-0-0.17-091916	SS-109-0-0.17-091916
	Sample Date	9/20/2016	9/20/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016
	Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	Lab SDG	2177436	2177436	2176860	2176860	2176860	2176860
	Start Depth	0	0	0	0	0	0
	End Depth	0.17	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
SVOCs							
1,1'-Biphenyl	92-52-4	NC	119 U	123 U	168 U	13.6 J	130 U	36.1 J
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	119 U	123 U	168 U	149 U	130 U	152 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	238 U	246 U	335 U	298 U	260 U	304 U
2,4,5-Trichlorophenol	95-95-4	NC	238 U	246 U	335 U	298 U	260 U	304 U
2,4,6-Trichlorophenol	88-06-2	NC	238 U	246 U	335 U	298 U	260 U	304 U
2,4-Dichlorophenol	120-83-2	NC	238 U	246 U	335 U	298 U	260 U	304 U
2,4-Dimethylphenol	105-67-9	NC	238 U	246 U	335 U	298 U	260 U	304 U
2,4-Dinitrophenol	51-28-5	NC	417 U	430 U	335 U	298 U	260 U	304 U
2,4-Dinitrotoluene	121-14-2	NC	119 U	123 U	168 U	149 U	130 U	152 U
2,6-Dinitrotoluene	606-20-2	NC	119 U	123 U	168 U	149 U	130 U	152 U
2-Chloronaphthalene	91-58-7	NC	119 U	123 U	168 U	149 U	130 U	152 U
2-Chlorophenol	95-57-8	NC	238 U	246 U	335 U	298 U	260 U	304 U
2-Methylnaphthalene	91-57-6	NC	119 U	123 U	16.4 J	145 J	11.2 J	404 J
2-Methylphenol	95-48-7	330	238 U	246 U	335 U	298 U	260 U	304 U
2-Nitroaniline	88-74-4	NC	238 U	246 U	335 U	298 U	260 U	304 U
2-Nitrophenol	88-75-5	NC	238 U	246 U	335 U	298 U	260 U	304 U
3,3-Dichlorobenzidine	91-94-1	NC	238 U	246 U	335 U	298 U	260 U	304 U
3-Nitroaniline	99-09-2	NC	238 U	246 U	335 U	298 U	260 U	304 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	238 U	246 U	335 U	298 U	260 U	304 U
4-Bromophenyl-phenylether	101-55-3	NC	119 U	123 U	168 U	149 U	130 U	152 U
4-Chloro-3-methylphenol	59-50-7	NC	238 U	246 U	335 U	298 U	260 U	304 U
4-Chloroaniline	106-47-8	NC	238 U	246 U	335 U	298 U	260 U	304 U
4-Chlorophenyl-phenylether	7005-72-3	NC	119 U	123 U	168 U	149 U	130 U	152 U
4-Nitroaniline	100-01-6	NC	238 U	246 U	335 U	298 U	260 U	304 U
4-Nitrophenol	100-02-7	NC	238 U	246 U	335 U	298 U	260 U	304 U
Acenaphthene	83-32-9	20,000	59.6 U	61.4 U	13.6 J	52 J	11.1 J	24.4 J
Acenaphthylene	208-96-8	100,000	59.6 U	40.4 J	48.7 J	73.4 J	16.9 J	180
Acetophenone	98-86-2	NC	119 U	123 U	168 U	149 U	130 U	152 U
Anthracene	120-12-7	100,000	59.6 U	79.7	96.2	233	35.1 J	247
Atrazine	1912-24-9	NC	119 U	123 U	168 U	149 U	130 U	24.2 J
Benzaldehyde	100-52-7	NC	238 U	246 U	108 J	175 J	59.3 J	122 J
Benzidine	92-87-5	NC	238 U	246 U	335 U	298 U	260 U	304 U
Benzo[a]anthracene	56-55-3	1,000	59.6 U	286	500	1,000	172	756
Benzo[a]pyrene	50-32-8	1,000	51.9 J	315	613	1,130	228	995
Benzo[b]fluoranthene	205-99-2	1,000	73.6	440	698	1,490	304	1,820
Benzo[g,h,i]perylene	191-24-2	100,000	41.9 J	239	581	696	162	693
Benzo[k]fluoranthene	207-08-9	800	59.6 U	160	255	527	109	597
Bis(2-Chloroethoxy)methane	111-91-1	NC	119 U	123 U	168 U	149 U	130 U	152 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	119 U	123 U	168 U	149 U	130 U	152 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	119 U	123 U	168 U	149 U	130 U	152 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	298 U	307 U	417	149 U	130 U	152 U
Butylbenzylphthalate	85-68-7	NC	119 U	123 U	168 U	149 U	130 U	152 U
Caprolactam	105-60-2	NC	238 U	246 U	335 UJ	298 UJ	260 UJ	304 UJ
Carbazole	86-74-8	NC	119 U	40.8 J	41.3 J	150	23.9 J	105 J
Chrysene	218-01-9	1,000	45.8 J	309	610	1,180	210	1,100
Dibenzo[a,h]Anthracene	53-70-3	330	59.6 U	64.4	153	171	44 J	196
Dibenzofuran	132-64-9	7,000	119 U	123 U	168 U	63.9 J	130 U	129 J
Diethylphthalate	84-66-2	NC	119 U	123 U	168 U	149 U	130 U	152 U
Dimethylphthalate	131-11-3	NC	119 U	123 U	168 U	149 U	130 U	152 U
Di-n-butylphthalate	84-74-2	NC	119 U	123 U	168 U	149 U	130 U	152 U
Di-n-octylphthalate	117-84-0	NC	119 U	123 U	168 UJ	149 UJ	130 UJ	152 UJ
Fluoranthene	206-44-0	100,000	102	637	1010	1,940	314	1,090
Fluorene	86-73-7	30,000	59.6 U	61.4 U	15.8 J	63.4 J	11.2 J	76 U
Hexachlorobenzene	118-74-1	330	119 U	123 U	168 U	149 U	130 U	152 U
Hexachlorobutadiene	87-68-3	NC	119 U	123 U	168 U	149 U	130 U	152 U
Hexachlorocyclopentadiene	77-47-4	NC	238 U	246 U	335 U	298 U	260 U	304 U
Hexachloroethane	67-72-1	NC	119 U	123 U	168 U	149 U	130 U	152 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	53.8 J	242	359	756	175	738
Isophorone	78-59-1	NC	119 U	123 U	168 U	149 U	130 U	152 U
m-Cresol & p-Cresol	MEPH1314	330**	238 U	246 U	335 U	298 U	260 U	304 U
Naphthalene	91-20-3	12,000	59.6 U	61.4 U	83.8 U	119	65.1 U	356
Nitrobenzene	98-95-3	NC	119 U	123 U	168 U	149 U	130 U	152 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	119 U	123 U	168 U	149 U	130 U	152 U
N-Nitrosodiphenylamine	86-30-6	NC	119 U	123 U	168 U	149 U	130 U	152 U
Pentachlorophenol	87-86-5	800	238 U	246 U	335 U	298 U	260 U	304 U
Phenanthrene	85-01-8	100,000	45.7 J	302	427	1100	147	505
Phenol	108-95-2	330	238 U	246 U	335 U	298 U	280	304 U
Pyrene	129-00-0	100,000	83.3	508	943	2,280	362	1,330
Pyridine	110-86-1	NC	238 U	246 U	335 U	298 U	260 U	304 U
Total SVOCs	NA	NC	29,248	18,867	31,100	59,940	11,427	25,483

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.

[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 6B1 - Existing Surface Cover Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SS-110	SS-111	SS-112	SS-113	SS-113	SS-114
	Sample ID	SS-110-1-2-092116	SS-111-0-0.17-091916	SS-112-0-0.17-091916	DUP-005-092116	SS-113-1-2-092116	SS-114-0-0.17-092016
	Sample Date	9/21/2016	9/19/2016	9/19/2016	9/21/2016	9/21/2016	9/20/2016
	Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	Lab SDG	2177433	2176860	2176860	2177433	2177433	2177436
	Start Depth	1	0	0	1	1	0
	End Depth	2	0.17	0.17	2	2	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
SVOCs							
1,1'-Biphenyl	92-52-4	NC	103 J	58.7 J	79.8 J	28.9 J	61.2 J	89.1 J
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	108 U	170 U	139 U	106 U	108 U	139 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	217 U	340 U	277 U	212 U	216 U	277 U
2,4,5-Trichlorophenol	95-95-4	NC	217 U	340 U	277 U	212 U	216 U	277 U
2,4,6-Trichlorophenol	88-06-2	NC	217 U	340 U	277 U	212 U	216 U	277 U
2,4-Dichlorophenol	120-83-2	NC	217 U	340 U	277 U	212 U	216 U	277 U
2,4-Dimethylphenol	105-67-9	NC	217 U	340 U	277 U	212 U	216 U	277 U
2,4-Dinitrophenol	51-28-5	NC	217 UJ	340 U	277 U	371 U	216 UJ	486 U
2,4-Dinitrotoluene	121-14-2	NC	108 U	170 U	139 U	106 U	108 U	139 U
2,6-Dinitrotoluene	606-20-2	NC	108 U	170 U	139 U	106 U	108 U	139 U
2-Chloronaphthalene	91-58-7	NC	108 U	170 U	139 U	106 U	108 U	139 U
2-Chlorophenol	95-57-8	NC	217 U	340 U	277 U	212 U	216 U	277 U
2-Methylnaphthalene	91-57-6	NC	1150 J	725 J	571 J	155	434 J	745
2-Methylphenol	95-48-7	330	217 U	340 U	24.4 J	212 U	216 U	277 U
2-Nitroaniline	88-74-4	NC	217 U	340 U	277 U	212 U	216 U	277 U
2-Nitrophenol	88-75-5	NC	217 U	340 U	277 U	212 U	216 U	277 U
3,3-Dichlorobenzidine	91-94-1	NC	217 U	340 U	277 U	212 U	216 U	277 U
3-Nitroaniline	99-09-2	NC	217 U	340 U	277 U	212 U	216 U	277 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	217 U	340 U	277 U	212 U	216 U	277 U
4-Bromophenyl-phenylether	101-55-3	NC	108 U	170 U	139 U	106 U	108 U	139 U
4-Chloro-3-methylphenol	59-50-7	NC	217 U	340 U	277 U	212 U	216 U	277 U
4-Chloroaniline	106-47-8	NC	217 U	340 U	277 U	212 U	216 U	277 U
4-Chlorophenyl-phenylether	7005-72-3	NC	108 U	170 U	139 U	106 U	108 U	139 U
4-Nitroaniline	100-01-6	NC	217 U	340 U	277 U	212 U	216 U	277 U
4-Nitrophenol	100-02-7	NC	217 UJ	340 U	277 U	212 U	216 UJ	277 U
Acenaphthene	83-32-9	20,000	54.2 U	43.3 J	247	36.6 J	63.9	69.4 U
Acenaphthylene	208-96-8	100,000	54.2 U	148	357	44.8 J	54.1 U	69.4 U
Acetophenone	98-86-2	NC	123	170 U	139 U	106 U	108 U	139 U
Anthracene	120-12-7	100,000	89.2	222	901	126	224	73.7
Atrazine	1912-24-9	NC	108 U	170 U	139 U	106 U	108 U	139 U
Benzaldehyde	100-52-7	NC	132 J	246 J	495	212 U	77.6 J	277 U
Benzidine	92-87-5	NC	217 U	340 U	277 U	212 U	216 U	277 U
Benzo[a]anthracene	56-55-3	1,000	194	951	2,740	385	642	298
Benzo[a]pyrene	50-32-8	1,000	193	1,070	2,860	367	593	364
Benzo[b]fluoranthene	205-99-2	1,000	366 J	1,740	3,650	507	831 J	541
Benzo[g,h,i]perylene	191-24-2	100,000	175	694	1570	247	365	261
Benzo[k]fluoranthene	207-08-9	800	106 J	627	1,390	185	312 J	186
Bis(2-Chloroethoxy)methane	111-91-1	NC	108 U	170 U	139 U	106 U	108 U	139 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	108 U	170 U	139 U	106 U	108 U	139 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	108 U	170 U	139 U	106 U	108 U	139 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	8.8 J	170 U	139 U	265 U	108 U	347 U
Butylbenzylphthalate	85-68-7	NC	108 U	170 U	139 U	106 U	108 U	139 U
Caprolactam	105-60-2	NC	217 U	340 UJ	277 UJ	212 U	216 U	277 U
Carbazole	86-74-8	NC	48.5 J	113 J	337	62.4 J	96.2 J	54.9 J
Chrysene	218-01-9	1,000	369	1,210	2,910	437	720	453
Dibenzo[a,h]Anthracene	53-70-3	330	55.2	182	424	76.3	105	76.6
Dibenzofuran	132-64-9	7,000	280	196	233	66.3 J	142	177
Diethylphthalate	84-66-2	NC	108 U	170 U	139 U	106 U	108 U	139 U
Dimethylphthalate	131-11-3	NC	108 U	170 U	139 U	106 U	108 U	139 U
Di-n-butylphthalate	84-74-2	NC	108 U	170 U	139 U	106 U	108 U	139 U
Di-n-octylphthalate	117-84-0	NC	108 UJ	170 UJ	139 UJ	106 U	108 UJ	139 U
Fluoranthene	206-44-0	100,000	225	1,420	5,170	777	1280	652
Fluorene	86-73-7	30,000	32.4 J	55 J	256	41.3 J	75.8	69.4 U
Hexachlorobenzene	118-74-1	330	108 U	170 U	139 U	106 U	108 U	139 U
Hexachlorobutadiene	87-68-3	NC	108 U	170 U	139 U	106 U	108 U	139 U
Hexachlorocyclopentadiene	77-47-4	NC	217 U	340 U	277 U	212 U	216 U	277 U
Hexachloroethane	67-72-1	NC	108 U	170 U	139 U	106 U	108 U	139 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	143	734	1,700	269	411	272
Isophorone	78-59-1	NC	108 U	170 U	139 U	106 U	108 U	139 U
m-Cresol & p-Cresol	MEPH1314	330**	18 J	340 U	113 J	212 U	8.7 J	26.4 J
Naphthalene	91-20-3	12,000	603 J	523	373	101	281 J	355
Nitrobenzene	98-95-3	NC	108 U	170 U	139 U	106 U	108 U	139 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	108 U	170 U	139 U	106 U	108 U	139 U
N-Nitrosodiphenylamine	86-30-6	NC	108 U	170 U	139 U	106 U	108 U	139 U
Pentachlorophenol	87-86-5	800	217 U	340 U	277 U	212 U	216 U	277 U
Phenanthrene	85-01-8	100,000	919	975	3,710	600	1,200	682
Phenol	108-95-2	330	217 U	34.3 J	277 U	212 U	216 U	277 U
Pyrene	129-00-0	100,000	314 J	1,810	5,830	640	1,200 J	564
Pyridine	110-86-1	NC	217 U	340 U	277 U	212 U	216 U	277 U
Total SVOCs	NA	NC	15,166	33,122	90,150	32,425	11,383	54,024

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.

[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 6B1 - Existing Surface Cover Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-115	SS-116	SS-117	SS-118	SS-119	SS-120
		Sample ID	SS-115-0-0.17-092016	SS-116-0-0.17-092016	SS-117-1-1.5-092116	SS-118-1-2-092116	SS-119-0-0.5-092116	SS-120-0.5-1-092116
		Sample Date	9/20/2016	9/20/2016	9/21/2016	9/21/2016	9/21/2016	9/21/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2177436	2177436	2177433	2177433	2177433	2177433
		Start Depth	0	0	1	1	0	0.5
		End Depth	0.17	0.17	1.5	2	0.5	1
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	115 J	40.9 J	20.5 J	109 U	124 U	116 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	140 U	169 U	109 U	109 U	124 U	116 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	281 U	337 U	217 U	218 U	248 U	231 U
2,4,5-Trichlorophenol	95-95-4	NC	281 U	337 U	217 U	218 U	248 U	231 U
2,4,6-Trichlorophenol	88-06-2	NC	281 U	337 U	217 U	218 U	248 U	231 U
2,4-Dichlorophenol	120-83-2	NC	281 U	337 U	217 U	218 U	248 U	231 U
2,4-Dimethylphenol	105-67-9	NC	281 U	337 U	217 U	218 U	248 U	231 U
2,4-Dinitrophenol	51-28-5	NC	491 U	590 U	217 UJ	381 U	433 U	404 U
2,4-Dinitrotoluene	121-14-2	NC	140 U	169 U	109 U	109 U	124 U	116 U
2,6-Dinitrotoluene	606-20-2	NC	140 U	169 U	109 U	109 U	124 U	116 U
2-Chloronaphthalene	91-58-7	NC	140 U	169 U	109 U	109 U	124 U	116 U
2-Chlorophenol	95-57-8	NC	281 U	337 U	217 U	218 U	248 U	231 U
2-Methylnaphthalene	91-57-6	NC	945	372	197 J	103 J	22.6 J	280
2-Methylphenol	95-48-7	330	281 U	337 U	217 U	218 U	248 U	231 U
2-Nitroaniline	88-74-4	NC	281 U	337 U	217 U	218 U	248 U	231 U
2-Nitrophenol	88-75-5	NC	281 U	337 U	217 U	218 U	248 U	231 U
3,3-Dichlorobenzidine	91-94-1	NC	281 U	337 U	217 U	218 U	248 U	231 U
3-Nitroaniline	99-09-2	NC	281 U	337 U	217 U	218 U	248 U	231 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	281 U	337 U	217 U	218 U	248 U	231 U
4-Bromophenyl-phenylether	101-55-3	NC	140 U	169 U	109 U	109 U	124 U	116 U
4-Chloro-3-methylphenol	59-50-7	NC	281 U	337 U	217 U	218 U	248 U	231 U
4-Chloroaniline	106-47-8	NC	281 U	337 U	217 U	218 U	248 U	231 U
4-Chlorophenyl-phenylether	7005-72-3	NC	140 U	169 U	109 U	109 U	124 U	116 U
4-Nitroaniline	100-01-6	NC	281 U	337 U	217 U	218 U	248 U	231 U
4-Nitrophenol	100-02-7	NC	281 U	337 U	217 UJ	218 U	248 U	231 U
Acenaphthene	83-32-9	20,000	206	46.3 J	54.4 U	54.4 U	61.9 U	34.7 J
Acenaphthylene	208-96-8	100,000	70.1 U	84.3 U	54.4 U	22.2 J	54.2 J	57.8 U
Acetophenone	98-86-2	NC	140 U	169 U	109 U	109 U	124 U	116 U
Anthracene	120-12-7	100,000	587	119	23.6 J	27.1 J	76.1	104
Atrazine	1912-24-9	NC	140 U	169 U	109 U	109 U	124 U	116 U
Benzaldehyde	100-52-7	NC	281 U	335 J	51.3 J	218 U	64.9 J	35.3 J
Benzidine	92-87-5	NC	281 U	337 U	217 U	218 U	248 U	231 U
Benzo[a]anthracene	56-55-3	1,000	1,200	391	81.1	68.4	354	331
Benzo[a]pyrene	50-32-8	1,000	1,070	409	64.9	63.7	475	302
Benzo[b]fluoranthene	205-99-2	1,000	1,430	558	115 J	95	655	433
Benzo[g,h,i]perylene	191-24-2	100,000	647	277	53.5 J	44.2 J	422	210
Benzo[k]fluoranthene	207-08-9	800	508	197	30.3 J	32.7 J	240	151
Bis(2-Chloroethoxy)methane	111-91-1	NC	140 U	169 U	109 U	109 U	124 U	116 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	140 U	169 U	109 U	109 U	124 U	116 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	140 U	169 U	109 U	109 U	124 U	116 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	351 U	422 U	11.7 J	272 U	309 U	289 U
Butylbenzylphthalate	85-68-7	NC	140 U	169 U	109 U	109 U	124 U	116 U
Caprolactam	105-60-2	NC	281 U	337 U	217 U	218 U	248 U	231 U
Carbazole	86-74-8	NC	377	80.7 J	12.7 J	17 J	33.6 J	51.5 J
Chrysene	218-01-9	1,000	1,270	556	169	91	437	417
Dibenzo[a,h]Anthracene	53-70-3	330	201	86.4	26.4 J	54.4 U	102	71.7
Dibenzofuran	132-64-9	7,000	384	99.7 J	64.3 J	31.9 J	124 U	86.7 J
Diethylphthalate	84-66-2	NC	140 U	169 U	109 U	109 U	124 U	116 U
Dimethylphthalate	131-11-3	NC	140 U	169 U	109 U	109 U	124 U	116 U
Di-n-butylphthalate	84-74-2	NC	140 U	169 U	109 U	109 U	124 U	116 U
Di-n-octylphthalate	117-84-0	NC	140 U	169 U	109 UJ	109 U	124 U	116 U
Fluoranthene	206-44-0	100,000	2,760	806	104	129	663	619
Fluorene	86-73-7	30,000	255	53.6 J	11.2 J	54.4 U	61.9 U	37.6 J
Hexachlorobenzene	118-74-1	330	140 U	169 U	109 U	109 U	124 U	116 U
Hexachlorobutadiene	87-68-3	NC	140 U	169 U	109 U	109 U	124 U	116 U
Hexachlorocyclopentadiene	77-47-4	NC	281 U	337 U	217 U	218 U	248 U	231 U
Hexachloroethane	67-72-1	NC	140 U	169 U	109 U	109 U	124 U	116 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	741	286	41.1 J	42.6 J	408	206
Isophorone	78-59-1	NC	140 U	169 U	109 U	109 U	124 U	116 U
m-Cresol & p-Cresol	MEPH1314	330**	24.1 J	337 U	217 U	218 U	43.5 J	231 U
Naphthalene	91-20-3	12,000	658	246	120 J	59.7	61.9 U	175
Nitrobenzene	98-95-3	NC	140 U	169 U	109 U	109 U	124 U	116 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	140 U	169 U	109 U	109 U	124 U	116 U
N-Nitrosodiphenylamine	86-30-6	NC	140 U	169 U	109 U	109 U	124 U	116 U
Pentachlorophenol	87-86-5	800	281 U	337 U	217 U	218 U	248 U	231 U
Phenanthrene	85-01-8	100,000	2,940	753	386	166	247	604
Phenol	108-95-2	330	281 U	337 U	217 U	218 U	248 U	231 U
Pyrene	129-00-0	100,000	2,110	693	127 J	110	620	537
Pyridine	110-86-1	NC	281 U	337 U	217 U	218 U	248 U	231 U
Total SVOCs	NA	NC	70,382	61,944	6,062	15,426	47,050	17,270

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.

[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 6B1 - Existing Surface Cover Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

Sample Location			SS-122	SS-123	SS-124	SS-125	SS-129	SS-130
Sample ID			SS-122-1.5-2-092116	SS-123-0-0.17-092016	SS-124-1-2-092216	SS-125-1-2-092216	SS-129-0-0.17-092016	SS-130-0.5-1.5-092216
Sample Date			9/21/2016	9/20/2016	9/22/2016	9/22/2016	9/20/2016	9/22/2016
Unit			µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Lab SDG			2177433	2177436	2177432	2177432	2177436	2177432
Start Depth			1.5	0	1	1	0	0.5
End Depth			2	0.17	2	2	0.17	1.5
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	74.8 J	91.8 J	37 J	147	144 U	35 J
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	122 U	150 U	115 U	111 U	144 U	117 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	243 U	299 U	230 U	222 U	288 U	235 U
2,4,5-Trichlorophenol	95-95-4	NC	243 U	299 U	230 U	222 U	288 U	235 U
2,4,6-Trichlorophenol	88-06-2	NC	243 U	299 U	230 U	222 U	288 U	235 U
2,4-Dichlorophenol	120-83-2	NC	243 U	299 U	230 U	222 U	288 U	235 U
2,4-Dimethylphenol	105-67-9	NC	243 U	299 U	230 UJ	222 U	288 U	235 U
2,4-Dinitrophenol	51-28-5	NC	425 U	524 U	230 U	222 U	505 U	235 U
2,4-Dinitrotoluene	121-14-2	NC	122 U	150 U	115 UJ	111 U	144 U	117 U
2,6-Dinitrotoluene	606-20-2	NC	122 U	150 U	115 U	111 U	144 U	117 U
2-Chloronaphthalene	91-58-7	NC	122 U	150 U	115 U	111 U	144 U	117 U
2-Chlorophenol	95-57-8	NC	243 U	299 U	230 U	222 U	288 U	235 U
2-Methylnaphthalene	91-57-6	NC	600	1190	297 J	2070 J	62.1 J	258 J
2-Methylphenol	95-48-7	330	243 U	299 U	230 U	222 U	288 U	235 U
2-Nitroaniline	88-74-4	NC	243 U	299 U	230 U	222 U	288 U	235 U
2-Nitrophenol	88-75-5	NC	243 U	299 U	230 U	222 U	288 U	235 U
3,3-Dichlorobenzidine	91-94-1	NC	243 U	299 U	230 UJ	222 U	288 U	235 U
3-Nitroaniline	99-09-2	NC	243 U	299 U	230 UJ	222 U	288 U	235 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	243 U	299 U	230 UJ	222 U	288 U	235 U
4-Bromophenyl-phenylether	101-55-3	NC	122 U	150 U	115 U	111 U	144 U	117 U
4-Chloro-3-methylphenol	59-50-7	NC	243 U	299 U	230 U	222 U	288 U	235 U
4-Chloroaniline	106-47-8	NC	243 U	68.7 J	230 UJ	222 U	288 U	235 U
4-Chlorophenyl-phenylether	7005-72-3	NC	122 U	150 U	115 U	111 U	144 U	117 U
4-Nitroaniline	100-01-6	NC	243 U	299 U	230 U	222 U	288 U	235 U
4-Nitrophenol	100-02-7	NC	243 U	299 U	230 U	222 U	288 U	235 U
Acenaphthene	83-32-9	20,000	633	74.8 U	52.1 J	189	72.1 U	24.2 J
Acenaphthylene	208-96-8	100,000	60.8 U	212	867	55.5 U	34.1 J	58.7 U
Acetophenone	98-86-2	NC	122 U	150 U	115 U	111 U	144 U	117 U
Anthracene	120-12-7	100,000	1,340	331	1,040	560	79.3	44.7 J
Atrazine	1912-24-9	NC	122 U	150 U	115 U	111 U	144 U	117 U
Benzaldehyde	100-52-7	NC	46.1 J	532	59.6 J	222 U	160 J	235 U
Benzidine	92-87-5	NC	243 U	299 U	230 R	222 U	288 U	235 U
Benzo[a]anthracene	56-55-3	1,000	1,650	834	1,410	1,540	293	144
Benzo[a]pyrene	50-32-8	1,000	1,330	1,010	2,610	1,750	710	150
Benzo[b]fluoranthene	205-99-2	1,000	1,670	1,740	4,350	2,660	628	214
Benzo[g,h,i]perylene	191-24-2	100,000	650	762	2,320	1,320	1,070	132
Benzo[k]fluoranthene	207-08-9	800	675	554	1,310	918	215	85.8
Bis(2-Chloroethoxy)methane	111-91-1	NC	122 U	150 U	115 U	111 U	144 U	117 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	122 U	150 U	115 U	111 U	144 U	117 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	122 U	150 U	115 U	111 U	144 U	117 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	304 U	374 U	115 U	111 U	629	117 U
Butylbenzylphthalate	85-68-7	NC	122 U	38.1 J	115 U	111 U	144 U	117 U
Caprolactam	105-60-2	NC	243 U	299 U	230 UJ	222 UJ	288 U	235 UJ
Carbazole	86-74-8	NC	640	139 J	208	304	58.7 J	27.2 J
Chrysene	218-01-9	1,000	1,640	1,230	1,970	2,130	391	200
Dibenzo[a,h]Anthracene	53-70-3	330	212	224	572	317	572	58.7 U
Dibenzofuran	132-64-9	7,000	555	320	104 J	629	144 U	58.1 J
Diethylphthalate	84-66-2	NC	122 U	150 U	115 U	111 U	144 U	117 U
Dimethylphthalate	131-11-3	NC	122 U	150 U	115 U	111 U	144 U	117 U
Di-n-butylphthalate	84-74-2	NC	122 U	150 U	115 U	237	144 U	117 U
Di-n-octylphthalate	117-84-0	NC	122 U	150 U	115 UJ	111 UJ	144 U	117 UJ
Fluoranthene	206-44-0	100,000	3,930	1,590	1,400	3,050	570	225
Fluorene	86-73-7	30,000	673	75.4	83.1	215	72.1 U	58.7 U
Hexachlorobenzene	118-74-1	330	122 U	150 U	115 U	111 U	144 U	117 U
Hexachlorobutadiene	87-68-3	NC	122 U	150 U	115 U	111 U	144 U	117 U
Hexachlorocyclopentadiene	77-47-4	NC	243 U	299 U	230 U	222 U	288 U	235 U
Hexachloroethane	67-72-1	NC	122 U	150 U	115 U	111 U	144 U	117 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	760	803	2,170	1,300	558	124
Isophorone	78-59-1	NC	122 U	150 U	115 U	111 U	144 U	117 U
m-Cresol & p-Cresol	MEPH1314	330**	32.4 J	76.1 J	230 U	222 U	288 U	235 U
Naphthalene	91-20-3	12,000	561	848	239	1,090	72.1 U	173
Nitrobenzene	98-95-3	NC	122 U	150 U	115 U	111 U	144 U	117 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	122 U	150 U	115 U	111 U	144 U	117 U
N-Nitrosodiphenylamine	86-30-6	NC	122 U	150 U	115 U	111 U	144 U	117 U
Pentachlorophenol	87-86-5	800	243 U	299 U	230 U	222 U	288 U	235 U
Phenanthrene	85-01-8	100,000	4930	1290	731	4,430	291	293
Phenol	108-95-2	330	243 U	49.4 J	230 U	222 U	288 U	235 U
Pyrene	129-00-0	100,000	3,210	1,450	2,020	3,850	468	276
Pyridine	110-86-1	NC	243 U	299 U	230 U	222 U	288 U	235 U
Total SVOCs	NA	NC	12,196	39,759	19,978	26,020	80,810	6,034

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.

[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 6B1 - Existing Surface Cover Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

Sample Location			SS-131	SS-132	SS-133	SS-134	SS-135	SS-136
Sample ID			SS-131-0-0.17-092016	SS-132-1-1.5-092216	SS-133-1-2-092016	SS-134-0-0.17-091916	SS-135-0-0.17-091916	SS-136-0-0.17-091916
Sample Date			9/20/2016	9/22/2016	9/20/2016	9/19/2016	9/19/2016	9/19/2016
Unit			µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Lab SDG			2177436	2177432	2177436	2176860	2176860	2176860
Start Depth			0	1	1	0	0	0
End Depth			0.17	1.5	2	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	107 U	11.5 J	66.9 J	125 U	28.2 J	124 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	107 U	108 U	107 U	125 U	135 U	124 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	215 U	216 U	214 U	249 U	270 U	249 U
2,4,5-Trichlorophenol	95-95-4	NC	215 U	216 U	214 U	249 U	270 U	249 U
2,4,6-Trichlorophenol	88-06-2	NC	215 U	216 U	214 U	249 U	270 U	249 U
2,4-Dichlorophenol	120-83-2	NC	215 U	216 U	214 U	249 U	270 U	249 U
2,4-Dimethylphenol	105-67-9	NC	215 U	216 U	214 U	249 U	270 U	249 U
2,4-Dinitrophenol	51-28-5	NC	376 U	216 UJ	374 U	249 U	270 U	249 U
2,4-Dinitrotoluene	121-14-2	NC	107 U	108 U	107 U	125 U	135 U	124 U
2,6-Dinitrotoluene	606-20-2	NC	107 U	108 U	107 U	125 U	135 U	124 U
2-Chloronaphthalene	91-58-7	NC	107 U	108 U	107 U	125 U	135 U	124 U
2-Chlorophenol	95-57-8	NC	215 U	216 U	214 U	249 U	270 U	249 U
2-Methylnaphthalene	91-57-6	NC	25.4 J	84.3 J	359	125 U	184 J	10.2 J
2-Methylphenol	95-48-7	330	215 U	216 U	214 U	249 U	28.3 J	249 U
2-Nitroaniline	88-74-4	NC	215 U	216 U	214 U	249 U	270 U	249 U
2-Nitrophenol	88-75-5	NC	215 U	216 U	214 U	249 U	270 U	249 U
3,3-Dichlorobenzidine	91-94-1	NC	215 U	216 U	214 U	249 U	270 U	249 U
3-Nitroaniline	99-09-2	NC	215 U	216 U	214 U	249 U	270 U	249 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	215 U	216 U	214 U	249 U	270 U	249 U
4-Bromophenyl-phenylether	101-55-3	NC	107 U	108 U	107 U	125 U	135 U	124 U
4-Chloro-3-methylphenol	59-50-7	NC	215 U	216 U	214 U	249 U	270 U	249 U
4-Chloroaniline	106-47-8	NC	215 U	216 U	214 U	249 U	270 U	249 U
4-Chlorophenyl-phenylether	7005-72-3	NC	107 U	108 U	107 U	125 U	135 U	124 U
4-Nitroaniline	100-01-6	NC	215 U	216 U	214 U	249 U	270 U	249 U
4-Nitrophenol	100-02-7	NC	215 U	216 UJ	214 U	249 U	270 U	249 U
Acenaphthene	83-32-9	20,000	56.3	47.9 J	354	62.3 U	183	62.2 U
Acenaphthylene	208-96-8	100,000	66	101	53.4 U	9 J	982	9.7 J
Acetophenone	98-86-2	NC	107 U	108 U	107 U	125 U	135 U	124 U
Anthracene	120-12-7	100,000	209	277	1180	19 J	983	14.7 J
Atrazine	1912-24-9	NC	107 U	108 U	107 U	125 U	135 U	124 U
Benzaldehyde	100-52-7	NC	215 U	19.2 J	109 J	22.4 J	86.7 J	249 U
Benzidine	92-87-5	NC	215 U	216 U	214 U	249 U	270 U	249 U
Benzo[a]anthracene	56-55-3	1,000	646	985	1,910	94.5	3,920	84.7
Benzo[a]pyrene	50-32-8	1,000	650	1,110	1,740	106	3,780	92.4
Benzo[b]fluoranthene	205-99-2	1,000	865	1,360 J	2,410	134	5,840	130
Benzo[g,h,i]perylene	191-24-2	100,000	407	662	1,150	80.5	1,990	59.7 J
Benzo[k]fluoranthene	207-08-9	800	311	528 J	852	68.5	2,200	52.9 J
Bis(2-Chloroethoxy)methane	111-91-1	NC	107 U	108 U	107 U	125 U	135 U	124 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	107 U	108 U	107 U	125 U	135 U	124 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	107 U	108 U	107 U	125 U	135 U	124 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	268 U	57.1 J	267 U	125 U	135 U	124 U
Butylbenzylphthalate	85-68-7	NC	138	108 U	107 U	125 U	135 U	124 U
Caprolactam	105-60-2	NC	215 U	216 U	214 U	249 UJ	270 UJ	249 UJ
Carbazole	86-74-8	NC	90.2 J	117	501	13 J	372	10.2 J
Chrysene	218-01-9	1,000	716	990	2,130	92.8	4,140	103
Dibenzo[a,h]Anthracene	53-70-3	330	119	187	300	25.8 J	582	14.7 J
Dibenzofuran	132-64-9	7,000	25.3 J	58.1 J	432	125 U	148	124 U
Diethylphthalate	84-66-2	NC	107 U	108 U	107 U	125 U	135 U	124 U
Dimethylphthalate	131-11-3	NC	107 U	108 U	107 U	125 U	135 U	124 U
Di-n-butylphthalate	84-74-2	NC	107 U	108 U	107 U	125 U	135 U	124 U
Di-n-octylphthalate	117-84-0	NC	107 U	108 UJ	107 U	125 UJ	135 UJ	124 UJ
Fluoranthene	206-44-0	100,000	1,370	1,730	5,330	161	8,170	161
Fluorene	86-73-7	30,000	63	90.8	475	62.3 U	205	62.2 U
Hexachlorobenzene	118-74-1	330	107 U	108 U	107 U	125 U	135 U	124 U
Hexachlorobutadiene	87-68-3	NC	107 U	108 U	107 U	125 U	135 U	124 U
Hexachlorocyclopentadiene	77-47-4	NC	215 U	216 U	214 U	249 U	270 U	249 U
Hexachloroethane	67-72-1	NC	107 U	108 U	107 U	125 U	135 U	124 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	431	732	1,220	72.4	2,340	62.1 J
Isophorone	78-59-1	NC	107 U	108 U	107 U	125 U	135 U	124 U
m-Cresol & p-Cresol	MEPH1314	330**	215 U	16.5 J	23.5 J	249 U	64.8 J	249 U
Naphthalene	91-20-3	12,000	53.7 U	94.5 J	375	62.3 U	260	62.2 U
Nitrobenzene	98-95-3	NC	107 U	108 U	107 U	125 U	135 U	124 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	107 U	108 U	107 U	125 U	135 U	124 U
N-Nitrosodiphenylamine	86-30-6	NC	107 U	108 U	107 U	125 U	135 U	124 U
Pentachlorophenol	87-86-5	800	215 U	216 U	214 U	249 U	270 U	249 U
Phenanthrene	85-01-8	100,000	823	1,060	5510	65.9	2,920	65.2
Phenol	108-95-2	330	215 U	216 U	214 U	249 U	60 J	249 U
Pyrene	129-00-0	100,000	1,200	1,790 J	4,070	157	7,900	150
Pyridine	110-86-1	NC	215 U	216 U	214 U	249 U	270 U	249 U
Total SVOCs	NA	NC	16,241	7,811	28,635	4,765	23,228	11,241

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.

[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 6B1 - Existing Surface Cover Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

Sample Location			SS-137	SS-138	SS-140	SS-141[BB]	SS-142	SS-143
Sample ID			SS-137-1.5-2-092016	SS-138-0.5-1-092016	SS-140-0-0.17-091916	SS-141-1-2-092116	SS-142-0.5-1.5-092116	SS-143-0-0.17-091916
Sample Date			9/20/2016	9/20/2016	9/19/2016	9/21/2016	9/21/2016	9/19/2016
Unit			µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Lab SDG			2177436	2177433	2176860	2177433	2177433	2176860
Start Depth			1.5	0.5	0	1	0.5	0
End Depth			2	1	0.17	2	1.5	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	108 U	106 U	29.3 J	6,510	258	133 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	108 U	106 U	150 U	131 U	111 U	133 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	216 U	212 U	299 U	262 U	222 U	266 U
2,4,5-Trichlorophenol	95-95-4	NC	216 U	212 U	299 U	262 U	222 U	266 U
2,4,6-Trichlorophenol	88-06-2	NC	216 U	212 U	299 U	262 U	222 U	266 U
2,4-Dichlorophenol	120-83-2	NC	216 U	212 U	299 U	262 U	222 U	266 U
2,4-Dimethylphenol	105-67-9	NC	216 U	212 U	299 U	540	222 U	266 U
2,4-Dinitrophenol	51-28-5	NC	378 U	370 U	299 U	459 U	389 U	266 U
2,4-Dinitrotoluene	121-14-2	NC	108 U	106 U	150 U	131 U	111 U	133 U
2,6-Dinitrotoluene	606-20-2	NC	108 U	106 U	150 U	131 U	111 U	133 U
2-Chloronaphthalene	91-58-7	NC	108 U	106 U	150 U	131 U	111 U	133 U
2-Chlorophenol	95-57-8	NC	216 U	212 U	299 U	262 U	222 U	266 U
2-Methylnaphthalene	91-57-6	NC	108 U	72.3 J	234 J	33,000	1,470	133 U
2-Methylphenol	95-48-7	330	216 U	212 U	299 U	283	222 U	266 U
2-Nitroaniline	88-74-4	NC	216 U	212 U	299 U	262 U	222 U	266 U
2-Nitrophenol	88-75-5	NC	216 U	212 U	299 U	262 U	222 U	266 U
3,3-Dichlorobenzidine	91-94-1	NC	216 U	212 U	299 U	262 U	222 U	266 U
3-Nitroaniline	99-09-2	NC	216 U	212 U	299 U	262 U	222 U	266 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	216 U	212 U	299 U	262 U	222 U	266 U
4-Bromophenyl-phenylether	101-55-3	NC	108 U	106 U	150 U	131 U	111 U	133 U
4-Chloro-3-methylphenol	59-50-7	NC	216 U	212 U	299 U	262 U	222 U	266 U
4-Chloroaniline	106-47-8	NC	216 U	212 U	299 U	262 U	222 U	266 U
4-Chlorophenyl-phenylether	7005-72-3	NC	108 U	106 U	150 U	131 U	111 U	133 U
4-Nitroaniline	100-01-6	NC	216 U	212 U	299 U	262 U	222 U	266 U
4-Nitrophenol	100-02-7	NC	216 U	212 U	299 U	262 U	222 U	266 U
Acenaphthene	83-32-9	20,000	54 U	52.9 U	29.2 J	96,200	2,630	66.4 U
Acenaphthylene	208-96-8	100,000	54 U	52.9 U	355	65.6 U	622	66.4 U
Acetophenone	98-86-2	NC	108 U	106 U	150 U	380	111 U	133 U
Anthracene	120-12-7	100,000	54 U	52.9 U	219	184,000	7,980	11.6 J
Atrazine	1912-24-9	NC	108 U	106 U	150 U	131 U	111 U	133 U
Benzaldehyde	100-52-7	NC	216 U	212 U	181 J	262 U	222 U	266 U
Benzidine	92-87-5	NC	216 U	212 U	299 U	262 U	222 U	266 U
Benzo[a]anthracene	56-55-3	1,000	54 U	52.9 U	1,020	232,000	20,400	57 J
Benzo[a]pyrene	50-32-8	1,000	54 U	52.9 U	1,890	202,000	16,800	69.3
Benzo[b]fluoranthene	205-99-2	1,000	31.3 J	34.8 J	3,180	262,000	22,700	107
Benzo[g,h,i]perylene	191-24-2	100,000	54 U	52.9 U	1,050	114,000	8,580	56.7 J
Benzo[k]fluoranthene	207-08-9	800	54 U	52.9 U	1,020	99,400	7,100	46.6 J
Bis(2-Chloroethoxy)methane	111-91-1	NC	108 U	106 U	150 U	131 U	111 U	133 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	108 U	106 U	150 U	131 U	111 U	133 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	108 U	106 U	150 U	131 U	111 U	133 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	270 U	265 U	150 U	328 U	278 U	133 U
Butylbenzylphthalate	85-68-7	NC	108 U	106 U	150 U	131 U	111 U	133 U
Caprolactam	105-60-2	NC	216 U	212 U	299 UJ	262 U	222 U	266 UJ
Carbazole	86-74-8	NC	108 U	106 U	79.9 J	107,000	3,420	12.7 J
Chrysene	218-01-9	1,000	54 U	34.1 J	1,780	229,000	21,000	64.7 J
Dibenzo[a,h]Anthracene	53-70-3	330	54 U	52.9 U	358	32,100	2840	66.4 U
Dibenzofuran	132-64-9	7,000	108 U	31 J	94.8 J	81,900	1510	133 U
Diethylphthalate	84-66-2	NC	108 U	106 U	150 U	131 U	111 U	133 U
Dimethylphthalate	131-11-3	NC	108 U	106 U	150 U	131 U	111 U	133 U
Di-n-butylphthalate	84-74-2	NC	108 U	106 U	150 U	131 U	111 U	133 U
Di-n-octylphthalate	117-84-0	NC	108 U	106 U	150 UJ	131 U	111 U	133 UJ
Fluoranthene	206-44-0	100,000	38.1 J	41.2 J	980	598,000	44,600	123
Fluorene	86-73-7	30,000	54 U	52.9 U	45.8 J	114,000	3,140	66.4 U
Hexachlorobenzene	118-74-1	330	108 U	106 U	150 U	131 U	111 U	133 U
Hexachlorobutadiene	87-68-3	NC	108 U	106 U	150 U	131 U	111 U	133 U
Hexachlorocyclopentadiene	77-47-4	NC	216 U	212 U	299 U	262 U	222 U	266 U
Hexachloroethane	67-72-1	NC	108 U	106 U	150 U	131 U	111 U	133 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	54 U	52.9 U	1,240	127,000	10,600	65 J
Isophorone	78-59-1	NC	108 U	106 U	150 U	131 U	111 U	133 U
m-Cresol & p-Cresol	MEPH1314	330**	216 U	212 U	299 U	837	53.5 J	266 U
Naphthalene	91-20-3	12,000	54 U	52.9 U	124	95,000	1450	66.4 U
Nitrobenzene	98-95-3	NC	108 U	106 U	150 U	131 U	111 U	133 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	108 U	106 U	150 U	131 U	111 U	133 U
N-Nitrosodiphenylamine	86-30-6	NC	108 U	106 U	150 U	131 U	111 U	133 U
Pentachlorophenol	87-86-5	800	216 U	212 U	299 U	262 U	222 U	266 U
Phenanthrene	85-01-8	100,000	20.7 J	172	986	733,000	38,800	49.9 J
Phenol	108-95-2	330	216 U	212 U	299 U	456	222 U	266 U
Pyrene	129-00-0	100,000	31.8 J	35.1 J	1,050	470,000	39,500	126
Pyridine	110-86-1	NC	216 U	212 U	299 U	262 U	222 U	266 U
Total SVOCs	NA	NC	1,719	14,274	49,520	7,811	48,867	10,099

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.

[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 6B1 - Existing Surface Cover Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SS-144	SS-145	SS-146	SS-147	SS-148	SS-149
	Sample ID	SS-144-0.5-1.5-092116	SS-145-0.5-1.5-092116	SS-146-0-0.17-091916	SS-147-0.5-1.5-092116	SS-148-0-0.17-092016	SS-149-0-0.17-091916
	Sample Date	9/21/2016	9/21/2016	9/19/2016	9/21/2016	9/20/2016	9/19/2016
	Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	Lab SDG	2177433	2177433	2176860	2177433	2177436	2176860
	Start Depth	0.5	0.5	0	0.5	0	0
	End Depth	1.5	1.5	0.17	1.5	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	104 U	21.6 J	127 U	1,080	33.2 J	25.3 J
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	104 U	115 U	127 U	112 U	127 U	126 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	208 U	231 U	253 U	225 U	254 U	252 U
2,4,5-Trichlorophenol	95-95-4	NC	208 U	231 U	253 U	225 U	254 U	252 U
2,4,6-Trichlorophenol	88-06-2	NC	208 U	231 U	253 U	225 U	254 U	252 U
2,4-Dichlorophenol	120-83-2	NC	208 U	231 U	253 U	225 U	254 U	252 U
2,4-Dimethylphenol	105-67-9	NC	208 U	231 U	253 U	47.9 J	254 U	252 U
2,4-Dinitrophenol	51-28-5	NC	208 UJ	231 UJ	253 U	394 U	444 R	252 U
2,4-Dinitrotoluene	121-14-2	NC	104 U	115 U	127 U	112 U	127 U	126 U
2,6-Dinitrotoluene	606-20-2	NC	104 U	115 U	127 U	112 U	127 U	126 U
2-Chloronaphthalene	91-58-7	NC	104 U	115 U	127 U	112 U	127 U	126 U
2-Chlorophenol	95-57-8	NC	208 U	231 U	253 U	225 U	254 U	252 U
2-Methylnaphthalene	91-57-6	NC	27.1 J	113 J	10.1 J	4,820	233	180 J
2-Methylphenol	95-48-7	330	208 U	231 U	253 U	45 J	254 U	252 U
2-Nitroaniline	88-74-4	NC	208 U	231 U	253 U	225 U	254 U	252 U
2-Nitrophenol	88-75-5	NC	208 U	231 U	253 U	225 U	254 U	252 U
3,3-Dichlorobenzidine	91-94-1	NC	208 U	231 U	253 U	225 U	254 U	252 U
3-Nitroaniline	99-09-2	NC	208 U	231 U	253 U	225 U	254 U	252 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	208 U	231 U	253 U	225 U	254 UJ	252 U
4-Bromophenyl-phenylether	101-55-3	NC	104 U	115 U	127 U	112 U	127 U	126 U
4-Chloro-3-methylphenol	59-50-7	NC	208 U	231 U	253 U	225 U	254 U	252 U
4-Chloroaniline	106-47-8	NC	208 U	231 U	253 U	225 U	254 U	252 U
4-Chlorophenyl-phenylether	7005-72-3	NC	104 U	115 U	127 U	112 U	127 U	126 U
4-Nitroaniline	100-01-6	NC	208 U	231 U	253 U	225 U	254 U	252 U
4-Nitrophenol	100-02-7	NC	208 UJ	231 UJ	253 U	225 U	254 U	252 U
Acenaphthene	83-32-9	20,000	52.1 U	57.7 U	63.3 U	14,900	48.2 J	63.2
Acenaphthylene	208-96-8	100,000	52.1 U	97.7	63.3 U	56.2 U	105	1,050
Acetophenone	98-86-2	NC	104 U	115 U	127 U	112 U	127 U	126 U
Anthracene	120-12-7	100,000	11.4 J	64.2	63.3 U	37,200	199	722
Atrazine	1912-24-9	NC	104 U	115 U	127 U	112 U	127 U	126 U
Benzaldehyde	100-52-7	NC	32.4 J	118 J	253 U	225 U	169 J	88.1 J
Benzidine	92-87-5	NC	208 R	231 U	253 U	225 U	254 R	252 U
Benzo[a]anthracene	56-55-3	1,000	52.1 U	229	53.2 J	59,300	842	2,970
Benzo[a]pyrene	50-32-8	1,000	46.9 J	243	66.7	52,300	898	3,100
Benzo[b]fluoranthene	205-99-2	1,000	79.8 J	581 J	90.1	66,200	1,270	4,800
Benzo[g,h,i]perylene	191-24-2	100,000	39.9 J	271	43 J	29,600	654	1,790
Benzo[k]fluoranthene	207-08-9	800	29.4 J	156 J	63.3 U	23,800	456	2,040
Bis(2-Chloroethoxy)methane	111-91-1	NC	104 U	115 U	127 U	112 U	127 U	126 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	104 U	115 U	127 U	112 U	127 U	126 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	104 U	115 U	127 U	112 U	127 U	126 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	19 J	13 J	127 U	281 U	317 U	126 U
Butylbenzylphthalate	85-68-7	NC	7.7 J	115 U	127 U	112 U	127 U	126 U
Caprolactam	105-60-2	NC	208 U	231 U	253 UJ	225 U	254 U	252 UJ
Carbazole	86-74-8	NC	8.8 J	29.1 J	10.2 J	12,700	134	280
Chrysene	218-01-9	1,000	71	457	68.1	58,700	1,080	3,460
Dibenzo[a,h]Anthracene	53-70-3	330	11.5 J	98.8	12.8 J	7,850	185	540
Dibenzofuran	132-64-9	7,000	9.1 J	28.8 J	127 U	9,000	88.6 J	116 J
Diethylphthalate	84-66-2	NC	104 U	115 U	127 U	112 U	127 U	126 U
Dimethylphthalate	131-11-3	NC	104 U	115 U	127 U	112 U	127 U	126 U
Di-n-butylphthalate	84-74-2	NC	104 U	115 U	127 U	112 U	127 U	126 U
Di-n-octylphthalate	117-84-0	NC	104 UJ	115 UJ	127 UJ	112 U	127 U	126 UJ
Fluoranthene	206-44-0	100,000	85.5	370	120	151,000	1,700	5,930
Fluorene	86-73-7	30,000	52.1 U	28.1 J	63.3 U	17,100	69.6	140
Hexachlorobenzene	118-74-1	330	104 U	115 U	127 U	112 U	127 U	126 U
Hexachlorobutadiene	87-68-3	NC	104 U	115 U	127 U	112 U	127 U	126 U
Hexachlorocyclopentadiene	77-47-4	NC	208 U	231 U	253 U	225 U	254 UJ	252 U
Hexachloroethane	67-72-1	NC	104 U	115 U	127 U	112 U	127 U	126 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	40.9 J	193	47.3 J	32,900	693	2,130
Isophorone	78-59-1	NC	104 U	115 U	127 U	112 U	127 U	126 U
m-Cresol & p-Cresol	MEPH1314	330**	208 U	15.9 J	253 U	116 J	254 U	252 U
Naphthalene	91-20-3	12,000	52.1 U	140 J	63.3 U	7,800	157	239
Nitrobenzene	98-95-3	NC	104 U	115 U	127 U	112 U	127 U	126 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	104 U	115 U	127 U	112 U	127 U	126 U
N-Nitrosodiphenylamine	86-30-6	NC	104 U	115 U	127 U	112 U	127 U	126 U
Pentachlorophenol	87-86-5	800	208 U	231 U	253 U	225 U	254 U	252 U
Phenanthrene	85-01-8	100,000	69	651	72.2	155,000	1,040	1830
Phenol	108-95-2	330	208 U	231 U	253 U	80.7 J	254 U	252 U
Pyrene	129-00-0	100,000	87.5 J	455 J	129	126,000	1,450	6150
Pyridine	110-86-1	NC	208 U	231 U	253 U	225 U	254 U	252 U
Total SVOCs	NA	NC	N/A	17,218	3,639	13,369	83,050	33,490

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.

[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 6B1 - Existing Surface Cover Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-150	SS-150	SS-151	SS-152	SS-153
		Sample ID	DUP-006-091916	SS-150-0-0.17-091916	SS-151-0-0.5-092116	SS-152-0-0.17-091916	SS-153-0-0.17-091916
		Sample Date	9/19/2016	9/19/2016	9/21/2016	9/19/2016	9/19/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2176860	2176860	2177433	2176860	2176860
		Start Depth	0	0	0	0	0
		End Depth	0.17	0.17	0.5	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
SVOCs							
1,1'-Biphenyl	92-52-4	NC	126 U	129 U	48.5 J	120 U	121 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	126 U	129 U	120 U	120 U	121 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	253 U	258 U	240 U	241 U	242 U
2,4,5-Trichlorophenol	95-95-4	NC	253 U	258 U	240 U	241 U	242 U
2,4,6-Trichlorophenol	88-06-2	NC	253 U	258 U	240 U	241 U	242 U
2,4-Dichlorophenol	120-83-2	NC	253 U	258 U	240 U	241 U	242 U
2,4-Dimethylphenol	105-67-9	NC	253 U	258 U	240 U	241 U	242 U
2,4-Dinitrophenol	51-28-5	NC	253 U	258 U	240 UJ	241 U	242 U
2,4-Dinitrotoluene	121-14-2	NC	126 U	129 U	120 U	120 U	121 U
2,6-Dinitrotoluene	606-20-2	NC	126 U	129 U	120 U	120 U	121 U
2-Chloronaphthalene	91-58-7	NC	126 U	129 U	120 U	120 U	121 U
2-Chlorophenol	95-57-8	NC	253 U	258 U	240 U	241 U	242 U
2-Methylnaphthalene	91-57-6	NC	34 J	22.4 J	411 J	16.1 J	8.3 J
2-Methylphenol	95-48-7	330	253 U	258 U	240 U	241 U	242 U
2-Nitroaniline	88-74-4	NC	253 U	258 U	240 U	241 U	242 U
2-Nitrophenol	88-75-5	NC	253 U	258 U	240 U	241 U	242 U
3,3-Dichlorobenzidine	91-94-1	NC	253 U	258 U	240 U	241 U	242 U
3-Nitroaniline	99-09-2	NC	253 U	258 U	240 U	241 U	242 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	253 U	258 U	240 U	241 U	242 U
4-Bromophenyl-phenylether	101-55-3	NC	126 U	129 U	120 U	120 U	121 U
4-Chloro-3-methylphenol	59-50-7	NC	253 U	258 U	240 U	241 U	242 U
4-Chloroaniline	106-47-8	NC	253 U	258 U	240 U	241 U	242 U
4-Chlorophenyl-phenylether	7005-72-3	NC	126 U	129 U	120 U	120 U	121 U
4-Nitroaniline	100-01-6	NC	253 U	258 U	240 U	241 U	242 U
4-Nitrophenol	100-02-7	NC	253 U	258 U	240 UJ	241 U	242 U
Acenaphthene	83-32-9	20,000	63.2 U	64.5 U	73.2	60.1 U	60.6 U
Acenaphthylene	208-96-8	100,000	19.5 J	15.3 J	694	41.3 J	13.4 J
Acetophenone	98-86-2	NC	126 U	129 U	120 U	120 U	121 U
Anthracene	120-12-7	100,000	24.4 J	16.8 J	618	31.4 J	13.8 J
Atrazine	1912-24-9	NC	126 U	129 U	120 U	120 U	121 U
Benzaldehyde	100-52-7	NC	253 U	258 U	159 J	241 U	242 U
Benzidine	92-87-5	NC	253 U	258 U	240 U	241 U	242 U
Benzo[a]anthracene	56-55-3	1,000	109	94.7	2,310	158	56.7 J
Benzo[a]pyrene	50-32-8	1,000	119	119	2,000	190	62.5
Benzo[b]fluoranthene	205-99-2	1,000	169	162	3,630 J	308	91
Benzo[g,h,i]perylene	191-24-2	100,000	80.1	77.5	1160	124	46.1 J
Benzo[k]fluoranthene	207-08-9	800	73.3	59.3 J	1,260 J	113	60.6 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	126 U	129 U	120 U	120 U	121 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	126 U	129 U	120 U	120 U	121 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	126 U	129 U	120 U	120 U	121 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	126 U	129 U	26.5 J	120 U	121 U
Butylbenzylphthalate	85-68-7	NC	126 U	129 U	120 U	120 U	121 U
Caprolactam	105-60-2	NC	253 UJ	258 UJ	240 U	241 UJ	242 UJ
Carbazole	86-74-8	NC	13 J	13.8 J	156	19.9 J	11.2 J
Chrysene	218-01-9	1,000	133	120	2,500	215	61.1
Dibenzo[a,h]Anthracene	53-70-3	330	21.6 J	23 J	366	39.4 J	13.1 J
Dibenzofuran	132-64-9	7,000	126 U	129 U	143	120 U	121 U
Diethylphthalate	84-66-2	NC	126 U	129 U	120 U	120 U	121 U
Dimethylphthalate	131-11-3	NC	126 U	129 U	120 U	120 U	121 U
Di-n-butylphthalate	84-74-2	NC	126 U	129 U	309	120 U	121 U
Di-n-octylphthalate	117-84-0	NC	126 UJ	129 UJ	120 UJ	120 UJ	121 UJ
Fluoranthene	206-44-0	100,000	235	202	4,570	267	123
Fluorene	86-73-7	30,000	63.2 U	64.5 U	90	60.1 U	60.6 U
Hexachlorobenzene	118-74-1	330	126 U	129 U	120 U	120 U	121 U
Hexachlorobutadiene	87-68-3	NC	126 U	129 U	120 U	120 U	121 U
Hexachlorocyclopentadiene	77-47-4	NC	253 U	258 U	240 U	241 U	242 U
Hexachloroethane	67-72-1	NC	126 U	129 U	120 U	120 U	121 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	79.6	75.4	1430	127	44.6 J
Isophorone	78-59-1	NC	126 U	129 U	120 U	120 U	121 U
m-Cresol & p-Cresol	MEPH1314	330**	253 U	258 U	26.5 J	241 U	242 U
Naphthalene	91-20-3	12,000	63.2 U	64.5 U	373 J	60.1 U	60.6 U
Nitrobenzene	98-95-3	NC	126 U	129 U	120 U	120 U	121 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	126 U	129 U	120 U	120 U	121 U
N-Nitrosodiphenylamine	86-30-6	NC	126 U	129 U	120 U	120 U	121 U
Pentachlorophenol	87-86-5	800	253 U	258 U	240 U	241 U	242 U
Phenanthrene	85-01-8	100,000	96.8	94.7	1,190	113	64.6
Phenol	108-95-2	330	253 U	258 U	39.6 J	241 U	242 U
Pyrene	129-00-0	100,000	235	216	4,480 J	336	130
Pyridine	110-86-1	NC	253 U	258 U	240 U	241 U	242 U
Total SVOCs	NA	NC	17,061	12,510	13,375	9,229	10,060

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.

[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 6C - Surface Soil Results Compared to Unrestricted SCOs
Pesticides/Herbicides
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-114	SS-123	SS-126	SS-127	SS-131	SS-135	SS-136	SS-140	SS-143	SS-152
		Sample ID	SS-114-0-0.17-092016	SS-123-0-0.17-092016	SS-126-0-0.17-092016	SS-127-0-0.17-092016	SS-131-0-0.17-092016	SS-135-0-0.17-091916	SS-136-0-0.17-091916	SS-140-0-0.17-091916	SS-143-0-0.17-091916	SS-152-0-0.17-091916
		Sample Date	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2177436	2177436	2177436	2177436	2177436	2176860	2176860	2176860	2176860	2176860
		Start Depth	0	0	0	0	0	0	0	0	0	0
		End Depth	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]										
Pesticides/Herbicides												
4-4-DDD	72-54-8	3.3	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
4-4-DDE	72-55-9	3.3	18.6 JN	6.7 JN	4 U	3.8 U	1.5 J	7.2 J	3.3 U	7.1 JN	4.4 J	3.3 U
4-4-DDT	50-29-3	3.3	18.8	13.7 J	4 U	11.4 JN	8.3	8.6 JN	3.3 U	22.2 J	3.6 U	3.3 U
a-BHC	319-84-6	20	3.7 U	3.9 U	4 U	4.1 J	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Aldrin	309-00-2	5	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
alpha-Chlordane	5103-71-9	94	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
b-BHC	319-85-7	36	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
d-BHC	319-86-8	40	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Dieldrin	60-57-1	5	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Endosulfan I	959-98-8	2400	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Endosulfan II	33213-65-9	2400	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Endosulfan Sulfate	1031-07-8	2400	3.7 U	3.9 U	4 U	3.8 U	2.9 U	9.4 J	3.3 U	4.1 U	3.6 U	3.3 U
Endrin	72-20-8	14	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Endrin Aldehyde	7421-93-4	NC	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Endrin Ketone	53494-70-5	NC	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Heptachlor	76-44-8	42	3.9 J	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Heptachlor Epoxide	1024-57-3	NC	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Lindane	58-89-9	100	3.7 U	3.9 U	4.7 JN	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Methoxychlor	72-43-5	NC	3.7 U	3.9 U	4 U	3.8 U	2.9 U	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U
Toxaphene	8001-35-2	NC	74.4 U	79.7 U	81.6 U	76.2 U	57.9 U	72.8 U	67.1 U	82.9 U	72.5 U	66.2 U
y-Chlordane	5103-74-2	NC	3.7 U	3.9 U	4 U	3.8 U	1.9 J	3.6 U	3.3 U	4.1 U	3.6 U	3.3 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
Exceeds Unrestricted SCO listed in Part 375.

Table 6C1 - Existing Surface Cover Soil Results Compared to Unrestricted SCOs
Pesticides/Herbicides
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-113	SS-113	SS-114	SS-120	SS-123	SS-124	SS-125	SS-126	SS-127
		Sample ID	DUP-005-092116	SS-113-1-2-092116	SS-114-0-0.17-092016	SS-120-0.5-1-092116	SS-123-0-0.17-092016	SS-124-1-2-092216	SS-125-1-2-092216	SS-126-0-0.17-092016	SS-127-0-0.17-092016
		Sample Date	9/21/2016	9/21/2016	9/20/2016	9/21/2016	9/20/2016	9/22/2016	9/22/2016	9/20/2016	9/20/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2177433	2177433	2177436	2177433	2177436	2177432	2177432	2177436	2177436
		Start Depth	1	1	0	0.5	0	1	1	0	0
		End Depth	2	2	0.17	1	0.17	2	2	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]									
Pesticides/Herbicides											
4-4-DDD	72-54-8	3.3	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U
4-4-DDE	72-55-9	3.3	2.8 U	1.7 J	18.6 JN	3 U	6.7 JN	4.5 JN	2.9 U	4 U	3.8 U
4-4-DDT	50-29-3	3.3	2.8 U	2.9 U	18.8	3 U	13.7 J	48.1	11.3 J	4 U	11.4 JN
a-BHC	319-84-6	20	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	4.1 J
Aldrin	309-00-2	5	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U
alpha-Chlordane	5103-71-9	94	2.8 U	2.9 U	3.7 U	3 U	3.9 U	2 J	2.9 U	4 U	3.8 U
b-BHC	319-85-7	36	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U
d-BHC	319-86-8	40	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U
Dieldrin	60-57-1	5	2.8 U	2.9 U	3.7 U	3 U	3.9 U	20.7 JN	2.9 U	4 U	3.8 U
Endosulfan I	959-98-8	2400	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U
Endosulfan II	33213-65-9	2400	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U
Endosulfan Sulfate	1031-07-8	2400	2.8 U	2.9 U	3.7 U	3 U	3.9 U	6.2 JN	2.9 U	4 U	3.8 U
Endrin	72-20-8	14	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U
Endrin Aldehyde	7421-93-4	NC	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U
Endrin Ketone	53494-70-5	NC	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U
Heptachlor	76-44-8	42	2.8 U	2.9 U	3.9 J	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U
Heptachlor Epoxide	1024-57-3	NC	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U
Lindane	58-89-9	100	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4.7 JN	3.8 U
Methoxychlor	72-43-5	NC	2.8 U	2.9 U	3.7 U	3 U	3.9 U	3 U	2.9 U	4 U	3.8 U
Toxaphene	8001-35-2	NC	57.8 U	59.5 U	74.4 U	61.9 U	79.7 U	59.9 U	58.7 U	81.6 U	76.2 U
y-Chlordane	5103-74-2	NC	2.8 U	2.9 U	3.7 U	3 U	3.9 U	4.8	2.9 U	4 U	3.8 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
Exceeds Unrestricted SCO listed in Part 375.

Table 6C1 - Existing Surface Cover Soil Results Compared to Unr
Pesticides/Herbicides
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SS-131	SS-132	SS-133	SS-135	SS-136	SS-138	SS-140	SS-143	SS-144	SS-145	SS-147	SS-152
	Sample ID	SS-131-0-0.17-092016	SS-132-1-1.5-092216	SS-133-1-2-092016	SS-135-0-0.17-091916	SS-136-0-0.17-091916	SS-138-0.5-1-092016	SS-140-0-0.17-091916	SS-143-0-0.17-091916	SS-144-0.5-1.5-092116	SS-145-0.5-1.5-092116	SS-147-0.5-1.5-092116	SS-152-0-0.17-091916
	Sample Date	9/20/2016	9/22/2016	9/20/2016	9/19/2016	9/19/2016	9/20/2016	9/19/2016	9/19/2016	9/21/2016	9/21/2016	9/21/2016	9/19/2016
	Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	Lab SDG	2177436	2177432	2177436	2176860	2176860	2177433	2176860	2176860	2177433	2177433	2177433	2176860
	Start Depth	0	1	1	0	0	0.5	0	0	0.5	0.5	0.5	0
	End Depth	0.17	1.5	2	0.17	0.17	1	0.17	0.17	1.5	1.5	1.5	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]											
Pesticides/Herbicides													
4-4-DDD	72-54-8	3.3	2.9 U	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
4-4-DDE	72-55-9	3.3	1.5 J	2.8 U	2.8 U	7.2 J	3.3 U	2.8 U	7.1 JN	4.4 J	3.8	3.1 U	2.9 U	3.3 U
4-4-DDT	50-29-3	3.3	8.3	3.1 JN	2.8 U	8.6 JN	3.3 U	2.8 U	22.2 J	3.6 U	2.8 J	3.1 U	2.9 U	3.3 U
a-BHC	319-84-6	20	2.9 U	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Aldrin	309-00-2	5	2.9 U	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
alpha-Chlordane	5103-71-9	94	2.9 U	1.3 J	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
b-BHC	319-85-7	36	2.9 U	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
d-BHC	319-86-8	40	2.9 U	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Dieldrin	60-57-1	5	2.9 U	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Endosulfan I	959-98-8	2400	2.9 U	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Endosulfan II	33213-65-9	2400	2.9 U	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Endosulfan Sulfate	1031-07-8	2400	2.9 U	2.8 U	2.8 U	9.4 J	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Endrin	72-20-8	14	2.9 U	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Endrin Aldehyde	7421-93-4	NC	2.9 U	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Endrin Ketone	53494-70-5	NC	2.9 U	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Heptachlor	76-44-8	42	2.9 U	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Heptachlor Epoxide	1024-57-3	NC	2.9 U	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Lindane	58-89-9	100	2.9 U	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Methoxychlor	72-43-5	NC	2.9 U	2.8 U	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U
Toxaphene	8001-35-2	NC	57.9 U	57.2 U	57.6 U	72.8 U	67.1 U	57.8 U	82.9 U	72.5 U	58.8 U	63.6 U	58.7 U	66.2 U
γ-Chlordane	5103-74-2	NC	1.9 J	2.7 J	2.8 U	3.6 U	3.3 U	2.8 U	4.1 U	3.6 U	2.9 U	3.1 U	2.9 U	3.3 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
Exceeds Unrestricted SCO listed in Part 375.

Table 6D - Surface Soil Results Compared to Unrestricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-123	SS-123	SS-126	SS-127	SS-128	SS-129	SS-131	SS-135	SS-143
		Sample ID	DUP-007-092016	SS-123-0-0.17-092016	SS-126-0-0.17-092016	SS-127-0-0.17-092016	SS-128-0-0.17-092016	SS-129-0-0.17-092016	SS-131-0-0.17-092016	SS-135-0-0.17-091916	SS-143-0-0.17-091916
		Sample Date	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/19/2016	9/19/2016
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Lab SDG	2177436	2177436	2177436	2177436	2177436	2177436	2177436	2176860	2176860
		Start Depth	0	0	0	0	0	0	0	0	0
		End Depth	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]									
PCBs											
Aroclor 1268	11100-14-4	NC	0.048 U	0.049 U	0.27 U	0.05 U	0.047 U	0.049 U	0.036 U	0.044 U	0.047 U
Aroclor-1016	12674-11-2	NC	0.048 U	0.049 U	0.27 U	0.05 U	0.047 U	0.049 U	0.036 U	0.044 U	0.047 U
Aroclor-1221	11104-28-2	NC	0.048 U	0.049 U	0.27 U	0.05 U	0.047 U	0.049 U	0.036 U	0.044 U	0.047 U
Aroclor-1232	11141-16-5	NC	0.048 U	0.049 U	0.27 U	0.05 U	0.047 U	0.049 U	0.036 U	0.044 U	0.047 U
Aroclor-1242	53469-21-9	NC	0.048 U	0.049 U	0.27 U	0.05 U	0.047 U	0.049 U	0.036 U	0.044 U	0.047 U
Aroclor-1248	12672-29-6	NC	0.048 U	0.049 U	0.82 J	0.05 U	0.39	0.049 U	0.036 U	0.044 U	0.047 U
Aroclor-1254	11097-69-1	NC	0.048 U	0.04 J	2.6	0.21	1.3	0.28 J	0.036 U	0.044 U	0.047 U
Aroclor-1260	11096-82-5	NC	0.018 J	0.023 J	1.3	0.088	0.49	0.074	0.011 J	0.044 U	0.047 U
PCB-1262	37324-23-5	NC	0.048 U	0.049 U	0.27 U	0.05 U	0.047 U	0.049 U	0.036 U	0.044 U	0.047 U
Total PCBs	1336-36-3	0.1	0.018 J	0.063	4.7	0.29	2.1	0.35	0.011 J	0.044 U	0.047 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
Exceeds Unrestricted SCO listed in Part 375.

Table 6D1 - Existing Surface Cover Soil Results Compared to Unrestricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-110	SS-113	SS-113	SS-118	SS-123	SS-123
		Sample ID	SS-110-1-2-092116	DUP-005-092116	SS-113-1-2-092116	SS-118-1-2-092116	DUP-007-092016	SS-123-0-0.17-092016
		Sample Date	9/21/2016	9/21/2016	9/21/2016	9/21/2016	9/20/2016	9/20/2016
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Lab SDG	2177433	2177433	2177433	2177433	2177436	2177436
		Start Depth	1	1	1	1	0	0
		End Depth	2	2	2	2	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
PCBs								
Aroclor 1268	11100-14-4	NC	0.036 U	0.037 U	0.037 U	0.035 U	0.048 U	0.049 U
Aroclor-1016	12674-11-2	NC	0.036 U	0.037 U	0.037 U	0.035 U	0.048 U	0.049 U
Aroclor-1221	11104-28-2	NC	0.036 U	0.037 U	0.037 U	0.035 U	0.048 U	0.049 U
Aroclor-1232	11141-16-5	NC	0.036 U	0.037 U	0.037 U	0.035 U	0.048 U	0.049 U
Aroclor-1242	53469-21-9	NC	0.036 U	0.037 U	0.037 U	0.035 U	0.048 U	0.049 U
Aroclor-1248	12672-29-6	NC	0.036 U	0.037 U	0.037 U	0.035 U	0.048 U	0.049 U
Aroclor-1254	11097-69-1	NC	0.036 U	0.037 U	0.037 U	0.035 U	0.048 U	0.04 J
Aroclor-1260	11096-82-5	NC	0.036 U	0.037 U	0.037 U	0.035 U	0.018 J	0.023 J
PCB-1262	37324-23-5	NC	0.036 U	0.037 U	0.037 U	0.035 U	0.048 U	0.049 U
Total PCBs	1336-36-3	0.1	0.036 U	0.037 U	0.037 U	0.035 U	0.018 J	0.063

Notes:

NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
Exceeds Unrestricted SCO listed in Part 375.

Table 6D1 - Existing Surface Cover Soil Results Compared to Un
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-124	SS-125	SS-126	SS-127	SS-128	SS-129
		Sample ID	SS-124-1-2-092216	SS-125-1-2-092216	SS-126-0-0.17-092016	SS-127-0-0.17-092016	SS-128-0-0.17-092016	SS-129-0-0.17-092016
		Sample Date	9/22/2016	9/22/2016	9/20/2016	9/20/2016	9/20/2016	9/20/2016
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Lab SDG	2177432	2177432	2177436	2177436	2177436	2177436
		Start Depth	1	1	0	0	0	0
		End Depth	2	2	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
PCBs								
Aroclor 1268	11100-14-4	NC	0.055	0.036 U	0.27 U	0.05 U	0.047 U	0.049 U
Aroclor-1016	12674-11-2	NC	0.036 U	0.036 U	0.27 U	0.05 U	0.047 U	0.049 U
Aroclor-1221	11104-28-2	NC	0.036 U	0.036 U	0.27 U	0.05 U	0.047 U	0.049 U
Aroclor-1232	11141-16-5	NC	0.036 U	0.036 U	0.27 U	0.05 U	0.047 U	0.049 U
Aroclor-1242	53469-21-9	NC	0.036 U	0.036 U	0.27 U	0.05 U	0.047 U	0.049 U
Aroclor-1248	12672-29-6	NC	0.036 U	0.036 U	0.82 J	0.05 U	0.39	0.049 U
Aroclor-1254	11097-69-1	NC	0.11 J	0.036 U	2.6	0.21	1.3	0.28 J
Aroclor-1260	11096-82-5	NC	0.12	0.034 J	1.3	0.088	0.49	0.074
PCB-1262	37324-23-5	NC	0.036 U	0.036 U	0.27 U	0.05 U	0.047 U	0.049 U
Total PCBs	1336-36-3	0.1	0.29	0.034 J	4.7	0.29	2.1	0.35

Notes:

NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
Exceeds Unrestricted SCO listed in Part 375.

Table 6D1 - Existing Surface Cover Soil Results Compared to Un
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-131	SS-132	SS-135	SS-138	SS-143	SS-145
		Sample ID	SS-131-0-0.17-092016	SS-132-1-1.5-092216	SS-135-0-0.17-091916	SS-138-0.5-1-092016	SS-143-0-0.17-091916	SS-145-0.5-1.5-092116
		Sample Date	9/20/2016	9/22/2016	9/19/2016	9/20/2016	9/19/2016	9/21/2016
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Lab SDG	2177436	2177432	2176860	2177433	2176860	2177433
		Start Depth	0	1	0	0.5	0	0.5
		End Depth	0.17	1.5	0.17	1	0.17	1.5
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
PCBs								
Aroclor 1268	11100-14-4	NC	0.036 U	0.034 U	0.044 U	0.034 U	0.047 U	0.039 U
Aroclor-1016	12674-11-2	NC	0.036 U	0.034 U	0.044 U	0.034 U	0.047 U	0.039 U
Aroclor-1221	11104-28-2	NC	0.036 U	0.034 U	0.044 U	0.034 U	0.047 U	0.039 U
Aroclor-1232	11141-16-5	NC	0.036 U	0.034 U	0.044 U	0.034 U	0.047 U	0.039 U
Aroclor-1242	53469-21-9	NC	0.036 U	0.034 U	0.044 U	0.034 U	0.047 U	0.039 U
Aroclor-1248	12672-29-6	NC	0.036 U	0.034 U	0.044 U	0.034 U	0.047 U	0.039 U
Aroclor-1254	11097-69-1	NC	0.036 U	0.034 U	0.044 U	0.034 U	0.047 U	0.039 U
Aroclor-1260	11096-82-5	NC	0.011 J	0.013 J	0.044 U	0.034 U	0.047 U	0.039 U
PCB-1262	37324-23-5	NC	0.036 U	0.034 U	0.044 U	0.034 U	0.047 U	0.039 U
Total PCBs	1336-36-3	0.1	0.011 J	0.013 J	0.044 U	0.034 U	0.047 U	0.039 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
Exceeds Unrestricted SCO listed in Part 375.

Table 6E - Surface Soil Results Compared to Unrestricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-101	SS-103	SS-105	SS-106	SS-108	SS-109	SS-111	SS-112	SS-114	SS-115
		Sample ID	SS-101-0-0.17-092016	SS-103-0-0.17-092016	SS-105-0-0.17-091916	SS-106-0-0.17-091916	SS-108-0-0.17-091916	SS-109-0-0.17-091916	SS-111-0-0.17-091916	SS-112-0-0.17-091916	SS-114-0-0.17-092016	SS-115-0-0.17-092016
		Sample Date	9/20/2016	9/20/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/20/2016	9/20/2016
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Lab SDG	R1609909	R1609909	R1609864	R1609864	R1609864	R1609864	R1609864	R1609864	R1609909	R1609909
		Start Depth	0	0	0	0	0	0	0	0	0	0
		End Depth	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]										
Inorganics												
Aluminum	7429-90-5	NC	3,530 J	6,230 J	5,430	7,290	5,080	7,660	12,700	5,890	2,970 J	9,970 J
Antimony	7440-36-0	NC	7.4 U	7.3 U	1.7 J	0.353 J	8 U	0.873 J	1.4 J	26.3	6.9 J	8.8 U
Arsenic	7440-38-2	13	2.3	5.9	7.8	7.7	3.7	9.1	19	21.3	16.9	37.2
Barium	7440-39-3	350	31.3 J	110 J	491	68.2	39.8	94.9	90.1	466	99.4 J	138 J
Beryllium	7440-41-7	7.2	0.172 J	0.315 J	0.461 J	0.441 U	0.399 U	0.452	0.809	0.486	0.414	0.788
Cadmium	7440-43-9	2.5	0.185 J	0.763	2.3	0.734	0.666 U	0.753 U	1.2	2.8	5	1.5
Calcium	7440-70-2	NC	2820	3,580	12,900	18,100	16,500	13,000	21,500	18,000	8,460	11,400
Chromium	7440-47-3	1*	5.9 J	10.2 J	28.7	12.6	8.3	15.7	34.6	29.9	11.8 J	27.4 J
Cobalt	7440-48-4	NC	2.8 J	4.3 J	7 J	5.4 J	4.1 J	6.1 J	7.5 J	8.8	8.7	7.7
Copper	7440-50-8	50	9.3 J	21.3 J	3,980	33	22.1	29.7	58.6	2,410	78.9 J	34.3 J
Cyanide	57-12-5	27	0.16 J	0.23 J	1.01	0.86	0.31	0.72	1.09	0.6	0.57 J	0.48 J
Iron	7439-89-6	NC	7,670 J	13,200 J	14,200	14,500	11,300	21,400	21,400	34,900	28,700 J	27,200 J
Lead	7439-92-1	63	51.8	204	652	177	68.9	82.2	148	2,640	265	128
Magnesium	7439-95-4	NC	1,070	1,410	2,100	5,420	5,380	4,380	11,100	8,210	1,570	8,060
Manganese	7439-96-5	1600	228	311	285	399	305	657	322	340	170	287
Mercury	7439-97-6	0.18	0.083 N	0.387 N	0.352 J	0.405 J	0.2 J	0.162 J	0.263 J	0.633 J	0.128 N	0.333 N
Nickel	7440-02-0	30	5.3	8.2	6.1 U	11	7.4	12.2	18.7	10.1	20.6	16.2
Potassium	7440-09-7	NC	681	881	979	1,520	1,210	1,230	2520	1,000	576	2,210
Selenium	7782-49-2	3.9	1 J	1.1 J	3	2.4	1.7	3	3.2	1.2 U	1.5	1.7
Silver	7440-22-4	2	0.111 J	0.206 J	1.3 J	0.25 J	0.107 J	0.346 J	0.953 J	1.6	0.954 J	0.321 J
Sodium	7440-23-5	NC	123 U	121 U	154 U	147 U	133 U	151 U	187	318	125 U	216
Thallium	7440-28-0	NC	1.2 U	1.2 U	1.5 U	1.5 U	1.3 U	1.5 U	1.8 U	1.2 U	1.3 U	1.5 U
Vanadium	7440-62-2	NC	11.2	17	19.5	19.4	15.7	22.1	37.6	23.7	15.7	35
Zinc	7440-66-6	109	59.9 J	353 J	1130	178	107	110	173	1,770	695 J	363 J

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
* - Chromium criteria is for hexavalent chromium as conservative value. Results are total chromium.

Exceeds Unrestricted SCO listed in Part 375.

Table 6E - Surface Soil Results Compared to Unrestricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-116	SS-121	SS-123	SS-129	SS-131	SS-134	SS-135	SS-136	SS-139	SS-140
		Sample ID	SS-116-0-0.17-092016	SS-121-0-0.17-092016	SS-123-0-0.17-092016	SS-129-0-0.17-092016	SS-131-0-0.17-092016	SS-134-0-0.17-091916	SS-135-0-0.17-091916	SS-136-0-0.17-091916	SS-139-0-0.17-091916	SS-140-0-0.17-091916
		Sample Date	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Lab SDG	R1609909	R1609909	R1609909	R1609909	R1609909	R1609864	R1609864	R1609864	R1609864	R1609864
		Start Depth	0	0	0	0	0	0	0	0	0	0
		End Depth	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]										
Inorganics												
Aluminum	7429-90-5	NC	9,050 J	4,050 J	6,870 J	6,430 J	4,540 J	6,610	1,660	6,880	6,790	14,000
Antimony	7440-36-0	NC	1.2 J	7.9 U	1.9 J	8.6 U	6.5 U	7.6 U	1.5 J	7.7 U	8.1 U	0.754 J
Arsenic	7440-38-2	13	21.4	9.5	20.9	5.7	3.6	4.9	37.9	7.1	12.8	23.8
Barium	7440-39-3	350	201 J	38.2 J	95.2 J	3,690 J	58.3 J	47	98.6	48.5	52	55.9
Beryllium	7440-41-7	7.2	0.756	0.341 J	0.657	0.316 J	0.293 J	0.379 U	0.388 U	0.384	0.404 U	0.769
Cadmium	7440-43-9	2.5	3.4	0.563 J	1.1	2.3	0.325 J	0.632 U	0.646 U	0.64 U	0.675 U	0.905
Calcium	7440-70-2	NC	19,800	58,700	14,200	66,900	145,000	12,300	3780	3,080	6,390	15,200
Chromium	7440-47-3	1*	28.2 J	9.6 J	17.8 J	14.6 J	8.2 J	9.1	7.4	10.1	10.3	37.2
Cobalt	7440-48-4	NC	6.6 J	4.5 J	9.1	7.3	3.1 J	5.5 J	3.9 J	7.7	7.9	5.3 J
Copper	7440-50-8	50	59.8 J	20.5 J	75.3 J	31.1 J	21.2 J	18.1	72.8	17.2	23.2	79.5
Cyanide	57-12-5	27	1.37 J	0.24 J	0.49 J	0.06 J	0.04 J	0.36	0.55	0.22	0.38	0.69
Iron	7439-89-6	NC	19,200 J	13,500 J	31,500 J	22,600 J	13,900 J	13,000	16,500	16,600	17,000	14,600
Lead	7439-92-1	63	264	96.8	232	1,440	57.4	24.7	109	27	33.7	85.4
Magnesium	7439-95-4	NC	10,900	30,600	5,750	32,600	20,100	7,090	540	2,510	2,880	13,800
Manganese	7439-96-5	1600	228	249	335	417	251	425	183	341	346	188
Mercury	7439-97-6	0.18	0.605 N	0.117 N	0.735 N	1.1 N	0.041 N	0.135 J	0.706 J	0.048 J	0.063	0.204 J
Nickel	7440-02-0	30	16.5	9.3	20.8	10.9	8.4	9.8	6.1	16	15.9	13.5
Potassium	7440-09-7	NC	2770	1,230	1,180	935	755	1,170	405	1,480	1,630	2,700
Selenium	7782-49-2	3.9	2.6	1.2 J	1.6	0.651 J	1.1 U	1.6	2.1	1.3	1.6	2.6
Silver	7440-22-4	2	0.616 J	0.419 J	0.719 J	0.603 J	0.087 J	0.089 J	0.336 J	0.218 J	0.162 J	0.483 J
Sodium	7440-23-5	NC	184	131 U	153 U	144 U	292	126 U	129 U	128 U	135 U	258
Thallium	7440-28-0	NC	1.8 U	1.3 U	1.5 U	1.4 U	1.9	1.3 U	1.3 U	1.3 U	1.4 U	1.5 U
Vanadium	7440-62-2	NC	29.3	11.9	21.1	15.1	16.8	15	9.8	14.6	14.6	42.5
Zinc	7440-66-6	109	537 J	118 J	279 J	2,470 J	126 J	79.3	126	62.5	99.8	109

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
* - Chromium criteria is for hexavalent chromium as conservative value. Results are

Exceeds Unrestricted SCO listed in Part 375.

Table 6E - Surface Soil Results Compared to Unrestricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-148	SS-149	SS-150	SS-150	SS-152	SS-153
		Sample ID	SS-148-0-0.17-092016	SS-149-0-0.17-091916	DUP-006-091916	SS-150-0-0.17-091916	SS-152-0-0.17-091916	SS-153-0-0.17-091916
		Sample Date	9/20/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Lab SDG	R1609909	R1609864	R1609864	R1609864	R1609864	R1609864
		Start Depth	0	0	0	0	0	0
		End Depth	0.17	0.17	0.17	0.17	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
Inorganics								
Aluminum	7429-90-5	NC	6,620 J	4,420	6,220	6,540	8,240	8,180
Antimony	7440-36-0	NC	1.8 J	1.1 J	7.7 U	7.4 U	6.8 U	7.5 U
Arsenic	7440-38-2	13	65.4	42.5	7.3	7.7	6.7	7.1
Barium	7440-39-3	350	305 J	67.7	46.5	47.2	48.6	68.5
Beryllium	7440-41-7	7.2	0.964	0.511	0.386 U	0.369 U	0.455	0.447
Cadmium	7440-43-9	2.5	2.5	0.623 U	0.643 U	0.616 U	0.569 U	0.621 U
Calcium	7440-70-2	NC	18,100	14,000	4,760	4,620	51,000	2,820
Chromium	7440-47-3	1*	17.6 J	9.9	9.7	10	10.8	12.2
Cobalt	7440-48-4	NC	8.5	6.9	7.6	7.9	6.5	10.7
Copper	7440-50-8	50	55.1 J	84	22.1	19.7	15.5	16.6
Cyanide	57-12-5	27	0.96 J	0.32	0.32	0.25	0.12	0.13
Iron	7439-89-6	NC	26,300 J	17,800	15,200	16,500	15,600	27,400
Lead	7439-92-1	63	176	90.6	35	36	117	23.8
Magnesium	7439-95-4	NC	6,600	4,360	2,700	2,750	19,100	2,670
Manganese	7439-96-5	1600	308	249	322	338	324	435
Mercury	7439-97-6	0.18	0.857	0.298 J	0.081	0.08 J	0.058 J	0.047 J
Nickel	7440-02-0	30	27.1	13.9	15.5	16.2	10.8	17.7
Potassium	7440-09-7	NC	1,490	1,130	1,290	1,320	1,540	1,220
Selenium	7782-49-2	3.9	3.1	2.2	1.3 U	1.7	1.2 U	1.2 U
Silver	7440-22-4	2	0.597 J	0.361 J	0.283 J	0.283 J	0.057 J	0.099 J
Sodium	7440-23-5	NC	136 U	125 U	129 U	123 U	117 U	124 U
Thallium	7440-28-0	NC	1.4 U	1.3 U	1.3 U	1.2 U	1.1 U	1.2 U
Vanadium	7440-62-2	NC	25.5	17.3	14.4	15.1	18.8	17.2
Zinc	7440-66-6	109	569 J	80.5	90.3	89.6	42.4	70.6

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
* - Chromium criteria is for hexavalent chromium as conservative value. Results are

Exceeds Unrestricted SCO listed in Part 375.

Table 6E1 - Existing Surface Cover Soil Results Compared to Unrestricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-101	SS-103	SS-105	SS-106	SS-108	SS-109	SS-110	SS-111	SS-112	SS-113	SS-113
		Sample ID	SS-101-0-0.17-092016	SS-103-0-0.17-092016	SS-105-0-0.17-091916	SS-106-0-0.17-091916	SS-108-0-0.17-091916	SS-109-0-0.17-091916	SS-110-1-2-092116	SS-111-0-0.17-091916	SS-112-0-0.17-091916	DUP-005-092116	SS-113-1-2-092116
		Sample Date	9/20/2016	9/20/2016	9/19/2016	9/19/2016	9/19/2016	9/19/2016	9/21/2016	9/19/2016	9/19/2016	9/21/2016	9/21/2016
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Lab SDG	R1609909	R1609909	R1609864	R1609864	R1609864	R1609864	R1609954	R1609864	R1609864	R1609954	R1609954
		Start Depth	0	0	0	0	0	0	1	0	0	1	1
		End Depth	0.17	0.17	0.17	0.17	0.17	0.17	2	0.17	0.17	2	2
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]											
Inorganics													
Aluminum	7429-90-5	NC	3,530 J	6,230 J	5,430	7,290	5,080	7,660	2,820	12,700	5,890	7,690	6,900
Antimony	7440-36-0	NC	7.4 U	7.3 U	1.7 J	0.353 J	8 U	0.873 J	1.9 J	1.4 J	26.3	6.7 UJ	6.9 UJ
Arsenic	7440-38-2	13	2.3	5.9	7.8	7.7	3.7	9.1	16.9	19	21.3	26.5	24.5
Barium	7440-39-3	350	31.3 J	110 J	491	68.2	39.8	94.9	111	90.1	466	103	102
Beryllium	7440-41-7	7.2	0.172 J	0.315 J	0.461 J	0.441 U	0.399 U	0.452	0.547	0.809	0.486	0.533	0.485
Cadmium	7440-43-9	2.5	0.185 J	0.763	2.3	0.734	0.666 U	0.753 U	0.186 J	1.2	2.8	0.388 J	0.439 J
Calcium	7440-70-2	NC	2820	3,580	12,900	18,100	16,500	13,000	6,170	21,500	18,000	19,100	16,700
Chromium	7440-47-3	1*	5.9 J	10.2 J	28.7	12.6	8.3	15.7	7.4	34.6	29.9	12.8	11.5
Cobalt	7440-48-4	NC	2.8 J	4.3 J	7 J	5.4 J	4.1 J	6.1 J	6.8	7.5 J	8.8	12.2	10.8
Copper	7440-50-8	50	9.3 J	21.3 J	3,980	33	22.1	29.7	43.8	58.6	2,410	26.4	25.4
Cyanide	57-12-5	27	0.16 J	0.23 J	1.01	0.86	0.31	0.72	0.26	1.09	0.6	0.13	0.26
Iron	7439-89-6	NC	7,670 J	13,200 J	14,200	14,500	11,300	21,400	28,500	21,400	34,900	35,100	34,900
Lead	7439-92-1	63	51.8	204	652	177	68.9	82.2	82.7	148	2,640	47.7	45.9
Magnesium	7439-95-4	NC	1,070	1,410	2,100	5,420	5,380	4,380	2,970	11,100	8,210	11,300	9,710
Manganese	7439-96-5	1600	228	311	285	399	305	657	155	322	340	448	436
Mercury	7439-97-6	0.18	0.083 N	0.387 N	0.352 J	0.405 J	0.2 J	0.162 J	0.19	0.263 J	0.633 J	0.267	0.314
Nickel	7440-02-0	30	5.3	8.2	6.1 U	11	7.4	12.2	13.9	18.7	10.1	24	21.3
Potassium	7440-09-7	NC	681	881	979	1,520	1,210	1,230	557	2520	1,000	1,190	1,100
Selenium	7782-49-2	3.9	1 J	1.1 J	3	2.4	1.7	3	1.1 J	3.2	1.2 U	2.4	1.9
Silver	7440-22-4	2	0.111 J	0.206 J	1.3 J	0.25 J	0.107 J	0.346 J	0.077 J	0.953 J	1.6	0.122 J	0.104 J
Sodium	7440-23-5	NC	123 U	121 U	154 U	147 U	133 U	151 U	109 U	187	318	142	129
Thallium	7440-28-0	NC	1.2 U	1.2 U	1.5 U	1.5 U	1.3 U	1.5 U	1.1 U	1.8 U	1.2 U	1.1 U	1.2 U
Vanadium	7440-62-2	NC	11.2	17	19.5	19.4	15.7	22.1	13.7	37.6	23.7	19	17.1
Zinc	7440-66-6	109	59.9 J	353 J	1130	178	107	110	37.2	173	1,770	120	126

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
* - Chromium criteria is for hexavalent chromium as conservative value. Results are total chromium.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 6E1 - Existing Surface Cover Soil Results Compared to Unr
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SS-114	SS-115	SS-116	SS-117	SS-118	SS-119	SS-120	SS-121	SS-122	SS-123	SS-124
	Sample ID	SS-114-0-0.17-092016	SS-115-0-0.17-092016	SS-116-0-0.17-092016	SS-117-1-1.5-092116	SS-118-1-2-092116	SS-119-0-0.5-092116	SS-120-0.5-1-092116	SS-121-0-0.17-092016	SS-122-1.5-2-092116	SS-123-0-0.17-092016	SS-124-1-2-092216
	Sample Date	9/20/2016	9/20/2016	9/20/2016	9/21/2016	9/21/2016	9/21/2016	9/21/2016	9/20/2016	9/21/2016	9/20/2016	9/22/2016
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	R1609909	R1609909	R1609909	R1609954	R1609954	R1609954	R1609954	R1609909	R1609954	R1609909	R1610012
	Start Depth	0	0	0	1	1	0	0.5	0	1.5	0	1
	End Depth	0.17	0.17	0.17	1.5	2	0.5	1	0.17	2	0.17	2
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]										
Inorganics												
Aluminum	7429-90-5	NC	2,970 J	9,970 J	9,050 J	9,700	7,350	3,960	9,480	4,050 J	5,740	6,870 J	3,830
Antimony	7440-36-0	NC	6.9 J	8.8 U	1.2 J	6.7 UJ	6.4 UJ	7.2 UJ	6.7 UJ	7.9 U	7.2 UJ	1.9 J	4.5 J
Arsenic	7440-38-2	13	16.9	37.2	21.4	28.8	8.4	3.9	18.2	9.5	40.4	20.9	20.9
Barium	7440-39-3	350	99.4 J	138 J	201 J	99	49.2	51.3	76.2	38.2 J	63.7	95.2 J	97.5
Beryllium	7440-41-7	7.2	0.414	0.788	0.756	0.775	0.47	0.226 J	0.611	0.341 J	0.623	0.657	0.621
Cadmium	7440-43-9	2.5	5	1.5	3.4	0.764	0.267 J	0.465 J	0.567	0.563 J	0.359 J	1.1	2.5
Calcium	7440-70-2	NC	8,460	11,400	19,800	13,700	58,300	29,500	19,400	58,700	5960	14,200	11,600 J
Chromium	7440-47-3	1*	11.8 J	27.4 J	28.2 J	24.5	12.2	7.4	18	9.6 J	11.2	17.8 J	26.3 J
Cobalt	7440-48-4	NC	8.7	7.7	6.6 J	9.3	8.1	4 J	9.2	4.5 J	8.3	9.1	11
Copper	7440-50-8	50	78.9 J	34.3 J	59.8 J	27.4	22.3	43.3	33.4	20.5 J	28.9	75.3 J	831
Cyanide	57-12-5	27	0.57 J	0.48 J	1.37 J	0.25	0.1	0.45	0.16	0.24 J	0.11 J	0.49 J	0.11 U
Iron	7439-89-6	NC	28,700 J	27,200 J	19,200 J	21,100	19,600	11,500	29,200	13,500 J	27,700	31,500 J	38,100
Lead	7439-92-1	63	265	128	264	85.4	31.7	189	147	96.8	69.4	232	424
Magnesium	7439-95-4	NC	1,570	8,060	10,900	11,100	28,500	8,770	10,600	30,600	3,810	5,750	5,510 J
Manganese	7439-96-5	1600	170	287	228	211	422	292	275	249	200	335	558
Mercury	7439-97-6	0.18	0.128 N	0.333 N	0.605 N	0.146	0.107	0.181	0.668	0.117 N	0.291	0.735 N	0.286
Nickel	7440-02-0	30	20.6	16.2	16.5	20.6	16.2	8.5	20.1	9.3	16.1	20.8	51
Potassium	7440-09-7	NC	576	2,210	2770	1,590	1420	986	1,460	1,230	881	1,180	514
Selenium	7782-49-2	3.9	1.5	1.7	2.6	0.989 J	1.1 U	1.2 U	1.4	1.2 J	2.3	1.6	2
Silver	7440-22-4	2	0.954 J	0.321 J	0.616 J	0.079 J	0.139 J	0.238 J	0.322 J	0.419 J	0.096 J	0.719 J	0.686 J
Sodium	7440-23-5	NC	125 U	216	184	151	120	119 U	140	131 U	120 U	153 U	109 U
Thallium	7440-28-0	NC	1.3 U	1.5 U	1.8 U	1.1 U	1.1 U	1.2 U	11.1 U	1.3 U	1.2 U	1.5 U	1.1 U
Vanadium	7440-62-2	NC	15.7	35	29.3	29.9	16.6	15.3	24.2	11.9	15.9	21.1	16.7
Zinc	7440-66-6	109	695 J	363 J	537 J	165	171	118	127	118 J	113	279 J	940

Notes:

NC - No criteria exists, NA - Not Available

Sample Type Code: N-Normal, FD-Field Duplicate

START and END DEPTH - feet below ground surface

mg/kg - milligrams per kilogram

R - Result rejected during validation due to QA/QC excursion.

U - Not detected at the detection limit shown

B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits

J - Estimated value

JN - Detection is tentative in identification and estimated in value

[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

* - Chromium criteria is for hexavalent chromium as conservative value. Results are total chromium.

[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Unrestricted SCO listed in Part 375.

Table 6E1 - Existing Surface Cover Soil Results Compared to Unr
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SS-125	SS-129	SS-130	SS-131	SS-132	SS-133	SS-134	SS-135	SS-136	SS-137	SS-138
	Sample ID	SS-125-1-2-092216	SS-129-0-0.17-092016	SS-130-0.5-1.5-092216	SS-131-0-0.17-092016	SS-132-1-1.5-092216	SS-133-1-2-092016	SS-134-0-0.17-091916	SS-135-0-0.17-091916	SS-136-0-0.17-091916	SS-137-1.5-2-092016	SS-138-0.5-1-092016
	Sample Date	9/22/2016	9/20/2016	9/22/2016	9/20/2016	9/22/2016	9/20/2016	9/19/2016	9/19/2016	9/19/2016	9/20/2016	9/20/2016
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	R1610012	R1609909	R1610012	R1609909	R1610012	R1609909	R1609864	R1609864	R1609864	R1609909	R1609954
	Start Depth	1	0	0.5	0	1	1	0	0	0	1.5	0.5
	End Depth	2	0.17	1.5	0.17	1.5	2	0.17	0.17	0.17	2	1
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]										
Inorganics												
Aluminum	7429-90-5	NC	3,790	6,430 J	6,620	4,540 J	4,860	3,880 J	6,610	1,660	6,880	5,800 J	6,730 J
Antimony	7440-36-0	NC	0.69 J	8.6 U	6.9 U	6.5 U	6.4 U	14.4	7.6 U	1.5 J	7.7 U	6.7 U	6.4 UJ
Arsenic	7440-38-2	13	18.2	5.7	20.6	3.6	5.5	30.5	4.9	37.9	7.1	5	7.4 J
Barium	7440-39-3	350	98.7	3,690 J	123	58.3 J	49.8	119 J	47	98.6	48.5	42.7 J	46.9 J
Beryllium	7440-41-7	7.2	0.654	0.316 J	0.949	0.293 J	0.308 J	0.623	0.379 U	0.388 U	0.384	0.325 J	0.375 J
Cadmium	7440-43-9	2.5	1.4	2.3	0.625	0.325 J	0.531 U	0.634	0.632 U	0.646 U	0.64 U	0.101 J	0.182 J
Calcium	7440-70-2	NC	14,000 J	66,900	26,900 J	145,000	103,000 J	12,700	12,300	3780	3,080	12,300	2410 J
Chromium	7440-47-3	1*	28.5 J	14.6 J	13.1 J	8.2 J	7.6 J	11.1 J	9.1	7.4	10.1	9.2 J	10.3 J
Cobalt	7440-48-4	NC	10	7.3	11.3	3.1 J	4.2 J	7.9	5.5 J	3.9 J	7.7	6.7	8.4 J
Copper	7440-50-8	50	73.5	31.1 J	41.7	21.2 J	22.8	175 J	18.1	72.8	17.2	13.1 J	14 J
Cyanide	57-12-5	27	0.23	0.06 J	0.31	0.04 J	0.032 J	0.36 J	0.36	0.55	0.22	0.03 J	0.043 J
Iron	7439-89-6	NC	36,300	22,600 J	22,800	13,900 J	11,000	26,400 J	13,000	16,500	16,600	15,100 J	17,600 J
Lead	7439-92-1	63	105	1,440	83	57.4	72.4	1,450	24.7	109	27	13.4	17.8 J
Magnesium	7439-95-4	NC	6,820 J	32,600	14,700 J	20,100	13,400 J	3,350	7,090	540	2,510	4,620	2,980 J
Manganese	7439-96-5	1600	747	417	157	251	334	213	425	183	341	224	371 J
Mercury	7439-97-6	0.18	0.263	1.1 N	0.338	0.041 N	0.279	6.9 N	0.135 J	0.706 J	0.048 J	0.022 NJ	0.03 J
Nickel	7440-02-0	30	25	10.9	27	8.4	9.6	16.5	9.8	6.1	16	13.6	17.3 J
Potassium	7440-09-7	NC	653	935	683	755	981	636	1,170	405	1,480	882	922 J
Selenium	7782-49-2	3.9	11.9 U	0.651 J	11.6 U	1.1 U	1.1 U	0.78 J	1.6	2.1	1.3	0.71 J	1.1 UJ
Silver	7440-22-4	2	0.345 J	0.603 J	0.069 J	0.087 J	0.064 J	0.436 J	0.089 J	0.336 J	0.218 J	1.1 U	1.1 UJ
Sodium	7440-23-5	NC	140	144 U	116 U	292	183	155	126 U	129 U	128 U	112 U	107 UJ
Thallium	7440-28-0	NC	1.2 U	1.4 U	1.2 U	1.9	0.648 J	1 U	1.3 U	1.3 U	1.3 U	1.1 U	1.1 UJ
Vanadium	7440-62-2	NC	15.9	15.1	19	16.8	19.8	20	15	9.8	14.6	13.8	14 J
Zinc	7440-66-6	109	309	2,470 J	349	126 J	77.6	231 J	79.3	126	62.5	42.9 J	55.5 J

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
* - Chromium criteria is for hexavalent chromium as conservative value. Results are total chromium.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 6E1 - Existing Surface Cover Soil Results Compared to Unr
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-139	SS-140	SS-141[BB]	SS-142	SS-144	SS-145
		Sample ID	SS-139-0-0.17-091916	SS-140-0-0.17-091916	SS-141-1-2-092116	SS-142-0.5-1.5-092116	SS-144-0.5-1.5-092116	SS-145-0.5-1.5-092116
		Sample Date	9/19/2016	9/19/2016	9/21/2016	9/21/2016	9/21/2016	9/21/2016
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Lab SDG	R1609864	R1609864	R1609954	R1609954	R1609954	R1609954
		Start Depth	0	0	1	0.5	0.5	0.5
		End Depth	0.17	0.17	2	1.5	1.5	1.5
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
Inorganics								
Aluminum	7429-90-5	NC	6,790	14,000	22,300	5,230	7,050	2,710
Antimony	7440-36-0	NC	8.1 U	0.754 J	8.1 UJ	2.3 J	6.5 UJ	0.486 J
Arsenic	7440-38-2	13	12.8	23.8	29.3	14.3	7.1	48.6
Barium	7440-39-3	350	52	55.9	44.3	257	52.9	49.5
Beryllium	7440-41-7	7.2	0.404 U	0.769	0.886	0.676	0.387	0.474
Cadmium	7440-43-9	2.5	0.675 U	0.905	1.2	1.5	0.237 J	0.095 J
Calcium	7440-70-2	NC	6,390	15,200	48,900	9,180	1,900	3,220
Chromium	7440-47-3	1*	10.3	37.2	54.8	27.2	10.6	6.8
Cobalt	7440-48-4	NC	7.9	5.3 J	3.4 J	7.7	8.2	6.6
Copper	7440-50-8	50	23.2	79.5	11.8	291	15.3	84.9
Cyanide	57-12-5	27	0.38	0.69	0.34	1.31	0.07 J	0.58
Iron	7439-89-6	NC	17,000	14,600	15,700	22,200	17,500	8,560
Lead	7439-92-1	63	33.7	85.4	43.2	346	22.5	56.4
Magnesium	7439-95-4	NC	2,880	13,800	31,100	2,990	2,580	681
Manganese	7439-96-5	1600	346	188	135	205	316	96.1
Mercury	7439-97-6	0.18	0.063	0.204 J	0.134	2.9	0.046	0.096
Nickel	7440-02-0	30	15.9	13.5	17.1	15.1	17.1	13.3
Potassium	7440-09-7	NC	1,630	2,700	2,740	895	1010	693
Selenium	7782-49-2	3.9	1.6	2.6	0.846 J	2	1.1 U	1.7
Silver	7440-22-4	2	0.162 J	0.483 J	0.161 J	0.27 J	0.054 J	0.071 J
Sodium	7440-23-5	NC	135 U	258	715	137	108 U	118 U
Thallium	7440-28-0	NC	1.4 U	1.5 U	1.3 U	1.1 U	1.1 U	1.2 U
Vanadium	7440-62-2	NC	14.6	42.5	58.7	16.9	14.6	15.9
Zinc	7440-66-6	109	99.8	109	136	487	55.8	25.8

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
* - Chromium criteria is for hexavalent chromium as conservative value. Results are total chromium.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 6E1 - Existing Surface Cover Soil Results Compared to Unr
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SS-147	SS-148	SS-149	SS-150	SS-150	SS-151	SS-152	SS-153
		Sample ID	SS-147-0.5-1.5-092116	SS-148-0-0.17-092016	SS-149-0-0.17-091916	DUP-006-091916	SS-150-0-0.17-091916	SS-151-0-0.5-092116	SS-152-0-0.17-091916	SS-153-0-0.17-091916
		Sample Date	9/21/2016	9/20/2016	9/19/2016	9/19/2016	9/19/2016	9/21/2016	9/19/2016	9/19/2016
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Lab SDG	R1609954	R1609909	R1609864	R1609864	R1609864	R1609954	R1609864	R1609864
		Start Depth	0.5	0	0	0	0	0	0	0
		End Depth	1.5	0.17	0.17	0.17	0.17	0.5	0.17	0.17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]								
Inorganics										
Aluminum	7429-90-5	NC	9,040	6,620 J	4,420	6,220	6,540	6,290	8,240	8,180
Antimony	7440-36-0	NC	6.8 UJ	1.8 J	1.1 J	7.7 U	7.4 U	7.1 UJ	6.8 U	7.5 U
Arsenic	7440-38-2	13	11.3	65.4	42.5	7.3	7.7	25.9	6.7	7.1
Barium	7440-39-3	350	86.6	305 J	67.7	46.5	47.2	52.1	48.6	68.5
Beryllium	7440-41-7	7.2	0.488	0.964	0.511	0.386 U	0.369 U	0.435	0.455	0.447
Cadmium	7440-43-9	2.5	0.386 J	2.5	0.623 U	0.643 U	0.616 U	0.341 J	0.569 U	0.621 U
Calcium	7440-70-2	NC	4,470	18,100	14,000	4,760	4,620	3,280	51,000	2,820
Chromium	7440-47-3	1*	17.3	17.6 J	9.9	9.7	10	11.2	10.8	12.2
Cobalt	7440-48-4	NC	6.7	8.5	6.9	7.6	7.9	8	6.5	10.7
Copper	7440-50-8	50	24	55.1 J	84	22.1	19.7	37	15.5	16.6
Cyanide	57-12-5	27	0.17	0.96 J	0.32	0.32	0.25	0.13	0.12	0.13
Iron	7439-89-6	NC	19,000	26,300 J	17,800	15,200	16,500	21,200	15,600	27,400
Lead	7439-92-1	63	47.5	176	90.6	35	36	49	117	23.8
Magnesium	7439-95-4	NC	3,750	6,600	4,360	2,700	2,750	2,610	19,100	2,670
Manganese	7439-96-5	1600	433	308	249	322	338	286	324	435
Mercury	7439-97-6	0.18	16.4	0.857	0.298 J	0.081	0.08 J	0.217	0.058 J	0.047 J
Nickel	7440-02-0	30	14.6	27.1	13.9	15.5	16.2	17.2	10.8	17.7
Potassium	7440-09-7	NC	1420	1,490	1,130	1,290	1,320	1,190	1,540	1,220
Selenium	7782-49-2	3.9	1.3	3.1	2.2	1.3 U	1.7	0.917 J	1.2 U	1.2 U
Silver	7440-22-4	2	0.057 J	0.597 J	0.361 J	0.283 J	0.283 J	0.282 J	0.057 J	0.099 J
Sodium	7440-23-5	NC	113 U	136 U	125 U	129 U	123 U	118 U	117 U	124 U
Thallium	7440-28-0	NC	1.1 U	1.4 U	1.3 U	1.3 U	1.2 U	1.2 U	1.1 U	1.2 U
Vanadium	7440-62-2	NC	25	25.5	17.3	14.4	15.1	16.3	18.8	17.2
Zinc	7440-66-6	109	159	569 J	80.5	90.3	89.6	77.9	42.4	70.6

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
* - Chromium criteria is for hexavalent chromium as conservative value. Results are total chromium.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 7A - Summary Statistics - Surface Soil Sample Exceedances of Criteria
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Number of Samples	Number Detected	Concentration Range		Unrestricted SCO		Residential SCO		Restricted Residential SCO		Maximum Concentration Location
			Minimum	Maximum	Criteria	Exceedances	Criteria	Exceedances	Criteria	Exceedances	
VOCs (µg/kg)											
Acetone	27	15	ND	130	50	3	100,000	0	100,000	0	SS-100
SVOCs (µg/kg)											
Benzo[a]anthracene	26	25	53.2	3,290	1,000	5	1,000	5	1,000	5	SS-135
Benzo[a]pyrene	26	26	51.9	3,780	1,000	8	1,000	8	1,000	8	SS-135
Benzo[b]fluoranthene	26	26	73.6	5,840	1,000	10	1,000	10	1,000	10	SS-135
Benzo[k]fluoranthene	26	23	46.6	2,200	800	4	1,000	4	3,900	0	SS-135
Chrysene	26	26	45.8	4,140	1,000	10	1,000	10	3,900	1	SS-135
Dibenzo[a,h]Anthracene	26	24	12.8	582	330	5	330	5	330	5	SS-135
Indeno[1,2,3-cd]pyrene	26	26	44.6	2,340	500	11	500	11	500	11	SS-135
2-Methylnaphthalene	26	22	8.3	1,190	NC	0	410[CP]	5	NC	0	SS-123

Notes:

*Chromium SCO is Hexavalent Chromium/Trivalent Chromium. Results are Total Chromium.

[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance,

mg/kg - milligrams per kilogram

NC - No Criteria

NA - Not Applicable

SCOs - Soil Cleanup Objectives per 6NYCRR Part 375 .

µg/kg - micrograms per kilogram

Table 7A - Summary Statistics - Surface Soil Sample Exceedances of Criteria
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Number of Samples	Number Detected	Concentration Range		Unrestricted SCO		Residential SCO		Restricted Residential SCO		Maximum Concentration Location
			Minimum	Maximum	Criteria	Exceedances	Criteria	Exceedances	Criteria	Exceedances	
Metals (mg/kg)											
Arsenic	27	27	2.3	65.4	13	10	16	10	16	10	SS-148
Barium	27	27	31.3	3690	350	3	350	3	400	3	SS-129
Cadmium	27	16	ND	5	2.5	5	2.5	3	4.3	1	SS-114
Chromium*	27	27	5.9	37.2	1/30	27/2	22/36	6/1	110/180	0/0	SS-140
Copper	27	27	9.3	3980	50	10	270	2	270	2	SS-105
Iron	27	27	7670	34900	NC	NA	2,000[CP]	27	NC	NA	SS-124
Lead	27	27	17.8	2640	63	18	400	3	400	3	SS-112
Mercury	27	27	0.03	1.1	0.18	14	0.81	2	0.81	2	SS-129
Zinc	27	27	42.4	2470	109	15	2200	1	10000	0	SS-129
PCBs (mg/kg)											
Total PCBs	9	7	ND	4.7	0.1	4	1	2	1	2	SS-126
Pesticides/Herbicides (µg/kg)											
4-4-DDE	10	6	ND	18.6	3.3	5	1800	0	8900	0	SS-114
4-4-DDT	10	6	ND	22.2	3.3	6	1700	0	7900	0	SS-140

Notes:

*Chromium SCO is Hexavalent Chromium/Trivalent Chromium. Results are Total Chromium.

[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance,

mg/kg - milligrams per kilogram

NC - No Criteria

NA - Not Applicable

SCOs - Soil Cleanup Objectives per 6NYCRR Part 375 .

µg/kg - micrograms per kilogram

Table 7B - Summary Statistics - Surface Cover Sample Exceedances of Criteria
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Number of Samples	Number Detected	Concentration Range		Unrestricted SCO		Residential SCO		Restricted Residential SCO		Maximum Concentration Location
			Minimum	Maximum	Criteria	Exceedances	Criteria	Exceedances	Criteria	Exceedances	
VOCs (µg/kg)											
Acetone	41	20	ND	130	50	3	100,000	0	100,000	0	SS-100
SVOCs (µg/kg)											
Acenaphthene	47	26	11.1	96,200	20,000	1	100,000	0	100,000	0	SS-141
Anthracene	47	43	11.4	184,000	100,000	1	100,000	1	100,000	1	SS-141
Benzo[a]anthracene	47	43	53.2	232,000	1,000	14	1,000	14	1,000	14	SS-141
Benzo[a]pyrene	47	45	46.9	202,000	1,000	17	1,000	17	1,000	17	SS-141
Benzo[b]fluoranthene	47	47	31.3	262,000	1,000	19	1,000	19	1,000	19	SS-141
Benzo[g,h,i]perylene	47	45	39.9	114,000	100,000	1	100,000	1	100,000	1	SS-141
Benzo[k]fluoranthene	47	42	29.4	99,400	800	11	1,000	9	3,900	3	SS-141
Chrysene	47	46	34.1	229,000	1,000	18	1,000	18	3,900	4	SS-141
Dibenzo[a,h]Anthracene	47	41	11.5	32,100	330	10	330	10	330	10	SS-141
Dibenzofuran	47	32	9.1	81,900	7,000	2	14,000	1	59,000	1	SS-141
Fluoranthene	47	47	38.1	598,000	100,000	2	100,000	2	100,000	2	SS-141
Fluorene	47	28	11.2	114,000	30,000	1	100,000	1	100,000	1	SS-141
Indeno[1,2,3-cd]pyrene	47	45	40.9	127,000	500	20	500	20	500	20	SS-141
Naphthalene	47	29	59.7	95,000	12,000	1	100,000[CP]	0	100,000	0	SS-141
Phenanthrene	47	47	20.7	733,000	100,000	2	100,000	2	100,000	2	SS-141
Pyrene	47	47	31.8	470,000	100,000	2	100,000	2	100,000	2	SS-141

Notes:

*Chromium SCO is Hexavalent Chromium/Trivalent Chromium. Results are Total Chromium.

[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance,

mg/kg - milligrams per kilogram

NC - No Criteria

NA - Not Applicable

SCOs - Soil Cleanup Objectives per 6NYCRR Part 375 .

µg/kg - micrograms per kilogram

Table 7B - Summary Statistics - Surface Cover Sample Exceedances of Criteria
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Number of Samples	Number Detected	Concentration Range		Unrestricted SCO		Residential SCO		Restricted Residential SCO		Maximum Concentration Location
			Minimum	Maximum	Criteria	Exceedances	Criteria	Exceedances	Criteria	Exceedances	
Metals (mg/kg)											
Arsenic	47	47	2.3	65	13	24	16	23	16	23	SS-148
Barium	47	47	31.3	3,690	350	3	350	3	400	3	SS-129
Cadmium	47	35	ND	5	2.5	5	2.5	3	4.3	1	SS-114
Chromium*	47	47	5.9	55	1/30	47/3	22/36	11/2	110/180	0/0	SS-141
Copper	47	47	9.3	3,980	50	15	270	4	270	4	SS-105
Iron	47	47	7,670	38,100	NC	NA	2,000[CP]	47	NC	NA	SS-124
Lead	47	47	13.4	2,640	63	29	400	5	400	5	SS-112
Mercury	47	36	0.03	16	0.18	28	0.81	5	0.81	5	SS-147
Nickel	47	46	5.3	51	30	1	140	0	310	0	SS-124
Zinc	47	47	25.8	2,470	109	30	2200	1	10,000	0	SS-129
PCBs (mg/kg)											
Total PCBs	18	10	ND	4.7	0.1	5	1	2	1	2	SS-126
Pesticides/Herbicides (µg/kg)											
4-4-DDE	21	9	ND	18.6	3.3	7	1,800	0	8,900	0	SS-135
4-4-DDT	21	10	ND	48.1	3.3	8	1,700	0	7,900	0	SS-124
Dieldrin	21	1	ND	20.7	5	1	39	0	200	0	SS-124

Notes:

*Chromium SCO is Hexavalent Chromium/Trivalent Chromium. Results are Total Chromium.

[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance,

mg/kg - milligrams per kilogram

NC - No Criteria

NA - Not Applicable

SCOs - Soil Cleanup Objectives per 6NYCRR Part 375 .

µg/kg - micrograms per kilogram

Table 7C - Summary Statistics - Subsurface Soil Sample Exceedances of Criteria
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Number of Samples	Number Detected	Concentration Range		Unrestricted SCO		Residential SCO		Restricted Residential SCO		Maximum Concentration Location
			Minimum	Maximum	Criteria	Exceedances	Criteria	Exceedances	Criteria	Exceedances	
VOCs (µg/kg)											
Benzene	212	23	ND	4,400	60	2	2,900	1	4,800	0	OVR-117
1,2,4-Trimethylbenzene	121	23	0.25	31,000	3,600	4	47	0	52	0	SB-169
1,3,5-Trimethylbenzene	121	17	0.53	22,000	8,400	3	47	0	52	0	OVR-117
2-Butanone (MEK)	121	58	1.2	240	120	1	100	0	100	0	TP-127
Acetone	121	73	2.2	420	50	13	100	0	100	0	TP-130
Ethylbenzene	121	17	0.086	12,000	1,000	1	30	0	41	0	OVR-117
n-Propylbenzene	121	5	40	4,300	3,900	1	100	0	100	0	OVR-117
Toluene	121	18	0.74	35,000	700	1	100	0	100	0	OVR-117
Total Xylenes	121	23	ND	88,110	260	5	100	0	100	0	SB-169
SVOCs (µg/kg)											
2-Methylnaphthalene	128	51	ND	30,600	NC	NA	410[CP]	9	NC	NA	OVR-117
Benzo[a]anthracene	128	65	ND	112,000	1,000	15	1,000	15	1,000	15	TP-117
Benzo[a]pyrene	128	52	ND	106,000	1,000	14	1,000	14	1,000	14	TP-117
Benzo[b]fluoranthene	128	60	ND	148,000	1,000	17	1,000	17	1,000	17	TP-117
Benzo[k]fluoranthene	128	40	ND	52,700	800	12	1,000	9	3,900	3	TP-117
Chrysene	128	61	ND	115,000	1,000	18	1,000	11	3,900	2	TP-117
Dibenzo[a,h]Anthracene	128	41	ND	17,300	330	12	330	12	330	12	TP-117
Fluoranthene	128	58	ND	230,000	100,000	1	100,000	1	100,000	1	TP-117
Indeno[1,2,3-cd]pyrene	128	53	ND	73,200	500	17	500	17	500	17	TP-117
m-Cresol & p-Cresol	128	23	ND	795	330	1	100,000	0	100,000	0	SB-130
Naphthalene	128	47	ND	359,000	12000	1	100,000	1	100,000	1	OVR-119
Phenanthrene	128	71	ND	121,000	100,000	1	100,000	1	100,000	1	TP-117
Phenol	128	8	ND	957	330	1	100,000	0	100,000	0	OVR-117
Pyrene	128	67	ND	197,000	100,000	1	100,000	1	100,000	1	TP-117

Notes:

*Chromium SCO is Hexavalent Chromium/Trivalent Chromium. Results are Total Chromium.

[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance,

mg/kg - milligrams per kilogram

NC - No Criteria

NA - Not Applicable

SCOs - Soil Cleanup Objectives per 6NYCRR Part 375 .

µg/kg - micrograms per kilogram

Table 7C - Summary Statistics - Subsurface Soil Sample Exceedances of Criteria
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Number of Samples	Number Detected	Concentration Range		Unrestricted SCO		Residential SCO		Restricted Residential SCO		Maximum Concentration Location
			Minimum	Maximum	Criteria	Exceedances	Criteria	Exceedances	Criteria	Exceedances	
Metals (mg/kg)											
Arsenic	123	123	0.857	510	13	31	16	27	16	27	TP-125
Cadmium	123	60	ND	7.6	2.5	2	2.5	2	4.3	2	TP-125
Chromium*	123	122	ND	129	1/30	122/13	22/36	16/12	110/180	1/0	SB-144
Copper	123	123	3.9	11,300	50	14	270	1	270	1	SB-133
Iron	123	123	4,120	156,000	NC	NA	2,000[CP]	123	NC	NA	TP-125
Lead	123	115	ND	1,080	63	23	400	4	400	4	SB-135
Manganese	123	114	19.4	2,550	1600	2	2,000	2	2,000	2	TP-149
Mercury	123	107	ND	44.2	0.18	26	0.81	11	0.81	11	TP-115
Nickel	123	116	ND	75.8	30	2	140	0	310	0	TP-105
Selenium	123	35	ND	5.7	3.9	2	36	0	180	0	SB-135
Silver	123	45	ND	2.8	2	1	36	0	180	0	SB-100
Zinc	123	16	12.7	2,580	109	28	2,200	0	10,000	0	TP-143
PCBs (mg/kg)											
Total PCBs	112	6	ND	0.23	0.1	1	1	0	1	0	SB-147
Pesticides/Herbicides (µg/kg)											
4-4-DDD	50	2	ND	6.4	3.3	1	2,600	0	13,000	0	TP-132
4-4-DDE	50	1	ND	5.1	3.3	1	1,800	0	8,900	0	TP-132
4-4-DDT	50	2	ND	5.1	3.3	1	1,700	0	7,900	0	TP-132
Dieldrin	50	1	ND	17.7	5	1	39	0	200	0	TP-149

Notes:

*Chromium SCO is Hexavalent Chromium/Trivalent Chromium. Results are Total Chromium.

[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance,

mg/kg - milligrams per kilogram

NC - No Criteria

NA - Not Applicable

SCOs - Soil Cleanup Objectives per 6NYCRR Part 375 .

µg/kg - micrograms per kilogram

Table 7D
Summary Statistics - Overburden Groundwater Sample Exceedances of Criteria
Portion of Former Vacuum Oil Refinery
Rochester, NY

		Round 1 (August 2016)					Round 2 (December 2016, August 2017)*						
	Criteria	No. of Samples	No Detected	Concentration Range		Exceedances	No. of Samples	No Detected	Concentration Range		Exceedances	Maximum Concentration	
				Min	Max				Min	Max		Location	Round
VOCS (µg/L)													
1,1-Dichloroethane	5	34	9	ND	77	1	43	6	ND	26	1	OVR-132	1
1,2,4-Trimethylbenzene	5	34	7	ND	8.7	1	43	10	ND	3	0	OVR-117	1
1,3,5-Trimethylbenzene	5	34	5	ND	11	1	43	4	ND	3.1	0	OVR-117	1
2-Butanone	50	34	4	ND	150	1	43	3	ND	36	0	OVR-117	1
2-Hexanone	50	34	1	ND	87	1	43	0	ND	0	0	OVR-117	1
Acetone	50	34	6	ND	170	1	43	23	ND	54	1	OVR-117	1
Benzene	1	34	6	ND	7.7	4	43	7	ND	1.2	1	OVR-107	1
Chloroethane	5	34	7	ND	54	3	43	4	ND	16	2	OVR-107	1
Ethylbenzene	5	34	3	ND	8.5	1	43	1	ND	2.2	0	OVR-117	1
o-Xylene	5	34	5	ND	7.2	1	43	6	ND	0.38	0	OVR-117	1
Toluene	5	34	4	ND	22	1	43	5	ND	2.3	0	OVR-117	1
Trichloroethene	5	34	5	ND	7.3	1	43	5	ND	4	0	OVR-109	1
Vinyl Chloride	2	34	3	ND	2.1	1	43	2	ND	1.4	0	OVR-132	1
Xylenes (total)	5	34	34	ND	33.2	1	43	43	ND	5.8	1	OVR-117	1
SVOCs (µg/L)													
Benzo[a]anthracene	0.002	33	1	1.1	1.1	1	34	1	2.2	2.2	1	OVR-119	2
Benzo[a]pyrene	0	33	1	1	1	1	34	1	2.1	2.1	1	OVR-119	2
Benzo[b]fluoranthene	0.002	33	1	1.1	1.1	1	34	1	2.1	2.1	1	OVR-119	2
Benzo[k]fluoranthene	0.002	33	1	0.48	0.48	1	34	0	0	0	0	OVR-119	1
Bis(2-Ethylhexyl)phthalate	5	33	7	0.23	1	0	34	5	1.3	29	1	OVR-130	2
Chrysene	0.002	33	1	1.2	1.2	1	34	1	2.2	2.2	1	OVR-119	2
Indeno[1,2,3-cd]pyrene	0.002	33	1	0.66	0.66	1	34	1	1.5	1.5	1	OVR-119	2
Naphthalene	10	33	3	0.15	13.6	1	34	2	4.8	5.3	0	OVR-117	1
METALS (µg/L)													
Arsenic	25	34	20	5.1	408	7	34	17	5.2	333	4	OVR-130	1
Barium	1,000	34	34	22.9	1890	1	34	34	31.5	426	0	OVR-126	1
Beryllium	3	34	3	0.2	14.2	1	34	2	0.3	0.4	0	OVR-126	1
Chromium	50	34	5	3.5	466	1	34	7	0.4	11.6	0	OVR-126	1
Copper	200	34	9	0.9	484	1	34	32	0.7	17.9	0	OVR-126	1
Iron	300	34	33	2490	573000	33	34	34	183	41800	33	OVR-126	1
Lead	25	34	14	2.1	335	1	34	13	2.2	37	1	OVR-126	1
Magnesium	35,000	34	34	35500	224000	34	34	34	35500	150000	34	OVR-126	1
Manganese	300	34	34	238	12300	33	34	34	113	13400	33	OVR-114	2
Nickel	100	34	4	2.2	460	1	34	2	3.9	5.3	0	OVR-126	1
Selenium	10	34	18	3.5	23.6	2	34	1	4.2	4.2	0	OVR-126	1
Sodium	20,000	34	34	5500	274000	25	34	34	5740	280000	25	MW-3	2
Thallium	0.5	34	3	10.3	26.1	3	34	8	2.5	18.6	8	OVR-119	1
PCBs (µg/L)													
Total PCBs	0.09	No Detections					34	1	ND	0.171	1	OVR-100	2

Notes:
Grab Groundwater samples (GW-#) collected in August 2017 are included in round 2 statistics for VOCs.
Duplicate Analyses are not included in the statistics presented.

Table 7E
Summary Statistics - Bedrock Groundwater Sample Exceedances of Criteria
Portion of Former Vacuum Oil Refinery
Rochester, NY

		Round 1 (August 2016)					Round 2 (December 2016)						
	Criteria	No. of Samples	No Detected	Concentration Range		Exceedances	No. of Samples	No Detected	Concentration Range		Exceedances	Maximum Concentration	
				Min	Max				Min	Max		Location	Round
VOCS (µg/L)													
		No Exceedances											
SVOCs (µg/L)													
		No SVOCs Detected											
METALS (µg/L)													
Iron	300		3	169	2720	1		3	50.3	2670	2	BED-102	1
Magnesium	35,000		5	41000	110000	5		5	51900	89400	5	BED-100	1
Manganese	300		4	31.7	833	2		5	32	405	1	BED-103	1
Sodium	20,000		5	22600	68200	5		5	28100	70200	5	BED-101	2
Thallium	0.5		0	0	0	0		1	2.7	2.7	1	BED-103	2
PCBs (µg/L)													
		No PCBs Detected											

Notes:
Duplicate Analyses are not included in the statistics presented.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	OVR-100	OVR-107	OVR-108	OVR-109	OVR-109
			Sample ID	OVR-100-6-7-04222016	OVR-107-10-11-041216	OVR-108-4.1-5.4-041316	DUP-004-041116	OVR-109-10-11.8-041116
			Sample Date	4/22/2016	4/12/2016	4/13/2016	4/11/2016	4/11/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1603557	R1603190	R1603557	R1603190	R1603190
			Start Depth	6	10	4.1	10	10
			End Depth	7	11	5.4	11.8	11.8
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]					
VOCs								
1,1,1-Trichloroethane	71-55-6	100,000	100,000	3.2 U	2.2 U	4.3 U	240 U	210 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
1,1,2-Trichloroethane	79-00-5	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
1,1-Dichloroethane	75-34-3	19,000	26,000	3.2 U	2.2 U	4.3 U	240 U	210 U
1,1-Dichloroethene	75-35-4	100,000	100,000	3.2 U	2.2 U	4.3 U	240 U	210 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	0.96 J	0.28 J	4.3 U	240 U	210 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
1,2-Dibromoethane	106-93-4	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	3.2 U	2.2 U	4.3 U	240 U	210 U
1,2-Dichloroethane	107-06-2	2,300	3,100	3.2 U	2.2 U	4.3 U	240 U	210 U
1,2-Dichloropropane	78-87-5	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	3.2 U	0.71 J	4.3 U	240 U	210 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	3.2 U	2.2 U	4.3 U	240 U	210 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	3.2 U	2.2 U	4.3 U	240 U	210 U
1,4-Dioxane	123-91-1	9,800	13,000	64 R	44 R	85 R	4,800 R	4200 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	9.6	2.1 J	4.3 U	240 U	210 U
2-Hexanone	591-78-6	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
4-Isopropyltoluene	99-87-6	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Acetone	67-64-1	100,000	100,000	31	11	4.3 U	240 U	210 U
Benzene	71-43-2	2,900	4,800	0.19 J	2.2 J	4.3 U	240 U	210 U
Bromochloromethane	74-97-5	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Bromodichloromethane	75-27-4	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Bromoform	75-25-2	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Bromomethane	74-83-9	NC	NC	3.2 U	2.2 UJ	4.3 UJ	240 U	210 U
Carbon disulfide	75-15-0	100,000[CP]	NC	0.96 J	2.2 UJ	4.3 UJ	240 U	210 U
Carbon Tetrachloride	56-23-5	1400	2,400	3.2 U	2.2 U	4.3 U	240 U	210 U
Chlorobenzene	108-90-7	100,000	100,000	3.2 U	2.2 U	4.3 U	240 U	210 U
Chloroethane	75-00-3	NC	NC	3.2 U	20	4.3 U	240 U	210 U
Chloroform	67-66-3	10,000	49,000	3.2 U	2.2 U	4.3 U	240 U	210 U
Chloromethane	74-87-3	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	3.2 U	2.2 U	4.3 U	240 U	210 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Cyclohexane	110-82-7	NC	NC	3.2 U	6.5	4.3 U	240 U	210 U
Dibromochloromethane	124-48-1	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Dichlorodifluoromethane	75-71-8	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Ethylbenzene	100-41-4	30,000	41,000	0.25 J	2.2 U	4.3 U	240 U	210 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
m,p-Xylene	XYLMP	NC	NC	0.99 J	4.4 U	8.5 U	480 U	420 U
Methyl Acetate	79-20-9	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Methylcyclohexane	108-87-2	NC	NC	2.8 J	26	4.3 U	240 U	210 U
Methylene Chloride	75-09-2	51,000	100,000	3.2 U	2.2 U	4.3 U	240 U	210 U
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	3.2 U	2.2 U	4.3 U	240 U	210 U
n-Butylbenzene	104-51-8	100,000	100,000	3.2 U	2.2 U	4.3 U	240 U	210 U
n-Propylbenzene	103-65-1	100,000	100,000	3.2 U	2.2 U	4.3 U	240 U	210 U
o-Xylene	95-47-6	NC	NC	0.47 J	0.43 J	4.3 U	240 U	210 U
sec-Butylbenzene	135-98-8	100,000	100,000	3.2 U	2.2 U	4.3 U	240 U	210 U
Styrene	100-42-5	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Tert-Butylbenzene	98-06-6	100,000	100,000	3.2 U	2.5	4.3 U	30 J	210 U
Tetrachloroethene	127-18-4	5,500	19,000	3.2 U	2.2 U	4.3 U	240 U	210 U
Toluene	108-88-3	100,000	100,000	3.2 U	2.2 U	4.3 U	240 U	210 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	3.2 U	2.2 U	4.3 U	240 U	210 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Trichloroethene	79-01-6	10,000	21,000	3.2 U	2.2 U	4.3 U	240 U	210 U
Trichlorofluoromethane	75-69-4	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Vinyl Chloride	75-01-4	210	900	3.2 UJ	2.2 U	4.3 U	240 U	210 U
TOTAL VOC TICs	NA	NC	NC	21.3	289	0	15,300	14,340

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	OVR-116	OVR-117	OVR-118	SB-100	SB-101
			Sample ID	OVR-116-10-11.9-040116	OVR-117-7-7.6-040716	OVR-118-0.5-1-041316	SB-100-9-10-031016	SB-101-12.5-14-031016
			Sample Date	4/1/2016	4/7/2016	4/13/2016	3/10/2016	3/10/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1603031	R1603190	R1603557	R1602058	R1602058
			Start Depth	10	7	0.5	9	12.5
			End Depth	11.9	7.6	1	10	14
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]					
VOCs								
1,1,1-Trichloroethane	71-55-6	100,000	100,000	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,1,2-Trichloroethane	79-00-5	NC	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,1-Dichloroethane	75-34-3	19,000	26,000	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,1-Dichloroethene	75-35-4	100,000	100,000	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	0.3 J	26,000	4.1 U	4.9 U	3 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	1.5 U	14,000 UJ	4.1 U	4.9 U	3 U
1,2-Dibromoethane	106-93-4	NC	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,2-Dichloroethane	107-06-2	2,300	3,100	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,2-Dichloropropane	78-87-5	NC	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	1.5 U	22,000	4.1 U	4.9 U	3 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,4-Dioxane	123-91-1	9,800	13,000	29 R	280,000 R	82 R	98 R	59 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	1.3 J	14,000 U	4.1 U	8.8	10
2-Hexanone	591-78-6	NC	NC	1.5 U	3,600 J	4.1 U	4.9 U	3 U
4-Isopropyltoluene	99-87-6	NC	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Acetone	67-64-1	100,000	100,000	5	14,000 U	4.1 U	26	31
Benzene	71-43-2	2,900	4,800	0.39 J	4,400 J	4.1 U	4.9 U	3 U
Bromochloromethane	74-97-5	NC	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Bromodichloromethane	75-27-4	NC	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Bromoform	75-25-2	NC	NC	1.5 U	14000 UJ	4.1 U	4.9 U	3 U
Bromomethane	74-83-9	NC	NC	1.5 U	14,000 U	4.1 UJ	4.9 U	3 U
Carbon disulfide	75-15-0	100,000[CP]	NC	1.5 U	14,000 U	4.1 UJ	4.9 U	3 U
Carbon Tetrachloride	56-23-5	1400	2,400	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Chlorobenzene	108-90-7	100,000	100,000	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Chloroethane	75-00-3	NC	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Chloroform	67-66-3	10,000	49,000	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Chloromethane	74-87-3	NC	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Cyclohexane	110-82-7	NC	NC	1.2 J	8,200 J	4.1 U	4.9 U	3 U
Dibromochloromethane	124-48-1	NC	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Dichlorodifluoromethane	75-71-8	NC	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Ethylbenzene	100-41-4	30,000	41,000	0.086 J	12,000 J	4.1 U	4.9 U	3 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
m,p-Xylene	XYLMP	NC	NC	0.55 J	67,000	8.2 U	9.8 U	5.9 U
Methyl Acetate	79-20-9	NC	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Methylcyclohexane	108-87-2	NC	NC	1.1 J	16,000	4.1 U	4.9 U	2.3 J
Methylene Chloride	75-09-2	51,000	100,000	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	1.5 U	14,000 U	4.1 U	4.9 U	3 U
n-Butylbenzene	104-51-8	100,000	100,000	1.5 U	14,000 U	4.1 U	4.9 U	3 U
n-Propylbenzene	103-65-1	100,000	100,000	1.5 U	4,300 J	4.1 U	4.9 U	3 U
o-Xylene	95-47-6	NC	NC	0.19 J	20,000	4.1 U	4.9 U	3 U
sec-Butylbenzene	135-98-8	100,000	100,000	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Styrene	100-42-5	NC	NC	1.5 U	4,000 J	4.1 U	4.9 U	3 U
Tert-Butylbenzene	98-06-6	100,000	100,000	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Tetrachloroethene	127-18-4	5,500	19,000	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Toluene	108-88-3	100,000	100,000	0.74 J	35,000	4.1 U	4.9 U	3 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	1.5 U	14,000 UJ	4.1 U	4.9 U	3 U
Trichloroethene	79-01-6	10,000	21,000	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Trichlorofluoromethane	75-69-4	NC	NC	1.5 U	14,000 UJ	4.1 U	4.9 U	3 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Vinyl Chloride	75-01-4	210	900	1.5 U	14,000 U	4.1 U	4.9 U	3 U
TOTAL VOC TICs	NA	NC	NC	15.1	1,439,000	0	0	48.9

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51

Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-102	SB-102	SB-103	SB-104	SB-105
			Sample ID	SB-102-4.0-6.0-082217	SB-102-4.0-6.0-090717	SB-103-4.8-5.8-030416	SB-104-12-13-030316	SB-105-11-12-031016
			Sample Date	8/22/2017	9/7/2017	3/4/2016	3/3/2016	3/10/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1707777	R1708422	R1601955	R1601955	R1602058
			Start Depth	4	4	4.8	12	11
			End Depth	6	6	5.8	13	12
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]					
VOCs								
1,1,1-Trichloroethane	71-55-6	100,000	100,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
1,1,2-Trichloroethane	79-00-5	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
1,1-Dichloroethane	75-34-3	19,000	26,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
1,1-Dichloroethene	75-35-4	100,000	100,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	5.6 U	3.6 UJ	6.6 UJ	3 U	4.7 U
1,2-Dibromoethane	106-93-4	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
1,2-Dichloroethane	107-06-2	2,300	3,100	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
1,2-Dichloropropane	78-87-5	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
1,4-Dioxane	123-91-1	9,800	13,000	110 U	73 R	130 R	60 R	93 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	5.6 U	3.6 U	4.2 J	1.7 J	19
2-Hexanone	591-78-6	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
4-Isopropyltoluene	99-87-6	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Acetone	67-64-1	100,000	100,000	5.6 U	3.6 U	14 J	11	62
Benzene	71-43-2	2,900	4,800	5.6 U	3.6 U	0.66 J	3 U	4.7 U
Bromochloromethane	74-97-5	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Bromodichloromethane	75-27-4	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Bromoform	75-25-2	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Bromomethane	74-83-9	NC	NC	5.6 U	3.6 UJ	6.6 UJ	3 U	4.7 U
Carbon disulfide	75-15-0	100,000[CP]	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Carbon Tetrachloride	56-23-5	1400	2,400	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Chlorobenzene	108-90-7	100,000	100,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Chloroethane	75-00-3	NC	NC	5.6 U	3.6 UJ	6.6 UJ	3 U	4.7 U
Chloroform	67-66-3	10,000	49,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Chloromethane	74-87-3	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Cyclohexane	110-82-7	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Dibromochloromethane	124-48-1	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Dichlorodifluoromethane	75-71-8	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Ethylbenzene	100-41-4	30,000	41,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 UJ
m,p-Xylene	XYLMP	NC	NC	11 U	7.3 U	13 UJ	6 U	9.3 U
Methyl Acetate	79-20-9	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Methylcyclohexane	108-87-2	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	2.3 J
Methylene Chloride	75-09-2	51,000	100,000	0.76 J	3.6 U	6.6 UJ	3 U	4.7 U
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
n-Butylbenzene	104-51-8	100,000	100,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 UJ
n-Propylbenzene	103-65-1	100,000	100,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 UJ
o-Xylene	95-47-6	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
sec-Butylbenzene	135-98-8	100,000	100,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 UJ
Styrene	100-42-5	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Tert-Butylbenzene	98-06-6	100,000	100,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 UJ
Tetrachloroethene	127-18-4	5,500	19,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 UJ
Toluene	108-88-3	100,000	100,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Trichloroethene	79-01-6	10,000	21,000	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Trichlorofluoromethane	75-69-4	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
Vinyl Chloride	75-01-4	210	900	5.6 U	3.6 U	6.6 UJ	3 U	4.7 U
TOTAL VOC TICs	NA	NC	NC	NT	NT	18.4	25	161.4

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-106	SB-107	SB-108	SB-109	SB-110	SB-112
			Sample ID	SB-106-5-6-030316	SB-107-6-7-030316	SB-108-5.8-6.4-030316	SB-109-8-9-030216	SB-110-1.5-2.5-031016	SB-112-0.5-2.0-082217
			Sample Date	3/3/2016	3/3/2016	3/3/2016	3/2/2016	3/10/2016	8/22/2017
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1601955	R1601955	R1601955	R1601741	R1602058	R1707777
			Start Depth	5	6	5.8	8	1.5	0.5
			End Depth	6	7	6.4	9	2.5	2
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
VOCs									
1,1,1-Trichloroethane	71-55-6	100,000	100,000	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	5.5 UJ	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,1,2-Trichloroethane	79-00-5	NC	NC	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,1-Dichloroethane	75-34-3	19,000	26,000	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,1-Dichloroethene	75-35-4	100,000	100,000	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	5.5 UJ	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	5.5 UJ	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	5.5 UJ	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	5.5 UJ	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,2-Dibromoethane	106-93-4	NC	NC	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	5.5 UJ	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,2-Dichloroethane	107-06-2	2,300	3,100	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,2-Dichloropropane	78-87-5	NC	NC	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	5.5 UJ	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	5.5 UJ	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	5.5 UJ	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,4-Dioxane	123-91-1	9,800	13,000	110 R	69 R	69 R	44 R	42 R	130 U
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	49	3.5 U	17	1.2 J	2.1 U	6.5 U
2-Hexanone	591-78-6	NC	NC	3.1 J	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
4-Isopropyltoluene	99-87-6	NC	NC	5.5 UJ	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Acetone	67-64-1	100,000	100,000	160	2.2 J	49	7.7	2.1 U	6.5 U
Benzene	71-43-2	2,900	4,800	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Bromochloromethane	74-97-5	NC	NC	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Bromodichloromethane	75-27-4	NC	NC	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Bromoform	75-25-2	NC	NC	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Bromomethane	74-83-9	NC	NC	5.5 UJ	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Carbon disulfide	75-15-0	100,000[CP]	NC	3 J	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Carbon Tetrachloride	56-23-5	1400	2,400	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Chlorobenzene	108-90-7	100,000	100,000	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Chloroethane	75-00-3	NC	NC	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Chloroform	67-66-3	10,000	49,000	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Chloromethane	74-87-3	NC	NC	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Cyclohexane	110-82-7	NC	NC	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Dibromochloromethane	124-48-1	NC	NC	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Dichlorodifluoromethane	75-71-8	NC	NC	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Ethylbenzene	100-41-4	30,000	41,000	0.32 J	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
m,p-Xylene	XYLMP	NC	NC	1.8 J	6.9 U	6.9 U	4.4 U	4.2 U	13 U
Methyl Acetate	79-20-9	NC	NC	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Methylcyclohexane	108-87-2	NC	NC	1.4 J	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Methylene Chloride	75-09-2	51,000	100,000	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	0.87 J
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
n-Butylbenzene	104-51-8	100,000	100,000	5.5 UJ	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
n-Propylbenzene	103-65-1	100,000	100,000	5.5 UJ	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
o-Xylene	95-47-6	NC	NC	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
sec-Butylbenzene	135-98-8	100,000	100,000	5.5 UJ	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Styrene	100-42-5	NC	NC	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Tert-Butylbenzene	98-06-6	100,000	100,000	12 J	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Tetrachloroethene	127-18-4	5,500	19,000	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Toluene	108-88-3	100,000	100,000	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Trichloroethene	79-01-6	10,000	21,000	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Trichlorofluoromethane	75-69-4	NC	NC	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Vinyl Chloride	75-01-4	210	900	5.5 U	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
TOTAL VOC TICs	NA	NC	NC	909	46	36	0	0	NT

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-112	SB-113	SB-113[BB]	SB-113	SB-114	SB-115
			Sample ID	SB-112-0.5-2.0-090717	DUP-002-031416	SB-113-1-2-031416	SB-113-4.5-6.5-031416	SB-114-2-2.5-030216	SB-115-5.6-6.7-030216
			Sample Date	9/7/2017	3/14/2016	3/14/2016	3/14/2016	3/2/2016	3/2/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1708422	R1602239	R1602239	R1602239	R1601741	R1601741
			Start Depth	0.5	4.5	1	4.5	2	5.6
			End Depth	2	6.5	2	6.5	2.5	6.7
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
VOCs									
1,1,1-Trichloroethane	71-55-6	100,000	100,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
1,1,2-Trichloroethane	79-00-5	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
1,1-Dichloroethane	75-34-3	19,000	26,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
1,1-Dichloroethene	75-35-4	100,000	100,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	7.8
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	4.4 UJ	3.6 U	3.5 U	10 U	4.2 U	3.7 U
1,2-Dibromoethane	106-93-4	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
1,2-Dichloroethane	107-06-2	2,300	3,100	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
1,2-Dichloropropane	78-87-5	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	6.6
1,3-Dichlorobenzene	541-73-1	17,000	49,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
1,4-Dioxane	123-91-1	9,800	13,000	88 R	72 U	70 R	200 R	83 R	74 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	4.4 U	4	4.8	10 U	4.2 U	30
2-Hexanone	591-78-6	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
4-Isopropyltoluene	99-87-6	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	0.89 J
4-Methyl-2-Pentanone	108-10-1	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Acetone	67-64-1	100,000	100,000	4.4 U	22 J	23	10 UJ	4.2 U	100
Benzene	71-43-2	2,900	4,800	4.4 U	3.6 U	3.5 U	10 U	4.2 U	0.37 J
Bromochloromethane	74-97-5	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Bromodichloromethane	75-27-4	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Bromoform	75-25-2	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Bromomethane	74-83-9	NC	NC	4.4 UJ	3.6 U	3.5 U	10 U	4.2 U	3.7 UJ
Carbon disulfide	75-15-0	100,000[CP]	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	1.9 J
Carbon Tetrachloride	56-23-5	1400	2,400	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Chlorobenzene	108-90-7	100,000	100,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Chloroethane	75-00-3	NC	NC	4.4 UJ	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Chloroform	67-66-3	10,000	49,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Chloromethane	74-87-3	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Cyclohexane	110-82-7	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	18
Dibromochloromethane	124-48-1	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Dichlorodifluoromethane	75-71-8	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Ethylbenzene	100-41-4	30,000	41,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	15
Isopropylbenzene	98-82-8	100,000[CP]	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	5.2
m,p-Xylene	XYLMP	NC	NC	8.8 U	7.2 U	7 U	20 U	8.3 U	6 J
Methyl Acetate	79-20-9	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Methylcyclohexane	108-87-2	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	200 J
Methylene Chloride	75-09-2	51,000	100,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
n-Butylbenzene	104-51-8	100,000	100,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	1.3 J
n-Propylbenzene	103-65-1	100,000	100,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
o-Xylene	95-47-6	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.6 J
sec-Butylbenzene	135-98-8	100,000	100,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Styrene	100-42-5	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	0.82 J
Tert-Butylbenzene	98-06-6	100,000	100,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Tetrachloroethene	127-18-4	5,500	19,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Toluene	108-88-3	100,000	100,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	1.4 J
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Trichloroethene	79-01-6	10,000	21,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Trichlorofluoromethane	75-69-4	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
Vinyl Chloride	75-01-4	210	900	4.4 U	3.6 U	3.5 U	10 U	4.2 U	3.7 U
TOTAL VOC TICs	NA	NC	NC	NT	0	0	0	0	1873

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-116	SB-117	SB-117	SB-118	SB-119	SB-120
			Sample ID	SB-116-5.7-6.5-030216	DUP-003-030216	SB-117-5.9-7-030216	SB-118-7-7.4-030216	SB-119-4.5-6-031116	SB-120-6.5-7.4-031416
			Sample Date	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/11/2016	3/14/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1601741	R1601741	R1601741	R1601741	R1602239	R1602239
			Start Depth	5.7	5.9	5.9	7	4.5	6.5
			End Depth	6.5	7	7	7.4	6	7.4
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
VOCs									
1,1,1-Trichloroethane	71-55-6	100,000	100,000	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
1,1,2-Trichloroethane	79-00-5	NC	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
1,1-Dichloroethane	75-34-3	19,000	26,000	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
1,1-Dichloroethene	75-35-4	100,000	100,000	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	270 U	3.8 U	0.87 J	3.3 U	1.7 U	4 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
1,2-Dibromoethane	106-93-4	NC	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
1,2-Dichloroethane	107-06-2	2,300	3,100	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
1,2-Dichloropropane	78-87-5	NC	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
1,4-Dioxane	123-91-1	9,800	13,000	5400 R	75 R	77 R	67 R	33 R	80 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	270 U	14	9	3.7	1.7 U	6.7
2-Hexanone	591-78-6	NC	NC	67 J	3.8 U	3.8 U	3.3 U	1.7 U	4 U
4-Isopropyltoluene	99-87-6	NC	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Acetone	67-64-1	100,000	100,000	270 U	52	38	30	1.7 U	20
Benzene	71-43-2	2,900	4,800	270 U	0.47 J	0.95 J	3.3 U	1.7 U	0.3 J
Bromochloromethane	74-97-5	NC	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Bromodichloromethane	75-27-4	NC	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Bromoform	75-25-2	NC	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Bromomethane	74-83-9	NC	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Carbon disulfide	75-15-0	100,000[CP]	NC	270 U	5.1	8.1	3.3 U	1.7 U	4 U
Carbon Tetrachloride	56-23-5	1400	2,400	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Chlorobenzene	108-90-7	100,000	100,000	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Chloroethane	75-00-3	NC	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Chloroform	67-66-3	10,000	49,000	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Chloromethane	74-87-3	NC	NC	270 U	3.8 U	3.8 U	0.44 J	1.7 U	4 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Cyclohexane	110-82-7	NC	NC	270 U	1.7 J	4.1	3.3 U	1.7 U	4 U
Dibromochloromethane	124-48-1	NC	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Dichlorodifluoromethane	75-71-8	NC	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Ethylbenzene	100-41-4	30,000	41,000	270 U	3.8 U	0.21 J	3.3 U	1.7 U	4 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
m,p-Xylene	XYLMP	NC	NC	540 U	7.5 U	1.6 J	6.7 U	3.3 U	8 U
Methyl Acetate	79-20-9	NC	NC	270 U	14	8.5	9.8	1.7 U	4 U
Methylcyclohexane	108-87-2	NC	NC	270 U	1.4 J	4	3.3 U	1.7 U	4 U
Methylene Chloride	75-09-2	51,000	100,000	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
n-Butylbenzene	104-51-8	100,000	100,000	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
n-Propylbenzene	103-65-1	100,000	100,000	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
o-Xylene	95-47-6	NC	NC	270 U	3.8 U	0.44 J	3.3 U	1.7 U	4 U
sec-Butylbenzene	135-98-8	100,000	100,000	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Styrene	100-42-5	NC	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Tert-Butylbenzene	98-06-6	100,000	100,000	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Tetrachloroethene	127-18-4	5,500	19,000	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Toluene	108-88-3	100,000	100,000	270 U	1.2 J	1.9 J	3.3 U	1.7 U	4 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Trichloroethene	79-01-6	10,000	21,000	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Trichlorofluoromethane	75-69-4	NC	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
Vinyl Chloride	75-01-4	210	900	270 U	3.8 U	3.8 U	3.3 U	1.7 U	4 U
TOTAL VOC TICs	NA	NC	NC	5,480	229.5	214.7	3.6	0	104.7

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-121	SB-122	SB-124	SB-125	SB-127	SB-129
			Sample ID	SB-121-2-2.5-031416	SB-122-7-8-022916	SB-124-8-9-031116	SB-125-5-7-031416	SB-127-10-11-031116	SB-129-4.6-6.6-031516
			Sample Date	3/14/2016	2/29/2016	3/11/2016	3/14/2016	3/11/2016	3/15/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1602239	R1601741	R1602239	R1602239	R1602239	R1602333
			Start Depth	2	7	8	5	10	4.6
			End Depth	2.5	8	9	7	11	6.6
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
VOCs									
1,1,1-Trichloroethane	71-55-6	100,000	100,000	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	12 R	3.1 U	160 U	4 U	2.5 UJ	2,100 U
1,1,2-Trichloroethane	79-00-5	NC	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
1,1-Dichloroethane	75-34-3	19,000	26,000	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
1,1-Dichloroethene	75-35-4	100,000	100,000	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	12 R	3.1 U	160 U	4 U	2.5 UJ	2,100 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	12 R	3.1 U	160 U	4 U	2.5 UJ	2,100 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	3.3 J	3.1 U	48 J	4 U	2.5 UJ	430 J
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	12 R	3.1 U	160 U	4 U	2.5 UJ	2,100 UJ
1,2-Dibromoethane	106-93-4	NC	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	12 R	3.1 U	160 U	4 U	2.5 UJ	2,100 U
1,2-Dichloroethane	107-06-2	2,300	3,100	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
1,2-Dichloropropane	78-87-5	NC	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	12 R	3.1 U	160 U	4 U	2.5 UJ	2,100 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	12 R	3.1 U	160 U	4 U	2.5 UJ	2,100 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	12 R	3.1 U	160 U	4 U	2.5 UJ	2,100 U
1,4-Dioxane	123-91-1	9,800	13,000	240 R	62 R	3200 R	79 R	50 R	43,000 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	46 J	3.1 U	160 U	12	1.7 J	2,100 U
2-Hexanone	591-78-6	NC	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
4-Isopropyltoluene	99-87-6	NC	NC	12 R	3.1 U	160 U	4 U	2.5 UJ	2,100 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Acetone	67-64-1	100,000	100,000	210 J	3.1 U	160 U	44 J	8.5 J	2,100 U
Benzene	71-43-2	2,900	4,800	0.97 J	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Bromochloromethane	74-97-5	NC	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Bromodichloromethane	75-27-4	NC	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Bromoform	75-25-2	NC	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Bromomethane	74-83-9	NC	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 UJ
Carbon disulfide	75-15-0	100,000[CP]	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Carbon Tetrachloride	56-23-5	1400	2,400	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Chlorobenzene	108-90-7	100,000	100,000	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Chloroethane	75-00-3	NC	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Chloroform	67-66-3	10,000	49,000	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Chloromethane	74-87-3	NC	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Cyclohexane	110-82-7	NC	NC	7.8 J	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Dibromochloromethane	124-48-1	NC	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Dichlorodifluoromethane	75-71-8	NC	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Ethylbenzene	100-41-4	30,000	41,000	0.9 J	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
m,p-Xylene	XYLMP	NC	NC	11 J	6.2 U	320 U	7.9 U	5 UJ	4,300 U
Methyl Acetate	79-20-9	NC	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Methylcyclohexane	108-87-2	NC	NC	19 J	3.1 U	160 U	15 J	6.8 J	1,600 J
Methylene Chloride	75-09-2	51,000	100,000	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
n-Butylbenzene	104-51-8	100,000	100,000	12 R	3.1 U	160 U	4 U	0.6 J	2,100 U
n-Propylbenzene	103-65-1	100,000	100,000	12 R	3.1 U	160 U	4 U	2.5 UJ	2,100 U
o-Xylene	95-47-6	NC	NC	3.4 J	3.1 U	160 U	4 U	2.5 UJ	2,100 U
sec-Butylbenzene	135-98-8	100,000	100,000	12 R	3.1 U	160 U	4 U	2.7 J	2,100 U
Styrene	100-42-5	NC	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Tert-Butylbenzene	98-06-6	100,000	100,000	12 R	3.1 U	34 J	4 U	1.2 J	2,100 U
Tetrachloroethene	127-18-4	5,500	19,000	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Toluene	108-88-3	100,000	100,000	4.9 J	3.1 U	160 U	4 U	2.5 UJ	2,100 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Trichloroethene	79-01-6	10,000	21,000	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Trichlorofluoromethane	75-69-4	NC	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
Vinyl Chloride	75-01-4	210	900	12 UJ	3.1 U	160 U	4 U	2.5 UJ	2,100 U
TOTAL VOC TICs	NA	NC	NC	89	0	5,780	252	326	115,800

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-130	SB-131	SB-133	SB-134	SB-135	SB-136
			Sample ID	SB-130-4-4.5-042216	SB-131-8-10-031116	SB-133-4.5-5-041416	SB-134-10-11-031516	SB-135-8-9-041516	SB-136-5-7-031116
			Sample Date	4/22/2016	3/11/2016	4/14/2016	3/15/2016	4/15/2016	3/11/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1603557	R1602239	R1603557	R1602333	R1603557	R1602239
			Start Depth	4	8	4.5	10	8	5
			End Depth	4.5	10	5	11	9	7
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
VOCs									
1,1,1-Trichloroethane	71-55-6	100,000	100,000	4.3 U	2.2 U	5.3 U	150 U	3.9 U	170 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	4.3 UJ	2.2 U	5.3 UJ	150 U	3.9 UJ	170 U
1,1,2-Trichloroethane	79-00-5	NC	NC	4.3 U	2.2 U	5.3 U	150 U	3.9 UJ	170 U
1,1-Dichloroethane	75-34-3	19,000	26,000	4.3 U	4	5.3 U	150 U	3.9 U	170 U
1,1-Dichloroethene	75-35-4	100,000	100,000	4.3 U	2.2 U	5.3 U	150 U	3.9 U	170 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	4.3 UJ	2.2 U	5.3 UJ	150 U	3.9 UJ	170 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	4.3 UJ	2.2 U	5.3 UJ	150 U	3.9 UJ	170 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	4.3 UJ	2.2 U	5.3 UJ	150 U	3.9 UJ	170 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	4.3 UJ	2.2 U	5.3 UJ	150 UJ	3.9 UJ	170 U
1,2-Dibromoethane	106-93-4	NC	NC	4.3 U	2.2 U	5.3 UJ	150 U	3.9 UJ	170 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	4.3 UJ	2.2 U	5.3 UJ	150 U	3.9 UJ	170 U
1,2-Dichloroethane	107-06-2	2,300	3,100	4.3 U	2.2 U	5.3 U	150 U	3.9 UJ	170 U
1,2-Dichloropropane	78-87-5	NC	NC	4.3 U	2.2 U	5.3 U	150 U	3.9 U	170 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	4.3 UJ	2.2 U	5.3 UJ	150 U	3.9 UJ	170 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	4.3 UJ	2.2 U	5.3 UJ	150 U	3.9 UJ	170 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	4.3 UJ	2.2 U	5.3 UJ	150 U	3.9 UJ	170 U
1,4-Dioxane	123-91-1	9,800	13,000	86 R	44 R	110 R	2,900 R	78 R	3,300 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	4.7	1.6 J	77	150 U	29 J	170 U
2-Hexanone	591-78-6	NC	NC	4.3 U	2.2 U	5.3 UJ	150 U	3.9 U	170 U
4-Isopropyltoluene	99-87-6	NC	NC	4.3 UJ	2.2 U	5.3 UJ	150 U	3.9 UJ	170 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	4.3 U	2.2 U	5.3 U	150 U	3.9 U	170 U
Acetone	67-64-1	100,000	100,000	17	9.6	200 J	150 U	81 J	170 U
Benzene	71-43-2	2,900	4,800	4.3 U	0.36 J	5.3 U	150 U	3.9 U	170 U
Bromochloromethane	74-97-5	NC	NC	4.3 U	2.2 U	5.3 U	150 U	3.9 UJ	170 U
Bromodichloromethane	75-27-4	NC	NC	4.3 U	2.2 U	5.3 U	150 U	3.9 U	170 U
Bromoform	75-25-2	NC	NC	4.3 U	2.2 U	5.3 UJ	150 U	3.9 U	170 U
Bromomethane	74-83-9	NC	NC	4.3 U	2.2 U	5.3 U	150 UJ	3.9 U	170 U
Carbon disulfide	75-15-0	100,000[CP]	NC	4.3 U	2.2 U	5.3 J	150 U	1.3 J	170 U
Carbon Tetrachloride	56-23-5	1400	2,400	4.3 U	2.2 U	5.3 U	150 U	3.9 U	170 U
Chlorobenzene	108-90-7	100,000	100,000	4.3 U	2.2 U	5.3 UJ	150 U	3.9 U	170 U
Chloroethane	75-00-3	NC	NC	4.3 U	2.2 U	5.3 U	150 U	3.9 U	170 U
Chloroform	67-66-3	10,000	49,000	4.3 U	2.2 U	5.3 U	150 U	3.9 U	170 U
Chloromethane	74-87-3	NC	NC	4.3 U	2.2 U	5.3 U	150 U	3.9 U	170 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	4.3 U	2.2 U	5.3 U	150 U	3.9 UJ	170 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	4.3 U	2.2 U	5.3 U	150 U	3.9 U	170 U
Cyclohexane	110-82-7	NC	NC	3.3 J	2.2 U	4.1 J	150 U	23 J	170 U
Dibromochloromethane	124-48-1	NC	NC	4.3 U	2.2 U	5.3 UJ	150 U	3.9 U	170 U
Dichlorodifluoromethane	75-71-8	NC	NC	4.3 U	2.2 U	5.3 U	150 U	3.9 U	170 U
Ethylbenzene	100-41-4	30,000	41,000	4.3 U	2.2 U	5.3 UJ	150 U	3.9 U	170 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	4.3 U	2.2 U	5.3 UJ	150 U	3.9 U	170 U
m,p-Xylene	XYLMP	NC	NC	8.6 U	4.4 U	11 UJ	290 U	7.8 U	330 U
Methyl Acetate	79-20-9	NC	NC	4.3 U	2.2 U	5.3 U	150 U	3.9 U	170 U
Methylcyclohexane	108-87-2	NC	NC	17	18	170	150 UJ	100 J	170 U
Methylene Chloride	75-09-2	51,000	100,000	4.3 U	2.2 U	5.3 U	150 U	3.9 UJ	170 U
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	4.3 U	2.2 U	5.3 U	150 U	3.9 U	170 U
n-Butylbenzene	104-51-8	100,000	100,000	4.3 UJ	2.2 U	5.3 UJ	150 U	3.9 UJ	170 U
n-Propylbenzene	103-65-1	100,000	100,000	4.3 UJ	2.2 U	5.3 UJ	150 U	3.9 UJ	170 U
o-Xylene	95-47-6	NC	NC	4.3 U	2.2 U	1.5 J	150 U	3.9 U	170 U
sec-Butylbenzene	135-98-8	100,000	100,000	4.3 UJ	0.78 J	5.3 UJ	150 U	3.9 UJ	170 U
Styrene	100-42-5	NC	NC	4.3 U	2.2 U	5.3 UJ	150 U	3.9 U	170 U
Tert-Butylbenzene	98-06-6	100,000	100,000	0.63 J	1.2 J	11 J	150 U	14 J	170 U
Tetrachloroethene	127-18-4	5,500	19,000	4.3 U	2.2 U	5.3 UJ	150 U	3.9 U	170 U
Toluene	108-88-3	100,000	100,000	4.3 U	2.2 U	5.3 U	150 U	3.9 U	170 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	4.3 U	2.2 U	5.3 U	150 U	3.9 U	170 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	4.3 U	2.2 U	5.3 U	150 U	3.9 U	170 U
Trichloroethene	79-01-6	10,000	21,000	4.3 U	2.2 U	5.3 U	150 U	3.9 U	170 U
Trichlorofluoromethane	75-69-4	NC	NC	4.3 U	2.2 U	5.3 U	150 U	3.9 U	170 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	4.3 U	2.2 U	5.3 UJ	150 U	3.9 UJ	170 U
Vinyl Chloride	75-01-4	210	900	4.3 UJ	2.2 U	5.3 U	150 U	3.9 U	170 U
TOTAL VOC TICs	NA	NC	NC	1,098	680	4,790	810	1,512	4,140

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-137	SB-138	SB-139	SB-141	SB-142	SB-143[BB]
			Sample ID	SB-137-6-8-031116	SB-138-4-4.8-030116	SB-139-8-9.7-030116	SB-141-7-8-030116	SB-142-11-12-030116	SB-143-3-4-030116
			Sample Date	3/11/2016	3/1/2016	3/1/2016	3/1/2016	3/1/2016	3/1/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1602239	R1601741	R1601741	R1601741	R1601741	R1601741
			Start Depth	6	4	8	7	11	3
			End Depth	8	4.8	9.7	8	12	4
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
VOCs									
1,1,1-Trichloroethane	71-55-6	100,000	100,000	170 U	950 U	4.1 U	170 U	170 U	7.7 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
1,1,2-Trichloroethane	79-00-5	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
1,1-Dichloroethane	75-34-3	19,000	26,000	170 U	950 U	4.1 U	170 U	170 U	7.7 U
1,1-Dichloroethene	75-35-4	100,000	100,000	170 U	950 U	4.1 U	170 U	170 U	7.7 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	170 U	950 U	4.1 U	170 U	170 U	7.7 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
1,2-Dibromoethane	106-93-4	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	170 U	950 U	4.1 U	170 U	170 U	7.7 U
1,2-Dichloroethane	107-06-2	2,300	3,100	170 U	950 U	4.1 U	170 U	170 U	7.7 U
1,2-Dichloropropane	78-87-5	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	170 U	270 J	4.1 U	170 U	170 U	7.7 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	170 U	950 U	4.1 U	170 U	170 U	7.7 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	170 U	950 U	4.1 U	170 U	170 U	7.7 U
1,4-Dioxane	123-91-1	9,800	13,000	3,500 R	19,000 R	21 J	3,400 R	3,400 R	150 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	170 U	950 U	3.2 J	170 U	170 U	7.7 U
2-Hexanone	591-78-6	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
4-Isopropyltoluene	99-87-6	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Acetone	67-64-1	100,000	100,000	170 U	950 U	15	170 U	170 U	5.4 J
Benzene	71-43-2	2,900	4,800	170 U	950 U	4.1 U	170 U	170 U	0.77 J
Bromochloromethane	74-97-5	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Bromodichloromethane	75-27-4	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Bromoform	75-25-2	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Bromomethane	74-83-9	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Carbon disulfide	75-15-0	100,000[CP]	NC	170 U	950 U	1.1 J	170 U	170 U	7.7 U
Carbon Tetrachloride	56-23-5	1400	2,400	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Chlorobenzene	108-90-7	100,000	100,000	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Chloroethane	75-00-3	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Chloroform	67-66-3	10,000	49,000	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Chloromethane	74-87-3	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Cyclohexane	110-82-7	NC	NC	190	950 U	4.1 U	170 U	170 U	7.7 U
Dibromochloromethane	124-48-1	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Dichlorodifluoromethane	75-71-8	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Ethylbenzene	100-41-4	30,000	41,000	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
m,p-Xylene	XYLMP	NC	NC	350 U	1900 U	8.3 U	340 U	340 U	15 U
Methyl Acetate	79-20-9	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Methylcyclohexane	108-87-2	NC	NC	170 U	9500	2.3 J	99 J	79 J	4.5 J
Methylene Chloride	75-09-2	51,000	100,000	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	170 U	950 U	4.1 U	170 U	170 U	7.7 U
n-Butylbenzene	104-51-8	100,000	100,000	170 U	240 J	4.1 U	170 U	170 U	7.7 U
n-Propylbenzene	103-65-1	100,000	100,000	170 U	950 U	4.1 U	170 U	170 U	7.7 U
o-Xylene	95-47-6	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
sec-Butylbenzene	135-98-8	100,000	100,000	170 U	580 J	4.1 U	46 J	170 U	7.7 U
Styrene	100-42-5	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Tert-Butylbenzene	98-06-6	100,000	100,000	38 J	210 J	2.2 J	27 J	170 U	7.7 U
Tetrachloroethene	127-18-4	5,500	19,000	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Toluene	108-88-3	100,000	100,000	170 U	950 U	4.1 U	170 U	170 U	7.7 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Trichloroethene	79-01-6	10,000	21,000	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Trichlorofluoromethane	75-69-4	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	170 U	950 U	4.1 U	170 U	170 U	7.7 U
Vinyl Chloride	75-01-4	210	900	170 U	950 U	4.1 U	170 U	170 U	7.7 U
TOTAL VOC TICs	NA	NC	NC	19,100	155,000	118.1	4,090	4,970	24.6

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-144	SB-145	SB-146	SB-147	SB-148
			Sample ID	SB-144-1-1.8-030116	SB-145-25.4-26.1-030916	SB-146-6-8-030216	SB-147-10-11.4-042216	SB-148-8-9.2-040716
			Sample Date	3/1/2016	3/9/2016	3/2/2016	4/22/2016	4/7/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1601741	R1602058	R1601741	R1603557	R1603190
			Start Depth	1	25.4	6	10	8
			End Depth	1.8	26.1	8	11	9.2
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]					
VOCs								
1,1,1-Trichloroethane	71-55-6	100,000	100,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,1,2-Trichloroethane	79-00-5	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,1-Dichloroethane	75-34-3	19,000	26,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,1-Dichloroethene	75-35-4	100,000	100,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	6 U	0.75 J	4.5 U	2.9 U	3.6 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,2-Dibromoethane	106-93-4	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,2-Dichloroethane	107-06-2	2,300	3,100	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,2-Dichloropropane	78-87-5	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,4-Dioxane	123-91-1	9,800	13,000	120 R	70 R	89 R	57 R	72 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	9.5	2.1 J	4.5 U	2.7 J	2.1 J
2-Hexanone	591-78-6	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
4-Isopropyltoluene	99-87-6	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Acetone	67-64-1	100,000	100,000	61	6.5	6.7	8	8.3
Benzene	71-43-2	2,900	4,800	6.9	1.1 J	4.5 U	2.9 U	3.6 U
Bromochloromethane	74-97-5	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Bromodichloromethane	75-27-4	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Bromoform	75-25-2	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Bromomethane	74-83-9	NC	NC	6 U	3.5 UJ	4.5 U	2.9 U	3.6 U
Carbon disulfide	75-15-0	100,000[CP]	NC	6 U	1.5 J	4.5 U	2.9 U	3.6 U
Carbon Tetrachloride	56-23-5	1400	2,400	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Chlorobenzene	108-90-7	100,000	100,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Chloroethane	75-00-3	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Chloroform	67-66-3	10,000	49,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Chloromethane	74-87-3	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Cyclohexane	110-82-7	NC	NC	1.9 J	2.4 J	4.5 U	2.9 U	3.6 U
Dibromochloromethane	124-48-1	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Dichlorodifluoromethane	75-71-8	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Ethylbenzene	100-41-4	30,000	41,000	0.31 J	0.23 J	4.5 U	2.9 U	3.6 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
m,p-Xylene	XYLMP	NC	NC	4.7 J	1.7 J	8.9 U	5.7 U	7.2 U
Methyl Acetate	79-20-9	NC	NC	9.3	3.5 U	4.5 U	2.9 U	3.6 U
Methylcyclohexane	108-87-2	NC	NC	2.9 J	3.5	4.5 U	2.9 U	3.6 U
Methylene Chloride	75-09-2	51,000	100,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
n-Butylbenzene	104-51-8	100,000	100,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
n-Propylbenzene	103-65-1	100,000	100,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
o-Xylene	95-47-6	NC	NC	6 U	0.49 J	4.5 U	2.9 U	3.6 U
sec-Butylbenzene	135-98-8	100,000	100,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Styrene	100-42-5	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Tert-Butylbenzene	98-06-6	100,000	100,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Tetrachloroethene	127-18-4	5,500	19,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Toluene	108-88-3	100,000	100,000	4.9 J	2.2 J	4.5 U	2.9 U	3.6 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Trichloroethene	79-01-6	10,000	21,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Trichlorofluoromethane	75-69-4	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Vinyl Chloride	75-01-4	210	900	6 U	3.5 U	4.5 U	2.9 UJ	3.6 U
TOTAL VOC TICs	NA	NC	NC	33.8	25.7	0	2.9	49.8

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-149	SB-149[BB]	SB-150	SB-152	SB-154	SB-156
			Sample ID	SB-149-10-11-040616	SB-149-4-5-040616	SB-150-3-4-022916	SB-152-6-7-030316	SB-154-15-17-030316	SB-156-16-17-030916
			Sample Date	4/6/2016	4/6/2016	2/29/2016	3/3/2016	3/3/2016	3/9/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1603190	R1603190	R1601741	R1601955	R1601955	R1602058
			Start Depth	10	4	3	6	15	16
			End Depth	11	5	4	7	17	17
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
VOCs									
1,1,1-Trichloroethane	71-55-6	100,000	100,000	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U	3 U
1,1,2-Trichloroethane	79-00-5	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
1,1-Dichloroethane	75-34-3	19,000	26,000	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
1,1-Dichloroethene	75-35-4	100,000	100,000	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U	3 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U	3 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U	0.56 J
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U	3 U
1,2-Dibromoethane	106-93-4	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U	3 U
1,2-Dichloroethane	107-06-2	2,300	3,100	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
1,2-Dichloropropane	78-87-5	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U	3 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U	3 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U	3 U
1,4-Dioxane	123-91-1	9,800	13,000	53 R	180 R	97 R	77 R	100 R	60 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	2.5 J	8.8 U	3.4 J	2.1 J	4.2 J	3 U
2-Hexanone	591-78-6	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
4-Isopropyltoluene	99-87-6	NC	NC	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U	3 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Acetone	67-64-1	100,000	100,000	12	8.8 U	16	7	24	3 U
Benzene	71-43-2	2,900	4,800	2.7 U	8.8 U	4.8 U	3.9 U	5 U	0.96 J
Bromochloromethane	74-97-5	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Bromodichloromethane	75-27-4	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Bromoform	75-25-2	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Bromomethane	74-83-9	NC	NC	2.7 U	8.8 U	4.8 UJ	3.9 U	5 R	3 UJ
Carbon disulfide	75-15-0	100,000[CP]	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	1.4 J
Carbon Tetrachloride	56-23-5	1400	2,400	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Chlorobenzene	108-90-7	100,000	100,000	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Chloroethane	75-00-3	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Chloroform	67-66-3	10,000	49,000	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Chloromethane	74-87-3	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 UJ	3 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Cyclohexane	110-82-7	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	1.9 J
Dibromochloromethane	124-48-1	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Dichlorodifluoromethane	75-71-8	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Ethylbenzene	100-41-4	30,000	41,000	2.7 U	8.8 U	4.8 U	3.9 U	5 U	0.2 J
Isopropylbenzene	98-82-8	100,000[CP]	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
m,p-Xylene	XYLMP	NC	NC	5.3 U	18 U	9.7 U	7.7 U	10 U	1.3 J
Methyl Acetate	79-20-9	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Methylcyclohexane	108-87-2	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	2.7 J
Methylene Chloride	75-09-2	51,000	100,000	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
n-Butylbenzene	104-51-8	100,000	100,000	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U	3 U
n-Propylbenzene	103-65-1	100,000	100,000	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U	3 U
o-Xylene	95-47-6	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	0.39 J
sec-Butylbenzene	135-98-8	100,000	100,000	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U	3 U
Styrene	100-42-5	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Tert-Butylbenzene	98-06-6	100,000	100,000	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U	3 U
Tetrachloroethene	127-18-4	5,500	19,000	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Toluene	108-88-3	100,000	100,000	2.7 U	8.8 U	1.1 J	3.9 U	5 U	1.7 J
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Trichloroethene	79-01-6	10,000	21,000	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Trichlorofluoromethane	75-69-4	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
Vinyl Chloride	75-01-4	210	900	2.7 U	8.8 U	4.8 U	3.9 U	5 U	3 U
TOTAL VOC TICs	NA	NC	NC	27.9	0	12.8	89	100	26.1

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-157	SB-158	SB-159	SB-160	SB-162
			Sample ID	SB-157-20.5-21.5-030916	SB-158-16-17.5-030816	SB-159-17-18-030916	SB-160-4-5-030916	SB-162-19-20-030816
			Sample Date	3/9/2016	3/8/2016	3/9/2016	3/9/2016	3/8/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1602058	R1602058	R1602058	R1602058	R1602058
			Start Depth	20.5	16	17	4	19
			End Depth	21.5	17.5	18	5	20
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]					
VOCs								
1,1,1-Trichloroethane	71-55-6	100,000	100,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
1,1,2-Trichloroethane	79-00-5	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
1,1-Dichloroethane	75-34-3	19,000	26,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
1,1-Dichloroethene	75-35-4	100,000	100,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
1,2-Dibromoethane	106-93-4	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
1,2-Dichloroethane	107-06-2	2,300	3,100	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
1,2-Dichloropropane	78-87-5	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
1,4-Dioxane	123-91-1	9,800	13,000	45 R	68 R	68 R	42 R	98 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	2.7	3.4 U	3.4 U	2.1 U	6.4
2-Hexanone	591-78-6	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
4-Isopropyltoluene	99-87-6	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Acetone	67-64-1	100,000	100,000	10	3.8	3 J	2.1 U	18
Benzene	71-43-2	2,900	4,800	2.2 U	0.21 J	3.4 U	2.1 U	4.9 U
Bromochloromethane	74-97-5	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Bromodichloromethane	75-27-4	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Bromoform	75-25-2	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Bromomethane	74-83-9	NC	NC	2.2 UJ	3.4 UJ	3.4 UJ	2.1 UJ	4.9 UJ
Carbon disulfide	75-15-0	100,000[CP]	NC	2.2 U	3.4 U	3.4 U	2.1 U	1.8 J
Carbon Tetrachloride	56-23-5	1400	2,400	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Chlorobenzene	108-90-7	100,000	100,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Chloroethane	75-00-3	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Chloroform	67-66-3	10,000	49,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Chloromethane	74-87-3	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Cyclohexane	110-82-7	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Dibromochloromethane	124-48-1	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Dichlorodifluoromethane	75-71-8	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Ethylbenzene	100-41-4	30,000	41,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
m,p-Xylene	XYLMP	NC	NC	4.5 U	6.8 U	6.8 U	4.2 U	9.8 U
Methyl Acetate	79-20-9	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Methylcyclohexane	108-87-2	NC	NC	2.2 U	0.87 J	3.4 U	2.1 U	4.9 U
Methylene Chloride	75-09-2	51,000	100,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
n-Butylbenzene	104-51-8	100,000	100,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
n-Propylbenzene	103-65-1	100,000	100,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
o-Xylene	95-47-6	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
sec-Butylbenzene	135-98-8	100,000	100,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Styrene	100-42-5	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Tert-Butylbenzene	98-06-6	100,000	100,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Tetrachloroethene	127-18-4	5,500	19,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Toluene	108-88-3	100,000	100,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Trichloroethene	79-01-6	10,000	21,000	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Trichlorofluoromethane	75-69-4	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
Vinyl Chloride	75-01-4	210	900	2.2 U	3.4 U	3.4 U	2.1 U	4.9 U
TOTAL VOC TICs	NA	NC	NC	0	0	0	0	0

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-163	SB-164	SB-165	SB-166	SB-167
			Sample ID	SB-163-13.5-16-030816	SB-164-4-5.9-030716	SB-165-22-23-030716	SB-166-13-15-030816	SB-167-18-19-030716
			Sample Date	3/8/2016	3/7/2016	3/7/2016	3/8/2016	3/7/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1602058	R1601955	R1601955	R1602058	R1601955
			Start Depth	13.5	4	22	13	18
			End Depth	16	5.9	23	15	19
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]					
VOCs								
1,1,1-Trichloroethane	71-55-6	100,000	100,000	3.7 U	4.6 U	3.4 U	2.4 U	220 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
1,1,2-Trichloroethane	79-00-5	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
1,1-Dichloroethane	75-34-3	19,000	26,000	3.7 U	4.6 U	3.4 U	2.4 U	220 U
1,1-Dichloroethene	75-35-4	100,000	100,000	3.7 U	4.6 U	3.4 U	2.4 U	220 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	3.7 U	1.5 J	3.4 U	2.4 U	220 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
1,2-Dibromoethane	106-93-4	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	3.7 U	4.6 U	3.4 U	2.4 U	220 U
1,2-Dichloroethane	107-06-2	2,300	3,100	3.7 U	4.6 U	3.4 U	2.4 U	220 U
1,2-Dichloropropane	78-87-5	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	3.7 U	0.9 J	3.4 U	2.4 U	690
1,3-Dichlorobenzene	541-73-1	17,000	49,000	3.7 U	4.6 U	3.4 U	2.4 U	220 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	3.7 U	4.6 U	3.4 U	2.4 U	220 U
1,4-Dioxane	123-91-1	9,800	13,000	73 R	92 R	68 R	49 R	4,400 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	2 J	4.6 U	2.3 J	2.4 U	220 U
2-Hexanone	591-78-6	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
4-Isopropyltoluene	99-87-6	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Acetone	67-64-1	100,000	100,000	10 J	14	13	2.4 U	220 U
Benzene	71-43-2	2,900	4,800	3.7 U	2.9 J	3.4 U	2.4 U	220 U
Bromochloromethane	74-97-5	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Bromodichloromethane	75-27-4	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Bromoform	75-25-2	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Bromomethane	74-83-9	NC	NC	3.7 UJ	4.6 U	3.4 U	2.4 UJ	220 U
Carbon disulfide	75-15-0	100,000[CP]	NC	3.7 U	4.6 U	4.7	2.4 U	220 U
Carbon Tetrachloride	56-23-5	1400	2,400	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Chlorobenzene	108-90-7	100,000	100,000	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Chloroethane	75-00-3	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Chloroform	67-66-3	10,000	49,000	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Chloromethane	74-87-3	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Cyclohexane	110-82-7	NC	NC	3.7 U	8.6	3.4 U	2.4 U	220 U
Dibromochloromethane	124-48-1	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Dichlorodifluoromethane	75-71-8	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Ethylbenzene	100-41-4	30,000	41,000	3.7 U	0.48 J	3.4 U	2.4 U	220 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
m,p-Xylene	XYLMP	NC	NC	7.3 U	4.6 J	6.8 U	4.9 U	440 U
Methyl Acetate	79-20-9	NC	NC	3.7 U	3.1 J	3.4 U	2.4 U	220 U
Methylcyclohexane	108-87-2	NC	NC	3.7 U	11	3.4 U	2.4 U	580
Methylene Chloride	75-09-2	51,000	100,000	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	3.7 U	4.6 U	3.4 U	2.4 U	220 U
n-Butylbenzene	104-51-8	100,000	100,000	3.7 U	4.6 U	3.4 U	2.4 U	88 J
n-Propylbenzene	103-65-1	100,000	100,000	3.7 U	4.6 U	3.4 U	2.4 U	220 U
o-Xylene	95-47-6	NC	NC	3.7 U	1.1 J	3.4 U	2.4 U	220 U
sec-Butylbenzene	135-98-8	100,000	100,000	3.7 U	4.6 U	3.4 U	2.4 U	62 J
Styrene	100-42-5	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Tert-Butylbenzene	98-06-6	100,000	100,000	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Tetrachloroethene	127-18-4	5,500	19,000	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Toluene	108-88-3	100,000	100,000	3.7 U	5.4	3.4 U	2.4 U	220 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Trichloroethene	79-01-6	10,000	21,000	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Trichlorofluoromethane	75-69-4	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	3.7 U	4.6 U	3.4 U	2.4 U	220 U
Vinyl Chloride	75-01-4	210	900	3.7 U	4.6 U	3.4 U	2.4 U	220 U
TOTAL VOC TICs	NA	NC	NC	0	154.1	38.6	2.6	8,360

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-168	SB-169	SB-170	SB-171	SB-172
			Sample ID	SB-168-16-17-030816	SB-169-16-17-030716	SB-170-16-16.8-022916	SB-171-15-16-022916	SB-172-8.5-9.7-090717
			Sample Date	3/8/2016	3/7/2016	2/29/2016	2/29/2016	9/7/2017
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1602058	R1601955	R1601741	R1601741	R1708422
			Start Depth	16	16	16	15	8.5
			End Depth	17	17	16.8	16	9.7
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]					
VOCs								
1,1,1-Trichloroethane	71-55-6	100,000	100,000	220 U	870 U	2.1 U	320 U	4.2 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	220 U	870 U	2.1 U	320 U	4.2 U
1,1,2-Trichloroethane	79-00-5	NC	NC	220 U	870 U	2.1 U	320 U	4.2 U
1,1-Dichloroethane	75-34-3	19,000	26,000	220 U	870 U	2.1 U	320 U	4.2 U
1,1-Dichloroethene	75-35-4	100,000	100,000	220 U	870 U	2.1 U	320 U	4.2 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	220 U	870 U	2.1 U	320 U	4.2 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	220 U	870 U	2.1 U	320 U	4.2 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	220 U	31,000	2.1 U	320 U	4.2 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	220 U	870 U	2.1 U	320 U	4.2 UJ
1,2-Dibromoethane	106-93-4	NC	NC	220 U	870 U	2.1 U	320 U	4.2 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	220 U	870 U	2.1 U	320 U	4.2 U
1,2-Dichloroethane	107-06-2	2,300	3,100	220 U	870 U	2.1 U	320 U	4.2 U
1,2-Dichloropropane	78-87-5	NC	NC	220 U	870 U	2.1 U	320 U	4.2 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	220 U	20,000	2.1 U	7500	4.2 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	220 U	870 U	2.1 U	320 U	4.2 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	220 U	870 U	2.1 U	320 U	4.2 U
1,4-Dioxane	123-91-1	9,800	13,000	4,400 R	17,000 R	42 R	6,400 R	84 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	220 U	870 U	2.1 U	320 U	3.8 J
2-Hexanone	591-78-6	NC	NC	220 U	870 U	2.1 U	320 U	4.2 U
4-Isopropyltoluene	99-87-6	NC	NC	220 U	1000	2.1 U	320 U	4.2 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	220 U	870 U	2.1 U	320 U	4.2 U
Acetone	67-64-1	100,000	100,000	220 U	870 U	2.2	320 U	24
Benzene	71-43-2	2,900	4,800	220 U	870 U	2.1 U	320 U	4.2 U
Bromochloromethane	74-97-5	NC	NC	220 U	870 U	2.1 U	320 U	4.2 U
Bromodichloromethane	75-27-4	NC	NC	220 U	870 U	2.1 U	320 U	4.2 U
Bromoform	75-25-2	NC	NC	220 U	870 U	2.1 U	320 U	4.2 U
Bromomethane	74-83-9	NC	NC	220 U	870 U	2.1 U	320 U	4.2 UJ
Carbon disulfide	75-15-0	100,000[CP]	NC	220 U	870 U	1 J	320 U	4.2 U
Carbon Tetrachloride	56-23-5	1400	2,400	220 U	870 U	2.1 U	320 U	4.2 U
Chlorobenzene	108-90-7	100,000	100,000	220 U	870 U	2.1 U	320 U	4.2 U
Chloroethane	75-00-3	NC	NC	220 U	870 U	2.1 U	320 U	4.2 UJ
Chloroform	67-66-3	10,000	49,000	220 U	870 U	2.1 U	320 U	4.2 U
Chloromethane	74-87-3	NC	NC	220 U	870 U	2.1 U	320 U	4.2 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	220 U	870 U	2.1 U	320 U	4.2 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	220 U	870 U	2.1 U	320 U	4.2 U
Cyclohexane	110-82-7	NC	NC	220 U	49,000	2.1 U	320 U	4.2 U
Dibromochloromethane	124-48-1	NC	NC	220 U	870 U	2.1 U	320 U	4.2 U
Dichlorodifluoromethane	75-71-8	NC	NC	220 U	870 U	2.1 U	320 U	4.2 U
Ethylbenzene	100-41-4	30,000	41,000	220 U	160 J	2.1 U	320 U	4.2 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	220 U	2100	2.1 U	320 U	4.2 U
m,p-Xylene	XYLMP	NC	NC	440 U	88,000	4.2 U	640 U	8.4 U
Methyl Acetate	79-20-9	NC	NC	220 U	870 U	2.1 U	320 U	4.2 U
Methylcyclohexane	108-87-2	NC	NC	220 U	140,000	2.1 U	320 U	4.2 U
Methylene Chloride	75-09-2	51,000	100,000	220 U	870 U	2.1 U	320 U	4.2 U
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	220 U	870 U	2.1 U	320 U	4.2 U
n-Butylbenzene	104-51-8	100,000	100,000	220 U	870 U	2.1 U	320 U	4.2 U
n-Propylbenzene	103-65-1	100,000	100,000	220 U	2,300	2.1 U	320 U	4.2 U
o-Xylene	95-47-6	NC	NC	220 U	110 J	2.1 U	320 U	4.2 U
sec-Butylbenzene	135-98-8	100,000	100,000	220 U	710 J	2.1 U	170 J	4.2 U
Styrene	100-42-5	NC	NC	220 U	870 U	2.1 U	320 U	4.2 U
Tert-Butylbenzene	98-06-6	100,000	100,000	220 U	180 J	0.32 J	130 J	4.2 U
Tetrachloroethene	127-18-4	5,500	19,000	220 U	870 U	2.1 U	320 U	4.2 U
Toluene	108-88-3	100,000	100,000	220 U	870 U	2.1 U	320 U	4.2 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	220 U	870 U	2.1 U	320 U	4.2 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	220 U	870 U	2.1 U	320 U	4.2 U
Trichloroethene	79-01-6	10,000	21,000	220 U	870 U	2.1 U	320 U	4.2 U
Trichlorofluoromethane	75-69-4	NC	NC	220 U	870 U	2.1 U	320 U	4.2 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	220 U	870 U	2.1 U	320 U	4.2 U
Vinyl Chloride	75-01-4	210	900	220 U	870 U	2.1 U	320 U	4.2 U
TOTAL VOC TICs	NA	NC	NC	6,660	315,000	21.6	57,700	NT

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-172	SB-173	SB-173	SB-174	SB-174
			Sample ID	SB-172-8.8-9.6-082217	SB-173-12-15-082117	SB-173-12-15-090717	SB-174-12.5-15-082117	SB-174-12.5-15-090717
			Sample Date	8/22/2017	8/21/2017	9/7/2017	8/21/2017	9/7/2017
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1707777	R1707777	R1708422	R1707777	R1708422
			Start Depth	8.8	12	12	12.5	12.5
			End Depth	9.6	15	15	15	15
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]					
VOCs								
1,1,1-Trichloroethane	71-55-6	100,000	100,000	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
1,1,2-Trichloroethane	79-00-5	NC	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
1,1-Dichloroethane	75-34-3	19,000	26,000	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
1,1-Dichloroethene	75-35-4	100,000	100,000	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	6.6	6.3 U	4.2 U	6.6 U	4.2 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	5.5 U	6.3 U	4.2 UJ	6.6 U	4.2 UJ
1,2-Dibromoethane	106-93-4	NC	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
1,2-Dichloroethane	107-06-2	2,300	3,100	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
1,2-Dichloropropane	78-87-5	NC	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	3.2 J	6.3 U	4.2 U	6.6 U	4.2 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
1,4-Dioxane	123-91-1	9,800	13,000	110 U	130 U	84 R	130 U	84 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
2-Hexanone	591-78-6	NC	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
4-Isopropyltoluene	99-87-6	NC	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Acetone	67-64-1	100,000	100,000	6.2	6.3 U	4.2 U	6.6 U	4.2 U
Benzene	71-43-2	2,900	4,800	1.7 J	6.3 U	4.2 U	6.6 U	4.2 U
Bromochloromethane	74-97-5	NC	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Bromodichloromethane	75-27-4	NC	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Bromoform	75-25-2	NC	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Bromomethane	74-83-9	NC	NC	5.5 U	6.3 U	4.2 UJ	6.6 U	4.2 UJ
Carbon disulfide	75-15-0	100,000[CP]	NC	2.2 J	6.3 U	4.2 U	6.6 U	4.2 U
Carbon Tetrachloride	56-23-5	1400	2,400	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Chlorobenzene	108-90-7	100,000	100,000	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Chloroethane	75-00-3	NC	NC	5.5 U	6.3 U	4.2 UJ	6.6 U	4.2 UJ
Chloroform	67-66-3	10,000	49,000	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Chloromethane	74-87-3	NC	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Cyclohexane	110-82-7	NC	NC	7.3	6.3 U	4.2 U	6.6 U	4.2 U
Dibromochloromethane	124-48-1	NC	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Dichlorodifluoromethane	75-71-8	NC	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Ethylbenzene	100-41-4	30,000	41,000	1.4 J	6.3 U	4.2 U	6.6 U	4.2 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
m,p-Xylene	XYLMP	NC	NC	11	13 U	8.4 U	13 U	8.4 U
Methyl Acetate	79-20-9	NC	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Methylcyclohexane	108-87-2	NC	NC	14	6.3 U	4.2 U	6.6 U	4.2 U
Methylene Chloride	75-09-2	51,000	100,000	0.87 J	1 J	4.2 U	1.2 J	4.2 U
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
n-Butylbenzene	104-51-8	100,000	100,000	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
n-Propylbenzene	103-65-1	100,000	100,000	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
o-Xylene	95-47-6	NC	NC	2.9 J	6.3 U	4.2 U	6.6 U	4.2 U
sec-Butylbenzene	135-98-8	100,000	100,000	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Styrene	100-42-5	NC	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Tert-Butylbenzene	98-06-6	100,000	100,000	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Tetrachloroethene	127-18-4	5,500	19,000	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Toluene	108-88-3	100,000	100,000	7.2	6.3 U	4.2 U	6.6 U	4.2 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Trichloroethene	79-01-6	10,000	21,000	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Trichlorofluoromethane	75-69-4	NC	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
Vinyl Chloride	75-01-4	210	900	5.5 U	6.3 U	4.2 U	6.6 U	4.2 U
TOTAL VOC TICs	NA	NC	NC	NT	NT	NT	NT	NT

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-176	SB-TP-131	SB-TP-139[BB]	SB-TP-139[BB]	SB-TP-144
			Sample ID	SB-176-6-7-041216	SB-TP-131-5-7-031516	DUP-001-030716	SB-TP-139-12-14-030716	SB-TP-144-4-6-030916
			Sample Date	4/12/2016	3/15/2016	3/7/2016	3/7/2016	3/9/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1603190	R1602333	R1601955	R1601955	R1602058
			Start Depth	6	5	12	12	4
			End Depth	7	7	14	14	6
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]					
VOCs								
1,1,1-Trichloroethane	71-55-6	100,000	100,000	210 U	2.9 U	3.3 U	4.2 U	3.2 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
1,1,2-Trichloroethane	79-00-5	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
1,1-Dichloroethane	75-34-3	19,000	26,000	66 J	2.9 U	3.3 U	4.2 U	3.2 U
1,1-Dichloroethene	75-35-4	100,000	100,000	210 U	2.9 U	3.3 U	4.2 U	3.2 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	210 U	2.9 U	3.3 U	4.2 U	3.2 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
1,2-Dibromoethane	106-93-4	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	210 U	2.9 U	3.3 U	4.2 U	3.2 U
1,2-Dichloroethane	107-06-2	2,300	3,100	210 U	2.9 U	3.3 U	4.2 U	3.2 U
1,2-Dichloropropane	78-87-5	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	210 U	2.9 U	3.3 U	4.2 U	3.2 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	210 U	2.9 U	3.3 U	4.2 U	3.2 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	210 U	2.9 U	3.3 U	4.2 U	3.2 U
1,4-Dioxane	123-91-1	9,800	13,000	4,100 R	59 R	67 R	83 R	64 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	210 U	7.3	3.3 U	4.2 U	3.2 U
2-Hexanone	591-78-6	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
4-Isopropyltoluene	99-87-6	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Acetone	67-64-1	100,000	100,000	210 U	23	3.3 U	4.2 U	3.2 U
Benzene	71-43-2	2,900	4,800	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Bromochloromethane	74-97-5	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Bromodichloromethane	75-27-4	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Bromoform	75-25-2	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Bromomethane	74-83-9	NC	NC	210 U	2.9 U	3.3 UJ	4.2 U	3.2 UJ
Carbon disulfide	75-15-0	100,000[CP]	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Carbon Tetrachloride	56-23-5	1400	2,400	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Chlorobenzene	108-90-7	100,000	100,000	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Chloroethane	75-00-3	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Chloroform	67-66-3	10,000	49,000	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Chloromethane	74-87-3	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Cyclohexane	110-82-7	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Dibromochloromethane	124-48-1	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Dichlorodifluoromethane	75-71-8	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Ethylbenzene	100-41-4	30,000	41,000	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
m,p-Xylene	XYLMP	NC	NC	410 U	5.9 U	6.7 U	8.3 U	6.4 U
Methyl Acetate	79-20-9	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Methylcyclohexane	108-87-2	NC	NC	210 U	3.6	3.3 U	4.2 U	3.2 U
Methylene Chloride	75-09-2	51,000	100,000	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	210 U	2.9 U	3.3 U	4.2 U	3.2 U
n-Butylbenzene	104-51-8	100,000	100,000	63 J	2.9 U	3.3 U	4.2 U	3.2 U
n-Propylbenzene	103-65-1	100,000	100,000	210 U	2.9 U	3.3 U	4.2 U	3.2 U
o-Xylene	95-47-6	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
sec-Butylbenzene	135-98-8	100,000	100,000	230	2.9 U	3.3 U	4.2 U	3.2 U
Styrene	100-42-5	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Tert-Butylbenzene	98-06-6	100,000	100,000	110 J	1.7 J	3.3 U	4.2 U	3.2 U
Tetrachloroethene	127-18-4	5,500	19,000	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Toluene	108-88-3	100,000	100,000	210 U	2.9 U	3.3 U	4.2 U	3.2 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Trichloroethene	79-01-6	10,000	21,000	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Trichlorofluoromethane	75-69-4	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	210 U	2.9 U	3.3 U	4.2 U	3.2 U
Vinyl Chloride	75-01-4	210	900	210 U	2.9 U	3.3 U	4.2 U	3.2 U
TOTAL VOC TICs	NA	NC	NC	65,300	133.7	15.4	40	4.4

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-TP-147	TP-101	TP-103	TP-103	TP-104	TP-106
			Sample ID	SB-TP-147-16-18-031016	TP-101-2-4-012116	DUP-008-012116	TP-103-0-2-012116	TP-104-0-2-012216	TP-106-1.5-4-012216
			Sample Date	3/10/2016	1/21/2016	1/21/2016	1/21/2016	1/22/2016	1/22/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1602058	R1600468	R1600468	R1600468	R1600468	R1600468
			Start Depth	16	2	0	0	0	1.5
			End Depth	18	4	2	2	2	4
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
VOCs									
1,1,1-Trichloroethane	71-55-6	100,000	100,000	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
1,1,2-Trichloroethane	79-00-5	NC	NC	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
1,1-Dichloroethane	75-34-3	19,000	26,000	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
1,1-Dichloroethene	75-35-4	100,000	100,000	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	1.2 J	5.7 R	5.2 U	3.7 U	13 U	11 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
1,2-Dibromoethane	106-93-4	NC	NC	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
1,2-Dichloroethane	107-06-2	2,300	3,100	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
1,2-Dichloropropane	78-87-5	NC	NC	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	0.53 J	5.7 R	5.2 U	3.7 U	13 U	11 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
1,4-Dioxane	123-91-1	9,800	13,000	54 R	110 R	100 R	74 R	260 R	230 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
2-Hexanone	591-78-6	NC	NC	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
4-Isopropyltoluene	99-87-6	NC	NC	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
Acetone	67-64-1	100,000	100,000	2.4 J	5.7 R	3.3 J	83 J	28	22
Benzene	71-43-2	2,900	4,800	1.5 J	5.7 R	5.2 U	3.7 U	13 U	11 U
Bromochloromethane	74-97-5	NC	NC	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
Bromodichloromethane	75-27-4	NC	NC	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
Bromoform	75-25-2	NC	NC	2.7 U	5.7 U	5.2 U	3.7 U	13 U	11 U
Bromomethane	74-83-9	NC	NC	2.7 U	6.3 J	5.2 U	3.7 U	13 U	11 U
Carbon disulfide	75-15-0	100,000[CP]	NC	3.2	5.7 R	5.2 U	3.7 U	13 U	11 U
Carbon Tetrachloride	56-23-5	1400	2,400	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 UJ
Chlorobenzene	108-90-7	100,000	100,000	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
Chloroethane	75-00-3	NC	NC	2.7 U	5.7 R	5.2 UJ	3.7 UJ	13 UJ	11 UJ
Chloroform	67-66-3	10,000	49,000	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
Chloromethane	74-87-3	NC	NC	2.7 U	2 J	5.2 U	3.7 U	13 U	11 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
Cyclohexane	110-82-7	NC	NC	3.2	5.7 R	5.2 U	3.7 U	13 U	11 U
Dibromochloromethane	124-48-1	NC	NC	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
Dichlorodifluoromethane	75-71-8	NC	NC	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
Ethylbenzene	100-41-4	30,000	41,000	0.34 J	5.7 R	5.2 U	3.7 U	13 U	11 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	2.7 U	5.7 UJ	5.2 U	3.7 U	13 U	11 U
m,p-Xylene	XYLMP	NC	NC	2.5 J	11 R	10 U	7.4 U	26 U	23 U
Methyl Acetate	79-20-9	NC	NC	2.7 U	25	5.2 U	3.2 J	13 U	7 J
Methylcyclohexane	108-87-2	NC	NC	5.1	5.7 R	5.2 U	3.7 U	13 U	11 U
Methylene Chloride	75-09-2	51,000	100,000	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
n-Butylbenzene	104-51-8	100,000	100,000	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
n-Propylbenzene	103-65-1	100,000	100,000	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
o-Xylene	95-47-6	NC	NC	0.74 J	5.7 R	5.2 U	3.7 U	13 U	11 U
sec-Butylbenzene	135-98-8	100,000	100,000	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
Styrene	100-42-5	NC	NC	0.32 J	5.7 R	5.2 U	3.7 U	13 U	11 U
Tert-Butylbenzene	98-06-6	100,000	100,000	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
Tetrachloroethene	127-18-4	5,500	19,000	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
Toluene	108-88-3	100,000	100,000	3	3.8 J	5.2 U	3.7 U	13 U	11 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
Trichloroethene	79-01-6	10,000	21,000	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
Trichlorofluoromethane	75-69-4	NC	NC	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	2.7 U	5.7 U	5.2 U	3.7 U	13 U	11 U
Vinyl Chloride	75-01-4	210	900	2.7 U	5.7 R	5.2 U	3.7 U	13 U	11 U
TOTAL VOC TICs	NA	NC	NC	45.4	41.8	0	0	0	0

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
Sample Location				TP-107	TP-108	TP-109[BB]	TP-110	TP-112	TP-113
Sample ID				TP-107-0-2-012216	TP-108-0-1.5-012516	TP-109-4-4.5-012516	TP-110-1.5-2-012516	TP-112-3.5-4-012516	TP-113-1.5-2-012516
Sample Date				1/22/2016	1/25/2016	1/25/2016	1/25/2016	1/25/2016	1/25/2016
Unit				µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Lab SDG				R1600468	R1600634	R1600634	R1600634	R1600634	R1600634
Start Depth				0	0	4	1.5	3.5	1.5
End Depth				2	1.5	4.5	2	4	2
VOCs									
1,1,1-Trichloroethane	71-55-6	100,000	100,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
1,1,2-Trichloroethane	79-00-5	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
1,1-Dichloroethane	75-34-3	19,000	26,000	9.9 U	4.9 UJ	4.3 UJ	8.4 U	3.9 U	4 U
1,1-Dichloroethene	75-35-4	100,000	100,000	9.9 U	4.9 UJ	4.3 U	8.4 U	3.9 U	4 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
1,2-Dibromoethane	106-93-4	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
1,2-Dichloroethane	107-06-2	2,300	3,100	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
1,2-Dichloropropane	78-87-5	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
1,4-Dioxane	123-91-1	9,800	13,000	200 R	99 R	86 R	170 R	78 R	80 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
2-Hexanone	591-78-6	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
4-Isopropyltoluene	99-87-6	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Acetone	67-64-1	100,000	100,000	9.9 U	18 J	4.3 UJ	8.4 U	4.7 UJ	4 UJ
Benzene	71-43-2	2,900	4,800	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Bromochloromethane	74-97-5	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Bromodichloromethane	75-27-4	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Bromoform	75-25-2	NC	NC	9.9 U	4.9 UJ	4.3 UJ	8.4 UJ	3.9 UJ	4 UJ
Bromomethane	74-83-9	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Carbon disulfide	75-15-0	100,000[CP]	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Carbon Tetrachloride	56-23-5	1400	2,400	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Chlorobenzene	108-90-7	100,000	100,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Chloroethane	75-00-3	NC	NC	9.9 UJ	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Chloroform	67-66-3	10,000	49,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Chloromethane	74-87-3	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Cyclohexane	110-82-7	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Dibromochloromethane	124-48-1	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Dichlorodifluoromethane	75-71-8	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Ethylbenzene	100-41-4	30,000	41,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
m,p-Xylene	XYLMP	NC	NC	20 U	9.9 U	8.6 U	17 U	7.8 U	8 U
Methyl Acetate	79-20-9	NC	NC	9.9 U	4.9 U	4.3 U	8.4 UJ	3.9 UJ	4 UJ
Methylcyclohexane	108-87-2	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Methylene Chloride	75-09-2	51,000	100,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
n-Butylbenzene	104-51-8	100,000	100,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
n-Propylbenzene	103-65-1	100,000	100,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
o-Xylene	95-47-6	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
sec-Butylbenzene	135-98-8	100,000	100,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Styrene	100-42-5	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Tert-Butylbenzene	98-06-6	100,000	100,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Tetrachloroethene	127-18-4	5,500	19,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Toluene	108-88-3	100,000	100,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Trichloroethene	79-01-6	10,000	21,000	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Trichlorofluoromethane	75-69-4	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
Vinyl Chloride	75-01-4	210	900	9.9 U	4.9 U	4.3 U	8.4 U	3.9 U	4 U
TOTAL VOC TICs	NA	NC	NC	0	5.5	0	0	0	0

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
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[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	TP-116	TP-117	TP-118	TP-119	TP-120	TP-120
			Sample ID	TP-116-7-8-011516	TP-117-1.5-2-011516	TP-118-3.5-4-011516	TP-119-5-6-012616	DUP-009-012616	TP-120-4-4.5-012616
			Sample Date	1/15/2016	1/15/2016	1/15/2016	1/26/2016	1/26/2016	1/26/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1600468	R1600468	R1600468	R1600634	R1600634	R1600634
			Start Depth	7	1.5	3.5	5	4	4
			End Depth	8	2	4	6	4.5	4.5
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
VOCs									
1,1,1-Trichloroethane	71-55-6	100,000	100,000	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	7.2 U	4.6 UJ	6.6 U	4.2 U	3.1 U	2.9 U
1,1,2-Trichloroethane	79-00-5	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
1,1-Dichloroethane	75-34-3	19,000	26,000	7.2 U	4.6 U	6.6 U	4.2 UJ	3.1 UJ	2.9 U
1,1-Dichloroethene	75-35-4	100,000	100,000	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	7.2 U	4.6 UJ	6.6 U	4.2 U	3.1 U	2.9 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	7.2 U	4.6 UJ	6.6 U	4.2 U	3.1 U	2.9 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	7.2 U	4.6 UJ	6.6 U	4.2 U	3.1 U	2.9 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	7.2 U	4.6 UJ	6.6 U	4.2 U	3.1 U	2.9 U
1,2-Dibromoethane	106-93-4	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	7.2 U	4.6 UJ	6.6 U	4.2 U	3.1 U	2.9 U
1,2-Dichloroethane	107-06-2	2,300	3,100	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
1,2-Dichloropropane	78-87-5	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	7.2 U	4.6 UJ	6.6 U	4.2 U	3.1 U	2.9 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	7.2 U	4.6 UJ	6.6 U	4.2 U	3.1 U	2.9 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	7.2 U	4.6 UJ	6.6 U	4.2 U	3.1 U	2.9 U
1,4-Dioxane	123-91-1	9,800	13,000	140 R	92 R	130 R	85 R	62 R	58 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	5.5 J	4.6 U	6.6 U	4.9	10	5.9
2-Hexanone	591-78-6	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
4-Isopropyltoluene	99-87-6	NC	NC	7.2 U	4.6 UJ	6.6 U	4.2 U	3.1 U	2.9 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Acetone	67-64-1	100,000	100,000	42	8.3	6.9	34 J	47 J	95 J
Benzene	71-43-2	2,900	4,800	7.2 U	4.6 U	6.6 U	4.2 U	0.45 J	2.9 U
Bromochloromethane	74-97-5	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Bromodichloromethane	75-27-4	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Bromoform	75-25-2	NC	NC	7.2 U	4.6 U	6.6 U	4.2 UJ	3.1 UJ	2.9 UJ
Bromomethane	74-83-9	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Carbon disulfide	75-15-0	100,000[CP]	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Carbon Tetrachloride	56-23-5	1400	2,400	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Chlorobenzene	108-90-7	100,000	100,000	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Chloroethane	75-00-3	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Chloroform	67-66-3	10,000	49,000	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Chloromethane	74-87-3	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Cyclohexane	110-82-7	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Dibromochloromethane	124-48-1	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Dichlorodifluoromethane	75-71-8	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Ethylbenzene	100-41-4	30,000	41,000	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
m,p-Xylene	XYLMP	NC	NC	14 U	9.2 U	13 U	8.5 U	1.8 J	5.8 U
Methyl Acetate	79-20-9	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	1.4 J	2.9 UJ
Methylcyclohexane	108-87-2	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	1.1 J	79 J
Methylene Chloride	75-09-2	51,000	100,000	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	0.63 J
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
n-Butylbenzene	104-51-8	100,000	100,000	7.2 U	4.6 UJ	6.6 U	4.2 U	3.1 U	2.9 U
n-Propylbenzene	103-65-1	100,000	100,000	7.2 U	4.6 UJ	6.6 U	4.2 U	3.1 U	2.9 U
o-Xylene	95-47-6	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
sec-Butylbenzene	135-98-8	100,000	100,000	7.2 U	4.6 UJ	6.6 U	4.2 U	3.1 U	2.9 U
Styrene	100-42-5	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Tert-Butylbenzene	98-06-6	100,000	100,000	7.2 U	4.6 UJ	6.6 U	4.2 U	3.1 U	2.1 J
Tetrachloroethene	127-18-4	5,500	19,000	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Toluene	108-88-3	100,000	100,000	7.2 U	4.6 U	6.6 U	4.2 U	0.92 J	2.9 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Trichloroethene	79-01-6	10,000	21,000	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Trichlorofluoromethane	75-69-4	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
Vinyl Chloride	75-01-4	210	900	7.2 U	4.6 U	6.6 U	4.2 U	3.1 U	2.9 U
TOTAL VOC TICs	NA	NC	NC	0	0	20	100.6	0	994

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	TP-121	TP-122	TP-123	TP-124	TP-125	TP-127
			Sample ID	TP-121-8-8.5-012616	TP-122-7-8-012716	TP-123-4.5-5-012616	TP-124-7.5-8-012616	TP-125-3-4-012716	TP-127-8-8.5-012716
			Sample Date	1/26/2016	1/27/2016	1/26/2016	1/26/2016	1/27/2016	1/27/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1600634	R1600634	R1600634	R1600634	R1600634	R1600634
			Start Depth	8	7	4.5	7.5	3	8
			End Depth	8.5	8	5	8	4	8.5
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
VOCs									
1,1,1-Trichloroethane	71-55-6	100,000	100,000	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
1,1,2-Trichloroethane	79-00-5	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
1,1-Dichloroethane	75-34-3	19,000	26,000	2.6 R	1.9 UJ	230 U	180 U	2.7 UJ	490 U
1,1-Dichloroethene	75-35-4	100,000	100,000	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	2.6 R	0.25 J	250	130 J	2.7 U	490 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
1,2-Dibromoethane	106-93-4	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
1,2-Dichloroethane	107-06-2	2,300	3,100	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
1,2-Dichloropropane	78-87-5	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	2.6 R	1.9 U	210 J	120 J	2.7 U	490 U
1,3-Dichlorobenzene	541-73-1	17,000	49,000	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
1,4-Dioxane	123-91-1	9,800	13,000	51 R	38 R	4,600 R	3,700 R	54 R	9,700 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	3.8 J	5.4	230 U	180 UJ	1.4 J	240 J
2-Hexanone	591-78-6	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
4-Isopropyltoluene	99-87-6	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
Acetone	67-64-1	100,000	100,000	26 J	31 J	230 U	180 U	12 J	490 U
Benzene	71-43-2	2,900	4,800	2.6 R	1.9 U	68 J	180 U	2.7 U	490 U
Bromochloromethane	74-97-5	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
Bromodichloromethane	75-27-4	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
Bromoform	75-25-2	NC	NC	2.6 UJ	1.9 UJ	230 U	180 U	2.7 UJ	490 U
Bromomethane	74-83-9	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
Carbon disulfide	75-15-0	100,000[CP]	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
Carbon Tetrachloride	56-23-5	1400	2,400	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
Chlorobenzene	108-90-7	100,000	100,000	2.6 R	1.1 J	230 U	180 U	2.7 U	490 U
Chloroethane	75-00-3	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
Chloroform	67-66-3	10,000	49,000	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
Chloromethane	74-87-3	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
Cyclohexane	110-82-7	NC	NC	2.6 R	0.85 J	120 J	2100	2.7 U	490 U
Dibromochloromethane	124-48-1	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
Dichlorodifluoromethane	75-71-8	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
Ethylbenzene	100-41-4	30,000	41,000	2.6 R	1.9 U	160 J	180 U	2.7 U	490 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	2.6 UJ	1.9 U	230 U	57 J	2.7 U	490 U
m,p-Xylene	XYLMP	NC	NC	5.1 R	3.8 U	2400	92 J	5.4 U	970 U
Methyl Acetate	79-20-9	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	230 J
Methylcyclohexane	108-87-2	NC	NC	1.5 J	2.1	570	6200	2.7 U	330 J
Methylene Chloride	75-09-2	51,000	100,000	1 J	1.9 U	230 U	180 U	2.7 U	490 U
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
n-Butylbenzene	104-51-8	100,000	100,000	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
n-Propylbenzene	103-65-1	100,000	100,000	2.6 R	1.9 U	42 J	40 J	2.7 U	490 U
o-Xylene	95-47-6	NC	NC	2.6 R	1.9 U	82 J	180 U	2.7 U	490 U
sec-Butylbenzene	135-98-8	100,000	100,000	2.6 R	1.9 U	230 U	51 J	2.7 U	490 U
Styrene	100-42-5	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
Tert-Butylbenzene	98-06-6	100,000	100,000	1.1 J	0.26 J	230 U	180 U	2.7 U	70 J
Tetrachloroethene	127-18-4	5,500	19,000	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
Toluene	108-88-3	100,000	100,000	2.6 R	1.9 U	500	180 U	2.7 U	490 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
Trichloroethene	79-01-6	10,000	21,000	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
Trichlorofluoromethane	75-69-4	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
Vinyl Chloride	75-01-4	210	900	2.6 R	1.9 U	230 U	180 U	2.7 U	490 U
TOTAL VOC TICs	NA	NC	NC	19.7	30.6	2,510	10,060	0	9,080

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	TP-128	TP-129	TP-130	TP-132	TP-133	TP-134
			Sample ID	TP-128-5-6-012716	TP-129-4-4.5-012816	TP-130-9.5-10-012816	TP-132-3-3.5-012816	TP-133-6.5-7-012716	TP-134-5-6-012816
			Sample Date	1/27/2016	1/28/2016	1/28/2016	1/28/2016	1/27/2016	1/28/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1600634	R1600810	R1600810	R1600810	R1600634	R1600810
			Start Depth	5	4	9.5	3	6.5	5
			End Depth	6	4.5	10	3.5	7	6
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
VOCs									
1,1,1-Trichloroethane	71-55-6	100,000	100,000	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	7 U	2,400 U	7.2 UJ	2.8 UJ	5.5 U	6,300 U
1,1,2-Trichloroethane	79-00-5	NC	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
1,1-Dichloroethane	75-34-3	19,000	26,000	7 UJ	2,400 U	7.2 U	0.74 J	5.5 UJ	6,300 U
1,1-Dichloroethene	75-35-4	100,000	100,000	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	7 U	2,400 U	7.2 UJ	2.8 UJ	5.5 U	6,300 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	7 U	2,400 U	7.2 UJ	2.8 UJ	5.5 U	6,300 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	7 U	13,000	13 J	1.4 J	0.69 J	4,900 J
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	7 U	2,400 U	7.2 UJ	2.8 UJ	5.5 U	6,300 U
1,2-Dibromoethane	106-93-4	NC	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	7 U	2,400 U	7.2 UJ	2.8 UJ	5.5 U	6,300 U
1,2-Dichloroethane	107-06-2	2,300	3,100	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
1,2-Dichloropropane	78-87-5	NC	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	7 U	9,400	5 J	0.72 J	1.1 J	3,500 J
1,3-Dichlorobenzene	541-73-1	17,000	49,000	7 U	2,400 U	7.2 UJ	2.8 UJ	5.5 U	6,300 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	7 U	2,400 U	7.2 UJ	2.8 UJ	5.5 U	6,300 U
1,4-Dioxane	123-91-1	9,800	13,000	140 R	47,000 R	140 R	55 R	110 R	130,000 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	8.1	2,400 U	110	7.9	41	6,300 UJ
2-Hexanone	591-78-6	NC	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
4-Isopropyltoluene	99-87-6	NC	NC	7 U	3,000	7.2 UJ	2.8 UJ	5.5 U	6,300 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
Acetone	67-64-1	100,000	100,000	36 J	2,400 U	420 J	49 J	220 J	6,300 U
Benzene	71-43-2	2,900	4,800	7 U	2,400 U	10	1.6 J	5.5 U	6,300 U
Bromochloromethane	74-97-5	NC	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
Bromodichloromethane	75-27-4	NC	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
Bromoform	75-25-2	NC	NC	7 UJ	2,400 U	7.2 U	2.8 UJ	5.5 UJ	6,300 U
Bromomethane	74-83-9	NC	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
Carbon disulfide	75-15-0	100,000[CP]	NC	12	2,400 U	15	2.8 U	5.5 U	6,300 U
Carbon Tetrachloride	56-23-5	1400	2,400	7 U	2,400 U	7.2 UJ	2.8 UJ	5.5 U	6,300 U
Chlorobenzene	108-90-7	100,000	100,000	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
Chloroethane	75-00-3	NC	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
Chloroform	67-66-3	10,000	49,000	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
Chloromethane	74-87-3	NC	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
Cyclohexane	110-82-7	NC	NC	7 U	7,300	49	10	5.5 U	9,800
Dibromochloromethane	124-48-1	NC	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
Dichlorodifluoromethane	75-71-8	NC	NC	7 U	2,400 U	7.2 UJ	2.8 UJ	5.5 U	6,300 U
Ethylbenzene	100-41-4	30,000	41,000	7 U	2,400 U	2.9 J	0.32 J	5.5 U	6,300 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	7 U	2,500	7.2 U	2.8 UJ	5.5 U	6,300 U
m,p-Xylene	XYLMP	NC	NC	14 U	12,000	15	1.9 J	1.3 J	5,900 J
Methyl Acetate	79-20-9	NC	NC	7 U	2,400 U	9.9	2.8 U	2.7 J	6,300 U
Methylcyclohexane	108-87-2	NC	NC	5 J	25,000	79	12	87	59,000
Methylene Chloride	75-09-2	51,000	100,000	0.95 J	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
n-Butylbenzene	104-51-8	100,000	100,000	7 U	2,400 U	7.2 UJ	2.8 UJ	5.5 U	6,300 U
n-Propylbenzene	103-65-1	100,000	100,000	7 U	2,500	7.2 UJ	2.8 UJ	5.5 U	6,300 U
o-Xylene	95-47-6	NC	NC	7 U	2,400 U	6.3 J	0.59 J	5.5 U	6,300 U
sec-Butylbenzene	135-98-8	100,000	100,000	7 U	540 J	7.2 UJ	2.8 UJ	5.5 U	6,300 U
Styrene	100-42-5	NC	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
Tert-Butylbenzene	98-06-6	100,000	100,000	7 U	2,400 U	3.9 J	2.8 UJ	1.2 J	6,300 U
Tetrachloroethene	127-18-4	5,500	19,000	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
Toluene	108-88-3	100,000	100,000	7 U	2,400 U	16	1.9 J	5.5 U	6,300 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
Trichloroethene	79-01-6	10,000	21,000	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
Trichlorofluoromethane	75-69-4	NC	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
Vinyl Chloride	75-01-4	210	900	7 U	2,400 U	7.2 U	2.8 U	5.5 U	6,300 U
TOTAL VOC TICs	NA	NC	NC	21.7	89,000	1,479	198.7	913	29,500

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	TP-136	TP-137	TP-138	TP-140[BB]	TP-141	TP-143
			Sample ID	TP-136-8-8.5-012916	TP-137-9.5-10-012916	TP-138-5-6-011516	TP-140-2.5-3-011416	TP-141-4-5-011416	TP-143-4-6.5-011416
			Sample Date	1/29/2016	1/29/2016	1/15/2016	1/14/2016	1/14/2016	1/14/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	R1600810	R1600810	R1600468	R1600423	R1600423	R1600423
			Start Depth	8	9.5	5	2.5	4	4
			End Depth	8.5	10	6	3	5	6.5
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
VOCs									
1,1,1-Trichloroethane	71-55-6	100,000	100,000	1.8 U	4.3 U	190 U	1.1 J	3.3 U	4.4 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 UJ
1,1,2-Trichloroethane	79-00-5	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
1,1-Dichloroethane	75-34-3	19,000	26,000	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
1,1-Dichloroethene	75-35-4	100,000	100,000	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 UJ
1,2,4-Trichlorobenzene	120-82-1	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 UJ
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 UJ
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	1.8 U	4.3 U	190 UJ	6.8 U	3.3 U	4.4 UJ
1,2-Dibromoethane	106-93-4	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 UJ
1,2-Dichloroethane	107-06-2	2,300	3,100	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
1,2-Dichloropropane	78-87-5	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 UJ
1,3-Dichlorobenzene	541-73-1	17,000	49,000	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 UJ
1,4-Dichlorobenzene	106-46-7	9,800	13,000	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 UJ
1,4-Dioxane	123-91-1	9,800	13,000	36 R	86 R	3,800 R	NA	NA	NA
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	1.3 J	15	100 J	6.8 U	3.3 U	11
2-Hexanone	591-78-6	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
4-Isopropyltoluene	99-87-6	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 UJ
4-Methyl-2-Pentanone	108-10-1	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Acetone	67-64-1	100,000	100,000	8.2 UJ	76 J	190 U	13	3.8 J	48
Benzene	71-43-2	2,900	4,800	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Bromochloromethane	74-97-5	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Bromodichloromethane	75-27-4	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Bromoform	75-25-2	NC	NC	1.8 UJ	4.3 UJ	190 U	6.8 U	3.3 U	4.4 U
Bromomethane	74-83-9	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Carbon disulfide	75-15-0	100,000[CP]	NC	2	6.6	190 U	6.8 U	3.3 U	4.4 U
Carbon Tetrachloride	56-23-5	1400	2,400	1.8 UJ	4.3 UJ	190 UJ	6.8 U	3.3 U	4.4 U
Chlorobenzene	108-90-7	100,000	100,000	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Chloroethane	75-00-3	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Chloroform	67-66-3	10,000	49,000	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Chloromethane	74-87-3	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Cyclohexane	110-82-7	NC	NC	1.8 U	4.3 U	190 UJ	6.8 U	3.3 U	4.4 U
Dibromochloromethane	124-48-1	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Dichlorodifluoromethane	75-71-8	NC	NC	1.8 UJ	4.3 UJ	190 U	6.8 U	3.3 U	4.4 U
Ethylbenzene	100-41-4	30,000	41,000	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Isopropylbenzene	98-82-8	100,000[CP]	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
m,p-Xylene	XYLMP	NC	NC	3.6 U	8.6 U	380 U	14 U	6.6 U	8.9 U
Methyl Acetate	79-20-9	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Methylcyclohexane	108-87-2	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Methylene Chloride	75-09-2	51,000	100,000	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
n-Butylbenzene	104-51-8	100,000	100,000	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 UJ
n-Propylbenzene	103-65-1	100,000	100,000	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 UJ
o-Xylene	95-47-6	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
sec-Butylbenzene	135-98-8	100,000	100,000	1.8 U	4.3 U	140 J	6.8 U	3.3 U	4.4 UJ
Styrene	100-42-5	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Tert-Butylbenzene	98-06-6	100,000	100,000	1.8 U	4.3 U	45 J	6.8 U	3.3 U	4.4 UJ
Tetrachloroethene	127-18-4	5,500	19,000	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Toluene	108-88-3	100,000	100,000	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Trichloroethene	79-01-6	10,000	21,000	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Trichlorofluoromethane	75-69-4	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
Vinyl Chloride	75-01-4	210	900	1.8 U	4.3 U	190 U	6.8 U	3.3 U	4.4 U
TOTAL VOC TICs	NA	NC	NC	2.8	568	37,800	0	0	0

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8A - Subsurface Soil Results Compared to Restricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	TP-148	TP-150[BB]	TP-152
			Sample ID	TP-148-2-2.5-012516	TP-150-4-6-011316	TP-152-2.5-3-012916
			Sample Date	1/25/2016	1/13/2016	1/29/2016
			Unit	µg/kg	µg/kg	µg/kg
			Lab SDG	R1600634	R1600375	R1600810
			Start Depth	2	4	2.5
			End Depth	2.5	6	3
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]			
VOCs						
1,1,1-Trichloroethane	71-55-6	100,000	100,000	5 U	13 U	4.1 U
1,1,2,2-Tetrachloroethane	79-34-5	35,000[CP]	NC	5 U	13 U	4.1 U
1,1,2-Trichloroethane	79-00-5	NC	NC	5 U	13 U	4.1 U
1,1-Dichloroethane	75-34-3	19,000	26,000	5 UJ	13 U	4.1 U
1,1-Dichloroethene	75-35-4	100,000	100,000	5 U	13 U	4.1 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	5 U	13 U	4.1 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	5 U	13 U	4.1 U
1,2,4-Trimethylbenzene	95-63-6	47,000	52,000	5 U	13 U	2.2 J
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	5 U	13 U	4.1 U
1,2-Dibromoethane	106-93-4	NC	NC	5 U	13 U	4.1 U
1,2-Dichlorobenzene	95-50-1	100,000	100,000	5 U	13 U	4.1 U
1,2-Dichloroethane	107-06-2	2,300	3,100	5 U	13 U	4.1 U
1,2-Dichloropropane	78-87-5	NC	NC	5 U	13 U	4.1 U
1,3,5-Trimethylbenzene	108-67-8	47,000	52,000	5 U	13 U	0.89 J
1,3-Dichlorobenzene	541-73-1	17,000	49,000	5 U	13 U	4.1 U
1,4-Dichlorobenzene	106-46-7	9,800	13,000	5 U	13 U	4.1 U
1,4-Dioxane	123-91-1	9,800	13,000	100 R	NA	81 R
2-Butanone	78-93-3	100,000; 100,000[CP]	100,000	3.4 J	13 U	5.5
2-Hexanone	591-78-6	NC	NC	5 U	13 U	4.1 U
4-Isopropyltoluene	99-87-6	NC	NC	5 U	13 U	4.1 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	5 U	13 U	4.1 U
Acetone	67-64-1	100,000	100,000	24 J	17	27 J
Benzene	71-43-2	2,900	4,800	5 U	13 U	4.6
Bromochloromethane	74-97-5	NC	NC	5 U	13 U	4.1 U
Bromodichloromethane	75-27-4	NC	NC	5 U	13 U	4.1 U
Bromoform	75-25-2	NC	NC	5 UJ	13 U	4.1 UJ
Bromomethane	74-83-9	NC	NC	5 U	13 U	4.1 U
Carbon disulfide	75-15-0	100,000[CP]	NC	5 U	13 U	4.1 U
Carbon Tetrachloride	56-23-5	1400	2,400	5 U	13 U	4.1 UJ
Chlorobenzene	108-90-7	100,000	100,000	5 U	13 U	4.1 U
Chloroethane	75-00-3	NC	NC	5 U	13 U	4.1 U
Chloroform	67-66-3	10,000	49,000	5 U	13 U	4.1 U
Chloromethane	74-87-3	NC	NC	5 U	13 U	4.1 U
cis-1,2-Dichloroethene	156-59-2	59,000	100,000	5 U	13 U	4.1 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	5 U	13 U	4.1 U
Cyclohexane	110-82-7	NC	NC	5 U	13 U	23
Dibromochloromethane	124-48-1	NC	NC	5 U	13 U	4.1 UJ
Dichlorodifluoromethane	75-71-8	NC	NC	5 U	13 U	4.1 U
Ethylbenzene	100-41-4	30,000	41,000	5 U	13 U	1 J
Isopropylbenzene	98-82-8	100,000[CP]	NC	5 U	13 U	4.1 U
m,p-Xylene	XYLMP	NC	NC	10 U	26 U	4.6 J
Methyl Acetate	79-20-9	NC	NC	5 U	13 U	4.1 U
Methylcyclohexane	108-87-2	NC	NC	5 U	13 U	22
Methylene Chloride	75-09-2	51,000	100,000	5 U	13 U	4.1 UJ
Methyl tert-butyl ether (MTBE)	1634-04-4	62,000	100,000	5 U	13 U	4.1 U
n-Butylbenzene	104-51-8	100,000	100,000	5 U	13 U	4.1 U
n-Propylbenzene	103-65-1	100,000	100,000	5 U	13 U	4.1 U
o-Xylene	95-47-6	NC	NC	5 U	13 U	1.5 J
sec-Butylbenzene	135-98-8	100,000	100,000	5 U	13 U	4.1 U
Styrene	100-42-5	NC	NC	5 U	13 U	4.1 U
Tert-Butylbenzene	98-06-6	100,000	100,000	5 U	13 U	4.1 U
Tetrachloroethene	127-18-4	5,500	19,000	5 U	13 U	4.1 U
Toluene	108-88-3	100,000	100,000	5 U	13 U	6.8
trans-1,2-Dichloroethene	156-60-5	100,000	100,000	5 U	13 U	4.1 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	5 U	13 U	4.1 U
Trichloroethene	79-01-6	10,000	21,000	5 U	13 U	4.1 U
Trichlorofluoromethane	75-69-4	NC	NC	5 U	13 U	4.1 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	5 U	13 U	4.1 U
Vinyl Chloride	75-01-4	210	900	5 U	13 U	4.1 U
TOTAL VOC TICs	NA	NC	NC	0	0	230.7

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8B - Subsurface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	OVR-100	OVR-107	OVR-108	OVR-109	OVR-109	OVR-116	OVR-117
			Sample ID	OVR-100-6-7-04222016	OVR-107-10-11-041216	OVR-108-4.1-5.4-041316	DUP-004-041116	OVR-109-10-11.8-041116	OVR-116-10-11.9-040116	OVR-117-7-7.6-040716
			Sample Date	4/22/2016	4/12/2016	4/13/2016	4/11/2016	4/11/2016	4/1/2016	4/7/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2139069	2136537	2139069	2136537	2136537	2136532	2136537
			Start Depth	6	10	4.1	10	10	10	7
			End Depth	7	11	5.4	11.8	11.8	11.9	7.6
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]							
SVOCs										
1,1'-Biphenyl	92-52-4	NC	NC	35.2	121 U	126 U	118 U	133 U	117 U	18,800
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	280 U	242 U	252 U	237 U	266 U	234 U	4,150 R
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	280 U	242 U	252 U	237 U	266 U	234 U	4,150 R
2,4,6-Trichlorophenol	88-06-2	NC	NC	280 U	242 U	252 U	237 U	266 U	234 U	4,150 R
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	280 U	242 U	252 U	237 U	266 U	234 U	4,150 R
2,4-Dimethylphenol	105-67-9	NC	NC	280 U	242 U	252 U	237 U	266 U	234 U	4,150 R
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	490 U	423 U	441 U	414 U	465 U	409 U	7,260 R
2,4-Dinitrotoluene	121-14-2	NC	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
2,6-Dinitrotoluene	606-20-2	1,030[CP]	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
2-Chloronaphthalene	91-58-7	NC	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	280 U	242 U	252 U	237 U	266 U	234 U	4,150 R
2-Methylnaphthalene	91-57-6	*410*[CP]	NC	222	121 U	126 U	23.9	133 U	117 U	30,600
2-Methylphenol	95-48-7	100,000	100,000	280 U	242 U	252 U	237 U	266 U	234 U	4,150 R
2-Nitroaniline	88-74-4	NC	NC	280 U	242 U	252 U	237 U	266 U	234 U	4,150 U
2-Nitrophenol	88-75-5	NC	NC	280 U	242 U	252 U	237 U	266 U	234 U	4,150 R
3,3-Dichlorobenzidine	91-94-1	NC	NC	280 U	242 U	252 U	237 U	266 U	234 U	4,150 U
3-Nitroaniline	99-09-2	NC	NC	280 U	242 U	252 U	237 U	266 U	234 U	4,150 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	280 U	242 U	252 U	237 U	266 U	234 U	4,150 R
4-Bromophenyl-phenylether	101-55-3	NC	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	280 U	242 U	252 U	237 U	266 U	234 U	4,150 R
4-Chloroaniline	106-47-8	100,000[CP]	NC	280 U	242 U	252 U	237 U	266 U	234 U	4,150 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
4-Nitroaniline	100-01-6	NC	NC	280 U	242 U	252 U	237 U	266 U	234 U	4,150 U
4-Nitrophenol	100-02-7	NC	NC	280 U	242 U	252 U	237 U	266 U	234 U	4,150 R
Acenaphthene	83-32-9	100,000	100,000	46	60.5 U	63 U	26	66.5 U	58.5 U	4,080
Acenaphthylene	208-96-8	100,000	100,000	70 U	60.5 U	63 U	16.5	66.5 U	58.5 U	32,300
Acetophenone	98-86-2	NC	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
Anthracene	120-12-7	100,000	100,000	87.8	60.5 U	63 U	68.4	66.5 U	58.5 U	10,800
Atrazine	1912-24-9	NC	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
Benzaldehyde	100-52-7	NC	NC	92.1	242 U	252 U	237 U	266 U	234 U	4,150 U
Benzidine	92-87-5	NC	NC	280 U	242 U	252 U	237 U	266 U	234 U	4,150 U
Benzo[a]anthracene	56-55-3	1,000	1,000	359	60.5 U	63 U	152	66.5 U	58.5 U	6,230
Benzo[a]pyrene	50-32-8	1,000	1,000	187	60.5 U	63 U	129	66.5 U	58.5 U	7,490
Benzo[b]fluoranthene	205-99-2	1,000	1,000	270	60.5 U	63 U	172	66.5 U	58.5 U	6,000
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	161	60.5 U	63 U	92.6	66.5 U	58.5 U	5,110
Benzo[k]fluoranthene	207-08-9	1,000	3,900	87.1	60.5 U	63 U	61.1	66.5 U	58.5 U	2,070
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	350 U	302 U	315 U	296 U	332 U	292 U	5,190 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
Caprolactam	105-60-2	NC	NC	280 U	242 U	252 U	237 U	266 U	234 U	4,150 U
Carbazole	86-74-8	NC	NC	50.5	121 U	126 U	29	133 U	117 U	2,080 U
Chrysene	218-01-9	1,000	3,900	498	60.5 U	63 U	170	66.5 U	58.5 U	7,840
Dibenzo[a,h]Anthracene	53-70-3	330	330	68.2	60.5 U	63 U	28.8	66.5 U	58.5 U	464
Dibenzofuran	132-64-9	14,000	59,000	93.7	121 U	126 U	118 U	133 U	117 U	2,080 U
Diethylphthalate	84-66-2	100,000[CP]	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
Fluoranthene	206-44-0	100,000	100,000	446	60.5 U	63 U	312	40.6	58.5 U	19,600
Fluorene	86-73-7	100,000	100,000	82.1	60.5 U	63 U	42.1	66.5 U	58.5 U	14,000
Hexachlorobenzene	118-74-1	330, 410[CP]	1,200	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
Hexachlorobutadiene	87-68-3	NC	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	280 U	242 U	252 U	237 U	266 U	234 U	4,150 U
Hexachloroethane	67-72-1	NC	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	155	60.5 U	63 U	99.1	66.5 U	58.5 U	3,920
Isophorone	78-59-1	100,000[CP]	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	67.4	242 U	252 U	237 U	266 U	234 U	4,150 R
Naphthalene	91-20-3	100,000	100,000	177	60.5 U	63 U	39.4	66.5 U	58.5 U	359,000
Nitrobenzene	98-95-3	3700[CP]	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	140 U	121 U	126 U	118 U	133 U	117 U	2,080 U
Pentachlorophenol	87-86-5	2,400	6,700	280 U	242 U	252 U	237 U	266 U	234 U	4,150 U
Phenanthrene	85-01-8	100,000	100,000	582	60.5 U	63 U	302	63.8	58.5 U	45,800
Phenol	108-95-2	100,000	100,000	280 U	242 U	252 U	237 U	266 U	234 U	957
Pyrene	129-00-0	100,000	100,000	462	60.5 U	63 U	262	39.6	58.5 U	25,800
Pyridine	110-86-1	NC	NC	280 U	242 U	252 U	237 U	266 U	234 U	4,150 U
Total SVOC TICs	NA	NC	NC	30,884	NT	3,701	1,083	6,472	NT	718,100

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
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[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8B - Subsurface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	OVR-118	fill SB-100	SB-101	fill SB-103	SB-104	SB-105	fill SB-106
			Sample ID	OVR-118-0.5-1-041316	SB-100-9-10-031016	SB-101-12.5-14-031016	SB-103-4.8-5.8-030416	SB-104-12-13-030316	SB-105-11-12-031016	SB-106-5-6-030316
			Sample Date	4/13/2016	3/10/2016	3/10/2016	3/4/2016	3/3/2016	3/10/2016	3/3/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2139069	2130254	2130254	2129473	2129473	2130254	2129473
			Start Depth	0.5	9	12.5	4.8	12	11	5
			End Depth	1	10	14	5.8	13	12	6
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]							
SVOCs										
1,1'-Biphenyl	92-52-4	NC	NC	27.2	147 U	128 U	154	118 U	156 U	53
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	222 U	295 U	255 U	242 U	236 U	312 U	248 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	222 U	295 U	255 U	242 U	236 U	312 U	248 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	222 U	295 U	255 U	242 U	236 U	312 U	248 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	222 U	295 U	255 U	242 U	236 U	312 U	248 U
2,4-Dimethylphenol	105-67-9	NC	NC	222 U	295 U	255 U	242 U	236 U	312 U	248 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	389 U	515 U	447 U	424 U	413 U	546 U	433 U
2,4-Dinitrotoluene	121-14-2	NC	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
2,6-Dinitrotoluene	606-20-2	1,030[CP]	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
2-Chloronaphthalene	91-58-7	NC	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	222 U	295 U	255 U	242 U	236 U	312 U	248 U
2-Methylnaphthalene	91-57-6	*410*[CP]	NC	402	73.2	128 U	526	118 U	156 U	113
2-Methylphenol	95-48-7	100,000	100,000	222 U	295 U	255 U	242 U	236 U	312 U	248 U
2-Nitroaniline	88-74-4	NC	NC	222 U	295 U	255 U	242 U	236 U	312 U	248 U
2-Nitrophenol	88-75-5	NC	NC	222 U	295 U	255 U	242 U	236 U	312 U	248 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	222 U	295 U	255 U	242 U	236 U	312 U	248 U
3-Nitroaniline	99-09-2	NC	NC	222 U	295 U	255 U	242 U	236 U	312 U	248 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	222 U	295 U	255 U	242 U	236 U	312 U	248 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	222 U	295 U	255 U	242 U	236 U	312 U	248 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	222 U	295 U	255 U	242 U	236 U	312 U	248 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
4-Nitroaniline	100-01-6	NC	NC	222 U	295 U	255 U	242 U	236 U	312 U	248 U
4-Nitrophenol	100-02-7	NC	NC	222 U	295 U	255 U	242 U	236 U	312 U	248 U
Acenaphthene	83-32-9	100,000	100,000	30.9	38.1	63.9 U	638	59.1 U	78.1 U	302
Acenaphthylene	208-96-8	100,000	100,000	63.9	233	63.9 U	60.6 U	59.1 U	78.1 U	185
Acetophenone	98-86-2	NC	NC	494 U	362	128 U	121 U	118 U	228	124 U
Anthracene	120-12-7	100,000	100,000	92.6	191	63.9 U	1750	59.1 U	78.1 U	688
Atrazine	1912-24-9	NC	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
Benzaldehyde	100-52-7	NC	NC	85.7	186	255 U	46.2	236 U	43.1	45.5
Benzidine	92-87-5	NC	NC	222 R	295 U	255 U	242 U	236 U	312 U	248 U
Benzo[a]anthracene	56-55-3	1,000	1,000	352	505	63.9 U	2,280	25.4	36.3	3,290
Benzo[a]pyrene	50-32-8	1,000	1,000	376	686	63.9 U	1,970	59.1 U	78.1 U	3,420
Benzo[b]fluoranthene	205-99-2	1,000	1,000	484	804	63.9 U	2,680	59.1 U	78.1 U	4,300
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	254	352	63.9 U	1,310	59.1 U	33.5	2,260
Benzo[k]fluoranthene	207-08-9	1,000	3,900	209	302	63.9 U	979	59.1 U	78.1 U	1,510
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	278 U	368 U	319 U	303 U	295 U	390 U	310 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
Caprolactam	105-60-2	NC	NC	222 U	295 U	255 U	242 U	236 U	312 U	248 U
Carbazole	86-74-8	NC	NC	53.9	52.4	128 U	1,020	118 U	156 U	272
Chrysene	218-01-9	1,000	3,900	403	480	63.9 U	2,430	59.1 U	52.9	4,140
Dibenzo[a,h]Anthracene	53-70-3	330	330	77.9	113	63.9 U	391	59.1 U	78.1 U	541
Dibenzofuran	132-64-9	14,000	59,000	114	72.4	128 U	965	118 U	156 U	209
Diethylphthalate	84-66-2	100,000[CP]	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
Fluoranthene	206-44-0	100,000	100,000	583	664	63.9 U	5420	59.1 U	52.2	7,600
Fluorene	86-73-7	100,000	100,000	38.9	69.1	63.9 U	1170	59.1 U	78.1 U	306
Hexachlorobenzene	118-74-1	330, 410[CP]	1,200	111 U	147 U	128 U	121 U	118 U	156 U	124 U
Hexachlorobutadiene	87-68-3	NC	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	222 U	295 U	255 U	242 U	236 U	312 U	248 U
Hexachloroethane	67-72-1	NC	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	273	399	63.9 U	1,420	59.1 U	78.1 U	2,350
Isophorone	78-59-1	100,000[CP]	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	21.6	81.1	255 U	38.4	236 U	46.9	45.6
Naphthalene	91-20-3	100,000	100,000	348	157	63.9 U	870	59.1 U	78.1 U	208
Nitrobenzene	98-95-3	3700[CP]	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	111 U	147 U	128 U	121 U	118 U	156 U	124 U
Pentachlorophenol	87-86-5	2,400	6,700	222 U	295 U	255 U	242 U	236 U	312 U	248 U
Phenanthrene	85-01-8	100,000	100,000	432	415	63.9 U	6,410	59.1 U	37	2480
Phenol	108-95-2	100,000	100,000	222 U	295 U	255 U	104	42.7	312 U	46.2
Pyrene	129-00-0	100,000	100,000	509	633	63.9 U	4120	59.1 U	46.3	7310
Pyridine	110-86-1	NC	NC	222 U	295 U	255 U	242 U	236 U	312 U	107
Total SVOC TICs	NA	NC	NC	1,497	2,522	591	12,449	NT	31,666	22,938

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
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µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
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[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
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Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8B - Subsurface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				fill					Fill/BB		
			Sample Location	SB-107	SB-108	SB-109	SB-111	SB-112	SB-113	SB-113[BB]	SB-113
			Sample ID	SB-107-6-7-030316	SB-108-5.8-6.4-030316	SB-109-8-9-030216	SB-111-6-7-031016	B-112-0.5-2.0-08221	DUP-002-031416	SB-113-1-2-031416	SB-113-4.5-6.5-031416
			Sample Date	3/3/2016	3/3/2016	3/2/2016	3/10/2016	8/22/2017	3/14/2016	3/14/2016	3/14/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2129473	2129473	2127346	2130254	2258101	2130903	2130903	2130903
			Start Depth	6	5.8	8	6	0.5	4.5	1	4.5
			End Depth	7	6.4	9	7	2	6.5	2	6.5
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]								
SVOCs											
1,1'-Biphenyl	92-52-4	NC	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
2,4-Dimethylphenol	105-67-9	NC	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	412 U	437 U	439 U	376 U	260 U	423 U	439 U	556 U
2,4-Dinitrotoluene	121-14-2	NC	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
2,6-Dinitrotoluene	606-20-2	1,030[CP]	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
2-Chloronaphthalene	91-58-7	NC	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
2-Methylnaphthalene	91-57-6	*410*[CP]	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	45.5
2-Methylphenol	95-48-7	100,000	100,000	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
2-Nitroaniline	88-74-4	NC	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
2-Nitrophenol	88-75-5	NC	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
3-Nitroaniline	99-09-2	NC	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
4-Nitroaniline	100-01-6	NC	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
4-Nitrophenol	100-02-7	NC	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
Acenaphthene	83-32-9	100,000	100,000	58.9 U	62.4 U	62.7 U	53.8 U	65 U	60.5 U	62.7 U	79.5 U
Acenaphthylene	208-96-8	100,000	100,000	58.9 U	62.4 U	62.7 U	53.8 U	65 U	60.5 U	62.7 U	79.5 U
Acetophenone	98-86-2	NC	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
Anthracene	120-12-7	100,000	100,000	58.9 U	62.4 U	61.3	53.8 U	65 U	60.5 U	62.7 U	79.5 U
Atrazine	1912-24-9	NC	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
Benzaldehyde	100-52-7	NC	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
Benzidine	92-87-5	NC	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
Benzo[a]anthracene	56-55-3	1,000	1,000	30.5	61.6	159	53.8 U	65 U	60.5 U	62.7 U	253
Benzo[a]pyrene	50-32-8	1,000	1,000	58.9 U	86.4	138	53.8 U	65 U	60.5 U	62.7 U	79.5 U
Benzo[b]fluoranthene	205-99-2	1,000	1,000	27.5	89	177	53.8 U	65 U	60.5 U	62.7 U	211
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	38.7	69.2	75.8	53.8 U	65 U	60.5 U	62.7 U	226
Benzo[k]fluoranthene	207-08-9	1,000	3,900	58.9 U	36	76.9	53.8 U	65 U	60.5 U	62.7 U	79.5 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	295 U	312 U	313 U	269 U	130 U	302 U	314 U	397 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
Caprolactam	105-60-2	NC	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
Carbazole	86-74-8	NC	NC	118 U	125 U	22.5	108 U	130 U	121 U	125 U	159 U
Chrysene	218-01-9	1,000	3,900	58.9 U	67.6	155	53.8 U	65 U	60.5 U	62.7 U	546
Dibenzo[a,h]Anthracene	53-70-3	330	330	58.9 U	29.8	62.7 U	53.8 U	65 U	60.5 U	62.7 U	129
Dibenzofuran	132-64-9	14,000	59,000	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
Diethylphthalate	84-66-2	100,000[CP]	NC	118 U	125 U	125 U	108 U	130 U	121 U	27.7	37.9
Dimethylphthalate	131-11-3	100,000[CP]	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
Fluoranthene	206-44-0	100,000	100,000	34	112	290	53.8 U	65 U	60.5 U	62.7 U	79.5 U
Fluorene	86-73-7	100,000	100,000	58.9 U	62.4 U	62.7 U	53.8 U	65 U	60.5 U	62.7 U	79.5 U
Hexachlorobenzene	118-74-1	330, 410[CP]	1,200	118 U	125 U	125 U	108 U	130 U	121 U	24	159 U
Hexachlorobutadiene	87-68-3	NC	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
Hexachloroethane	67-72-1	NC	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	58.9 U	48.4	89.7	53.8 U	65 U	60.5 U	27.2	73.4
Isophorone	78-59-1	100,000[CP]	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
Naphthalene	91-20-3	100,000	100,000	58.9 U	62.4 U	62.7 U	53.8 U	65 U	60.5 U	62.7 U	79.5 U
Nitrobenzene	98-95-3	3700[CP]	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	118 U	125 U	125 U	108 U	130 U	121 U	125 U	159 U
Pentachlorophenol	87-86-5	2,400	6,700	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
Phenanthrene	85-01-8	100,000	100,000	27.2	86.4	133	53.8 U	65 U	60.5 U	62.7 U	147
Phenol	108-95-2	100,000	100,000	79.6	250 U	251 U	215 U	260 U	242 U	251 U	318 U
Pyrene	129-00-0	100,000	100,000	43.9	131	243	53.8 U	65 U	60.5 U	62.7 U	56.3
Pyridine	110-86-1	NC	NC	236 U	250 U	251 U	215 U	260 U	242 U	251 U	318 U
Total SVOC TICs	NA	NC	NC	7,382	1,665	NT	NT	NT	498	1,001	23,012

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8B - Subsurface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

					fill					fill		
			Sample Location	SB-114	SB-115	SB-116	SB-117	SB-117	SB-118	SB-119	SB-120
			Sample ID	SB-114-2-2.5-030216	SB-115-5.6-6.7-030216	SB-116-5.7-6.5-030216	DUP-003-030216	SB-117-5.9-7-030216	SB-118-7-7.4-030216	SB-119-4.5-6-031116	SB-120-6.5-7.4-031416
			Sample Date	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/11/2016	3/14/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2127346	2127346	2127346	2127346	2127346	2127346	2130903	2130903
			Start Depth	2	5.6	5.7	5.9	5.9	7	4.5	6.5
			End Depth	2.5	6.7	6.5	7	7	7.4	6	7.4
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]								
SVOCs											
1,1'-Biphenyl	92-52-4	NC	NC	114 U	622	130 U	130 U	134 U	117 U	120 U	152 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
2,4-Dimethylphenol	105-67-9	NC	NC	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	399 U	449 U	454 U	455 U	470 U	409 U	419 U	532 U
2,4-Dinitrotoluene	121-14-2	NC	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
2,6-Dinitrotoluene	606-20-2	1,030[CP]	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
2-Chloronaphthalene	91-58-7	NC	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
2-Methylnaphthalene	91-57-6	*410* [CP]	NC	114 U	1,880	29.5	130 U	29.1	117 U	120 U	46.7
2-Methylphenol	95-48-7	100,000	100,000	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
2-Nitroaniline	88-74-4	NC	NC	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
2-Nitrophenol	88-75-5	NC	NC	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
3-Nitroaniline	99-09-2	NC	NC	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
4-Nitroaniline	100-01-6	NC	NC	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
4-Nitrophenol	100-02-7	NC	NC	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
Acenaphthene	83-32-9	100,000	100,000	57.1 U	3,610	41	65 U	67.1 U	58.4 U	59.9 U	76 U
Acenaphthylene	208-96-8	100,000	100,000	57.1 U	2,330	33.7	65 U	67.1 U	58.4 U	59.9 U	133
Acetophenone	98-86-2	NC	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
Anthracene	120-12-7	100,000	100,000	57.1 U	4,810	130	65 U	67.1 U	58.4 U	59.9 U	89.3
Atrazine	1912-24-9	NC	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
Benzaldehyde	100-52-7	NC	NC	228 U	257 U	81.4	31.6	38.1	234 U	240 U	304 U
Benzidine	92-87-5	NC	NC	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
Benzo[a]anthracene	56-55-3	1,000	1,000	32.2	3,700	320	65 U	99.7	39	59.9 U	621
Benzo[a]pyrene	50-32-8	1,000	1,000	57.1 U	3,360	156	65 U	67.1 U	49.8	59.9 U	799
Benzo[b]fluoranthene	205-99-2	1,000	1,000	32.7	4,420	361	65 U	137	65.3	59.9 U	1,150
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	31.3	4,160	145	65 U	96.4	43.3	59.9 U	617
Benzo[k]fluoranthene	207-08-9	1,000	3,900	57.1 U	1,590	109	65 U	54.3	58.4 U	59.9 U	467
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	285 U	321 U	324 U	325 U	336 U	292 U	300 U	380 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
Caprolactam	105-60-2	NC	NC	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
Carbazole	86-74-8	NC	NC	114 U	128 U	42.5	130 U	134 U	117 U	120 U	138
Chrysene	218-01-9	1,000	3,900	56.9	4,380	508	65 U	137	32.9	59.9 U	956
Dibenzo[a,h]Anthracene	53-70-3	330	330	57.1 U	422	62.4	65 U	67.1 U	58.4 U	59.9 U	138
Dibenzofuran	132-64-9	14,000	59,000	114 U	128 U	45.4	130 U	134 U	117 U	120 U	76.5
Diethylphthalate	84-66-2	100,000[CP]	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	47.8
Dimethylphthalate	131-11-3	100,000[CP]	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
Fluoranthene	206-44-0	100,000	100,000	48.9	12,600	624	65 U	191	52.1	59.9 U	1,610
Fluorene	86-73-7	100,000	100,000	57.1 U	5,930	75	65 U	67.1 U	58.4 U	59.9 U	66.2
Hexachlorobenzene	118-74-1	330, 410[CP]	1,200	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
Hexachlorobutadiene	87-68-3	NC	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
Hexachloroethane	67-72-1	NC	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	27.7	3,550	121	65 U	77	41.8	59.9 U	705
Isophorone	78-59-1	100,000[CP]	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	228 U	257 U	260 U	26.7	119	234 U	240 U	58
Naphthalene	91-20-3	100,000	100,000	57.1 U	7,580	92.6	65 U	34.3	58.4 U	59.9 U	129
Nitrobenzene	98-95-3	3700[CP]	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	114 U	128 U	130 U	130 U	134 U	117 U	120 U	152 U
Pentachlorophenol	87-86-5	2,400	6,700	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
Phenanthrene	85-01-8	100,000	100,000	62.7	20,000	407	65 U	132	58.4 U	59.9 U	970
Phenol	108-95-2	100,000	100,000	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
Pyrene	129-00-0	100,000	100,000	61.1	20,000	353	65 U	262	50.4	59.9 U	1,250
Pyridine	110-86-1	NC	NC	228 U	257 U	260 U	260 U	269 U	234 U	240 U	304 U
Total SVOC TICs	NA	NC	NC	NT	44,901	7,084	355	1,890	NT	NT	8,646

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8B - Subsurface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-121	SB-122	SB-124	SB-125	SB-127	SB-129	SB-130	SB-131
			Sample ID	SB-121-2-2.5-031416	SB-122-7-8-022916	SB-124-8-9-031116	SB-125-5-7-031416	SB-127-10-11-031116	SB-129-4.6-6.6-031516	SB-130-4-4.5-042216	SB-131-8-10-031116
			Sample Date	3/14/2016	2/29/2016	3/11/2016	3/14/2016	3/11/2016	3/15/2016	4/22/2016	3/11/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2130903	2127346	2130903	2130903	2130903	2130900	2139069	2130903
			Start Depth	2	7	8	5	10	4.6	4	8
			End Depth	2.5	8	9	7	11	6.6	4.5	10
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]								
SVOCs											
1,1'-Biphenyl	92-52-4	NC	NC	242	118 U	123 U	121 U	128 U	27.9	250	114 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	126 U	118 U	123 U	121 U	128 U	117 U	131 U	114 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
2,4-Dimethylphenol	105-67-9	NC	NC	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	441 U	236 U	432 U	423 U	446 U	410 U	457 U	400 U
2,4-Dinitrotoluene	121-14-2	NC	NC	126 U	118 U	123 U	121 U	128 U	117 U	131 U	114 U
2,6-Dinitrotoluene	606-20-2	1,030[CP]	NC	126 U	118 U	123 U	121 U	128 U	117 U	131 U	114 U
2-Chloronaphthalene	91-58-7	NC	NC	126 U	118 U	123 U	121 U	128 U	117 U	131 U	114 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
2-Methylnaphthalene	91-57-6	*410*[CP]	NC	2,940	118 U	123 U	121 U	128 U	162	1,810	114 U
2-Methylphenol	95-48-7	100,000	100,000	57.7	236 U	247 U	242 U	255 U	234 U	188	229 U
2-Nitroaniline	88-74-4	NC	NC	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
2-Nitrophenol	88-75-5	NC	NC	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
3-Nitroaniline	99-09-2	NC	NC	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	126 U	118 U	123 U	121 U	128 U	117 U	131 U	114 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	126 U	118 U	123 U	121 U	128 U	117 U	131 U	114 U
4-Nitroaniline	100-01-6	NC	NC	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
4-Nitrophenol	100-02-7	NC	NC	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
Acenaphthene	83-32-9	100,000	100,000	62.9 U	58.9 U	61.7 U	60.4 U	63.8 U	58.6 U	126	57.2 U
Acenaphthylene	208-96-8	100,000	100,000	62.9 U	58.9 U	61.7 U	60.4 U	63.8 U	58.6 U	65.3 U	57.2 U
Acetophenone	98-86-2	NC	NC	461	118 U	123 U	121 U	128 U	135	131 U	114 U
Anthracene	120-12-7	100,000	100,000	109	58.9 U	61.7 U	60.4 U	63.8 U	74.5	206	57.2 U
Atrazine	1912-24-9	NC	NC	126 U	118 U	123 U	121 U	128 U	117 U	131 U	114 U
Benzaldehyde	100-52-7	NC	NC	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
Benzidine	92-87-5	NC	NC	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
Benzo[a]anthracene	56-55-3	1,000	1,000	415	12.4	61.7 U	60.4 U	63.8 U	44.8	716	57.2 U
Benzo[a]pyrene	50-32-8	1,000	1,000	270	7.5	61.7 U	60.4 U	63.8 U	58.6 U	426	57.2 U
Benzo[b]fluoranthene	205-99-2	1,000	1,000	487	9.3	61.7 U	60.4 U	63.8 U	49.6	556	57.2 U
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	148	10.9	61.7 U	60.4 R	63.8 U	58.6 U	316	57.2 U
Benzo[k]fluoranthene	207-08-9	1,000	3,900	62.9 U	7.5	61.7 U	60.4 U	63.8 U	58.6 U	178	57.2 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	126 U	118 U	123 U	121 U	128 U	117 U	131 U	114 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	126 U	118 U	123 U	121 U	128 U	117 U	131 U	114 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	126 U	118 U	123 U	121 U	128 U	117 U	131 U	114 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	315 U	118 U	165	302 U	319 U	293 U	327 U	286 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	126 U	12.9	123 U	121 U	128 U	117 U	131 U	114 U
Caprolactam	105-60-2	NC	NC	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
Carbazole	86-74-8	NC	NC	128	118 U	123 U	121 U	128 U	117 U	131 U	114 U
Chrysene	218-01-9	1,000	3,900	854	6.6	61.7 U	60.4 U	63.8 U	59.3	1,170	57.2 U
Dibenzo[a,h]Anthracene	53-70-3	330	330	83.9	9.7	61.7 U	60.4 U	63.8 U	58.6 U	191	57.2 U
Dibenzofuran	132-64-9	14,000	59,000	947	118 U	123 U	121 U	128 U	117 U	478	114 U
Diethylphthalate	84-66-2	100,000[CP]	NC	126 U	118 U	41	121 U	36.9	117 U	131 U	38
Dimethylphthalate	131-11-3	100,000[CP]	NC	126 U	118 U	123 U	121 U	128 U	117 U	131 U	114 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	126 U	118 U	123 U	121 U	128 U	117 U	131 U	114 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	126 U	10.3	123 U	121 U	128 U	117 U	131 U	114 U
Fluoranthene	206-44-0	100,000	100,000	543	58.9 U	61.7 U	60.4 U	63.8 U	227	730	57.2 U
Fluorene	86-73-7	100,000	100,000	144	58.9 U	61.7 U	60.4 U	63.8 U	228	363	57.2 U
Hexachlorobenzene	118-74-1	330, 410[CP]	1,200	126 U	118 U	123 U	121 U	128 U	117 U	131 U	114 U
Hexachlorobutadiene	87-68-3	NC	NC	126 U	118 U	123 U	121 U	128 U	117 U	131 U	114 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
Hexachloroethane	67-72-1	NC	NC	126 U	118 U	123 U	121 U	128 U	117 U	131 U	114 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	184	9	61.7 U	60.4 U	63.8 U	58.6 U	242	57.2 U
Isophorone	78-59-1	100,000[CP]	NC	126 U	118 U	123 U	121 U	128 U	117 U	131 U	114 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	75.6	236 U	247 U	242 U	255 U	234 U	795	229 U
Naphthalene	91-20-3	100,000	100,000	1,660	58.9 U	61.7 U	60.4 U	63.8 U	58.6 U	1170	57.2 U
Nitrobenzene	98-95-3	3700[CP]	NC	126 U	118 U	123 U	121 U	128 U	117 U	131 U	114 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	126 U	118 U	123 U	121 U	128 U	117 U	131 U	114 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	126 U	118 U	123 U	121 U	128 U	117 U	131 U	114 U
Pentachlorophenol	87-86-5	2,400	6,700	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
Phenanthrene	85-01-8	100,000	100,000	2210	58.9 U	42.4	60.4 U	63.8 U	629	1,410	57.2 U
Phenol	108-95-2	100,000	100,000	252 U	236 U	247 U	242 U	255 U	234 U	261 U	229 U
Pyrene	129-00-0	100,000	100,000	593	6.2	61.7 U	60.4 U	63.8 U	94	875	57.2 U
Pyridine	110-86-1	NC	NC	252 U	NA	247 U	242 U	255 U	234 U	261 U	229 U
Total SVOC TICs	NA	NC	NC	60,230	369	3,086	1,199	NT	38,375	46,690	4,418

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8B - Subsurface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-133	SB-134	SB-135	SB-136	SB-137	fill SB-138	SB-139	SB-141
			Sample ID	SB-133-4.5-5-041416	SB-134-10-11-031516	SB-135-8-9-041516	SB-136-5-7-031116	SB-137-6-8-031116	SB-138-4-4.8-030116	SB-139-8-9.7-030116	SB-141-7-8-030116
			Sample Date	4/14/2016	3/15/2016	4/15/2016	3/11/2016	3/11/2016	3/1/2016	3/1/2016	3/1/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2139069	2130900	2139069	2130903	2130903	2127346	2127346	2127346
			Start Depth	4.5	10	8	5	6	4	8	7
			End Depth	5	11	9	7	8	4.8	9.7	8
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]								
SVOCs											
1,1'-Biphenyl	92-52-4	NC	NC	151 U	119 U	84.5	119 U	124 U	115 U	118 U	119 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	151 U	119 U	143 U	119 U	124 U	115 U	118 U	119 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	302 U	238 R	285 U	237 U	248 U	231 U	236 U	237 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	302 U	238 R	285 U	237 U	248 U	231 U	236 U	237 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	302 U	238 R	285 U	237 U	248 U	231 U	236 U	237 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	302 U	238 U	285 U	237 U	248 U	231 U	236 U	237 U
2,4-Dimethylphenol	105-67-9	NC	NC	302 U	238 R	285 U	237 U	248 U	231 U	236 U	237 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	528 U	417 R	499 U	415 U	435 U	404 U	414 U	415 U
2,4-Dinitrotoluene	121-14-2	NC	NC	151 U	119 R	143 U	119 U	124 U	115 U	118 U	119 U
2,6-Dinitrotoluene	606-20-2	1,030[CP]	NC	151 U	119 U	143 U	119 U	124 U	115 U	118 U	119 U
2-Chloronaphthalene	91-58-7	NC	NC	151 U	119 U	143 U	119 U	124 U	115 U	118 U	119 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	302 U	238 R	285 U	237 U	248 U	231 U	236 U	237 U
2-Methylnaphthalene	91-57-6	*410*[CP]	NC	148	119 U	218	119 U	124 U	115 U	16.6	119 U
2-Methylphenol	95-48-7	100,000	100,000	302 U	238 R	285 U	237 U	248 U	231 U	236 U	237 U
2-Nitroaniline	88-74-4	NC	NC	302 U	238 U	285 U	237 U	248 U	231 U	236 U	237 U
2-Nitrophenol	88-75-5	NC	NC	302 U	238 R	285 U	237 U	248 U	231 U	236 U	237 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	302 U	238 U	285 U	237 U	248 U	231 U	236 U	237 U
3-Nitroaniline	99-09-2	NC	NC	302 U	238 U	285 U	237 U	248 U	231 U	236 U	237 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	302 U	238 R	285 U	237 U	248 U	231 U	236 U	237 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	151 U	119 U	143 U	119 U	124 U	115 U	118 U	119 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	302 U	238 R	285 U	237 U	248 U	231 U	236 U	237 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	302 U	238 U	285 U	237 U	248 U	231 U	236 U	237 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	151 U	119 U	143 U	119 U	124 U	115 U	118 U	119 U
4-Nitroaniline	100-01-6	NC	NC	302 U	238 U	285 U	237 U	248 U	231 U	236 U	237 U
4-Nitrophenol	100-02-7	NC	NC	302 U	238 R	285 U	237 U	248 U	231 U	236 U	237 U
Acenaphthene	83-32-9	100,000	100,000	75.5 U	59.6 U	33.3	59.3 U	62.1 U	38.6	55	59.3 U
Acenaphthylene	208-96-8	100,000	100,000	75.5 U	59.6 U	71.3 U	59.3 U	62.1 U	57.7 U	59.1 U	59.3 U
Acetophenone	98-86-2	NC	NC	199 U	119 U	205 U	119 U	124 U	115 U	118 U	119 U
Anthracene	120-12-7	100,000	100,000	99.3	59.6 U	63.4	59.3 U	62.1 U	70	140	59.3 U
Atrazine	1912-24-9	NC	NC	151 U	119 U	143 U	119 U	124 U	115 U	118 U	119 U
Benzaldehyde	100-52-7	NC	NC	86.1	238 U	285 U	237 U	248 U	231 U	236 U	237 U
Benzidine	92-87-5	NC	NC	302 U	238 U	285 U	237 U	248 U	231 U	236 U	237 U
Benzo[a]anthracene	56-55-3	1,000	1,000	214	59.6 U	75.2	59.3 U	62.1 U	161	243	59.3 U
Benzo[a]pyrene	50-32-8	1,000	1,000	257	59.6 U	82.9	59.3 U	62.1 U	149	198	59.3 U
Benzo[b]fluoranthene	205-99-2	1,000	1,000	347	59.6 U	122	59.3 U	62.1 U	178	247	59.3 U
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	222	59.6 U	75.9	59.3 U	62.1 U	103	108	59.3 U
Benzo[k]fluoranthene	207-08-9	1,000	3,900	123	59.6 U	41.8	59.3 U	62.1 U	73.8	96.2	59.3 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	151 U	119 U	143 U	119 U	124 U	115 U	118 U	119 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	151 U	119 U	143 U	119 U	124 U	115 U	118 U	119 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	151 U	119 U	143 U	119 U	124 U	115 U	118 U	119 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	377 U	298 U	356 U	297 U	310 U	288 U	295 U	297 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	151 U	119 U	143 U	119 U	124 U	115 U	118 U	119 U
Caprolactam	105-60-2	NC	NC	302 U	238 U	285 U	237 U	248 U	231 U	236 U	237 U
Carbazole	86-74-8	NC	NC	151 U	119 U	143 U	119 U	124 U	33.3	46.8	119 U
Chrysene	218-01-9	1,000	3,900	426	59.6 U	185	59.3 U	62.1 U	175	245	59.3 U
Dibenzo[a,h]Anthracene	53-70-3	330	330	76.8	59.6 U	71.3 U	59.3 U	62.1 U	27.8	33.5	59.3 U
Dibenzofuran	132-64-9	14,000	59,000	151 U	119 U	143 U	119 U	124 U	115 U	31.5	119 U
Diethylphthalate	84-66-2	100,000[CP]	NC	151 U	33.7	143 U	30.5	124 U	115 U	118 U	119 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	151 U	119 U	143 U	119 U	124 U	115 U	118 U	119 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	151 U	119 U	143 U	119 U	124 U	115 U	118 U	119 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	151 U	119 U	143 U	119 U	124 U	115 U	118 U	119 U
Fluoranthene	206-44-0	100,000	100,000	635	59.6 U	203	59.3 U	62.1 U	334	561	59.3 U
Fluorene	86-73-7	100,000	100,000	88.1	59.6 U	115	59.3 U	62.1 U	47.8	66.9	59.3 U
Hexachlorobenzene	118-74-1	330, 410[CP]	1,200	151 U	119 U	143 U	119 U	124 U	115 U	118 U	119 U
Hexachlorobutadiene	87-68-3	NC	NC	151 U	119 U	143 U	119 U	124 U	115 U	118 U	119 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	302 U	238 U	285 U	237 U	248 U	231 U	236 U	237 U
Hexachloroethane	67-72-1	NC	NC	151 U	119 U	143 U	119 U	124 U	115 U	118 U	119 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	190	59.6 U	60.6	59.3 U	62.1 U	103	133	59.3 U
Isophorone	78-59-1	100,000[CP]	NC	151 U	119 U	143 U	119 U	124 U	115 U	118 U	119 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	185	238 U	287	237 U	248 U	231 U	236 U	237 U
Naphthalene	91-20-3	100,000	100,000	143	59.6 U	127	59.3 U	62.1 U	57.7 U	39.5	59.3 U
Nitrobenzene	98-95-3	3700[CP]	NC	151 U	119 U	143 U	119 U	124 U	115 U	118 U	119 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	151 U	119 U	143 U	119 U	124 U	115 U	118 U	119 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	151 U	119 U	143 U	119 U	124 U	115 U	118 U	119 U
Pentachlorophenol	87-86-5	2,400	6,700	302 U	238 R	285 U	237 U	248 U	231 U	236 U	237 U
Phenanthrene	85-01-8	100,000	100,000	463	59.6 U	351	60.2	89.3	323	493	74.1
Phenol	108-95-2	100,000	100,000	302 U	238 R	285 U	237 U	248 U	231 U	236 U	237 U
Pyrene	129-00-0	100,000	100,000	548	59.6 U	196	41.3	62.1 U	272	424	59.3 U
Pyridine	110-86-1	NC	NC	302 U	238 U	285 U	237 U	248 U	231 U	236 U	237 U
Total SVOC TICs	NA	NC	NC	70,480	437	80,400	4,736	11,347	31,450	NT	75,150

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8B - Subsurface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-142	BB/Fill SB-143[BB]	SB-144	SB-145	SB-146	SB-147	SB-148
			Sample ID	SB-142-11-12-030116	SB-143-3-4-030116	SB-144-1-1.8-030116	SB-145-25.4-26.1-030916	SB-146-6-8-030216	SB-147-10-11.4-042216	SB-148-8-9.2-040616
			Sample Date	3/1/2016	3/1/2016	3/1/2016	3/9/2016	3/2/2016	4/22/2016	4/7/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2127346	2127346	2127346	2130254	2127346	2139069	2136537
			Start Depth	11	3	1	25.4	6	10	8
			End Depth	12	4	1.8	26.1	8	11	9.2
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]							
SVOCs										
1,1'-Biphenyl	92-52-4	NC	NC	121 U	408 U	118 U	123 U	120 U	139 U	155
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	121 U	408 U	118 U	123 U	120 U	139 U	127 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	241 U	816 U	237 U	247 U	240 U	279 U	255 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	241 U	816 U	237 U	247 U	240 U	279 U	255 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	241 U	816 U	237 U	247 U	240 U	279 U	255 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	241 U	816 U	237 U	247 U	240 U	279 U	255 U
2,4-Dimethylphenol	105-67-9	NC	NC	241 U	816 U	237 U	247 U	240 U	279 U	255 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	422 U	1,430 U	414 U	432 U	421 U	488 U	446 U
2,4-Dinitrotoluene	121-14-2	NC	NC	121 U	408 U	118 U	123 U	120 U	139 U	127 U
2,6-Dinitrotoluene	606-20-2	1,030[CP]	NC	121 U	408 U	118 U	123 U	120 U	139 U	127 U
2-Chloronaphthalene	91-58-7	NC	NC	121 U	408 U	118 U	123 U	120 U	139 U	127 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	241 U	816 U	237 U	247 U	240 U	279 U	255 U
2-Methylnaphthalene	91-57-6	*410*[CP]	NC	121 U	408 U	30.3	123 U	120 U	139 U	525
2-Methylphenol	95-48-7	100,000	100,000	241 U	816 U	237 U	247 U	240 U	279 U	255 U
2-Nitroaniline	88-74-4	NC	NC	241 U	816 U	237 U	247 U	240 U	279 U	255 U
2-Nitrophenol	88-75-5	NC	NC	241 U	816 U	237 U	247 U	240 U	279 U	255 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	241 U	816 U	237 U	247 U	240 U	279 U	255 U
3-Nitroaniline	99-09-2	NC	NC	241 U	816 U	237 U	247 U	240 U	279 U	255 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	241 U	816 U	237 U	247 U	240 U	279 U	255 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	121 U	408 U	118 U	123 U	120 U	139 U	127 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	241 U	816 U	237 U	247 U	240 U	279 U	255 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	241 U	816 U	237 U	247 U	240 U	279 U	255 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	121 U	408 U	118 U	123 U	120 U	139 U	127 U
4-Nitroaniline	100-01-6	NC	NC	241 U	816 U	237 U	247 U	240 U	279 U	255 U
4-Nitrophenol	100-02-7	NC	NC	241 U	816 U	237 U	247 U	240 U	279 U	255 U
Acenaphthene	83-32-9	100,000	100,000	60.3 U	204 U	48.2	61.7 U	60.1 U	69.7 U	1030
Acenaphthylene	208-96-8	100,000	100,000	60.3 U	204 U	33.1	61.7 U	60.1 U	69.7 U	560
Acetophenone	98-86-2	NC	NC	121 U	408 U	181	123 U	120 U	139 U	131
Anthracene	120-12-7	100,000	100,000	60.3 U	204 U	270	61.7 U	60.1 U	69.7 U	3360
Atrazine	1912-24-9	NC	NC	121 U	408 U	118 U	123 U	120 U	139 U	127 U
Benzaldehyde	100-52-7	NC	NC	241 U	816 U	35.5	247 U	240 U	279 U	255 U
Benzidine	92-87-5	NC	NC	241 U	816 U	237 U	247 U	240 U	279 U	255 U
Benzo[a]anthracene	56-55-3	1,000	1,000	60.3 U	413	1,060	61.7 U	60.1 U	69.7 U	5,870
Benzo[a]pyrene	50-32-8	1,000	1,000	60.3 U	324	910	61.7 U	60.1 U	69.7 U	5,120
Benzo[b]fluoranthene	205-99-2	1,000	1,000	60.3 U	261	1,240	61.7 U	60.1 U	69.7 U	5,990
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	60.3 U	554	620	61.7 U	60.1 U	69.7 U	3,230
Benzo[k]fluoranthene	207-08-9	1,000	3,900	60.3 U	204 U	452	61.7 U	60.1 U	69.7 U	2,260
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	121 U	408 U	118 U	123 U	120 U	139 U	127 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	121 U	408 U	118 U	123 U	120 U	139 U	127 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	121 U	408 U	118 U	123 U	120 U	139 U	127 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	302 U	1,020 U	296 U	309 U	301 U	348 U	221
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	121 U	408 U	26.4	123 U	120 U	139 U	80
Caprolactam	105-60-2	NC	NC	241 U	816 U	237 U	247 U	240 U	279 U	255 U
Carbazole	86-74-8	NC	NC	121 U	408 U	147	123 U	120 U	139 U	1,000
Chrysene	218-01-9	1,000	3,900	60.3 U	935	1,170	61.7 U	60.1 U	69.7 U	5,840
Dibenzo[a,h]Anthracene	53-70-3	330	330	60.3 U	375	171	61.7 U	60.1 U	69.7 U	810
Dibenzofuran	132-64-9	14,000	59,000	121 U	408 U	50.6	123 U	120 U	139 U	959
Diethylphthalate	84-66-2	100,000[CP]	NC	121 U	408 U	118 U	123 U	120 U	139 U	127 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	121 U	408 U	118 U	123 U	120 U	139 U	127 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	121 U	408 U	118 U	123 U	120 U	139 U	127 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	121 U	408 U	118 U	123 U	120 U	139 U	127 U
Fluoranthene	206-44-0	100,000	100,000	60.3 U	204 U	1970	61.7 U	60.1 U	69.7 U	13,900
Fluorene	86-73-7	100,000	100,000	60.3 U	204 U	66.8	61.7 U	60.1 U	69.7 U	1,780
Hexachlorobenzene	118-74-1	330, 410[CP]	1,200	121 U	408 U	118 U	123 U	120 U	139 U	127 U
Hexachlorobutadiene	87-68-3	NC	NC	121 U	408 U	118 U	123 U	120 U	139 U	127 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	241 U	816 U	237 U	247 U	240 U	279 U	255 U
Hexachloroethane	67-72-1	NC	NC	121 U	408 U	118 U	123 U	120 U	139 U	127 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	60.3 U	192	624	61.7 U	60.1 U	69.7 U	3,530
Isophorone	78-59-1	100,000[CP]	NC	121 U	408 U	118 U	123 U	120 U	139 U	127 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	241 U	816 U	237 U	247 U	240 U	279 U	64.9
Naphthalene	91-20-3	100,000	100,000	60.3 U	204 U	44.2	61.7 U	60.1 U	69.7 U	1410
Nitrobenzene	98-95-3	3700[CP]	NC	121 U	408 U	118 U	123 U	120 U	139 U	127 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	121 U	408 U	118 U	123 U	120 U	139 U	127 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	121 U	408 U	118 U	123 U	120 U	139 U	127 U
Pentachlorophenol	87-86-5	2,400	6,700	241 U	816 U	237 U	247 U	240 U	279 U	255 U
Phenanthrene	85-01-8	100,000	100,000	60.3 U	391	1180	61.7 U	60.1 U	69.7 U	13,800
Phenol	108-95-2	100,000	100,000	241 U	816 U	237 U	247 U	240 U	279 U	255 U
Pyrene	129-00-0	100,000	100,000	60.3 U	89.3	1690	61.7 U	60.1 U	69.7 U	10,800
Pyridine	110-86-1	NC	NC	241 U	816 U	237 U	247 U	240 U	279 U	255 U
Total SVOC TICs	NA	NC	NC	14,724	53,090	702	5,116	NT	6,216	30,040

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8B - Subsurface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-149	bb/fill SB-149[BB]	fill SB-150	SB-152	SB-154	SB-155	SB-156	SB-157
			Sample ID	SB-149-10-11-040616	SB-149-4-5-040616	SB-150-3-4-022916	SB-152-6-7-030316	SB-154-15-17-030316	SB-155-2-3-031016	SB-156-16-17-030916	SB-157-20.5-21.5-030916
			Sample Date	4/6/2016	4/6/2016	2/29/2016	3/3/2016	3/3/2016	3/10/2016	3/9/2016	3/9/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2136537	2136537	2127346	2129473	2129473	2130254	2130254	2130254
			Start Depth	10	4	3	6	15	2	16	20.5
			End Depth	11	5	4	7	17	3	17	21.5
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]								
SVOCs											
1,1'-Biphenyl	92-52-4	NC	NC	119 U	179 U	77.9	119 U	127 U	124 U	105 U	120 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	238 U	358 U	250 U	238 U	255 U	249 U	210 U	240 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	238 U	358 U	250 U	238 U	255 U	249 U	210 U	240 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	238 U	358 U	250 U	238 U	255 U	249 U	210 U	240 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	238 U	358 U	250 U	238 U	255 U	249 U	210 U	240 U
2,4-Dimethylphenol	105-67-9	NC	NC	238 U	358 U	35.6	238 U	255 U	249 U	210 U	240 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	417 U	626 U	250 U	417 U	446 U	435 U	368 U	421 U
2,4-Dinitrotoluene	121-14-2	NC	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
2,6-Dinitrotoluene	606-20-2	1,030[CP]	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
2-Chloronaphthalene	91-58-7	NC	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	238 U	358 U	250 U	238 U	255 U	249 U	210 U	240 U
2-Methylnaphthalene	91-57-6	*410*[CP]	NC	119 U	68	314	119 U	127 U	124 U	105 U	120 U
2-Methylphenol	95-48-7	100,000	100,000	238 U	358 U	42.5	238 U	255 U	249 U	210 U	240 U
2-Nitroaniline	88-74-4	NC	NC	238 U	358 U	250 U	238 U	255 U	249 U	210 U	240 U
2-Nitrophenol	88-75-5	NC	NC	238 U	358 U	250 U	238 U	255 U	249 U	210 U	240 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	238 U	358 U	250 U	238 U	255 U	249 U	210 U	240 U
3-Nitroaniline	99-09-2	NC	NC	238 U	358 U	250 U	238 U	255 U	249 U	210 U	240 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	238 U	358 U	250 U	238 U	255 U	249 U	210 U	240 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	238 U	358 U	250 U	238 U	255 U	249 U	210 U	240 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	238 U	358 U	250 U	238 U	255 U	249 U	210 U	240 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
4-Nitroaniline	100-01-6	NC	NC	238 U	358 U	250 U	238 U	255 U	249 U	210 U	240 U
4-Nitrophenol	100-02-7	NC	NC	238 U	358 U	250 U	238 U	255 U	249 U	210 U	240 U
Acenaphthene	83-32-9	100,000	100,000	59.6 U	89.4 U	415	59.6 U	63.6 U	62.2 U	52.6 U	60.1 U
Acenaphthylene	208-96-8	100,000	100,000	59.6 U	89.4 U	765	59.6 U	63.6 U	62.2 U	52.6 U	60.1 U
Acetophenone	98-86-2	NC	NC	119 U	179 U	52.6	119 U	127 U	124 U	105 U	120 U
Anthracene	120-12-7	100,000	100,000	59.6 U	89.4 U	1960	41.4	63.6 U	62.2 U	52.6 U	60.1 U
Atrazine	1912-24-9	NC	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
Benzaldehyde	100-52-7	NC	NC	238 U	48.6	103	238 U	255 U	249 U	210 U	240 U
Benzidine	92-87-5	NC	NC	238 U	358 U	250 U	238 U	255 U	249 U	210 U	240 U
Benzo[a]anthracene	56-55-3	1,000	1,000	59.6 U	101	5,950	120	63.6 U	62.2 U	52.6 U	60.1 U
Benzo[a]pyrene	50-32-8	1,000	1,000	59.6 U	89.4 U	6,500	111	63.6 U	62.2 U	52.6 U	60.1 U
Benzo[b]fluoranthene	205-99-2	1,000	1,000	59.6 U	47.8	8,680	146	63.6 U	62.2 U	52.6 U	60.1 U
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	59.6 U	46.7	4,310	101	63.6 U	62.2 U	52.6 U	60.1 U
Benzo[k]fluoranthene	207-08-9	1,000	3,900	59.6 U	89.4 U	3,030	54.1	63.6 U	62.2 U	52.6 U	60.1 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	298 U	447 U	57.4	298 U	318 U	311 U	263 U	300 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
Caprolactam	105-60-2	NC	NC	238 U	358 U	250 U	238 U	255 U	249 U	210 U	240 U
Carbazole	86-74-8	NC	NC	119 U	179 U	516	30.5	127 U	124 U	105 U	120 U
Chrysene	218-01-9	1,000	3,900	59.6 U	195	6,200	135	63.6 U	62.2 U	52.6 U	60.1 U
Dibenzo[a,h]Anthracene	53-70-3	330	330	59.6 U	48.2	NA	59.6 U	63.6 U	62.2 U	52.6 U	60.1 U
Dibenzofuran	132-64-9	14,000	59,000	119 U	179 U	552	25.6	127 U	124 U	105 U	120 U
Diethylphthalate	84-66-2	100,000[CP]	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
Fluoranthene	206-44-0	100,000	100,000	59.6 U	89.4 U	8,550	199	63.6 U	62.2 U	52.6 U	60.1 U
Fluorene	86-73-7	100,000	100,000	59.6 U	89.4 U	538	27.6	63.6 U	62.2 U	52.6 U	60.1 U
Hexachlorobenzene	118-74-1	330, 410[CP]	1,200	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
Hexachlorobutadiene	87-68-3	NC	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	238 U	358 U	250 U	238 U	255 U	249 U	210 U	240 U
Hexachloroethane	67-72-1	NC	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	59.6 U	89.4 U	4,800	78.8	63.6 U	62.2 U	52.6 U	60.1 U
Isophorone	78-59-1	100,000[CP]	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	238 U	358 U	115	238 U	255 U	249 U	210 U	240 U
Naphthalene	91-20-3	100,000	100,000	59.6 U	38.3	485	31	63.6 U	62.2 U	52.6 U	60.1 U
Nitrobenzene	98-95-3	3700[CP]	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	119 U	179 U	125 U	119 U	127 U	124 U	105 U	120 U
Pentachlorophenol	87-86-5	2,400	6,700	238 U	358 U	250 U	238 U	255 U	249 U	210 U	240 U
Phenanthrene	85-01-8	100,000	100,000	35.7	330	5,650	163	63.6 U	62.2 U	52.6 U	60.1 U
Phenol	108-95-2	100,000	100,000	238 U	358 U	85.5	238 U	255 U	249 U	210 U	240 U
Pyrene	129-00-0	100,000	100,000	59.6 U	39.5	8,470	183	63.6 U	62.2 U	52.6 U	60.1 U
Pyridine	110-86-1	NC	NC	238 U	358 U	NA	238 U	255 U	249 U	210 U	240 U
Total SVOC TICs	NA	NC	NC	11516	4435	30,494	851	14,554	1,352	NT	NT

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51

Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8B - Subsurface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-158	SB-159	fill SB-160	SB-161	SB-162	SB-163	SB-164
			Sample ID	SB-158-16-17.5-030816	SB-159-17-18-030916	SB-160-4-5-030916	SB-161-24-26-030816	SB-162-19-20-030816	SB-163-13.5-16-030816	SB-164-4-5.9-030716
			Sample Date	3/8/2016	3/9/2016	3/9/2016	3/8/2016	3/8/2016	3/8/2016	3/7/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2130254	2130254	2130254	2130254	2130254	2130254	2129473
			Start Depth	16	17	4	24	19	13.5	4
			End Depth	17.5	18	5	26	20	16	5.9
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]							
SVOCs										
1,1'-Biphenyl	92-52-4	NC	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
2,4-Dimethylphenol	105-67-9	NC	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	376 U	438 U	386 U	393 U	424 U	411 U	374 U
2,4-Dinitrotoluene	121-14-2	NC	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
2,6-Dinitrotoluene	606-20-2	1,030[CP]	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
2-Chloronaphthalene	91-58-7	NC	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
2-Methylnaphthalene	91-57-6	*410*[CP]	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
2-Methylphenol	95-48-7	100,000	100,000	215 U	250 U	220 U	224 U	242 U	235 U	214 U
2-Nitroaniline	88-74-4	NC	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
2-Nitrophenol	88-75-5	NC	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
3-Nitroaniline	99-09-2	NC	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
4-Nitroaniline	100-01-6	NC	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
4-Nitrophenol	100-02-7	NC	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
Acenaphthene	83-32-9	100,000	100,000	53.8 U	62.6 U	55.1 U	56.1 U	60.6 U	58.7 U	53.5 U
Acenaphthylene	208-96-8	100,000	100,000	53.8 U	62.6 U	55.1 U	56.1 U	60.6 U	58.7 U	53.5 U
Acetophenone	98-86-2	NC	NC	108 U	125 U	110 U	112 U	142	117 U	107 U
Anthracene	120-12-7	100,000	100,000	53.8 U	62.6 U	55.1 U	56.1 U	60.6 U	58.7 U	53.5 U
Atrazine	1912-24-9	NC	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
Benzaldehyde	100-52-7	NC	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
Benzidine	92-87-5	NC	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
Benzo[a]anthracene	56-55-3	1,000	1,000	53.8 U	62.6 U	21.5	56.1 U	60.6 U	58.7 U	53.5 U
Benzo[a]pyrene	50-32-8	1,000	1,000	53.8 U	62.6 U	55.1 U	56.1 U	60.6 U	58.7 U	53.5 U
Benzo[b]fluoranthene	205-99-2	1,000	1,000	53.8 U	62.6 U	33.7	56.1 U	60.6 U	58.7 U	53.5 U
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	53.8 U	62.6 U	55.1 U	56.1 U	60.6 U	58.7 U	53.5 U
Benzo[k]fluoranthene	207-08-9	1,000	3,900	53.8 U	62.6 U	55.1 U	56.1 U	60.6 U	58.7 U	53.5 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	269 U	313 U	276 U	280 U	303 U	293 U	267 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
Caprolactam	105-60-2	NC	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
Carbazole	86-74-8	NC	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
Chrysene	218-01-9	1,000	3,900	53.8 U	62.6 U	55.1 U	56.1 U	60.6 U	58.7 U	53.5 U
Dibenzo[a,h]Anthracene	53-70-3	330	330	53.8 U	62.6 U	55.1 U	56.1 U	60.6 U	58.7 U	53.5 U
Dibenzofuran	132-64-9	14,000	59,000	108 U	125 U	110 U	112 U	121 U	117 U	107 U
Diethylphthalate	84-66-2	100,000[CP]	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
Fluoranthene	206-44-0	100,000	100,000	53.8 U	62.6 U	30.4	56.1 U	60.6 U	58.7 U	53.5 U
Fluorene	86-73-7	100,000	100,000	53.8 U	62.6 U	55.1 U	56.1 U	60.6 U	58.7 U	53.5 U
Hexachlorobenzene	118-74-1	330, 410[CP]	1,200	108 U	125 U	110 U	112 U	121 U	117 U	107 U
Hexachlorobutadiene	87-68-3	NC	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
Hexachloroethane	67-72-1	NC	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	53.8 U	62.6 U	55.1 U	56.1 U	60.6 U	58.7 U	53.5 U
Isophorone	78-59-1	100,000[CP]	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
Naphthalene	91-20-3	100,000	100,000	53.8 U	62.6 U	55.1 U	56.1 U	60.6 U	58.7 U	24.2
Nitrobenzene	98-95-3	3700[CP]	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	108 U	125 U	110 U	112 U	121 U	117 U	107 U
Pentachlorophenol	87-86-5	2,400	6,700	215 U	250 U	220 U	224 U	242 U	235 U	214 U
Phenanthrene	85-01-8	100,000	100,000	53.8 U	62.6 U	55.1 U	56.1 U	60.6 U	58.7 U	53.5 U
Phenol	108-95-2	100,000	100,000	215 U	250 U	220 U	224 U	242 U	235 U	214 U
Pyrene	129-00-0	100,000	100,000	53.8 U	62.6 U	24.9	56.1 U	60.6 U	58.7 U	53.5 U
Pyridine	110-86-1	NC	NC	215 U	250 U	220 U	224 U	242 U	235 U	214 U
Total SVOC TICs	NA	NC	NC	NT	407	NT	NT	10,841	NT	289

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8B - Subsurface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-165	SB-166	SB-167	SB-168	SB-169	SB-170	SB-172
			Sample ID	SB-165-22-23-030716	SB-166-13-15-030816	SB-167-18-19-030716	SB-168-16-17-030816	SB-169-16-17-030716	SB-170-16-16.8-022916	SB-172-8.8-9.6-082217
			Sample Date	3/7/2016	3/8/2016	3/7/2016	3/8/2016	3/7/2016	2/29/2016	8/22/2017
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2129473	2130254	2129473	2130254	2129473	2127346	2258101
			Start Depth	22	13	18	16	16	16	8.8
			End Depth	23	15	19	17	17	16.8	9.6
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]							
SVOCs										
1,1'-Biphenyl	92-52-4	NC	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	257 U	231 U	232 U	241 U	230 U	254 U	224 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	257 U	231 U	232 U	241 U	230 U	254 U	224 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	257 U	231 U	232 U	241 U	230 U	254 U	224 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	257 U	231 U	232 U	241 U	230 U	254 U	224 U
2,4-Dimethylphenol	105-67-9	NC	NC	257 U	231 U	232 U	241 U	230 U	254 U	224 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	450 U	404 U	406 U	422 U	403 U	444 U	224 U
2,4-Dinitrotoluene	121-14-2	NC	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
2,6-Dinitrotoluene	606-20-2	1,030[CP]	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
2-Chloronaphthalene	91-58-7	NC	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	257 U	231 U	232 U	241 U	230 U	254 U	224 U
2-Methylnaphthalene	91-57-6	*410* [CP]	NC	129 U	116 U	116 U	121 U	1,200	127 U	112 U
2-Methylphenol	95-48-7	100,000	100,000	257 U	231 U	232 U	241 U	230 U	254 U	224 U
2-Nitroaniline	88-74-4	NC	NC	257 U	231 U	232 U	241 U	230 U	254 U	224 U
2-Nitrophenol	88-75-5	NC	NC	257 U	231 U	232 U	241 U	230 U	254 U	224 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	257 U	231 U	232 U	241 U	230 U	254 U	224 U
3-Nitroaniline	99-09-2	NC	NC	257 U	231 U	232 U	241 U	230 U	254 U	224 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	257 U	231 U	232 U	241 U	230 U	254 U	224 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	257 U	231 U	232 U	241 U	230 U	254 U	224 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	257 U	231 U	232 U	241 U	230 U	254 U	224 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
4-Nitroaniline	100-01-6	NC	NC	257 U	231 U	232 U	241 U	230 U	254 U	224 U
4-Nitrophenol	100-02-7	NC	NC	257 U	231 U	232 U	241 U	230 U	254 U	224 U
Acenaphthene	83-32-9	100,000	100,000	64.3 U	57.8 U	58 U	60.3 U	57.6 U	63.4 U	56 U
Acenaphthylene	208-96-8	100,000	100,000	64.3 U	57.8 U	58 U	60.3 U	57.6 U	63.4 U	56 U
Acetophenone	98-86-2	NC	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
Anthracene	120-12-7	100,000	100,000	64.3 U	57.8 U	58 U	60.3 U	37.6	63.4 U	56 U
Atrazine	1912-24-9	NC	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
Benzaldehyde	100-52-7	NC	NC	257 U	231 U	232 U	241 U	230 U	254 U	224 U
Benzidine	92-87-5	NC	NC	257 U	231 U	232 U	241 U	230 U	254 U	224 U
Benzo[a]anthracene	56-55-3	1,000	1,000	64.3 U	57.8 U	58 U	60.3 U	57.6 U	63.4 U	56 U
Benzo[a]pyrene	50-32-8	1,000	1,000	64.3 U	57.8 U	58 U	60.3 U	57.6 U	63.4 U	56 U
Benzo[b]fluoranthene	205-99-2	1,000	1,000	64.3 U	57.8 U	58 U	60.3 U	57.6 U	63.4 U	56 U
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	64.3 U	57.8 U	58 U	60.3 U	57.6 U	63.4 U	56 U
Benzo[k]fluoranthene	207-08-9	1,000	3,900	64.3 U	57.8 U	58 U	60.3 U	57.6 U	63.4 U	56 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	322 U	289 U	290 U	302 U	288 U	317 U	112 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
Caprolactam	105-60-2	NC	NC	257 U	231 U	232 U	241 U	230 U	254 U	224 U
Carbazole	86-74-8	NC	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
Chrysene	218-01-9	1,000	3,900	64.3 U	57.8 U	58 U	60.3 U	36.3	63.4 U	56 U
Dibenzo[a,h]Anthracene	53-70-3	330	330	64.3 U	57.8 U	58 U	60.3 U	57.6 U	63.4 U	56 U
Dibenzofuran	132-64-9	14,000	59,000	129 U	116 U	116 U	121 U	115 U	127 U	112 U
Diethylphthalate	84-66-2	100,000[CP]	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
Fluoranthene	206-44-0	100,000	100,000	64.3 U	57.8 U	58 U	60.3 U	57.6 U	63.4 U	56 U
Fluorene	86-73-7	100,000	100,000	64.3 U	57.8 U	58 U	60.3 U	90.8	63.4 U	56 U
Hexachlorobenzene	118-74-1	330, 410[CP]	1,200	129 U	116 U	116 U	121 U	115 U	127 U	112 U
Hexachlorobutadiene	87-68-3	NC	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	257 U	231 U	232 U	241 U	230 U	254 U	224 U
Hexachloroethane	67-72-1	NC	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	64.3 U	57.8 U	58 U	60.3 U	57.6 U	63.4 U	56 U
Isophorone	78-59-1	100,000[CP]	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	257 U	231 U	232 U	241 U	230 U	254 U	224 U
Naphthalene	91-20-3	100,000	100,000	64.3 U	57.8 U	58 U	60.3 U	390	63.4 U	56 U
Nitrobenzene	98-95-3	3700[CP]	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	129 U	116 U	116 U	121 U	115 U	127 U	112 U
Pentachlorophenol	87-86-5	2,400	6,700	257 U	231 U	232 U	241 U	230 U	254 U	224 U
Phenanthrene	85-01-8	100,000	100,000	64.3 U	57.8 U	23.5	60.3 U	203	63.4 U	56 U
Phenol	108-95-2	100,000	100,000	75.4	231 U	232 U	241 U	230 U	254 U	224 U
Pyrene	129-00-0	100,000	100,000	64.3 U	57.8 U	58 U	60.3 U	53.9	63.4 U	56 U
Pyridine	110-86-1	NC	NC	257 U	231 U	232 U	241 U	230 U	NA	224 U
Total SVOC TICs	NA	NC	NC	1,568	NT	18,103	NT	148,090	NT	NT

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51

Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8B - Subsurface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-173	SB-174	SB-175	SB-176	SB-177	SB-178	fill
			Sample ID	SB-173-12-15-082117	SB-174-12.5-15-082117	SB-175-21-21.4-030716	SB-176-6-7-041216	SB-177-5.5-6.5-031416	SB-178-1.5-2-031416	SB-TP-131-5-7-031516
			Sample Date	8/21/2017	8/21/2017	3/7/2016	4/12/2016	3/14/2016	3/14/2016	3/15/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2258101	2258101	2129473	2136537	2130903	2130903	2130900
			Start Depth	12	12.5	21	6	5.5	1.5	5
			End Depth	15	15	21.4	7	6.5	2	7
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]							
SVOCs										
1,1'-Biphenyl	92-52-4	NC	NC	113 U	127 U	110 U	125 U	122 U	118 U	63.1
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	227 U	255 U	220 U	250 U	244 U	235 U	261 R
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	227 U	255 U	220 U	250 U	244 U	235 U	261 R
2,4,6-Trichlorophenol	88-06-2	NC	NC	227 U	255 U	220 U	250 U	244 U	235 U	261 R
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	227 UJ	255 U	220 U	250 U	244 U	235 U	261 U
2,4-Dimethylphenol	105-67-9	NC	NC	227 U	255 U	220 U	250 U	244 U	235 U	261 R
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	227 U	255 U	385 U	437 U	426 U	412 U	456 R
2,4-Dinitrotoluene	121-14-2	NC	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
2,6-Dinitrotoluene	606-20-2	1,030[CP]	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
2-Chloronaphthalene	91-58-7	NC	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	227 U	255 U	220 U	250 U	244 U	235 U	261 R
2-Methylnaphthalene	91-57-6	*410*[CP]	NC	113 U	127 U	110 U	125 U	122 U	118 U	45.8
2-Methylphenol	95-48-7	100,000	100,000	227 U	255 U	220 U	250 U	244 U	235 U	261 R
2-Nitroaniline	88-74-4	NC	NC	227 U	255 U	220 U	250 U	244 U	235 U	261 U
2-Nitrophenol	88-75-5	NC	NC	227 U	255 U	220 U	250 U	244 U	235 U	261 R
3,3-Dichlorobenzidine	91-94-1	NC	NC	227 U	255 U	220 U	250 U	244 U	235 U	261 U
3-Nitroaniline	99-09-2	NC	NC	227 U	255 U	220 U	250 U	244 U	235 U	261 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	227 UJ	255 U	220 U	250 U	244 U	235 U	261 R
4-Bromophenyl-phenylether	101-55-3	NC	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	227 U	255 U	220 U	250 U	244 U	235 U	261 R
4-Chloroaniline	106-47-8	100,000[CP]	NC	227 U	255 U	220 U	250 U	244 U	235 U	261 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
4-Nitroaniline	100-01-6	NC	NC	227 U	255 U	220 U	250 U	244 U	235 U	261 U
4-Nitrophenol	100-02-7	NC	NC	227 U	255 U	220 U	250 U	244 U	235 U	261 R
Acenaphthene	83-32-9	100,000	100,000	56.7 U	63.7 U	55 U	104	60.9 U	58.9 U	65.2 U
Acenaphthylene	208-96-8	100,000	100,000	56.7 U	63.7 U	55 U	62.5 U	60.9 U	58.9 U	118
Acetophenone	98-86-2	NC	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
Anthracene	120-12-7	100,000	100,000	56.7 U	63.7 U	55 U	62.5 U	60.9 U	58.9 U	65.2 U
Atrazine	1912-24-9	NC	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
Benzaldehyde	100-52-7	NC	NC	227 U	255 U	220 U	250 U	244 U	235 U	261 U
Benzidine	92-87-5	NC	NC	227 U	255 U	220 U	250 U	244 U	235 U	261 U
Benzo[a]anthracene	56-55-3	1,000	1,000	56.7 U	63.7 U	55 U	63.6	60.9 U	58.9 U	65.2 U
Benzo[a]pyrene	50-32-8	1,000	1,000	56.7 U	63.7 U	55 U	59.9	60.9 U	58.9 U	65.2 U
Benzo[b]fluoranthene	205-99-2	1,000	1,000	56.7 U	63.7 U	55 U	82	60.9 U	58.9 U	65.2 U
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	56.7 U	63.7 U	55 U	42.9	60.9 U	58.9 U	65.2 U
Benzo[k]fluoranthene	207-08-9	1,000	3,900	56.7 U	63.7 U	55 U	62.5 U	60.9 U	58.9 U	65.2 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	113 U	127 U	275 U	312 U	305 U	294 U	326 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
Caprolactam	105-60-2	NC	NC	227 U	255 U	220 U	250 U	244 U	235 U	261 U
Carbazole	86-74-8	NC	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
Chrysene	218-01-9	1,000	3,900	56.7 U	63.7 U	55 U	62.5	60.9 U	58.9 U	65.2 U
Dibenzo[a,h]Anthracene	53-70-3	330	330	56.7 U	63.7 U	55 U	62.5 U	60.9 U	58.9 U	65.2 U
Dibenzofuran	132-64-9	14,000	59,000	113 U	127 U	110 U	125 U	122 U	118 U	130 U
Diethylphthalate	84-66-2	100,000[CP]	NC	113 U	127 U	110 U	125 U	122 U	27.5	52.8
Dimethylphthalate	131-11-3	100,000[CP]	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
Fluoranthene	206-44-0	100,000	100,000	56.7 U	63.7 U	55 U	152	60.9 U	58.9 U	65.2 U
Fluorene	86-73-7	100,000	100,000	56.7 U	63.7 U	55 U	165	60.9 U	58.9 U	65.1
Hexachlorobenzene	118-74-1	330, 410[CP]	1,200	113 U	127 U	110 U	125 U	122 U	118 U	130 U
Hexachlorobutadiene	87-68-3	NC	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	227 UJ	255 U	220 U	250 U	244 U	235 U	261 U
Hexachloroethane	67-72-1	NC	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	56.7 U	63.7 U	55 U	43.5	60.9 U	58.9 U	65.2 U
Isophorone	78-59-1	100,000[CP]	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	227 U	255 U	220 U	250 U	244 U	235 U	43.2
Naphthalene	91-20-3	100,000	100,000	56.7 U	63.7 U	55 U	62.5 U	60.9 U	58.9 U	65.2 U
Nitrobenzene	98-95-3	3700[CP]	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	113 U	127 U	110 U	125 U	122 U	118 U	130 U
Pentachlorophenol	87-86-5	2,400	6,700	227 U	255 U	220 U	250 U	244 U	235 U	261 R
Phenanthrene	85-01-8	100,000	100,000	56.7 U	63.7 U	55 U	326	60.9 U	58.9 U	65.2 U
Phenol	108-95-2	100,000	100,000	227 U	255 U	220 U	250 U	244 U	235 U	261 R
Pyrene	129-00-0	100,000	100,000	56.7 U	63.7 U	55 U	117	60.9 U	58.9 U	65.2 U
Pyridine	110-86-1	NC	NC	227 U	255 U	220 U	250 U	244 U	235 U	261 U
Total SVOC TICs	NA	NC	NC	NT	NT	NT	53,440	542	586	11,126

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51

Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8B - Subsurface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				fill/bb	fill/bb	fill		fill	fill		
			Sample Location	SB-TP-139[BB]	SB-TP-139[BB]	SB-TP-144	SB-TP-147	TP-101	TP-102	TP-103	TP-103
			Sample ID	DUP-001-030716	SB-TP-139-12-14-030716	SB-TP-144-4-6-030916	SB-TP-147-16-18-031016	TP-101-2-4-012116	TP-102-1-3-012216	DUP-008-012116	TP-103-0-2-012116
			Sample Date	3/7/2016	3/7/2016	3/9/2016	3/10/2016	1/21/2016	1/22/2016	1/21/2016	1/21/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2129473	2129473	2130254	2130254	2120575	2120575	2120575	2120575
			Start Depth	12	12	4	16	2	1	0	0
			End Depth	14	14	6	18	4	3	2	2
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]								
SVOCs											
1,1'-Biphenyl	92-52-4	NC	NC	121 U	113 U	107 U	102 U	106 U	71.8	43.5	109 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
2,4-Dimethylphenol	105-67-9	NC	NC	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	424 U	396 U	374 U	358 U	371 U	499 U	431 U	381 U
2,4-Dinitrotoluene	121-14-2	NC	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
2,6-Dinitrotoluene	606-20-2	1,030[CP]	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
2-Chloronaphthalene	91-58-7	NC	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
2-Methylnaphthalene	91-57-6	*410*[CP]	NC	121 U	113 U	107 U	102 U	13.2	266	239	109
2-Methylphenol	95-48-7	100,000	100,000	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
2-Nitroaniline	88-74-4	NC	NC	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
2-Nitrophenol	88-75-5	NC	NC	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
3-Nitroaniline	99-09-2	NC	NC	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
4-Nitroaniline	100-01-6	NC	NC	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
4-Nitrophenol	100-02-7	NC	NC	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
Acenaphthene	83-32-9	100,000	100,000	60.5 U	56.6 U	53.4 U	51.2 U	53 U	71.3 U	122	54.4 U
Acenaphthylene	208-96-8	100,000	100,000	60.5 U	56.6 U	53.4 U	51.2 U	53 U	71.3 U	245	54.4 U
Acetophenone	98-86-2	NC	NC	121 U	113 U	107	102 U	106 U	63.8	59.6	109 U
Anthracene	120-12-7	100,000	100,000	60.5 U	56.6 U	53.4 U	51.2 U	53 U	106	497	54.4 U
Atrazine	1912-24-9	NC	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
Benzaldehyde	100-52-7	NC	NC	242 U	226 U	214 U	205 U	212 U	285 U	52.3	217 U
Benzidine	92-87-5	NC	NC	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
Benzo[a]anthracene	56-55-3	1,000	1,000	60.5 U	56.6 U	44	51.2 U	93.6	490	940	70.9
Benzo[a]pyrene	50-32-8	1,000	1,000	60.5 U	56.6 U	36.4	51.2 U	114	333	801	83.8
Benzo[b]fluoranthene	205-99-2	1,000	1,000	60.5 U	56.6 U	50.8	51.2 U	158	377	998	108
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	60.5 U	56.6 U	22.7	51.2 U	102	483	413	74.1
Benzo[k]fluoranthene	207-08-9	1,000	3,900	60.5 U	56.6 U	53.4 U	51.2 U	57.3	71.3 U	382	44.4
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	303 U	283 U	267 U	256 U	265 U	356 U	308 U	272 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
Caprolactam	105-60-2	NC	NC	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
Carbazole	86-74-8	NC	NC	121 U	113 U	107 U	102 U	106 U	143 U	167	109 U
Chrysene	218-01-9	1,000	3,900	60.5 U	56.6 U	37.7	51.2 U	100	998	927	70.3
Dibenzo[a,h]Anthracene	53-70-3	330	330	60.5 U	56.6 U	53.4 U	51.2 U	28.4	366	115	54.4 U
Dibenzofuran	132-64-9	14,000	59,000	121 U	113 U	107 U	102 U	106 U	66.2	204	109 U
Diethylphthalate	84-66-2	100,000[CP]	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
Fluoranthene	206-44-0	100,000	100,000	60.5 U	56.6 U	85.2	51.2 U	145	141	2120	121 U
Fluorene	86-73-7	100,000	100,000	60.5 U	56.6 U	53.4 U	51.2 U	53 U	71.3 U	212	54.4
Hexachlorobenzene	118-74-1	330, 410[CP]	1,200	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
Hexachlorobutadiene	87-68-3	NC	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
Hexachloroethane	67-72-1	NC	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	60.5 U	56.6 U	25.8	51.2 U	95.3	141	451	70.9 U
Isophorone	78-59-1	100,000[CP]	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	242 U	226 U	214 U	205 U	212 U	285 U	43.4	217 U
Naphthalene	91-20-3	100,000	100,000	60.5 U	56.6 U	53.4 U	51.2 U	53 U	121	258	54.4
Nitrobenzene	98-95-3	3700[CP]	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	121 U	113 U	107 U	102 U	106 U	143 U	123 U	109 U
Pentachlorophenol	87-86-5	2,400	6,700	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
Phenanthrene	85-01-8	100,000	100,000	60.5 U	56.6 U	53.4 U	51.2 U	68.6	698	1,860	52.3
Phenol	108-95-2	100,000	100,000	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
Pyrene	129-00-0	100,000	100,000	60.5 U	56.6 U	63.6	51.2 U	138	135	1,610	108 U
Pyridine	110-86-1	NC	NC	242 U	226 U	214 U	205 U	212 U	285 U	246 U	217 U
Total SVOC TICs	NA	NC	NC	NT	10,519	NT	NT	292	128,470	4,539	NT

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51

Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8B - Subsurface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				fill		fill	fill	fill	fill/bb	fill	
			Sample Location	TP-104	TP-105	TP-106	TP-107	TP-108	TP-109[BB]	TP-110	TP-111
			Sample ID	TP-104-0-2-012216	TP-105-4.5-6.5-012216	TP-106-1.5-4-012216	TP-107-0-2-012216	TP-108-0-1.5-012516	TP-109-4-4.5-012516	TP-110-1.5-2-012516	B-TP-111-0-0.6-08211
			Sample Date	1/22/2016	1/22/2016	1/22/2016	1/22/2016	1/25/2016	1/25/2016	1/25/2016	8/21/2017
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2120575	2120575	2120575	2120575	2121863	2121863	2121863	2258101
			Start Depth	0	4.5	1.5	0	0	4	1.5	0
			End Depth	2	6.5	4	2	1.5	4.5	2	0.6
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]								
SVOCs											
1,1'-Biphenyl	92-52-4	NC	NC	120 U	157	125	128 U	125	33.2	141 U	111 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
2,4-Dimethylphenol	105-67-9	NC	NC	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	421 U	454 U	490 U	448 U	418 U	497 U	493 U	223 U
2,4-Dinitrotoluene	121-14-2	NC	NC	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
2,6-Dinitrotoluene	606-20-2	1,030[CP]	NC	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
2-Chloronaphthalene	91-58-7	NC	NC	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
2-Methylnaphthalene	91-57-6	*410*[CP]	NC	27.4	1,250	221	147	788	104	141 U	111 U
2-Methylphenol	95-48-7	100,000	100,000	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
2-Nitroaniline	88-74-4	NC	NC	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
2-Nitrophenol	88-75-5	NC	NC	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
3-Nitroaniline	99-09-2	NC	NC	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
4-Nitroaniline	100-01-6	NC	NC	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
4-Nitrophenol	100-02-7	NC	NC	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
Acenaphthene	83-32-9	100,000	100,000	124	64.9 U	70 U	47.5	2070	234	59.9	55.7 U
Acenaphthylene	208-96-8	100,000	100,000	76.5	384	70 U	59.2	59.7 U	396	164	325
Acetophenone	98-86-2	NC	NC	120 U	164	68.8	128 U	295	42.1	141 U	111 U
Anthracene	120-12-7	100,000	100,000	429	510	74.4	151	2970	1080	526	106
Atrazine	1912-24-9	NC	NC	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
Benzaldehyde	100-52-7	NC	NC	241 U	185	280 U	256 U	239 U	284 U	32.8	223 U
Benzidine	92-87-5	NC	NC	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
Benzo[a]anthracene	56-55-3	1,000	1,000	1,340	1,880	478	420	17,100	4,230	4,960	238
Benzo[a]pyrene	50-32-8	1,000	1,000	1,300	1,830	213	417	21,500	3,980	9,750	603
Benzo[b]fluoranthene	205-99-2	1,000	1,000	1,620	2,260	420	634	26,200	5,200	10,600	618
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	773	1250	537	430	13,000	2,610	9,330	518
Benzo[k]fluoranthene	207-08-9	1,000	3,900	641	832	70 U	219	8,660	2,020	3,930	220
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	301 U	324 U	350 U	320 U	298 U	355 U	352 U	42.2 J
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	120 U	130 U	140 U	479	119 U	142 U	141 U	111 U
Caprolactam	105-60-2	NC	NC	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
Carbazole	86-74-8	NC	NC	133	127	140 U	69.3	2,340	485	295	42.3 J
Chrysene	218-01-9	1,000	3,900	1,400	2,150	1,280	765	19,300	4,620	5,680	226
Dibenzo[a,h]Anthracene	53-70-3	330	330	200	329	513	159	3,170	804	2,120	122
Dibenzofuran	132-64-9	14,000	59,000	65.1	530	82.9	78.1	721	251	54.7	111 U
Diethylphthalate	84-66-2	100,000[CP]	NC	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
Fluoranthene	206-44-0	100,000	100,000	3240	3,620	70 U	776	30,000	8,700	5,300	312
Fluorene	86-73-7	100,000	100,000	133	138	70 U	61.9	944	357	77.3	55.7 U
Hexachlorobenzene	118-74-1	330, 410[CP]	1,200	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
Hexachlorobutadiene	87-68-3	NC	NC	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
Hexachloroethane	67-72-1	NC	NC	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	843	1,230	179	350	14,700	2,790	9,870	566
Isophorone	78-59-1	100,000[CP]	NC	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	241 U	64	280 U	256 U	44.8	284 U	282 U	223 U
Naphthalene	91-20-3	100,000	100,000	48.2	939	89.4	131	1520	160	32.7	23.2 J
Nitrobenzene	98-95-3	3700[CP]	NC	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	120 U	130 U	140 U	128 U	119 U	142 U	141 U	111 U
Pentachlorophenol	87-86-5	2,400	6,700	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
Phenanthrene	85-01-8	100,000	100,000	1710	2650	626	594	13,100	5200	1,780	118
Phenol	108-95-2	100,000	100,000	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
Pyrene	129-00-0	100,000	100,000	2,480	3,080	98.7	628	25500	7430	5,380	296
Pyridine	110-86-1	NC	NC	241 U	259 U	280 U	256 U	239 U	284 U	282 U	223 U
Total SVOC TICs	NA	NC	NC	4,827	21,426	126,110	NT	64,851	14,232	23,350	NT

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8B - Subsurface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	fill TP-112	TP-113	TP-114	fill TP-115	fill TP-117	fill TP-118	fill TP-119	fill TP-120
			Sample ID	TP-112-3.5-4-012516	TP-113-1.5-2-012516	TP-114-4-5-012616	TP-115-4-5-012616	TP-117-1.5-2-011516	TP-118-3.5-4-011516	TP-119-5-6-012616	DUP-009-012616
			Sample Date	1/25/2016	1/25/2016	1/26/2016	1/26/2016	1/15/2016	1/15/2016	1/26/2016	1/26/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2121863	2121863	2121863	2121863	2120575	2120575	2121863	2121863
			Start Depth	3.5	1.5	4	4	1.5	3.5	5	4
			End Depth	4	2	5	5	2	4	6	4.5
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]								
SVOCs											
1,1'-Biphenyl	92-52-4	NC	NC	119 U	104 U	147 U	137 U	449	142 U	136 U	120 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	239 U	208 U	294 U	274 U	251 U	283 U	273 U	241 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	239 U	208 U	294 U	274 U	251 U	283 U	273 U	241 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	239 U	208 U	294 U	274 U	251 U	283 U	273 U	241 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	239 U	208 U	294 U	274 U	251 R	283 U	273 U	241 U
2,4-Dimethylphenol	105-67-9	NC	NC	239 U	208 U	294 U	274 U	251 U	283 U	273 U	241 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	418 U	363 U	515 U	480 U	440 U	495 U	478 U	421 U
2,4-Dinitrotoluene	121-14-2	NC	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
2,6-Dinitrotoluene	606-20-2	1,030[CP]	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
2-Chloronaphthalene	91-58-7	NC	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	239 U	208 U	294 U	274 U	251 U	283 U	273 U	241 U
2-Methylnaphthalene	91-57-6	*410*[CP]	NC	21.6	104 U	147 U	25.8	2,220	62.4	68.7	20
2-Methylphenol	95-48-7	100,000	100,000	239 U	208 U	294 U	274 U	251 U	283 U	273 U	241 U
2-Nitroaniline	88-74-4	NC	NC	239 U	208 U	294 U	274 U	251 U	283 U	273 U	241 U
2-Nitrophenol	88-75-5	NC	NC	239 U	208 U	294 U	274 U	251 U	283 U	273 U	241 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	239 U	208 U	294 U	274 U	251 U	283 U	273 U	241 U
3-Nitroaniline	99-09-2	NC	NC	239 U	208 U	294 U	274 U	251 U	283 U	273 U	241 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	239 U	208 U	294 U	274 U	251 U	283 U	273 U	241 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	239 U	208 U	294 U	274 U	251 U	283 U	273 U	241 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	239 U	208 U	294 U	274 U	251 U	283 U	273 U	241 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
4-Nitroaniline	100-01-6	NC	NC	239 U	208 U	294 U	274 U	251 U	283 U	273 U	241 U
4-Nitrophenol	100-02-7	NC	NC	239 U	208 U	294 U	274 U	251 U	283 U	273 U	241 U
Acenaphthene	83-32-9	100,000	100,000	59.7 U	51.9 U	73.6 U	26	5,590	70.8 U	68.2 U	60.2 U
Acenaphthylene	208-96-8	100,000	100,000	59.7 U	51.9 U	73.6 U	68.5 U	9,410	41.1	68.2 U	60.2 U
Acetophenone	98-86-2	NC	NC	119 U	104 U	147 U	37.4	134	40.3	136 U	52.6
Anthracene	120-12-7	100,000	100,000	59.7 U	51.9 U	73.6 U	61.7	28,700	77.2	35.7	60.2 U
Atrazine	1912-24-9	NC	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
Benzaldehyde	100-52-7	NC	NC	239 U	208 U	294 U	274 U	93.4	41.8	273 U	241 U
Benzidine	92-87-5	NC	NC	239 U	208 U	294 U	274 U	251 U	283 U	273 U	241 U
Benzo[a]anthracene	56-55-3	1,000	1,000	36.4	51.9 U	73.6 U	204	112,000	195	108	27
Benzo[a]pyrene	50-32-8	1,000	1,000	59.7 U	51.9 U	73.6 U	211	106,000	223	96	60.2 U
Benzo[b]fluoranthene	205-99-2	1,000	1,000	59.7 U	51.9 U	73.6 U	258	148,000	267	114	43.8
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	59.7 U	51.9 U	73.6 U	113	66,900	167	84.7	60.2 U
Benzo[k]fluoranthene	207-08-9	1,000	3,900	59.7 U	51.9 U	73.6 U	116	52,700	101	68.2 U	60.2 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	299 U	260 U	368 U	343 U	314 U	354 U	341 U	301 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
Caprolactam	105-60-2	NC	NC	239 U	208 U	294 U	274 U	251 U	283 U	273 U	241 U
Carbazole	86-74-8	NC	NC	119 U	104 U	147 U	36.3	9,710	32.2	136 U	120 U
Chrysene	218-01-9	1,000	3,900	43.2	51.9 U	73.6 U	243	115,000	269	104	26.6
Dibenzo[a,h]Anthracene	53-70-3	330	330	59.7 U	51.9 U	73.6 U	35	17,300	42.9	68.2 U	60.2 U
Dibenzofuran	132-64-9	14,000	59,000	119 U	104 U	147 U	28.9	6,420	33.7	136 U	120 U
Diethylphthalate	84-66-2	100,000[CP]	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
Fluoranthene	206-44-0	100,000	100,000	32.6	51.9 U	73.6 U	437	230,000	396	119	60.2 U
Fluorene	86-73-7	100,000	100,000	59.7 U	51.9 U	73.6 U	29.1	9,490	70.8 U	68.2 U	60.2 U
Hexachlorobenzene	118-74-1	330, 410[CP]	1,200	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
Hexachlorobutadiene	87-68-3	NC	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	239 U	208 U	294 U	274 U	251 R	283 U	273 U	241 U
Hexachloroethane	67-72-1	NC	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	59.7 U	51.9 U	73.6 U	137	73,200	151	77.8	60.2 U
Isophorone	78-59-1	100,000[CP]	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	239 U	208 U	294 U	274 U	96.9	23.8	273 U	241 U
Naphthalene	91-20-3	100,000	100,000	59.7 U	51.9 U	73.6 U	67	5040	131	43.2	60.2 U
Nitrobenzene	98-95-3	3700[CP]	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	119 U	104 U	147 U	137 U	126 U	142 U	136 U	120 U
Pentachlorophenol	87-86-5	2,400	6,700	239 U	208 U	294 U	274 U	251 U	283 U	273 U	241 U
Phenanthrene	85-01-8	100,000	100,000	61.2	51.9 U	73.6 U	352	121,000	357	85.2	23
Phenol	108-95-2	100,000	100,000	239 U	208 U	294 U	274 U	92.7	283 U	273 U	241 U
Pyrene	129-00-0	100,000	100,000	43.6	51.9 U	73.6 U	407	197,000	314	137	27.8
Pyridine	110-86-1	NC	NC	239 U	208 U	294 U	274 U	251 U	283 U	273 U	241 U
Total SVOC TICs	NA	NC	NC	NT	NT	NT	NT	6,194	2,548	2,636	344

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8B - Subsurface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				fill					fill		fill
			Sample Location	TP-120	TP-121	TP-122	TP-123	TP-124	TP-125	TP-127	TP-128
			Sample ID	TP-120-4-4.5-012616	TP-121-8-8.5-012616	TP-122-7-8-012716	TP-123-4.5-5-012616	TP-124-7.5-8-012616	TP-125-3-4-012716	TP-127-8-8.5-012716	TP-128-5-6-012716
			Sample Date	1/26/2016	1/26/2016	1/27/2016	1/26/2016	1/26/2016	1/27/2016	1/27/2016	1/27/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2121863	2121863	2121863	2121863	2121863	2121863	2121863	2121863
			Start Depth	4	8	7	4.5	7.5	3	8	5
			End Depth	4.5	8.5	8	5	8	4	8.5	6
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]								
SVOCs											
1,1'-Biphenyl	92-52-4	NC	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
2,4-Dimethylphenol	105-67-9	NC	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	416 U	424 U	406 U	408 U	443 U	436 U	597 U	686 U
2,4-Dinitrotoluene	121-14-2	NC	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
2,6-Dinitrotoluene	606-20-2	1,030[CP]	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
2-Chloronaphthalene	91-58-7	NC	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
2-Methylnaphthalene	91-57-6	*410*[CP]	NC	16.5	121 U	116 U	117 U	127 U	18.1	171 U	196 U
2-Methylphenol	95-48-7	100,000	100,000	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
2-Nitroaniline	88-74-4	NC	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
2-Nitrophenol	88-75-5	NC	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
3-Nitroaniline	99-09-2	NC	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
4-Nitroaniline	100-01-6	NC	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
4-Nitrophenol	100-02-7	NC	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
Acenaphthene	83-32-9	100,000	100,000	59.4 U	60.5 U	58 U	58.3 U	63.3 U	62.3 U	85.3 U	98.1 U
Acenaphthylene	208-96-8	100,000	100,000	59.4 U	60.5 U	58 U	58.3 U	63.3 U	62.3 U	85.3 U	98.1 U
Acetophenone	98-86-2	NC	NC	119 U	121 U	116 U	117 U	127 U	125 U	772	196 U
Anthracene	120-12-7	100,000	100,000	59.4 U	60.5 U	58 U	58.3 U	63.3 U	62.3 U	85.3 U	98.1 U
Atrazine	1912-24-9	NC	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
Benzaldehyde	100-52-7	NC	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
Benzidine	92-87-5	NC	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
Benzo[a]anthracene	56-55-3	1,000	1,000	30.2	60.5 U	58 U	58.3 U	43.9	62.3 U	72.7	48.1
Benzo[a]pyrene	50-32-8	1,000	1,000	31.9	60.5 U	58 U	58.3 U	35.6	62.3 U	59.7	98.1 U
Benzo[b]fluoranthene	205-99-2	1,000	1,000	51.3	60.5 U	58 U	58.3 U	37.5	62.3 U	84.9	98.1 U
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	27.7	60.5 U	58 U	58.3 U	63.3 U	62.3 U	58.2	98.1 U
Benzo[k]fluoranthene	207-08-9	1,000	3,900	59.4 U	60.5 U	58 U	58.3 U	63.3 U	62.3 U	85.3 U	98.1 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	297 U	303 U	290 U	291 U	316 U	312 U	427 U	490 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
Caprolactam	105-60-2	NC	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
Carbazole	86-74-8	NC	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
Chrysene	218-01-9	1,000	3,900	59.4 U	60.5 U	58 U	58.3 U	55.1	62.3 U	211	98.1 U
Dibenzo[a,h]Anthracene	53-70-3	330	330	59.4 U	60.5 U	58 U	58.3 U	63.3 U	62.3 U	85.3 U	98.1 U
Dibenzofuran	132-64-9	14,000	59,000	119 U	121 U	116 U	117 U	127 U	125 U	84.9	196 U
Diethylphthalate	84-66-2	100,000[CP]	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
Fluoranthene	206-44-0	100,000	100,000	33.9	60.5 U	58 U	58.3 U	71	62.3 U	151	98.1 U
Fluorene	86-73-7	100,000	100,000	59.4 U	60.5 U	58 U	58.3 U	63.3 U	62.3 U	85.3 U	98.1 U
Hexachlorobenzene	118-74-1	330, 410[CP]	1,200	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
Hexachlorobutadiene	87-68-3	NC	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
Hexachloroethane	67-72-1	NC	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	32.1	60.5 U	58 U	58.3 U	63.3 U	62.3 U	55	98.1 U
Isophorone	78-59-1	100,000[CP]	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
Naphthalene	91-20-3	100,000	100,000	59.4 U	60.5 U	58 U	58.3 U	63.3 U	62.3 U	41.9	98.1 U
Nitrobenzene	98-95-3	3700[CP]	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	119 U	121 U	116 U	117 U	127 U	125 U	171 U	196 U
Pentachlorophenol	87-86-5	2,400	6,700	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
Phenanthrene	85-01-8	100,000	100,000	23.5	60.5 U	58 U	58.3 U	97.8	33.4	71.5	98.1 U
Phenol	108-95-2	100,000	100,000	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
Pyrene	129-00-0	100,000	100,000	34.8	60.5 U	58 U	58.3 U	66.2	62.3 U	121	98.1 U
Pyridine	110-86-1	NC	NC	237 U	242 U	232 U	233 U	253 U	249 U	341 U	392 U
Total SVOC TICs	NA	NC	NC	667	1,407	NT	4,945	30,531	NT	88,260	82,289

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8B - Subsurface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

					fill						fill/bb
			Sample Location	TP-129	TP-132	TP-133	TP-134	TP-136	TP-137	TP-138	TP-140[BB]
			Sample ID	TP-129-4-4.5-012816	TP-132-3-3.5-012816	TP-133-6.5-7-012716	TP-134-5-6-012816	TP-136-8-8.5-012916	TP-137-9.5-10-012916	TP-138-5-6-011516	TP-140-2.5-3-011416
			Sample Date	1/28/2016	1/28/2016	1/27/2016	1/28/2016	1/29/2016	1/29/2016	1/15/2016	1/14/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2121862	2121862	2121863	2121862	2121862	2121862	2120575	2119212
			Start Depth	4	3	6.5	5	8	9.5	5	2.5
			End Depth	4.5	3.5	7	6	8.5	10	6	3
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]								
SVOCs											
1,1'-Biphenyl	92-52-4	NC	NC	135 U	41.3	116 U	128 U	119 U	117 U	121 U	136 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
2,4-Dimethylphenol	105-67-9	NC	NC	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	471 U	475 U	405 U	447 U	415 U	409 U	423 U	477 U
2,4-Dinitrotoluene	121-14-2	NC	NC	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
2,6-Dinitrotoluene	606-20-2	1,030[CP]	NC	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
2-Chloronaphthalene	91-58-7	NC	NC	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
2-Methylnaphthalene	91-57-6	*410*[CP]	NC	33.9	248	116 U	71.7	119 U	117 U	121 U	55.8
2-Methylphenol	95-48-7	100,000	100,000	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
2-Nitroaniline	88-74-4	NC	NC	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
2-Nitrophenol	88-75-5	NC	NC	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
3-Nitroaniline	99-09-2	NC	NC	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
4-Nitroaniline	100-01-6	NC	NC	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
4-Nitrophenol	100-02-7	NC	NC	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
Acenaphthene	83-32-9	100,000	100,000	67.3 U	160	57.9 U	63.8 U	59.3 U	58.4 U	60.4 U	95.8
Acenaphthylene	208-96-8	100,000	100,000	67.3 U	76.9	57.9 U	63.8 U	59.3 U	58.4 U	60.4 U	316
Acetophenone	98-86-2	NC	NC	121	76.3	116 U	128 U	119 U	37.9	52.2	41.9
Anthracene	120-12-7	100,000	100,000	67.3 U	411	57.9 U	63.8 U	59.3 U	58.4 U	60.4 U	1470
Atrazine	1912-24-9	NC	NC	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
Benzaldehyde	100-52-7	NC	NC	269 U	271 U	232 U	201	237 U	234 U	242 U	123
Benzidine	92-87-5	NC	NC	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
Benzo[a]anthracene	56-55-3	1,000	1,000	27	1,180	57.9 U	63.8 U	59.3 U	58.4 U	38.5	2,080
Benzo[a]pyrene	50-32-8	1,000	1,000	67.3 U	1,160	57.9 U	63.8 U	59.3 U	58.4 U	36.2	2,050
Benzo[b]fluoranthene	205-99-2	1,000	1,000	67.3 U	1,500	57.9 U	63.8 U	59.3 U	58.4 U	45.1	2,300
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	67.3 U	730	57.9 U	63.8 U	59.3 U	58.4 U	60.4 U	1,360
Benzo[k]fluoranthene	207-08-9	1,000	3,900	67.3 U	610	57.9 U	63.8 U	59.3 U	58.4 U	60.4 U	888
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	337 U	339 U	290 U	319 U	296 U	292 U	302 U	341 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	135 U	980	116 U	128 U	119 U	117 U	121 U	136 U
Caprolactam	105-60-2	NC	NC	269 U	271 U	232 U	1970	237 U	234 U	242 U	273 U
Carbazole	86-74-8	NC	NC	135 U	182	116 U	128 U	119 U	117 U	121 U	120
Chrysene	218-01-9	1,000	3,900	67.3 U	1,250	57.9 U	63.8 U	59.3 U	58.4 U	57.7	2,100
Dibenzo[a,h]Anthracene	53-70-3	330	330	67.3 U	211	57.9 U	63.8 U	59.3 U	58.4 U	60.4 U	282
Dibenzofuran	132-64-9	14,000	59,000	135 U	151	116 U	128 U	119 U	117 U	70.3	136
Diethylphthalate	84-66-2	100,000[CP]	NC	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
Fluoranthene	206-44-0	100,000	100,000	58.5	2,560	57.9 U	63.8 U	59.3 U	58.4 U	99.4	6,180
Fluorene	86-73-7	100,000	100,000	67.3 U	166	57.9 U	63.8 U	59.3 U	58.4 U	88.2	307
Hexachlorobenzene	118-74-1	330, 410[CP]	1,200	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
Hexachlorobutadiene	87-68-3	NC	NC	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
Hexachloroethane	67-72-1	NC	NC	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	67.3 U	804	57.9 U	63.8 U	59.3 U	58.4 U	60.4 U	1,450
Isophorone	78-59-1	100,000[CP]	NC	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	269 U	29.4	232 U	255 U	237 U	234 U	242 U	273 U
Naphthalene	91-20-3	100,000	100,000	22.8	245	57.9 U	21.9	59.3 U	58.4 U	60.4 U	197
Nitrobenzene	98-95-3	3700[CP]	NC	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	135 U	136 U	116 U	128 U	119 U	117 U	121 U	136 U
Pentachlorophenol	87-86-5	2,400	6,700	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
Phenanthrene	85-01-8	100,000	100,000	90.2	1790	57.9 U	35.9	59.3 U	58.4 U	257	3,970
Phenol	108-95-2	100,000	100,000	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
Pyrene	129-00-0	100,000	100,000	49.7	2240	57.9 U	63.8 U	59.3 U	58.4 U	88.7	4,900
Pyridine	110-86-1	NC	NC	269 U	271 U	232 U	255 U	237 U	234 U	242 U	273 U
Total SVOC TICs	NA	NC	NC	34,780	4,012	322	33,700	NT	2,073	98,660	NT

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8B - Subsurface Soil Results Compared to Restricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				fill	fill	fill	fill	fill/bb	
			Sample Location	TP-141	TP-142	TP-143	TP-148	TP-149[BB]	TP-152
			Sample ID	TP-141-4-5-011416	TP-142-0-1-011516	TP-143-4-6.5-011416	TP-148-2-2.5-012516	TP-149-6-8-011416	TP-152-2.5-3-012916
			Sample Date	1/14/2016	1/15/2016	1/14/2016	1/25/2016	1/14/2016	1/29/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2119212	2120575	2119212	2121863	2119212	2121862
			Start Depth	4	0	4	2	6	2.5
			End Depth	5	1	6.5	2.5	8	3
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]						
SVOCs									
1,1'-Biphenyl	92-52-4	NC	NC	115 U	65.5	137 U	119 U	115 U	120 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	NC	115 U	122 U	137 U	119 U	115 U	120 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	NC	230 U	243 U	275 U	237 U	231 U	239 U
2,4,5-Trichlorophenol	95-95-4	100,000[CP]	NC	230 U	243 U	275 U	237 U	231 U	239 U
2,4,6-Trichlorophenol	88-06-2	NC	NC	230 U	243 U	275 U	237 U	231 U	239 U
2,4-Dichlorophenol	120-83-2	100,000[CP]	NC	230 U	243 U	275 U	237 U	231 U	239 U
2,4-Dimethylphenol	105-67-9	NC	NC	230 U	243 U	275 U	237 U	231 U	239 U
2,4-Dinitrophenol	51-28-5	100,000[CP]	NC	402 R	426 U	480 U	415 U	404 U	418 U
2,4-Dinitrotoluene	121-14-2	NC	NC	115 U	122 U	137 U	119 U	115 U	120 U
2,6-Dinitrotoluene	606-20-2	1,030[CP]	NC	115 U	122 U	137 U	119 U	115 U	120 U
2-Chloronaphthalene	91-58-7	NC	NC	115 U	122 U	137 U	119 U	115 U	120 U
2-Chlorophenol	95-57-8	100,000[CP]	NC	230 U	243 U	275 U	237 U	231 U	239 U
2-Methylnaphthalene	91-57-6	*410*[CP]	NC	95.3	771	51.4	119 U	17.1	91.8
2-Methylphenol	95-48-7	100,000	100,000	230 U	243 U	275 U	237 U	231 U	239 U
2-Nitroaniline	88-74-4	NC	NC	230 U	243 U	275 U	237 U	231 U	239 U
2-Nitrophenol	88-75-5	NC	NC	230 U	243 U	275 U	237 U	231 U	239 U
3,3-Dichlorobenzidine	91-94-1	NC	NC	230 U	243 U	275 U	237 U	231 U	239 U
3-Nitroaniline	99-09-2	NC	NC	230 U	243 U	275 U	237 U	231 U	239 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	NC	230 U	243 U	275 U	237 U	231 U	239 U
4-Bromophenyl-phenylether	101-55-3	NC	NC	115 U	122 U	137 U	119 U	115 U	120 U
4-Chloro-3-methylphenol	59-50-7	NC	NC	230 U	243 U	275 U	237 U	231 U	239 U
4-Chloroaniline	106-47-8	100,000[CP]	NC	230 U	243 U	275 U	237 U	231 U	239 U
4-Chlorophenyl-phenylether	7005-72-3	NC	NC	115 U	122 U	137 U	119 U	115 U	120 U
4-Nitroaniline	100-01-6	NC	NC	230 U	243 U	275 U	237 U	231 U	239 U
4-Nitrophenol	100-02-7	NC	NC	230 U	243 U	275 U	237 U	231 U	239 U
Acenaphthene	83-32-9	100,000	100,000	135	60.9 U	68.6 U	59.3 U	57.7 U	59.8 U
Acenaphthylene	208-96-8	100,000	100,000	53.4	60.9 U	68.6 U	59.3 U	57.7 U	59.8 U
Acetophenone	98-86-2	NC	NC	115 U	126	54.1	119 U	115 U	65
Anthracene	120-12-7	100,000	100,000	438	60.9 U	39.7	59.3 U	57.7 U	29.5
Atrazine	1912-24-9	NC	NC	115 U	122 U	137 U	119 U	115 U	120 U
Benzaldehyde	100-52-7	NC	NC	230 U	111	275 U	237 U	231 U	53.9
Benzidine	92-87-5	NC	NC	230 R	243 U	275 U	237 U	231 U	239 U
Benzo[a]anthracene	56-55-3	1,000	1,000	946	105	68.6 U	59.3 U	40.3	59.8 U
Benzo[a]pyrene	50-32-8	1,000	1,000	895	68.1	105	59.3 U	57.7 U	59.8 U
Benzo[b]fluoranthene	205-99-2	1,000	1,000	1,180	103	147	59.3 U	57.7 U	59.8 U
Benzo[g,h,i]perylene	191-24-2	100,000	100,000	604	65.4	86.1	59.3 U	57.7 U	59.8 U
Benzo[k]fluoranthene	207-08-9	1,000	3,900	422	60.9 U	41.9	59.3 U	57.7 U	59.8 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	NC	115 U	122 U	137 U	119 U	115 U	120 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	NC	115 U	122 U	137 U	119 U	115 U	120 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	NC	115 U	122 U	137 U	119 U	115 U	120 U
Bis(2-Ethylhexyl)phthalate	117-81-7	50,000[CP]	NC	287 U	304 U	343 U	296 U	288 U	299 U
Butylbenzylphthalate	85-68-7	100,000[CP]	NC	115 U	122 U	137 U	119 U	115 U	120 U
Caprolactam	105-60-2	NC	NC	230 U	243 U	275 U	237 U	231 U	239 U
Carbazole	86-74-8	NC	NC	237	19.8	137 U	119 U	115 U	120 U
Chrysene	218-01-9	1,000	3,900	1,010	194	199	59.3 U	57.5	59.8 U
Dibenzo[a,h]Anthracene	53-70-3	330	330	155	24.5	56.5	59.3 U	57.7 U	59.8 U
Dibenzofuran	132-64-9	14,000	59,000	177	211	137 U	119 U	115 U	48.9
Diethylphthalate	84-66-2	100,000[CP]	NC	115 U	122 U	137 U	119 U	115 U	120 U
Dimethylphthalate	131-11-3	100,000[CP]	NC	115 U	122 U	137 U	119 U	115 U	120 U
Di-n-butylphthalate	84-74-2	100,000[CP]	NC	115 U	122 U	137 U	119 U	115 U	120 U
Di-n-octylphthalate	117-84-0	100,000[CP]	NC	115 U	122 U	137 U	119 U	115 U	120 U
Fluoranthene	206-44-0	100,000	100,000	2,430	132	154	59.3 U	29.6	59.5
Fluorene	86-73-7	100,000	100,000	211	36.5	68.6 U	59.3 U	57.7 U	59.8 U
Hexachlorobenzene	118-74-1	330, 410[CP]	1,200	115 U	122 U	137 U	119 U	115 U	120 U
Hexachlorobutadiene	87-68-3	NC	NC	115 U	122 U	137 U	119 U	115 U	120 U
Hexachlorocyclopentadiene	77-47-4	NC	NC	230 U	243 U	275 U	237 U	231 U	239 U
Hexachloroethane	67-72-1	NC	NC	115 U	122 U	137 U	119 U	115 U	120 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	500	639	39.3	59.8	59.3 U	57.7 U	59.8 U
Isophorone	78-59-1	100,000[CP]	NC	115 U	122 U	137 U	119 U	115 U	120 U
m-Cresol & p-Cresol	MEPH1314	NC	NC	230 U	243 U	275 U	237 U	231 U	239 U
Naphthalene	91-20-3	100,000	100,000	162	431	40.2	59.3 U	57.7 U	102
Nitrobenzene	98-95-3	3700[CP]	NC	115 U	122 U	137 U	119 U	115 U	120 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	NC	115 U	122 U	137 U	119 U	115 U	120 U
N-Nitrosodiphenylamine	86-30-6	NC	NC	115 U	122 U	137 U	119 U	115 U	120 U
Pentachlorophenol	87-86-5	2,400	6,700	230 U	243 U	275 U	237 U	231 U	239 U
Phenanthrene	85-01-8	100,000	100,000	2,180	598	179	59.3 U	75.3	166
Phenol	108-95-2	100,000	100,000	230 U	243 U	275 U	237 U	231 U	239 U
Pyrene	129-00-0	100,000	100,000	1,920	116	138	59.3 U	27.8	53.1
Pyridine	110-86-1	NC	NC	230 U	243 U	275 U	237 U	231 U	239 U
Total SVOC TICs	NA	NC	NC	NT	11,936	NT	873	NT	2,930

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8C - Subsurface Soil Results Compared to Restricted SCOs
Pesticides/Herbicides
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SB-101	SB-103	SB-105	SB-111	SB-112	SB-113	SB-113[BB]	SB-113	SB-116
				Sample ID	SB-101-12.5-14-031016	SB-103-4.8-5.8-030416	SB-105-11-12-031016	SB-111-6-7-031016	SB-112-0.5-2.0-082217	DUP-002-031416	SB-113-1-2-031416	SB-113-4.5-6.5-031416	SB-116-5.7-6.5-030216
				Sample Date	3/10/2016	3/4/2016	3/10/2016	3/10/2016	8/22/2017	3/14/2016	3/14/2016	3/14/2016	3/2/2016
				Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
				Lab SDG	2130254	2129473	2130254	2130254	2258101	2130903	2130903	2130903	2127346
				Start Depth	12.5	4.8	11	6	0.5	4.5	1	4.5	5.7
				End Depth	14	5.8	12	7	2	6.5	2	6.5	6.5
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]										
Pesticides/Herbicides													
4-4-DDD	72-54-8	2,600	13,000	3.3 U	3.2 U	4.1 UJ	3 U	4.3 U	3.3 U	3.3 U	4.3 UJ	3.4 U
4-4-DDE	72-55-9	1,800	8,900	3.3 U	3.2 U	4.1 U	3 U	4.3 U	3.3 U	3.3 U	4.3 U	3.4 U
4-4-DDT	50-29-3	1,700	7,900	3.3 U	3.2 U	4.1 UJ	3 U	4.3 U	3.3 U	3.3 U	4.3 UJ	3.4 U
a-BHC	319-84-6	97	480	3.3 U	3.2 U	4.1 U	3 U	2.2 U	3.3 U	3.3 U	4.3 U	3.4 U
Aldrin	309-00-2	19	97	3.3 U	3.2 U	4.1 U	3 U	2.2 U	3.3 U	3.3 U	4.3 U	3.4 U
alpha-Chlordane	5103-71-9	910	4,200	3.3 U	3.2 U	4.1 U	3 U	2.2 U	3.3 U	3.3 U	4.3 U	3.4 U
b-BHC	319-85-7	72	360	3.3 U	3.2 U	4.1 U	3 U	2.2 U	3.3 U	3.3 U	4.3 U	3.4 U
Chlordane	57-74-9	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
d-BHC	319-86-8	100,000	100,000	3.3 U	3.2 U	4.1 U	3 U	2.2 U	3.3 U	3.3 U	4.3 U	3.4 U
Dieldrin	60-57-1	39	200	3.3 U	3.2 U	4.1 U	3 U	4.3 U	3.3 U	3.3 U	4.3 U	3.4 U
Endosulfan I	959-98-8	4,800	24,000	3.3 U	3.2 U	4.1 U	3 U	2.2 U	3.3 U	3.3 U	4.3 U	3.4 U
Endosulfan II	33213-65-9	4,800	24,000	3.3 U	3.2 U	4.1 U	3 U	4.3 U	3.3 U	3.3 U	4.3 U	3.4 U
Endosulfan Sulfate	1031-07-8	4,800	24,000	3.3 U	3.2 U	4.1 U	3 U	4.3 U	3.3 U	3.3 U	4.3 U	3.4 U
Endrin	72-20-8	2,200	11,000	3.3 U	3.2 U	4.1 U	3 U	4.3 U	3.3 U	3.3 U	4.3 U	3.4 U
Endrin Aldehyde	7421-93-4	NC	NC	3.3 U	3.2 U	4.1 U	3 U	4.3 U	3.3 U	3.3 U	4.3 U	3.4 U
Endrin Ketone	53494-70-5	NC	NC	3.3 U	3.2 U	4.1 U	3 U	4.3 U	3.3 U	3.3 U	4.3 U	3.4 U
Heptachlor	76-44-8	420	2,100	3.3 U	3.2 U	4.1 U	3 U	2.2 U	3.3 U	3.3 U	4.3 U	3.4 U
Heptachlor Epoxide	1024-57-3	77[CP]	NC	3.3 U	1.2 J	4.1 U	3 U	2.2 U	3.3 U	3.3 U	4.3 U	3.4 U
Lindane	58-89-9	280	1,300	3.3 U	3.2 U	25.3 JN	3 U	2.2 U	3.3 U	3.3 U	4.3 U	3.4 U
Methoxychlor	72-43-5	100,000[CP]	NC	3.3 U	3.2 U	4.1 UJ	3 U	4.3 U	3.3 U	3.3 U	4.3 UJ	3.4 U
Toxaphene	8001-35-2	NC	NC	67.1 U	65 U	84.2 U	60.7 U	45.8 U	67 U	67.2 U	87.5 U	69.1 U
y-Chlordane	5103-74-2	540[CP]	NC	3.3 U	3.2 U	4.1 U	3 U	2.2 U	3.3 U	3.3 U	4.3 U	3.4 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51

Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8C - Subsurface Soil Results Compared to Restricted SCOs
Pesticides/Herbicides
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-117	SB-129	SB-134	SB-135	SB-136	SB-138	SB-144	SB-146	SB-148	SB-154	SB-157	SB-160	SB-161	SB-167
			Sample ID	DUP-003-030216	SB-129-4.6-6.6-031516	SB-134-10-11-031516	SB-135-8-9-041516	SB-136-5-7-031116	SB-138-4-4.8-030116	SB-144-1-1.8-030116	SB-146-6-8-030216	SB-148-8-9.2-040616	SB-154-15-17-030316	SB-157-20.5-21.5-030916	SB-160-4-5-030916	SB-161-24-26-030816	SB-167-18-19-030716
			Sample Date	3/2/2016	3/15/2016	3/15/2016	4/15/2016	3/11/2016	3/1/2016	3/1/2016	3/2/2016	4/7/2016	3/3/2016	3/9/2016	3/9/2016	3/8/2016	3/7/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2127346	2130900	2130900	2139069	2130903	2127346	2127346	2127346	2136537	2129473	2130254	2130254	2130254	2129473
			Start Depth	5.9	4.6	10	8	5	4	1	6	8	15	20.5	4	24	18
			End Depth	7	6.6	11	9	7	4.8	1.8	8	9.2	17	21.5	5	26	19
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]														
Pesticides/Herbicides																	
4-4-DDD	72-54-8	2,600	13,000	3.4 U	3.2 UJ	3.3 UJ	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U
4-4-DDE	72-55-9	1,800	8,900	3.4 U	3.2 U	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U
4-4-DDT	50-29-3	1,700	7,900	3.4 U	3.2 UJ	3.3 UJ	4 UJ	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U
a-BHC	319-84-6	97	480	3.4 U	3.2 U	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U
Aldrin	309-00-2	19	97	3.4 U	3.2 U	3.3 U	4 UJ	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U
alpha-Chlordane	5103-71-9	910	4,200	3.4 U	3.2 U	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 UJ	3.3 U	3.2 U	3 U	2.9 U	3.2 U
b-BHC	319-85-7	72	360	3.4 U	3.2 U	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U
Chlordane	57-74-9	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
d-BHC	319-86-8	100,000	100,000	3.4 U	3.2 U	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U
Dieldrin	60-57-1	39	200	3.4 U	3.2 U	3.3 U	4 UJ	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U
Endosulfan I	959-98-8	4,800	24,000	3.4 U	3.2 U	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U
Endosulfan II	33213-65-9	4,800	24,000	3.4 U	3.2 U	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U
Endosulfan Sulfate	1031-07-8	4,800	24,000	3.4 U	3.2 U	3.3 U	4 UJ	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U
Endrin	72-20-8	2,200	11,000	3.4 U	3.2 U	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U
Endrin Aldehyde	7421-93-4	NC	NC	3.4 U	3.2 U	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U
Endrin Ketone	53494-70-5	NC	NC	3.4 U	3.2 U	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U
Heptachlor	76-44-8	420	2,100	3.4 U	3.2 U	3.3 U	4 UJ	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U
Heptachlor Epoxide	1024-57-3	77[CP]	NC	3.4 U	3.2 U	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U
Lindane	58-89-9	280	1,300	3.4 U	3.2 U	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 UJ	3.3 U	3.2 U	3 U	2.9 U	3.2 U
Methoxychlor	72-43-5	100,000[CP]	NC	3.4 U	3.2 UJ	3.3 UJ	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U
Toxaphene	8001-35-2	NC	NC	69.7 U	64.8 U	66 U	80.4 U	63.6 U	62.6 U	63 U	63.2 U	70.5 U	67.8 U	64.4 U	61.4 U	58.6 U	65 U
y-Chlordane	5103-74-2	540[CP]	NC	3.4 U	3.2 U	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8C - Subsurface Soil Results Compared to Restricted SCOs
Pesticides/Herbicides
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-168	SB-169	SB-TP-139[BB]	SB-TP-139[BB]	TP-100	TP-103	TP-103	TP-105	TP-108	TP-112	TP-113	TP-114
			Sample ID	SB-168-16-17-030816	SB-169-16-17-030716	DUP-001-030716	SB-TP-139-12-14-030716	TP-100-2-4-012116	DUP-008-012116	TP-103-0-2-012116	TP-105-4.5-6.5-012216	TP-108-0-1.5-012516	TP-112-3.5-4-012516	TP-113-1.5-2-012516	TP-114-4-5-012616
			Sample Date	3/8/2016	3/7/2016	3/7/2016	3/7/2016	1/21/2016	1/21/2016	1/21/2016	1/22/2016	1/25/2016	1/25/2016	1/25/2016	1/26/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2130254	2129473	2129473	2129473	2120575	2120575	2120575	2120575	2121863	2121863	2121863	2121863
			Start Depth	16	16	12	12	2	0	0	4.5	0	3.5	1.5	4
			End Depth	17	17	14	14	4	2	2	6.5	1.5	4	2	5
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]												
Pesticides/Herbicides															
4-4-DDD	72-54-8	2,600	13,000	3.1 U	3.1 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U	3.9 U
4-4-DDE	72-55-9	1,800	8,900	3.1 U	3.1 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U	3.9 U
4-4-DDT	50-29-3	1,700	7,900	3.1 U	3.1 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U	3.9 U
a-BHC	319-84-6	97	480	3.1 U	3.1 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U	3.9 U
Aldrin	309-00-2	19	97	3.1 U	3.1 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U	3.9 U
alpha-Chlordane	5103-71-9	910	4,200	3.1 U	3.1 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U	3.9 U
b-BHC	319-85-7	72	360	3.1 U	3.1 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U	3.9 U
Chlordane	57-74-9	NC	NC	NA	NA	NA	NA	37.1 U	33.4 U	30.4 U	36.1 U	NA	NA	NA	NA
d-BHC	319-86-8	100,000	100,000	3.1 U	3.1 U	3.1 U	3.2 U	3.5 UJ	3.1 UJ	2.9 UJ	3.4 UJ	3.2 U	3.2 U	2.8 U	3.9 U
Dieldrin	60-57-1	39	200	3.1 U	3.1 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U	3.9 U
Endosulfan I	959-98-8	4,800	24,000	3.1 U	3.1 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U	3.9 U
Endosulfan II	33213-65-9	4,800	24,000	3.1 U	3.1 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U	3.9 U
Endosulfan Sulfate	1031-07-8	4,800	24,000	3.1 U	3.1 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U	3.9 U
Endrin	72-20-8	2,200	11,000	3.1 U	3.1 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U	3.9 U
Endrin Aldehyde	7421-93-4	NC	NC	3.1 U	3.1 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U	3.9 U
Endrin Ketone	53494-70-5	NC	NC	3.1 U	3.1 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U	3.9 U
Heptachlor	76-44-8	420	2,100	3.1 U	3.1 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U	3.9 U
Heptachlor Epoxide	1024-57-3	77[CP]	NC	3.1 U	3.1 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	4	3.2 U	3.2 U	2.8 U	3.9 U
Lindane	58-89-9	280	1,300	3.1 U	3.1 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U	3.9 U
Methoxychlor	72-43-5	100,000[CP]	NC	3.1 U	3.1 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U	3.9 U
Toxaphene	8001-35-2	NC	NC	63 U	62.1 U	62.4 U	64.7 U	71.1 U	63.8 U	58.3 U	69.1 U	64.8 U	65.3 U	57.5 U	78.9 U
y-Chlordane	5103-74-2	540[CP]	NC	3.1 U	3.1 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U	3.9 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51

Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8C - Subsurface Soil Results Compared to Restricted SCOs
Pesticides/Herbicides
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	TP-117	TP-123	TP-127	TP-128	TP-130	TP-132	TP-134	TP-135	TP-137	TP-143	TP-148	TP-149[BB]
			Sample ID	TP-117-1.5-2-011516	TP-123-4.5-5-012616	TP-127-8-8.5-012716	TP-128-5-6-012716	TP-130-9.5-10-012816	TP-132-3-3.5-012816	TP-134-5-6-012816	TP-135-2-3-012916	TP-137-9.5-10-012916	TP-143-4-6.5-011416	TP-148-2-2.5-012516	TP-149-6-8-011416
			Sample Date	1/15/2016	1/26/2016	1/27/2016	1/27/2016	1/28/2016	1/28/2016	1/28/2016	1/29/2016	1/29/2016	1/14/2016	1/25/2016	1/14/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2120575	2121863	2121863	2121863	2121862	2121862	2121862	2121862	2121862	2119212	2121863	2119212
			Start Depth	1.5	4.5	8	5	9.5	3	5	2	9.5	4	2	6
			End Depth	2	5	8.5	6	10	3.5	6	3	10	6.5	2.5	8
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]												
Pesticides/Herbicides															
4-4-DDD	72-54-8	2,600	13,000	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	6.4 J	3.3 U	3.1 U	3.1 U	4.5 UJ	3.1 U	3.9 U
4-4-DDE	72-55-9	1,800	8,900	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	5.1 J	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
4-4-DDT	50-29-3	1,700	7,900	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	5.1 JN	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
a-BHC	319-84-6	97	480	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 UJ	3.1 U	3.9 U
Aldrin	309-00-2	19	97	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
alpha-Chlordane	5103-71-9	910	4,200	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	2.8 J	3.3 U	3.1 U	3.1 U	4.5 UJ	3.1 U	3.9 U
b-BHC	319-85-7	72	360	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
Chlordane	57-74-9	NC	NC	35.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
d-BHC	319-86-8	100,000	100,000	3.3 UJ	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 UJ	3.1 U	3.9 U
Dieldrin	60-57-1	39	200	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	17.7 JN
Endosulfan I	959-98-8	4,800	24,000	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
Endosulfan II	33213-65-9	4,800	24,000	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 UJ	3.1 U	3.9 U
Endosulfan Sulfate	1031-07-8	4,800	24,000	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
Endrin	72-20-8	2,200	11,000	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
Endrin Aldehyde	7421-93-4	NC	NC	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
Endrin Ketone	53494-70-5	NC	NC	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
Heptachlor	76-44-8	420	2,100	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
Heptachlor Epoxide	1024-57-3	77[CP]	NC	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 UJ	3.1 U	3.9 U
Lindane	58-89-9	280	1,300	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
Methoxychlor	72-43-5	100,000[CP]	NC	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
Toxaphene	8001-35-2	NC	NC	67.8 U	64.1 U	91.5 U	103 U	70.3 U	70.8 U	66.2 U	62 U	63.9 U	91.4 U	63.5 U	78.3 U
y-Chlordane	5103-74-2	540[CP]	NC	3.3 U	3.2 U	4.5 U	5.1 U	4 JN	10.1 JN	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.

Exceeds Residential Use SCO listed in Part 375 or CP-51

Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8D - Subsurface Soil Results Compared to Restricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	OVR-100	OVR-107	OVR-108	OVR-109	OVR-109	OVR-116	OVR-117
				Sample ID	OVR-100-6-7-04222016	OVR-107-10-11-041216	OVR-108-4.1-5.4-041316	DUP-004-041116	OVR-109-10-11.8-041116	OVR-116-10-11.9-040116	OVR-117-7-7.6-040716
				Sample Date	4/22/2016	4/12/2016	4/13/2016	4/11/2016	4/11/2016	4/1/2016	4/7/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	2139069	2136537	2139069	2136537	2136537	2136532	2136537
				Start Depth	6	10	4.1	10	10	10	7
				End Depth	7	11	5.4	11.8	11.8	11.9	7.6
Chemical Name	CAS #	NY Part375-Residential SCO[1]	NY Part375-Restricted Residential SCO[1]	CP PCB Guidance[2] Greater 1 ft							
PCBs											
Aroclor 1268	11100-14-4	NC	NC	10	NA	0.041 UJ	NA	0.04 UJ	0.043 U	0.04 U	0.054 R
Aroclor-1016	12674-11-2	NC	NC	10	0.046 U	0.041 UJ	0.041 U	0.04 UJ	0.043 U	0.04 U	0.054 R
Aroclor-1221	11104-28-2	NC	NC	10	0.046 U	0.041 UJ	0.041 U	0.04 UJ	0.043 U	0.04 U	0.054 R
Aroclor-1232	11141-16-5	NC	NC	10	0.046 U	0.041 UJ	0.041 U	0.04 UJ	0.043 U	0.04 U	0.054 R
Aroclor-1242	53469-21-9	NC	NC	10	0.046 U	0.041 UJ	0.041 U	0.04 UJ	0.043 U	0.04 U	0.054 R
Aroclor-1248	12672-29-6	NC	NC	10	0.056	0.041 UJ	0.041 U	0.04 UJ	0.043 U	0.04 U	0.054 R
Aroclor-1254	11097-69-1	NC	NC	10	0.046 U	0.041 UJ	0.041 U	0.04 UJ	0.043 U	0.04 U	0.054 R
Aroclor-1260	11096-82-5	NC	NC	NC	0.046 U	0.041 UJ	0.041 U	0.04 UJ	0.043 U	0.04 U	0.054 R
Aroclor-1262	37324-23-5	NC	NC	NC	NA	0.041 UJ	NA	0.04 UJ	0.043 U	0.04 U	0.054 R
Total PCB	NA	1	1	10	0.056	ND	ND	ND	ND	ND	R

Notes:
mg/kg - milligrams per kilogram
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
R - result rejected during validation due to QA/QC excursion
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[2] - Criteria from the CP-51, Soil Cleanup Guidance.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8D - Subsurface Soil Results Compared to Restricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	OVR-118	SB-100	SB-101	SB-103	SB-105	SB-106	SB-107
				Sample ID	OVR-118-0.5-1-041316	SB-100-9-10-031016	SB-101-12.5-14-031016	SB-103-4.8-5.8-030416	SB-105-11-12-031016	SB-106-5-6-030316	SB-107-6-7-030316
				Sample Date	4/13/2016	3/10/2016	3/10/2016	3/4/2016	3/10/2016	3/3/2016	3/3/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	2139069	2130254	2130254	2129473	2130254	2129473	2129473
				Start Depth	0.5	9	12.5	4.8	11	5	6
				End Depth	1	10	14	5.8	12	6	7
Chemical Name	CAS #	NY Part375-Residential SCO[1]	NY Part375-Restricted Residential SCO[1]	CP PCB Guidance[2] Greater 1 ft							
PCBs											
Aroclor 1268	11100-14-4	NC	NC	10	NA	0.051 U	0.042 U	0.039 U	0.051 U	0.039 U	0.037 U
Aroclor-1016	12674-11-2	NC	NC	10	0.037 U	0.051 U	0.042 U	0.039 U	0.051 U	0.039 U	0.037 U
Aroclor-1221	11104-28-2	NC	NC	10	0.037 U	0.051 U	0.042 U	0.039 U	0.051 U	0.039 U	0.037 U
Aroclor-1232	11141-16-5	NC	NC	10	0.037 U	0.051 U	0.042 U	0.039 U	0.051 U	0.039 U	0.037 U
Aroclor-1242	53469-21-9	NC	NC	10	0.037 U	0.051 U	0.042 U	0.039 U	0.051 U	0.039 U	0.037 U
Aroclor-1248	12672-29-6	NC	NC	10	0.037 U	0.051 U	0.042 U	0.039 U	0.051 U	0.039 U	0.037 U
Aroclor-1254	11097-69-1	NC	NC	10	0.037 U	0.051 U	0.042 U	0.039 U	0.051 U	0.039 U	0.037 U
Aroclor-1260	11096-82-5	NC	NC	NC	0.037 U	0.051 U	0.042 U	0.039 U	0.051 U	0.039 U	0.037 U
Aroclor-1262	37324-23-5	NC	NC	NC	NA	0.051 U	0.042 U	0.039 U	0.051 U	0.039 U	0.037 U
Total PCB	NA	1	1	10	ND	ND	ND	ND	ND	ND	ND

Notes:
mg/kg - milligrams per kilogram
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
R - result rejected during validation due to QA/QC excursion
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[2] - Criteria from the CP-51, Soil Cleanup Guidance.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8D - Subsurface Soil Results Compared to Restricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SB-108	SB-111	SB-112	SB-113	SB-113[BB]	SB-113	SB-114	SB-116
				Sample ID	SB-108-5.8-6.4-030316	SB-111-6-7-031016	B-112-0.5-2.0-08221	DUP-002-031416	SB-113-1-2-031416	SB-113-4.5-6.5-031416	SB-114-2-2.5-030216	SB-116-5.7-6.5-030216
				Sample Date	3/3/2016	3/10/2016	8/22/2017	3/14/2016	3/14/2016	3/14/2016	3/2/2016	3/2/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	2129473	2130254	2258101	2130903	2130903	2130903	2127346	2127346
				Start Depth	5.8	6	0.5	4.5	1	4.5	2	5.7
				End Depth	6.4	7	2	6.5	2	6.5	2.5	6.5
Chemical Name	CAS #	NY Part375-Residential SCO[1]	NY Part375-Restricted Residential SCO[1]	CP PCB Guidance[2] Greater 1 ft								
PCBs												
Aroclor 1268	11100-14-4	NC	NC	10	0.041 U	0.037 U	0.043 U	0.04 U	0.04 U	0.053 U	0.036 U	0.042 U
Aroclor-1016	12674-11-2	NC	NC	10	0.041 U	0.037 U	0.043 U	0.04 U	0.04 U	0.053 U	0.036 U	0.042 U
Aroclor-1221	11104-28-2	NC	NC	10	0.041 U	0.037 U	0.043 U	0.04 U	0.04 U	0.053 U	0.036 U	0.042 U
Aroclor-1232	11141-16-5	NC	NC	10	0.041 U	0.037 U	0.043 U	0.04 U	0.04 U	0.053 U	0.036 U	0.042 U
Aroclor-1242	53469-21-9	NC	NC	10	0.041 U	0.037 U	0.043 U	0.04 U	0.04 U	0.053 U	0.036 U	0.042 U
Aroclor-1248	12672-29-6	NC	NC	10	0.041 U	0.037 U	0.043 U	0.04 U	0.04 U	0.053 U	0.036 U	0.042 U
Aroclor-1254	11097-69-1	NC	NC	10	0.041 U	0.037 U	0.043 U	0.04 U	0.04 U	0.053 U	0.036 U	0.042 U
Aroclor-1260	11096-82-5	NC	NC	NC	0.041 U	0.037 U	0.043 U	0.04 U	0.04 U	0.053 U	0.036 U	0.042 U
Aroclor-1262	37324-23-5	NC	NC	NC	0.041 U	0.037 U	0.043 U	0.04 U	0.04 U	0.053 U	0.036 U	0.042 U
Total PCB	NA	1	1	10	ND	ND	0.043 U	ND	ND	ND	ND	ND

Notes:
mg/kg - milligrams per kilogram
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
R - result rejected during validation due to QA/QC excursion
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[2] - Criteria from the CP-51, Soil Cleanup Guidance.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8D - Subsurface Soil Results Compared to Restricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SB-117	SB-117	SB-118	SB-119	SB-120	SB-121	SB-122	SB-123
				Sample ID	DUP-003-030216	SB-117-5.9-7-030216	SB-118-7-7.4-030216	SB-119-4.5-6-031116	SB-120-6.5-7.4-031416	SB-121-2-2.5-031416	SB-122-7-8-022916	SB-123-6-7-031416
				Sample Date	3/2/2016	3/2/2016	3/2/2016	3/11/2016	3/14/2016	3/14/2016	2/29/2016	3/14/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	2127346	2127346	2127346	2130903	2130903	2130903	2127346	2130903
				Start Depth	5.9	5.9	7	4.5	6.5	2	7	6
				End Depth	7	7	7.4	6	7.4	2.5	8	7
Chemical Name	CAS #	NY Part375-Residential SCO[1]	NY Part375-Restricted Residential SCO[1]	CP PCB Guidance[2] Greater 1 ft								
PCBs												
Aroclor 1268	11100-14-4	NC	NC	10	0.043 U	0.044 U	0.039 U	0.04 U	0.049 U	0.042 U	0.038 U	0.038 U
Aroclor-1016	12674-11-2	NC	NC	10	0.043 U	0.044 U	0.039 U	0.04 U	0.049 U	0.042 U	0.038 U	0.038 U
Aroclor-1221	11104-28-2	NC	NC	10	0.043 U	0.044 U	0.039 U	0.04 U	0.049 U	0.042 U	0.038 U	0.038 U
Aroclor-1232	11141-16-5	NC	NC	10	0.043 U	0.044 U	0.039 U	0.04 U	0.049 U	0.042 U	0.038 U	0.038 U
Aroclor-1242	53469-21-9	NC	NC	10	0.043 U	0.044 U	0.039 U	0.04 U	0.049 U	0.042 U	0.038 U	0.038 U
Aroclor-1248	12672-29-6	NC	NC	10	0.043 U	0.044 U	0.039 U	0.04 U	0.049 U	0.042 U	0.038 U	0.038 U
Aroclor-1254	11097-69-1	NC	NC	10	0.043 U	0.044 U	0.039 U	0.04 U	0.049 U	0.042 U	0.038 U	0.038 U
Aroclor-1260	11096-82-5	NC	NC	NC	0.043 U	0.044 U	0.039 U	0.04 U	0.049 U	0.042 U	0.038 U	0.038 U
Aroclor-1262	37324-23-5	NC	NC	NC	0.043 U	0.044 U	0.039 U	0.04 U	0.049 U	0.042 U	0.038 U	0.038 U
Total PCB	NA	1	1	10	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
mg/kg - milligrams per kilogram
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
R - result rejected during validation due to QA/QC excursion
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[2] - Criteria from the CP-51, Soil Cleanup Guidance.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8D - Subsurface Soil Results Compared to Restricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SB-125	SB-126	SB-128	SB-129	SB-130	SB-131	SB-132
				Sample ID	SB-125-5-7-031416	SB-126-1.5-2-031516	SB-128-6-6.5-031516	SB-129-4.6-6.6-031516	SB-130-4-4.5-042216	SB-131-8-10-031116	SB-132-4.5-5-041516
				Sample Date	3/14/2016	3/15/2016	3/15/2016	3/15/2016	4/22/2016	3/11/2016	4/15/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	2130903	2130900	2130900	2130900	2139069	2130903	2140071
				Start Depth	5	1.5	6	4.6	4	8	4.5
				End Depth	7	2	6.5	6.6	4.5	10	5
Chemical Name	CAS #	NY Part375-Residential SCO[1]	NY Part375-Restricted Residential SCO[1]	CP PCB Guidance[2] Greater 1 ft							
PCBs											
Aroclor 1268	11100-14-4	NC	NC	10	0.04 U	0.038 U	0.049 U	0.04 U	NA	0.039 U	0.04 U
Aroclor-1016	12674-11-2	NC	NC	10	0.04 U	0.038 U	0.049 U	0.04 U	0.062 U	0.039 U	0.04 U
Aroclor-1221	11104-28-2	NC	NC	10	0.04 U	0.038 U	0.049 U	0.04 U	0.062 U	0.039 U	0.04 U
Aroclor-1232	11141-16-5	NC	NC	10	0.04 U	0.038 U	0.049 U	0.04 U	0.062 U	0.039 U	0.04 U
Aroclor-1242	53469-21-9	NC	NC	10	0.04 U	0.038 U	0.049 U	0.04 U	0.062 U	0.039 U	0.04 U
Aroclor-1248	12672-29-6	NC	NC	10	0.04 U	0.038 U	0.049 U	0.04 U	0.062 U	0.039 U	0.04 U
Aroclor-1254	11097-69-1	NC	NC	10	0.04 U	0.016 J	0.049 U	0.04 U	0.062 U	0.039 U	0.04 U
Aroclor-1260	11096-82-5	NC	NC	NC	0.04 U	0.038 U	0.049 U	0.04 U	0.025 J	0.039 U	0.04 U
Aroclor-1262	37324-23-5	NC	NC	NC	0.04 U	0.038 U	0.049 U	0.04 U	NA	0.039 U	0.04 U
Total PCB	NA	1	1	10	ND	0.016 J	ND	ND	0.025 J	ND	ND

Notes:
mg/kg - milligrams per kilogram
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
R - result rejected during validation due to QA/QC excursion
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[2] - Criteria from the CP-51, Soil Cleanup Guidance.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8D - Subsurface Soil Results Compared to Restricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SB-133	SB-134	SB-135	SB-136	SB-137	SB-138	SB-139	SB-141
				Sample ID	SB-133-4.5-5-041416	SB-134-10-11-031516	SB-135-8-9-041516	SB-136-5-7-031116	SB-137-6-8-031116	SB-138-4-4.8-030116	SB-139-8-9.7-030116	SB-141-7-8-030116
				Sample Date	4/14/2016	3/15/2016	4/15/2016	3/11/2016	3/11/2016	3/1/2016	3/1/2016	3/1/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	2139069	2130900	2139069	2130903	2130903	2127346	2127346	2127346
				Start Depth	4.5	10	8	5	6	4	8	7
				End Depth	5	11	9	7	8	4.8	9.7	8
Chemical Name	CAS #	NY Part375-Residential SCO[1]	NY Part375-Restricted Residential SCO[1]	CP PCB Guidance[2] Greater 1 ft								
PCBs												
Aroclor 1268	11100-14-4	NC	NC	10	NA	0.039 U	NA	0.039 U	0.04 U	0.039 U	0.039 U	0.038 U
Aroclor-1016	12674-11-2	NC	NC	10	0.074 U	0.039 U	0.049 U	0.039 U	0.04 U	0.039 U	0.039 U	0.038 U
Aroclor-1221	11104-28-2	NC	NC	10	0.074 U	0.039 U	0.049 U	0.039 U	0.04 U	0.039 U	0.039 U	0.038 U
Aroclor-1232	11141-16-5	NC	NC	10	0.074 U	0.039 U	0.049 U	0.039 U	0.04 U	0.039 U	0.039 U	0.038 U
Aroclor-1242	53469-21-9	NC	NC	10	0.074 U	0.039 U	0.049 U	0.039 U	0.04 U	0.039 U	0.039 U	0.038 U
Aroclor-1248	12672-29-6	NC	NC	10	0.074 U	0.039 U	0.049 U	0.039 U	0.04 U	0.039 U	0.039 U	0.038 U
Aroclor-1254	11097-69-1	NC	NC	10	0.074 U	0.039 U	0.049 U	0.039 U	0.04 U	0.039 U	0.039 U	0.038 U
Aroclor-1260	11096-82-5	NC	NC	NC	0.074 U	0.039 U	0.049 U	0.039 U	0.04 U	0.039 U	0.039 U	0.038 U
Aroclor-1262	37324-23-5	NC	NC	NC	NA	0.039 U	NA	0.039 U	0.04 U	0.039 U	0.039 U	0.038 U
Total PCB	NA	1	1	10	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
mg/kg - milligrams per kilogram
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
R - result rejected during validation due to QA/QC excursion
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[2] - Criteria from the CP-51, Soil Cleanup Guidance.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8D - Subsurface Soil Results Compared to Restricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SB-142	SB-143[BB]	SB-144	SB-145	SB-147	SB-148	SB-150
				Sample ID	SB-142-11-12-030116	SB-143-3-4-030116	SB-144-1-1.8-030116	SB-145-25.4-26.1-030916	SB-147-10-11.4-042216	SB-148-8-9.2-040616	SB-150-3-4-022916
				Sample Date	3/1/2016	3/1/2016	3/1/2016	3/9/2016	4/22/2016	4/7/2016	2/29/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	2127346	2127346	2127346	2130254	2139069	2136537	2127346
				Start Depth	11	3	1	25.4	10	8	3
				End Depth	12	4	1.8	26.1	11	9.2	4
Chemical Name	CAS #	NY Part375-Residential SCO[1]	NY Part375-Restricted Residential SCO[1]	CP PCB Guidance[2] Greater 1 ft							
PCBs											
Aroclor 1268	11100-14-4	NC	NC	10	0.04 U	0.043 U	0.039 U	0.043 U	NA	0.043 UJ	0.041 U
Aroclor-1016	12674-11-2	NC	NC	10	0.04 U	0.043 U	0.039 U	0.043 U	0.045 U	0.043 UJ	0.041 U
Aroclor-1221	11104-28-2	NC	NC	10	0.04 U	0.043 U	0.039 U	0.043 U	0.045 U	0.043 UJ	0.041 U
Aroclor-1232	11141-16-5	NC	NC	10	0.04 U	0.043 U	0.039 U	0.043 U	0.045 U	0.043 UJ	0.041 U
Aroclor-1242	53469-21-9	NC	NC	10	0.04 U	0.043 U	0.039 U	0.043 U	0.045 U	0.043 UJ	0.041 U
Aroclor-1248	12672-29-6	NC	NC	10	0.04 U	0.043 U	0.039 U	0.043 U	0.045 U	0.043 UJ	0.041 U
Aroclor-1254	11097-69-1	NC	NC	10	0.04 U	0.043 U	0.039 U	0.043 U	0.045 U	0.043 UJ	0.041 U
Aroclor-1260	11096-82-5	NC	NC	NC	0.04 U	0.043 U	0.039 U	0.043 U	0.023 J	0.043 UJ	0.041 U
Aroclor-1262	37324-23-5	NC	NC	NC	0.04 U	0.043 U	0.039 U	0.043 U	NA	0.043 UJ	0.041 U
Total PCB	NA	1	1	10	ND	ND	ND	ND	0.23 J	0.043 UJ	ND

Notes:
mg/kg - milligrams per kilogram
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
R - result rejected during validation due to QA/QC excursion
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[2] - Criteria from the CP-51, Soil Cleanup Guidance.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8D - Subsurface Soil Results Compared to Restricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SB-152	SB-154	SB-155	SB-156	SB-158	SB-159	SB-160
				Sample ID	SB-152-6-7-030316	SB-154-15-17-030316	SB-155-2-3-031016	SB-156-16-17-030916	SB-158-16-17.5-030816	SB-159-17-18-030916	SB-160-4-5-030916
				Sample Date	3/3/2016	3/3/2016	3/10/2016	3/9/2016	3/8/2016	3/9/2016	3/9/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	2129473	2129473	2130254	2130254	2130254	2130254	2130254
				Start Depth	6	15	2	16	16	17	4
				End Depth	7	17	3	17	17.5	18	5
Chemical Name	CAS #	NY Part375-Residential SCO[1]	NY Part375-Restricted Residential SCO[1]	CP PCB Guidance[2] Greater 1 ft							
PCBs											
Aroclor 1268	11100-14-4	NC	NC	10	0.038 U	0.04 U	NA	0.034 U	0.035 U	0.04 U	0.037 U
Aroclor-1016	12674-11-2	NC	NC	10	0.038 U	0.04 U	0.041 U	0.034 U	0.035 U	0.04 U	0.037 U
Aroclor-1221	11104-28-2	NC	NC	10	0.038 U	0.04 U	0.041 U	0.034 U	0.035 U	0.04 U	0.037 U
Aroclor-1232	11141-16-5	NC	NC	10	0.038 U	0.04 U	0.041 U	0.034 U	0.035 U	0.04 U	0.037 U
Aroclor-1242	53469-21-9	NC	NC	10	0.038 U	0.04 U	0.041 U	0.034 U	0.035 U	0.04 U	0.037 U
Aroclor-1248	12672-29-6	NC	NC	10	0.038 U	0.04 U	0.041 U	0.034 U	0.035 U	0.04 U	0.037 U
Aroclor-1254	11097-69-1	NC	NC	10	0.038 U	0.04 U	0.041 U	0.034 U	0.035 U	0.04 U	0.037 U
Aroclor-1260	11096-82-5	NC	NC	NC	0.038 U	0.04 U	0.041 U	0.034 U	0.035 U	0.04 U	0.037 U
Aroclor-1262	37324-23-5	NC	NC	NC	0.038 U	0.04 U	NA	0.034 U	0.035 U	0.04 U	0.037 U
Total PCB	NA	1	1	10	ND	ND	0.041 U	ND	ND	ND	ND

Notes:
mg/kg - milligrams per kilogram
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
R - result rejected during validation due to QA/QC excursion
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[2] - Criteria from the CP-51, Soil Cleanup Guidance.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8D - Subsurface Soil Results Compared to Restricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SB-161	SB-163	SB-166	SB-167	SB-171	SB-172	SB-173
				Sample ID	SB-161-24-26-030816	SB-163-13.5-16-030816	SB-166-13-15-030816	SB-167-18-19-030716	SB-171-15-16-022916	SB-172-8.8-9.6-082217	SB-173-12-15-082117
				Sample Date	3/8/2016	3/8/2016	3/8/2016	3/7/2016	2/29/2016	8/22/2017	8/21/2017
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	2130254	2130254	2130254	2129473	2127346	2258101	2258101
				Start Depth	24	13.5	13	18	15	8.8	12
				End Depth	26	16	15	19	16	9.6	15
Chemical Name	CAS #	NY Part375-Residential SCO[1]	NY Part375-Restricted Residential SCO[1]	CP PCB Guidance[2] Greater 1 ft							
PCBs											
Aroclor 1268	11100-14-4	NC	NC	10	0.036 U	0.039 U	0.04 U	0.04 U	0.039 U	0.036 U	0.038 U
Aroclor-1016	12674-11-2	NC	NC	10	0.036 U	0.039 U	0.04 U	0.04 U	0.039 U	0.036 U	0.038 U
Aroclor-1221	11104-28-2	NC	NC	10	0.036 U	0.039 U	0.04 U	0.04 U	0.039 U	0.036 U	0.038 U
Aroclor-1232	11141-16-5	NC	NC	10	0.036 U	0.039 U	0.04 U	0.04 U	0.039 U	0.036 U	0.038 U
Aroclor-1242	53469-21-9	NC	NC	10	0.036 U	0.039 U	0.04 U	0.04 U	0.039 U	0.036 U	0.038 U
Aroclor-1248	12672-29-6	NC	NC	10	0.036 U	0.039 U	0.04 U	0.04 U	0.039 U	0.036 U	0.038 U
Aroclor-1254	11097-69-1	NC	NC	10	0.036 U	0.039 U	0.04 U	0.04 U	0.039 U	0.036 U	0.038 U
Aroclor-1260	11096-82-5	NC	NC	NC	0.036 U	0.039 U	0.04 U	0.04 U	0.039 U	0.036 U	0.038 U
Aroclor-1262	37324-23-5	NC	NC	NC	0.036 U	0.039 U	0.04 U	0.04 U	0.039 U	0.036 U	0.038 U
Total PCB	NA	1	1	10	ND	ND	ND	ND	ND	0.036 U	0.038 U

Notes:
mg/kg - milligrams per kilogram
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
R - result rejected during validation due to QA/QC excursion
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[2] - Criteria from the CP-51, Soil Cleanup Guidance.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8D - Subsurface Soil Results Compared to Restricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SB-174	SB-176	SB-179	SB-180	SB-TP-131	SB-TP-139[BB]	SB-TP-139[BB]
				Sample ID	SB-174-12.5-15-082117	SB-176-6-7-041216	SB-179-6.2-7-030416	SB-180-14-14.7-030416	SB-TP-131-5-7-031516	DUP-001-030716	SB-TP-139-12-14-030716
				Sample Date	8/21/2017	4/12/2016	3/4/2016	3/4/2016	3/15/2016	3/7/2016	3/7/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	2258101	2136537	2129473	2129473	2130900	2129473	2129473
				Start Depth	12.5	6	6.2	14	5	12	12
				End Depth	15	7	7	14.7	7	14	14
Chemical Name	CAS #	NY Part375-Residential SCO[1]	NY Part375-Restricted Residential SCO[1]	CP PCB Guidance[2] Greater 1 ft							
PCBs											
Aroclor 1268	11100-14-4	NC	NC	10	0.043 U	0.04 U	0.045 U	0.04 U	0.042 U	0.04 UJ	0.038 U
Aroclor-1016	12674-11-2	NC	NC	10	0.043 U	0.04 U	0.045 U	0.04 U	0.042 U	0.04 UJ	0.038 U
Aroclor-1221	11104-28-2	NC	NC	10	0.043 U	0.04 U	0.045 U	0.04 U	0.042 U	0.04 UJ	0.038 U
Aroclor-1232	11141-16-5	NC	NC	10	0.043 U	0.04 U	0.045 U	0.04 U	0.042 U	0.04 UJ	0.038 U
Aroclor-1242	53469-21-9	NC	NC	10	0.043 U	0.04 U	0.045 U	0.04 U	0.042 U	0.04 UJ	0.038 U
Aroclor-1248	12672-29-6	NC	NC	10	0.043 U	0.04 U	0.045 U	0.04 U	0.042 U	0.04 UJ	0.038 U
Aroclor-1254	11097-69-1	NC	NC	10	0.043 U	0.04 U	0.045 U	0.04 U	0.042 U	0.04 UJ	0.038 U
Aroclor-1260	11096-82-5	NC	NC	NC	0.043 U	0.04 U	0.045 U	0.04 U	0.042 U	0.04 UJ	0.038 U
Aroclor-1262	37324-23-5	NC	NC	NC	0.043 U	0.04 U	0.045 U	0.04 U	0.042 U	0.04 UJ	0.038 U
Total PCB	NA	1	1	10	0.043 U	ND	ND	ND	ND	ND	ND

Notes:
mg/kg - milligrams per kilogram
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
R - result rejected during validation due to QA/QC excursion
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[2] - Criteria from the CP-51, Soil Cleanup Guidance.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8D - Subsurface Soil Results Compared to Restricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SB-TP-144	SB-TP-147	TP-100	TP-103	TP-103	TP-104	TP-105	TP-107
				Sample ID	SB-TP-144-4-6-030916	SB-TP-147-16-18-031016	TP-100-2-4-012116	DUP-008-012116	TP-103-0-2-012116	TP-104-0-2-012216	TP-105-4.5-6.5-012216	TP-107-0-2-012216
				Sample Date	3/9/2016	3/10/2016	1/21/2016	1/21/2016	1/21/2016	1/22/2016	1/22/2016	1/22/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	2130254	2130254	R1600468	R1600468	R1600468	R1600468	R1600468	R1600468
				Start Depth	4	16	2	0	0	0	4.5	0
				End Depth	6	18	4	2	2	2	6.5	2
Chemical Name	CAS #	NY Part375-Residential SCO[1]	NY Part375-Restricted Residential SCO[1]	CP PCB Guidance[2] Greater 1 ft								
PCBs												
Aroclor 1268	11100-14-4	NC	NC	10	0.037	0.034 U	0.045 U	0.037 U	0.036 U	0.042 U	0.047 U	0.043 U
Aroclor-1016	12674-11-2	NC	NC	10	0.037 U	0.034 U	0.045 U	0.037 U	0.036 U	0.042 U	0.047 U	0.043 U
Aroclor-1221	11104-28-2	NC	NC	10	0.037 U	0.034 U	0.091 U	0.075 U	0.074 U	0.086 U	0.095 U	0.088 U
Aroclor-1232	11141-16-5	NC	NC	10	0.037 U	0.034 U	0.045 U	0.037 U	0.036 U	0.042 U	0.047 U	0.043 U
Aroclor-1242	53469-21-9	NC	NC	10	0.037 U	0.034 U	0.045 U	0.037 U	0.036 U	0.042 U	0.047 U	0.043 U
Aroclor-1248	12672-29-6	NC	NC	10	0.037 U	0.034 U	0.045 U	0.037 U	0.036 U	0.042 U	0.047 U	0.043 U
Aroclor-1254	11097-69-1	NC	NC	10	0.037 U	0.034 U	0.045 U	0.037 U	0.036 U	0.042 U	0.047 U	0.043 U
Aroclor-1260	11096-82-5	NC	NC	NC	0.037 U	0.034 U	0.045 U	0.037 U	0.036 U	0.042 U	0.047 U	0.056
Aroclor-1262	37324-23-5	NC	NC	NC	0.037	0.034 U	NA	NA	NA	NA	NA	NA
Total PCB	NA	1	1	10	0.037	ND	ND	ND	ND	ND	ND	0.056

Notes:
mg/kg - milligrams per kilogram
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
R - result rejected during validation due to QA/QC excursion
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[2] - Criteria from the CP-51, Soil Cleanup Guidance.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8D - Subsurface Soil Results Compared to Restricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	TP-108	TP-109[BB]	TP-112	TP-113	TP-114	TP-116	TP-117	TP-119
				Sample ID	TP-108-0-1.5-012516	TP-109-4-4.5-012516	TP-112-3.5-4-012516	TP-113-1.5-2-012516	TP-114-4-5-012616	TP-116-7-8-011516	TP-117-1.5-2-011516	TP-119-5-6-012616
				Sample Date	1/25/2016	1/25/2016	1/25/2016	1/25/2016	1/26/2016	1/15/2016	1/15/2016	1/26/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	R1600634	R1600634	R1600634	R1600634	R1600634	R1600468	R1600468	R1600634
				Start Depth	0	4	3.5	1.5	4	7	1.5	5
				End Depth	1.5	4.5	4	2	5	8	2	6
Chemical Name	CAS #	NY Part375-Residential SCO[1]	NY Part375-Restricted Residential SCO[1]	CP PCB Guidance[2] Greater 1 ft								
PCBs												
Aroclor 1268	11100-14-4	NC	NC	10	0.042 U	0.042 U	0.043 U	0.036 U	0.049U	0.040 U	0.041 U	0.049 U
Aroclor-1016	12674-11-2	NC	NC	10	0.042 U	0.042 U	0.043 U	0.036 U	0.049U	0.040 U	0.041 U	0.049 U
Aroclor-1221	11104-28-2	NC	NC	10	0.085 U	0.084 U	0.087 U	0.073 U	0.099 U	0.082 U	0.083 U	0.100 U
Aroclor-1232	11141-16-5	NC	NC	10	0.042 U	0.042 U	0.043 U	0.036 U	0.049U	0.040 U	0.041 U	0.049 U
Aroclor-1242	53469-21-9	NC	NC	10	0.042 U	0.042 U	0.043 U	0.036 U	0.049U	0.040 U	0.041 U	0.049 U
Aroclor-1248	12672-29-6	NC	NC	10	0.042 U	0.042 U	0.043 U	0.036 U	0.049U	0.040 U	0.041 U	0.049 U
Aroclor-1254	11097-69-1	NC	NC	10	0.042 U	0.042 U	0.043 U	0.036 U	0.049U	0.040 U	0.041 U	0.049 U
Aroclor-1260	11096-82-5	NC	NC	NC	0.042 U	0.042 U	0.043 U	0.036 U	0.049U	0.040 U	0.041 U	0.049 U
Aroclor-1262	37324-23-5	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
Total PCB	NA	1	1	10	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
mg/kg - milligrams per kilogram
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
R - result rejected during validation due to QA/QC excursion
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[2] - Criteria from the CP-51, Soil Cleanup Guidance.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8D - Subsurface Soil Results Compared to Restricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	TP-120	TP-120	TP-122	TP-123	TP-124	TP-126	TP-127	TP-129
				Sample ID	DUP-009-012616	TP-120-4-4.5-012616	TP-122-7-8-012716	TP-123-4.5-5-012616	TP-124-7.5-8-012616	TP-126-2-3-012716	TP-127-8-8.5-012716	DUP-010-012816
				Sample Date	1/26/2016	1/26/2016	1/27/2016	1/26/2016	1/26/2016	1/27/2016	1/27/2016	1/28/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	R1600634	R1600634	R1600634	R1600634	R1600634	R1600634	R1600634	R1600810
				Start Depth	4	4	7	4.5	7.5	2	8	4
				End Depth	4.5	4.5	8	5	8	3	8.5	4.5
Chemical Name	CAS #	NY Part375-Residential SCO[1]	NY Part375-Restricted Residential SCO[1]	CP PCB Guidance[2] Greater 1 ft								
PCBs												
Aroclor 1268	11100-14-4	NC	NC	10	0.041 U	0.041 U	0.042 U	0.040 U	0.041 U	0.048 U	0.057 U	0.044 U
Aroclor-1016	12674-11-2	NC	NC	10	0.041 U	0.041 U	0.042 U	0.040 U	0.041 U	0.048 U	0.057 U	0.044 U
Aroclor-1221	11104-28-2	NC	NC	10	0.084 U	0.083 U	0.084 U	0.082 U	0.084 U	0.098 U	0.120 U	0.089 U
Aroclor-1232	11141-16-5	NC	NC	10	0.041 U	0.041 U	0.042 U	0.040 U	0.041 U	0.048 U	0.057 U	0.044 U
Aroclor-1242	53469-21-9	NC	NC	10	0.041 U	0.041 U	0.042 U	0.040 U	0.041 U	0.048 U	0.057 U	0.044 U
Aroclor-1248	12672-29-6	NC	NC	10	0.041 U	0.041 U	0.042 U	0.040 U	0.041 U	0.048 U	0.057 U	0.044 U
Aroclor-1254	11097-69-1	NC	NC	10	0.041 U	0.041 U	0.042 U	0.040 U	0.041 U	0.048 U	0.057 U	0.044 U
Aroclor-1260	11096-82-5	NC	NC	NC	0.041 U	0.041 U	0.042 U	0.040 U	0.041 U	0.048 U	0.057 U	0.044 U
Aroclor-1262	37324-23-5	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
Total PCB	NA	1	1	10	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
mg/kg - milligrams per kilogram
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
R - result rejected during validation due to QA/QC excursion
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[2] - Criteria from the CP-51, Soil Cleanup Guidance.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8D - Subsurface Soil Results Compared to Restricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	TP-129	TP-130	TP-132	TP-135	TP-137	TP-138	TP-140[BB]	TP-141
				Sample ID	TP-129-4-4.5-012816	TP-130-9.5-10-012816	TP-132-3-3.5-012816	TP-135-2-3-012916	TP-137-9.5-10-012916	TP-138-5-6-011516	TP-140-2.5-3-011416	TP-141-4-5-011416
				Sample Date	1/28/2016	1/28/2016	1/28/2016	1/29/2016	1/29/2016	1/15/2016	1/14/2016	1/14/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	R1600810	R1600810	R1600810	R1600810	R1600810	R1600468	R1600423	R1600423
				Start Depth	4	9.5	3	2	9.5	5	2.5	4
				End Depth	4.5	10	3.5	3	10	6	3	5
Chemical Name	CAS #	NY Part375-Residential SCO[1]	NY Part375-Restricted Residential SCO[1]	CP PCB Guidance[2] Greater 1 ft								
PCBs												
Aroclor 1268	11100-14-4	NC	NC	10	0.045 U	0.044 U	0.040 U	0.040 U	0.041 U	0.040 U	0.045 U	0.038 U
Aroclor-1016	12674-11-2	NC	NC	10	0.045 U	0.044 U	0.040 U	0.040 U	0.041 U	0.040 U	0.045 U	0.038 U
Aroclor-1221	11104-28-2	NC	NC	10	0.091 U	0.090 U	0.082 U	0.081 U	0.083 U	0.081 U	0.081 U	0.077 U
Aroclor-1232	11141-16-5	NC	NC	10	0.045 U	0.044 U	0.040 U	0.040 U	0.041 U	0.040 U	0.045 U	0.038 U
Aroclor-1242	53469-21-9	NC	NC	10	0.045 U	0.044 U	0.040 U	0.040 U	0.041 U	0.040 U	0.045 U	0.038 U
Aroclor-1248	12672-29-6	NC	NC	10	0.045 U	0.044 U	0.040 U	0.040 U	0.041 U	0.040 U	0.045 U	0.038 U
Aroclor-1254	11097-69-1	NC	NC	10	0.045 U	0.044 U	0.040 U	0.040 U	0.041 U	0.040 U	0.045 U	0.038 U
Aroclor-1260	11096-82-5	NC	NC	NC	0.045 U	0.044 U	0.023 J	0.040 U	0.041 U	0.040 U	0.045 U	0.038 U
Aroclor-1262	37324-23-5	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA	NA
Total PCB	NA	1	1	10	ND	ND	0.023 J	ND	ND	ND	ND	ND

Notes:
mg/kg - milligrams per kilogram
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
R - result rejected during validation due to QA/QC excursion
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[2] - Criteria from the CP-51, Soil Cleanup Guidance.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8D - Subsurface Soil Results Compared to Restricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	TP-142	TP-143	TP-148	TP-149[BB]	TP-150[BB]	TP-151	TP-152
				Sample ID	TP-142-0-1-011516	TP-143-4-6.5-011416	TP-148-2-2.5-012516	TP-149-6-8-011416	TP-150-4-6-011316	TP-151-2-4-011316	TP-152-2.5-3-012916
				Sample Date	1/15/2016	1/14/2016	1/25/2016	1/14/2016	1/13/2016	1/13/2016	1/29/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	R1600468	R1600423	R1600634	R1600423	R1600375	R1600375	R1600810
				Start Depth	0	4	2	6	4	2	2.5
				End Depth	1	6.5	2.5	8	6	4	3
Chemical Name	CAS #	NY Part375-Residential SCO[1]	NY Part375-Restricted Residential SCO[1]	CP PCB Guidance[2] Greater 1 ft							
PCBs											
Aroclor 1268	11100-14-4	NC	NC	10	0.041 U	0.057 U	0.040 U	0.046 U	0.044 U	0.038 U	0.042 U
Aroclor-1016	12674-11-2	NC	NC	10	0.041 U	0.057 U	0.040 U	0.046 U	0.044 U	0.038 U	0.042 U
Aroclor-1221	11104-28-2	NC	NC	10	0.082 U	0.120 U	0.081 U	0.094 U	0.090 U	0.077 U	0.085 U
Aroclor-1232	11141-16-5	NC	NC	10	0.041 U	0.057 U	0.040 U	0.046 U	0.044 U	0.038 U	0.042 U
Aroclor-1242	53469-21-9	NC	NC	10	0.041 U	0.057 U	0.040 U	0.046 U	0.044 U	0.038 U	0.042 U
Aroclor-1248	12672-29-6	NC	NC	10	0.041 U	0.057 U	0.040 U	0.046 U	0.044 U	0.038 U	0.042 U
Aroclor-1254	11097-69-1	NC	NC	10	0.041 U	0.057 U	0.040 U	0.046 U	0.044 U	0.038 U	0.042 U
Aroclor-1260	11096-82-5	NC	NC	NC	0.041 U	0.057 U	0.040 U	0.046 U	0.044 U	0.038 U	0.042 U
Aroclor-1262	37324-23-5	NC	NC	NC	NA	NA	NA	NA	NA	NA	NA
Total PCB	NA	1	1	10	ND	ND	ND	ND	ND	ND	ND

Notes:
mg/kg - milligrams per kilogram
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
R - result rejected during validation due to QA/QC excursion
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.
[2] - Criteria from the CP-51, Soil Cleanup Guidance.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8E - Subsurface Soil Results Compared to Restricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				fill							fill	fill	fill				
			Sample Location	OVR-100	OVR-107	OVR-108	OVR-109	OVR-109	OVR-116	OVR-117	OVR-118	SB-100	SB-101	SB-103	SB-104	SB-105
			Sample ID	OVR-100-6-7-04222016	OVR-107-10-11-041216	OVR-108-4.1-5.4-041316	DUP-004-041116	OVR-109-10-11.8-041116	OVR-116-10-11.9-040116	OVR-117-7-7.6-040716	OVR-118-0.5-1-041316	SB-100-9-10-031016	SB-101-12.5-14-031016	SB-103-4.8-5.8-030416	SB-104-12-13-030316	SB-105-11-12-031016
			Sample Date	4/22/2016	4/12/2016	4/13/2016	4/11/2016	4/11/2016	4/1/2016	4/7/2016	4/13/2016	3/10/2016	3/10/2016	3/4/2016	3/3/2016	3/10/2016
			Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			Lab SDG	R1603557	R1603190	R1603557	R1603190	R1603190	R1603031	R1603190	R1603557	R1602058	R1602058	R1601955	R1601955	R1602058
			Start Depth	6	10	4.1	10	10	10	7	0.5	9	12.5	4.8	12	11
			End Depth	7	11	5.4	11.8	11.8	11.9	7.6	1	10	14	5.8	13	12
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]													
Inorganics																
Aluminum	7429-90-5	NC	NC	8,060 J	8,080	14,900 J	5,630	6,760	6,330	12,900	6,950 J	6,270	6,740	7,650	5,170	13,600
Antimony	7440-36-0	NC	NC	7.8 UJ	7.3 UJ	7.8 UJ	7.6 UJ	7.2 UJ	7.1 U	6.7 UJ	0.614 J	8.9 UJ	7.9 UJ	7.6 UJ	7.3 UJ	10.2 UJ
Arsenic	7440-38-2	16	16	12.2 J	5.8	6.3	7	4.9	4.6	46.6	12 J	12.5	3.8	58.3	3.5	85.4
Barium	7440-39-3	350	400	110	49.8	135	36.1	39.8	43.6	55.7	51.9	138	50.1	130	31.7	87.5
Beryllium	7440-41-7	14	72	0.689	0.374	0.828	0.28 J	0.347 J	0.331 J	0.156 J	0.58	0.665	0.324 J	0.758	0.257 J	0.69
Cadmium	7440-43-9	2.5	4.3	0.442 J	0.29 J	0.686	0.191 J	0.359 J	0.591 U	0.111 J	1.2	0.744 U	0.658 U	0.467 J	0.11 J	0.755 J
Calcium	7440-70-2	NC	NC	15,400 J	4,970	3,290	1350	1,960	1,960	1,280	41,200 J	17,600	35,300	12,700	1,250	25,600
Chromium	7440-47-3	22*	110*	14.5	13.6	20.7	9.7	11.7	9.9	9.8	7	12.8	9.8	21.8	7.5	20.5
Cobalt	7440-48-4	30[CP]	NC	9.4	8.8	10.8	5.6 J	8.9	7.7	2.6 J	32.7	7 J	5.4 J	17.2	5.2 J	24.3
Copper	7440-50-8	270	270	55.9 J	16.7	14.9 J	10.7	14.9	11.7	6.6	88.2 J	50.8	10.1	107	12.3	41.5
Cyanide	57-12-5	27	27	0.12 U	0.04 J	0.13 U	0.02 J	0.1 U	0.11 U	0.083 J	0.11 U	0.13 U	0.08 J	0.22	0.11 U	0.11 J
Iron	7439-89-6	2,000[CP]	NC	23,200	21,200	34,800	16,200	17,800	15,400	13,200	17,600	10,400	18,000	40,200	14,700	91,100
Lead	7439-92-1	400	400	114 J	9.8	13.9 J	6.5	9.2	8.9	36.8	147 J	685	23.5	120 J	7.2 J	8.5 U
Magnesium	7439-95-4	NC	NC	6,850	4,320	4,070	1,990	2,470	2,590	1,030	19,100	7,100	4,080	6,920	1,630	6,450
Manganese	7439-96-5	2,000	2,000	253 J	173	183 J	188	404	150	85.7	358	201	180	244	129	547
Mercury	7439-97-6	0.81	0.81	0.768	0.01 J	0.032 J+	0.007 J	0.014 J	0.013 J	0.131	0.362 J+	1.2	0.073	0.31	0.038 U	0.069
Nickel	7440-02-0	140	310	20.4	18	24.5	14.4	18.4	15.7	1.1 J	54.7	15.9	11.7	25.6	13.6	6.8 U
Potassium	7440-09-7	NC	NC	1,350 J	936	1,060 J	731	801	809	3,350	785 J	754	921	1,190 J	780 J	1,820
Selenium	7782-49-2	36	180	1.4 J	1.2 U	1.3 UJ	1.3 U	1.2 U	1.2 U	1.1 U	0.888 J	5.1	1.3 U	1.4	1.2 U	17 U
Silver	7440-22-4	36	180	0.208 J	1.2 U	1.3 U	1.3 U	1.2 U	1.2 U	1.1 U	0.262 J	2.8	13 U	0.24 J	1.2 U	1.7 U
Sodium	7440-23-5	NC	NC	162	121 U	40.3 J	33.8 J	36.4 J	33.8 J	69.8 J	99 J	219	95.3 J	209	40.2 J	132 J
Thallium	7440-28-0	NC	NC	1.3 U	1.2 U	1.3 U	1.3 U	1.2 U	1.2 U	1.1 U	1.1 U	1.5 U	1.3 U	1.3 U	1.2 U	16.9 U
Vanadium	7440-62-2	100[CP]	NC	21.1	13.3	29.3	10.2	12.3	14.6	13.3	12.7	23.6	11.9	27.4	10.5	27.6
Zinc	7440-66-6	2,200	10,000	125 J	54.2	60.6 J	40.8	47.7	42.9	24.4	366 J	430	52.5	120 J	33.7 J	89.6

Notes:
mg/kg - milligrams per kilogram
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance,
U - Not detected at the detection limit shown
J - Estimated value
* - Hexavalent Chromium values used for conservative comparison. Results are Total Chromium.
Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyzed.
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8E - Subsurface Soil Results Compared to Restricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]	Sample Location	fill SB-106	fill SB-107	SB-108	SB-109	SB-111	SB-112	fill/bb SB-113	fill/bb SB-113[BB]	SB-113	SB-114	fill SB-115	SB-116	SB-117	SB-117	SB-119
				Sample ID	SB-106-5-6-030316	SB-107-6-7-030316	SB-108-5.8-6.4-030316	SB-109-8-9-030216	SB-111-6-7-031016	B-112-0.5-2.0-08221	DUP-002-031416	SB-113-1-2-031416	SB-113-4.5-6.5-031416	SB-114-2-2.5-030216	SB-115-5.6-6.7-030216	SB-116-5.7-6.5-030216	DUP-003-030216	SB-117-5.9-7-030216	SB-119-4.5-6-031116
				Sample Date	3/3/2016	3/3/2016	3/3/2016	3/2/2016	3/10/2016	8/22/2017	3/14/2016	3/14/2016	3/14/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/11/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	R1601955	R1601955	R1601955	R1601741	R1602058	R1707777	R1602239	R1602239	R1602239	R1601741	R1601741	R1601741	R1601741	R1601741	R1602239
				Start Depth	5	6	5.8	8	6	0.5	4.5	1	4.5	2	5.6	5.7	5.9	5.9	4.5
				End Depth	6	7	6.4	9	7	2	6.5	2	6.5	2.5	6.7	6.5	7	7	6
Inorganics																			
Aluminum	7429-90-5	NC	NC		7,170	6,670	6,880	7,480	2,340	13,400	13,300	17,200	27,600	5,670	4,160	8,420	9,010	8,420	11,600
Antimony	7440-36-0	NC	NC		7.4 UJ	7.2 UJ	7.5 UJ	7.4 UJ	6.6 UN	7.5 U	7.5 UJ	7.3 UJ	10.1 UJ	6.8 UJ	7.4 UJ	8 UJ	8.1 UJ	7.8 UJ	7.1 UJ
Arsenic	7440-38-2	16	16		8.9	3	5.1	8	7.9	11.1	6.9	5.2	46.7	113	8.1	8.6	6.4	4.4	3.1
Barium	7440-39-3	350	400		49.8	48	49.2	50.1	31	168	88.8	117	22.4	60.8	80.5	87	60.4	62	65
Beryllium	7440-41-7	14	72		0.356 J	0.25 J	0.326 J	0.405	0.139 J	0.673	0.603	0.617	1.2	0.296 J	0.135 J	0.268 J	0.47	0.429	0.536
Cadmium	7440-43-9	2.5	4.3		0.27 J	0.072 J	0.188 J	0.27 J	0.554 U	0.623 U	0.201 U	0.605 U	1.1	0.513 J	0.135 J	0.161 J	0.228 J	0.182 J	0.595 U
Calcium	7440-70-2	NC	NC		56,300	2520	14,600	7410	25,700	2,800	17,400 J	6,020 J	18,500 J	3,750	18,300	1,890	4,130	3,950	2,470 J
Chromium	7440-47-3	22*	110*		14.3	9.6	8.8	11.6	4.6	16.7	18.5	22	58.8	13.4	7	12.6	11.6	10.6	16.6
Cobalt	7440-48-4	30[CP]	NC		4 J	3.5 J	5.8 J	8.5	2.5 J	11.1	9.3	10	12.8	5.1 J	2.5 J	4.8 J	5.1 J	4.9 J	8.7
Copper	7440-50-8	270	270		25.8	12.1	13.1	20.9	4.8	19.1	11.4	13.1	30	30.6	20.2	12.5	10.7	9.5	17.1
Cyanide	57-12-5	27	27		0.19	0.04 J	0.08 J	0.03 J	0.097 U	0.06 J	0.05 J	0.05 J	0.71	0.067 J	0.42	0.22	0.07 J	0.06 J	0.04 J
Iron	7439-89-6	2,000[CP]	NC		14,000	13,500	16,200	19,900	8,210	29700	24,400	28,600	33,300	29,000	9,670	19,400	14,500	14,200	22,000
Lead	7439-92-1	400	400		31.3 J	9.5 J	29.9 J	52.7	55 U	54.9	10.4	9.8	17.2	18.6	47.9	16.5	13.2	12.1	10.2
Magnesium	7439-95-4	NC	NC		13,300	1,740	7,560	4,880	8,680	4,030	5,560	5,150 J	25,100 J	2,500	2,450	2,650	3,230	3,040	4,090 J
Manganese	7439-96-5	2,000	2,000		291	82.6	222	412	163	605	333 J	272 J	2,680 N	70.2	116	144	179	246	218 N
Mercury	7439-97-6	0.81	0.81		2.4	0.014 J	0.495	0.039	0.004 J	0.046	0.01 J	0.021 J	0.006 J	0.042	0.67	0.035 J	0.06	0.105	0.015 J
Nickel	7440-02-0	140	310		9.4	8.3	10.8	20.2	44 U	24.1	19	22.1	29.2	11.9	6	12.3	13.7	12.6	25.1
Potassium	7440-09-7	NC	NC		1,080 J	1,030 J	822 J	742	497	1,450	1,790	1,700	2,970	804	729	1,050	1,190	952	1,020
Selenium	7782-49-2	36	180		1.2 U	1.2 U	1.3 U	1.2 U	1.1 U	1.1 J	1.3 U	1.2 U	1.7 U	0.533 J	1.2 U	0.434 J	1.3 U	1.3 U	1.2 U
Silver	7440-22-4	36	180		0.172 J	0.06 J	0.088 J	0.111 J	0.629 J	1.3 U	0.101 J	0.073 J	0.185 J	0.091 J	0.086 J	0.094 J	0.067 J	1.3 U	0.071 J
Sodium	7440-23-5	NC	NC		213	58.4 J	52.5 J	38.2 J	113	226	105 J	85.3 J	548	65.3 J	56.8 J	50.5 J	56.3 J	52.9 J	43.2 J
Thallium	7440-28-0	NC	NC		0.859 J	1.2 U	1.3 U	1.2 U	1.1 U	1.3 U	1.3 U	1.2 U	1.7 U	1.1 U	1.2 U	1.3 U	1.3 U	1.3 U	1.2 U
Vanadium	7440-62-2	100[CP]	NC		20.3	14.6	13.7	14.1	8	22.5	26.5	29.8	54.9	18.6	10.5	18.5	14.5	13.3	16.2
Zinc	7440-66-6	2,200	10,000		61.2 J	39.3 J	70.5 J	66.1	18.5	88.2	45.7	48.4	135	59.8	84.6	37.1	49.5	44.2	68.3

Notes:
mg/kg - milligrams per kilogram
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance,
U - Not detected at the detection limit shown
J - Estimated value
* - Hexavalent Chromium values used for conservative comparison. Results are Total Chr
Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analy:
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8E - Subsurface Soil Results Compared to Restricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SB-121	SB-122	SB-123	SB-125	SB-126	SB-127	SB-129	SB-131	SB-132	SB-133	SB-134	SB-135	SB-136	SB-137
				Sample ID	SB-121-2-2.5-031416	SB-122-7-8-022916	SB-123-6-7-031416	SB-125-5-7-031416	SB-126-1.5-2-031516	SB-127-10-11-031116	SB-129-4.6-6.6-031516	SB-131-8-10-031116	SB-132-4.5-5-041516	SB-133-4.5-5-041416	SB-134-10-11-031516	SB-135-8-9-041516	SB-136-5-7-031116	SB-137-6-8-031116
				Sample Date	3/14/2016	2/29/2016	3/14/2016	3/14/2016	3/15/2016	3/11/2016	3/15/2016	3/11/2016	4/15/2016	4/14/2016	3/15/2016	4/15/2016	3/11/2016	3/11/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	R1602239	R1601741	R1602239	R1602239	R1602333	R1602239	R1602333	R1602239	R1603557	R1603557	R1602333	R1603557	R1602239	R1602239
				Start Depth	2	7	6	5	1.5	10	4.6	8	4.5	4.5	10	8	5	6
				End Depth	2.5	8	7	7	2	11	6.6	10	5	5	11	9	7	8
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]															
Inorganics																		
Aluminum	7429-90-5	NC	NC	5,530	8,920	5,590	10,300	5,740	5,620	10,500	7,400	9,050 J	7,360 J	6,510	4,990 J	12,000	9,220
Antimony	7440-36-0	NC	NC	7.1 UJ	7.1 UJ	7.1 UJ	7.4 UJ	7.3 UJ	8 UJ	7.4 UJ	7.2 UJ	0.28 J	2 J	7.3 UJ	2.4 J	7.1 UJ	7.4 UJ
Arsenic	7440-38-2	16	16	19.7	9.3	3.1	8.5	11.8	3.7	4.9	6.6	7.8 J	377 J	5.5	135 J	6.3	6.4
Barium	7440-39-3	350	400	67.4	50.6	48.7	80.9	79.7	25.1	82.5	42.5	62.5	174	37.5	159	98.9	49.4
Beryllium	7440-41-7	14	72	0.662	0.473	0.273 J	0.556	0.402	0.268 J	0.594	0.381	0.462	0.437 J	0.337 J	0.422	0.627	0.456
Cadmium	7440-43-9	2.5	4.3	0.591 U	0.249 J	0.593 U	0.617 U	0.608 U	0.67 U	0.62 U	0.596 U	0.341 J	0.918	0.611 U	0.49 J	0.591 U	0.616 U
Calcium	7440-70-2	NC	NC	8,480 J	1,560	1,450	1,740 J	37,000 J	5,230 J	9,570 J	3,640 J	7,250 J	20,700 J	1,440 J	22,500 J	2,260 J	2,920 J
Chromium	7440-47-3	22*	110*	11	13.2	9.2	15.2	12.1	8.6	15.3	13.9	12.3	21.8	10	13.5	17.6	13.8
Cobalt	7440-48-4	30[CP]	NC	9.1	8.3	5.7 J	9.4	4.8 J	6 J	9.8	10.5	8.8	12.8	6.9	5.1 J	10.3	9.6
Copper	7440-50-8	270	270	43.3	15.6	10	16.3	31.6	11.8	14.9	16.2	14.3 J	11,300 J	17	161 J	16.6	17.5
Cyanide	57-12-5	27	27	0.08 J	0.03 J	0.03 J	0.05 J	0.04 J	0.03 J	0.04 J	0.03 J	0.12 U	0.23	0.02 J	0.11 U	0.05 J	0.05 J
Iron	7439-89-6	2,000[CP]	NC	51,500	23,900	15,200	26,500	15,700	14,600	18,100	23,800	20,200	42,800	16,800	19,000	29,700	22,800
Lead	7439-92-1	400	400	82.2	10.6	7.5	12.1	127	6.8	29.7	9.6	14.1 J	376 J	8.6	1,080 J	11.6	11
Magnesium	7439-95-4	NC	NC	3,670 J	2,970	2,070	3,320	17,200	4,180 J	3,930	3,270 J	2,900	6,100	2,350	5,680	3,700 J	3,530 J
Manganese	7439-96-5	2,000	2,000	274 N	255	136	188 J	246 J	112 N	236 J	581 N	410 J	545 J	237 J	301 J	317 N	424 N
Mercury	7439-97-6	0.81	0.81	0.14	0.017 J	0.005 J	0.021 J	0.537	0.045 U	0.016 J	0.012 J	0.019 J	2.6 J+	0.01 J	1.8	0.019 J	0.012 J
Nickel	7440-02-0	140	310	19.5	20.9	15	21.8	12.2	14.4	20.1	22	17.9	17.5 U	16.6	10.2	25.1	23.6
Potassium	7440-09-7	NC	NC	759	912	752	973	831	813	1,290	834	813 J	923 J	753	625 J	858	909
Selenium	7782-49-2	36	180	1.2 J	1.2 U	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.2 UJ	2.2 J	1.2 U	5.7	1.2 U	1.2 U
Silver	7440-22-4	36	180	0.224 J	0.083 J	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U	0.612 J	1.2 U	0.436 J	0.083 J	1.2 U
Sodium	7440-23-5	NC	NC	115 J	35 J	48.6 J	46.7 J	110 J	39.6 J	93.9 J	36.6 J	53.1 J	120 J	54.2 J	169	52.2 J	60 J
Thallium	7440-28-0	NC	NC	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U	1.5 U	1.2 U	1.4 U	1.2 U	1.2 U
Vanadium	7440-62-2	100[CP]	NC	15.6	16.7	11.7	18.3	15.2	10.7	20.2	13.7	16.1	19.4	13.6	18.6	19.4	15.1
Zinc	7440-66-6	2,200	10,000	69.8	47.8	37.7	57.5	181	39.7	88	48.5	64.5 J	226 J	47.7	203 J	64.3	58.7

Notes:
mg/kg - milligrams per kilogram
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance,
U - Not detected at the detection limit shown
J - Estimated value
* - Hexavalent Chromium values used for conservative comparison. Results are Total Chr
Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analy
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8E - Subsurface Soil Results Compared to Restricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				fill			fill/bb						fill/bb	fill/bb	fill		
			Sample Location	SB-138	SB-141	SB-142	SB-143[BB]	SB-144	SB-145	SB-146	SB-147	SB-148	SB-149	SB-149[BB]	SB-150	SB-151	SB-152
			Sample ID	SB-138-4-4.8-030116	SB-141-7-8-030116	SB-142-11-12-030116	SB-143-3-4-030116	SB-144-1-1.8-030116	SB-145-25.4-26.1-030916	SB-146-6-8-030216	SB-147-10-11.4-042216	SB-148-8-9.2-040716	SB-149-10-11-040616	SB-149-4-5-040616	SB-150-3-4-022916	SB-151-16.6-17.2-030316	SB-152-6-7-030316
			Sample Date	3/1/2016	3/1/2016	3/1/2016	3/1/2016	3/1/2016	3/9/2016	3/2/2016	4/22/2016	4/7/2016	4/6/2016	4/6/2016	2/29/2016	3/3/2016	3/3/2016
			Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			Lab SDG	R1601741	R1601741	R1601741	R1601741	R1601741	R1602058	R1601741	R1603557	R1603190	R1603190	R1603190	R1601741	R1601955	R1601955
			Start Depth	4	7	11	3	1	25.4	6	10	8	10	4	3	16.6	6
			End Depth	4.8	8	12	4	1.8	26.1	8	11	9.2	11	5	4	17.2	7
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]														
Inorganics																	
Aluminum	7429-90-5	NC	NC	4,370	7,440	8,660	25,600	7,430	3,350	8,100	5,170 J	5,640	8,150	22,600	5,270	2,610	6,590
Antimony	7440-36-0	NC	NC	8 UJ	8.1 UJ	7.4 UJ	8 UJ	7.1 UJ	7.2 UJ	7.3 UJ	8 UJ	7.4 UJ	7.2 UJ	10 UJ	7.4 UJ	6.7 UJ	8 UJ
Arsenic	7440-38-2	16	16	4.8	4.5	5	26.7	5.1	8.1	7	7.2 J	5	8.9	32.1	15	3	40.2
Barium	7440-39-3	350	400	28.4	61.2	58.9	59.3	52.1	13.3	42.5	17.8	37.8	46.2	34.2	155	22.5	151
Beryllium	7440-41-7	14	72	0.24 J	0.338 J	0.383	1.4	0.389	0.218 J	0.471	0.254 J	0.335 J	0.408	0.837	0.447	0.1 J	0.398
Cadmium	7440-43-9	2.5	4.3	0.507 J	0.189 J	0.222 J	1.4	0.224 J	0.601 U	0.193 J	0.267 J	0.186 J	0.18 J	1.2	0.484 J	0.045 J	0.199 J
Calcium	7440-70-2	NC	NC	97,700	28,100	1,640	59,300	3,730	18,500	1,910	1,030 J	1190	1,320	49,700	12,300	56,200	11,500
Chromium	7440-47-3	22*	110*	6.6	10.1	12.5	70.2	129	5	12.4	8.6	10.2	17.4	54.7	23.2	3.8	11.8
Cobalt	7440-48-4	30[CP]	NC	4.3 J	4.7 J	17.7	4.7 J	6.4	4.7 J	6.6	8.2	6.1 J	5.5 J	2.7 J	5.3 J	2.3 J	5 J
Copper	7440-50-8	270	270	11.6	11.9	10.7	7.8	22.1	6	8.7	9.5 J	12.7	16.2	9.8	49.4	6.6	20.7
Cyanide	57-12-5	27	27	0.02 J	0.08 J	0.02 J	0.27	0.05 J	0.12 U	0.03 J	0.11 U	0.07 J	0.1 J	0.33	0.042 J	0.03 J	0.15
Iron	7439-89-6	2,000[CP]	NC	13,200	14,400	23,400	16,800	16,300	9,640	23,600	12,100	17,000	22,100	14,700	22,000	7,060	28,800
Lead	7439-92-1	400	400	20.9	9	8.7	16.3	59	6	10.7	7.6 J	9.6	5.9 J	17.1	484	4.5 J	42.7 J
Magnesium	7439-95-4	NC	NC	48,800	7,760	2,580	25,300	2,490	12,300	2,720	2,090	1,970	2,570	28,500	5,160	17,800	3,610
Manganese	7439-96-5	2,000	2,000	689	390	834	365	228	151	390	86.8 J	89.5	248	126	221	285	330
Mercury	7439-97-6	0.81	0.81	0.023 J	0.028 J	0.012 J	0.017 J	2.6	0.008 J	0.011 J	0.044 U	0.006 J	0.035 J	0.018 J	0.791	0.037 U	0.141
Nickel	7440-02-0	140	310	8.2	11.8	19.8	14.5	12.8	9.2	18.1	16.8	15.5	18	12.7	13.1	3.4 J	14.9
Potassium	7440-09-7	NC	NC	766	1170	953	3,090	936	629	919	853 J	671	592	2,920	1,030	579 J	528 J
Selenium	7782-49-2	36	180	0.723 J	1.4 U	0.49 J	0.391 J	1.2 U	1.2 U	1.2 U	1.3 UJ	1.2 U	1.2 U	1.1 J	0.358 J	0.759 J	1.3 U
Silver	7440-22-4	36	180	0.24 J	0.068 J	0.062 J	0.24 J	0.118 J	12 U	1.2 U	1.3 U	1.2 U	1.2 U	1.7 U	0.186 J	0.1 J	0.146 J
Sodium	7440-23-5	NC	NC	193	90.1 J	26 J	638	40.7 J	56 J	36.5 J	51 J	34.3 J	39.4 J	770	98.9 J	152	101 J
Thallium	7440-28-0	NC	NC	13.3 U	1.4 U	12.4 U	1.3 U	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.7 U	1.2 U	0.848 J	1.3 U
Vanadium	7440-62-2	100[CP]	NC	11.3	15.8	15.1	61.3	16.8	9.1	16.9	11	12.4	20	53.2	29.7	8.6	17.2
Zinc	7440-66-6	2,200	10,000	112	41.7	51.3	58.1	69	30.1	48.8	40.3 J	42.8	47	48.9	650	16.2 J	141 J

Notes:
mg/kg - milligrams per kilogram
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance,
U - Not detected at the detection limit shown
J - Estimated value
* - Hexavalent Chromium values used for conservative comparison. Results are Total Chr
Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analy
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8E - Subsurface Soil Results Compared to Restricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]													
Sample Location				SB-154	SB-156	SB-157	SB-158	SB-159	SB-160	SB-161	SB-162	SB-163	SB-164	SB-165	SB-166	SB-168
Sample ID				SB-154-15-17-030316	SB-156-16-17-030916	SB-157-20.5-21.5-030916	SB-158-16-17.5-030816	SB-159-17-18-030916	SB-160-4-5-030916	SB-161-24-26-030816	SB-162-19-20-030816	SB-163-13.5-16-030816	SB-164-4-5.9-030716	SB-165-22-23-030716	SB-166-13-15-030816	SB-168-16-17-030816
Sample Date				3/3/2016	3/9/2016	3/9/2016	3/8/2016	3/9/2016	3/9/2016	3/8/2016	3/8/2016	3/8/2016	3/7/2016	3/7/2016	3/8/2016	3/8/2016
Unit				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Lab SDG				R1601955	R1602058	R1602058	R1602058	R1602058	R1602058	R1602058	R1602058	R1602058	R1601955	R1601955	R1602058	R1602058
Start Depth				15	16	20.5	16	17	4	24	19	13.5	4	22	13	16
End Depth				17	17	21.5	17.5	18	5	26	20	16	5.9	23	15	17
Inorganics																
Aluminum	7429-90-5	NC	NC	7,280	2,370	7,460	3,580	15,400	3,340	1,880	5,170	6,890	3,940	5,220	10,800	6,310
Antimony	7440-36-0	NC	NC	7.8 UJ	6.4 UJ	7.4 UJ	6.6 UJ	8 UJ	6.9 UJ	6.8 UJ	7.6 UJ	7.1 UJ	6.7 UJ	7.4 UJ	7.5 UJ	7.5 UJ
Arsenic	7440-38-2	16	16	6.8	1.7	5.5	2.7	2.2	3.1	0.857 J	15.4	5	2.2	6.3	9	7.6
Barium	7440-39-3	350	400	45.7	14.5	53.7	11.2	145	19	11.9	18.9	41.3	25.3	20.4	67.4	32.3
Beryllium	7440-41-7	14	72	0.404	0.157 J	0.397	0.192 J	0.824	0.188 J	0.107 J	0.298 J	0.372	0.157 J	0.248 J	0.576	0.368 J
Cadmium	7440-43-9	2.5	4.3	0.13 J	0.536 U	0.619 U	0.549 U	0.662 U	0.572 U	0.564 U	0.631 U	0.592 U	0.067 J	0.136 J	0.622 U	0.623 U
Calcium	7440-70-2	NC	NC	1,290	79,600	2,790	74,700	74,600	17,400	38,300	4,310	1,540	21,400	18,100	1,670	1,370
Chromium	7440-47-3	22*	110*	9.4	5.3	10.7	5.9	25.9	5.2	3.8	8.3	10.3	5	7.1	17.2	10.3
Cobalt	7440-48-4	30[CP]	NC	7.5	2.2 J	7.9	4.9 J	12.2	3.2 J	1.8 J	7.7	6.6	3.2 J	6 J	10.3	11.1
Copper	7440-50-8	270	270	12.8	6	9.3	7.8	20.4	7.2	5.3	9.1	13.3	7.6	10.2	24.6	15.8
Cyanide	57-12-5	27	27	0.03 J	0.093 U	0.03 J	0.1 U	0.13 U	0.04 J	0.098 U	0.03 J	0.11 U	0.11 U	0.12 U	0.02 J	0.02 J
Iron	7439-89-6	2,000[CP]	NC	20,000	9,770	20,700	10,800	29,600	9,670	7,160	17,700	17,700	4,840	12,200	29,700	19,800
Lead	7439-92-1	400	400	10.4 J	5.4 U	9.7	5.5 U	9.2	57 U	56 U	9.4	8	2.9 J	6.7 J	13.3	10.1
Magnesium	7439-95-4	NC	NC	2,150	21,300	3,670	26,100	15,700	5,480	12,200	4,310	2,640	5,510	11,200	4,180	2,340
Manganese	7439-96-5	2,000	2,000	251	339	311	401	762	250	424	210	333	255	122	593	996
Mercury	7439-97-6	0.81	0.81	0.005 J	0.036 U	0.011 J	0.008 J	0.022 J	0.013 J	0.036 U	0.008 J	0.012 J	0.037 U	0.04 U	0.01 J	0.011 J
Nickel	7440-02-0	140	310	16.8	4.3 U	16.7	4.4 U	26.2	6.1	45 U	16.1	18.3	5.6	12.6	27.4	19.2
Potassium	7440-09-7	NC	NC	741 J	727	687	588	3,690	577	432	881	833	696 J	872 J	997	851
Selenium	7782-49-2	36	180	1.3 U	1.1 U	1.2 U	1.1 U	13 U	1.1 U	1.1 U	1.3 U	12 U	1.1 U	1.2 U	12 U	12 U
Silver	7440-22-4	36	180	1.3 U	1.1 U	12 U	1.1 U	13 U	11 U	1.1 U	1.3 U	12 U	1.1 U	0.074 J	12 U	12 U
Sodium	7440-23-5	NC	NC	31.4 J	124	30.9 J	96.9 J	279	56.1 J	92.3 J	39 J	30.8 J	108 J	49.5 J	30 J	27 J
Thallium	7440-28-0	NC	NC	1.3 U	1.1 U	1.2 U	1.1 U	13.2 U	1.1 U	11.3 U	1.3 U	1.2 U	1.1 U	1.2 U	12.4 U	12.5 U
Vanadium	7440-62-2	100[CP]	NC	13.4	10.3	13.6	8.7	31	10	7.8	11.3	12.3	9.7	10.8	18.5	12.4
Zinc	7440-66-6	2,200	10,000	45 J	40.2	42.5	59.5	55	20	13.2	45.5	47.7	23.9 J	48.7 J	72.3	48.4

Notes:
mg/kg - milligrams per kilogram
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance,
U - Not detected at the detection limit shown
J - Estimated value
* - Hexavalent Chromium values used for conservative comparison. Results are Total Chrc
Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyz
Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8E - Subsurface Soil Results Compared to Restricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SB-169	SB-170	SB-171	SB-172	SB-173	SB-174	SB-175	SB-176	SB-177	SB-178	SB-179	SB-180	fill	fill/bb
				Sample ID	SB-169-16-17-030716	SB-170-16-16.8-022916	SB-171-15-16-022916	SB-172-8.8-9.6-082217	SB-173-12-15-082117	SB-174-12.5-15-082117	SB-175-21-21.4-030716	SB-176-6-7-041216	SB-177-5.5-6.5-031416	SB-178-1.5-2-031416	SB-179-6.2-7-030416	SB-180-14-14.7-030416	SB-TP-131	SB-TP-139[BB]
				Sample Date	3/7/2016	2/29/2016	2/29/2016	8/22/2017	8/21/2017	8/21/2017	3/7/2016	4/12/2016	3/14/2016	3/14/2016	3/4/2016	3/4/2016	3/15/2016	3/7/2016
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Lab SDG	R1601955	R1601741	R1601741	R1707777	R1707777	R1707777	R1601955	R1603190	R1602239	R1602239	R1601955	R1601955	R1602333	R1601955
				Start Depth	16	16	15	8.8	12	12.5	21	6	5.5	1.5	6.2	14	5	12
				End Depth	17	16.8	16	9.6	15	15	21.4	7	6.5	2	7	14.7	7	14
Chemical Name	**CAS #**	**NY Part 375 Residential SCO[1]**	**NY Part 375 Restricted Residential SCO[1]**															
Inorganics																		
Aluminum	7429-90-5	NC	NC	7,690	6,880	12,800	4,330	8,650	12,100	1,100	5,150	7,970	8,920	7,300	8,090	5,680	4,700
Antimony	7440-36-0	NC	NC	7.2 UJ	7.6 UJ	7.3 UJ	6.6 U	7.4 U	7.8 U	6.5 UJ	7.2 UJ	7.2 UJ	6.9 UJ	7.7 UJ	7.2 UJ	7.9 UJ	7.2 UJ
Arsenic	7440-38-2	16	16	6.9	5	9	2.7	8.1	9.2	1.9	3	5	4.2	6	6.2	12	3.1
Barium	7440-39-3	350	400	44.8	35.8	74.6	23.8	69.7	98.6	7.6	103	58.6	78.1	53.3	42.3	102	25.7
Beryllium	7440-41-7	14	72	0.445	0.365 J	0.666	0.186 J	0.397	0.622	0.022 J	0.302 J	0.408	0.438	0.395	0.385	0.677	0.192 J
Cadmium	7440-43-9	2.5	4.3	0.168 J	0.239 J	0.363 J	0.885	0.62 U	0.648 U	0.119 J	0.157 J	0.599 U	0.577 U	0.242 J	0.084 J	0.655 U	0.048 J
Calcium	7440-70-2	NC	NC	710	1,330	1200	70,800	1,990	2,930	176,000	12,600	5,550 J	43,400 J	3,640	1170	9,410 J	
Chromium	7440-47-3	22*	110*	10.9	11	17.4	6.2	12.4	16.3	1.1 U	16.6	11.8	11.8	10.1	11.3	12.4	6.3
Cobalt	7440-48-4	30[CP]	NC	7.2	7.5	11.7	2.7 J	10.6	9.5	1.4 J	5 J	8.2	5.6 J	7.3	6.6	5.9 J	3.3 J
Copper	7440-50-8	270	270	19.8	13.1	23.3	10.5	16.7	18.9	3.9	6	14	16.8	17.2	15.8	34.2	8.8
Cyanide	57-12-5	27	27	0.02 J	0.02 J	0.03 J	0.098 U	0.03 J	0.05 J	0.11 U	0.06 J	0.04 J	0.02 J	0.06 J	0.11 U	0.25	0.12 U
Iron	7439-89-6	2,000[CP]	NC	20,400	16,300	29,300	9,770	22,300	27,300	4,120	25,700	20,600	16,700	17,200	19,400	15,200	9,460
Lead	7439-92-1	400	400	10.8 J	9.3	12.7	9.8	9.9	12	7.5 J	10.1	12.5	13	23.9 J	6.8 J	87.2	4.9 J
Magnesium	7439-95-4	NC	NC	2,300	2,450	4,200	39,900	3,080	4,100	100,000	2,540	2,910 J	20,500 J	2,670	2,820	3,940	8,070
Manganese	7439-96-5	2,000	2,000	191	161	528	155	1,030	432	323	132	532 N	779 N	148	292	104 J	281
Mercury	7439-97-6	0.81	0.81	0.005 J	0.013 J	0.011 J	0.181	0.039 U	0.036 J	0.036 U	0.032 J	0.025 J	0.043	0.054	0.009 J	1.6	0.038 U
Nickel	7440-02-0	140	310	18.1	17.9	27.7	8.6	23.7	25.7	4.3 UE	7.4	18.3	12.4	15.8	17.6	12.1	5.7
Potassium	7440-09-7	NC	NC	883 J	902	908	749	817	1,320	442 J	686	859	1490	1,140 J	848 J	715	870 J
Selenium	7782-49-2	36	180	1.2 U	1.3 U	1.2 U	1.1 U	0.881 J	0.777 J	2.9	0.749 J	1.2 U	0.854 J	1.3 U	1.2 U	1.3 U	0.768 J
Silver	7440-22-4	36	180	0.06 J	1.3 U	0.085 J	1.1 U	1.2 U	1.3 U	0.314 J	1.2 U	0.096 J	0.081 J	0.077 J	0.06 J	1.3 U	0.084 J
Sodium	7440-23-5	NC	NC	36.4 J	47.4 J	62.2 J	164	108 J	189	208	54.2 J	49.4 J	88.9 J	54.1 J	44.4 J	159	147
Thallium	7440-28-0	NC	NC	1.2 U	1.3 U	12.1 U	1.5	1.2 U	1.3 U	4.4	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.3 U	1.2 U
Vanadium	7440-62-2	100[CP]	NC	15.6	14	20.4	8.2	16.5	20.7	3.6 J	8.8	14.7	16.4	14.8	13.1	19.4	11.4
Zinc	7440-66-6	2,200	10,000	43 J	44.5	64.6	327	58.2	66.5 E	12.7 J	41.5	69	66.1	62.8 J	45.6 J	90.7	26.8 J

Notes:
mg/kg - milligrams per kilogram
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance,
U - Not detected at the detection limit shown
J - Estimated value
* - Hexavalent Chromium values used for conservative comparison. Results are Total Chr
Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analy

Exceeds Residential Use SCO listed in Part 375 or CP-51

Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8E - Subsurface Soil Results Compared to Restricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	SB-TP-139[BB]	SB-TP-147	fill TP-100	fill TP-102	TP-103	TP-103	fill TP-104	TP-105	fill TP-106	fill TP-107	fill TP-108	fill TP-110	TP-111	fill TP-112
			Sample ID	SB-TP-139-12-14-030716	SB-TP-147-16-18-031016	TP-100-2-4-012116	TP-102-1-3-012216	DUP-008-012116	TP-103-0-2-012116	TP-104-0-2-012216	TP-105-4.5-6.5-012216	TP-106-1.5-4-012216	TP-107-0-2-012216	TP-108-0-1.5-012516	TP-110-1.5-2-012516	B-TP-111-0-0.6-08211	TP-112-3.5-4-012516
			Sample Date	3/7/2016	3/10/2016	1/21/2016	1/22/2016	1/21/2016	1/21/2016	1/22/2016	1/22/2016	1/22/2016	1/22/2016	1/25/2016	1/25/2016	8/21/2017	1/25/2016
			Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			Lab SDG	R1601955	R1602058	R1600468	R1600468	R1600468	R1600468	R1600468	R1600468	R1600468	R1600468	R1600634	R1600634	R1707777	R1600634
			Start Depth	12	16	2	1	0	0	0	4.5	1.5	0	0	1.5	0	3.5
			End Depth	14	18	4	3	2	2	2	6.5	4	2	1.5	2	0.6	4
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]														
Inorganics																	
Aluminum	7429-90-5	NC	NC	5,320	3,090	21,200	25,100	4,140	3,150	5,230	14,600	21,900	5,930	4,040	8,290	3,840	7,580
Antimony	7440-36-0	NC	NC	7.2 UJ	6.7 UJ	0.27 J	0.921 J	6.6 U	0.409 J	1 J	8.1 U	7.5 U	0.406 J	9.4	8.6 U	6.3 U	7.5 U
Arsenic	7440-38-2	16	16	2.7	6	33.4	41.2	5.1	3.6	9.3	97.2	94.5	11.8	20.1	8.2	3.6	15.5
Barium	7440-39-3	350	400	31.5	20.9	73.8	50.6	28.8	25.5	129	230	57.3	106	96.3	79.3	29.4	54
Beryllium	7440-41-7	14	72	0.215 J	0.16 J	1.4	1.2	0.33 U	0.33 U	0.508	2.9	1.8	0.436	0.745	0.507	0.2 J	0.537
Cadmium	7440-43-9	2.5	4.3	0.083 J	0.556 U	0.674 U	0.191 J	0.552 U	0.552 U	0.611 U	2	0.106 J	0.198 J	0.633 U	0.713 U	0.527 U	0.628 U
Calcium	7440-70-2	NC	NC	31,000	72,900	14,700	24,300	86,800	33,900	30,100	8,350	6,180	68,200	15,300	8,910	98,500	13,600
Chromium	7440-47-3	22*	110*	7.3	7.3	57.6	65.4	6.8	5	10.8	36.6	78.6	16.2	13.3 J	15.6 J	6.6	16.9 J
Cobalt	7440-48-4	30[CP]	NC	4 J	5 J	6.5 J	4.3 J	3.1 J	2.5 J	4.9 J	64.1	8	6 J	8.7	6.7 J	2.8 J	4.7 J
Copper	7440-50-8	270	270	9.2	7.1	32.5	13.3	56.1	58.3	45.5	178	46.5	59.6	102	29.2	19.4	14.7
Cyanide	57-12-5	27	27	0.06 J	0.1 U	0.36	0.38	0.32	0.11 U	0.56	0.3	0.39	0.12 U	0.33	0.26	0.018 J	0.08 J
Iron	7439-89-6	2,000[CP]	NC	11,700	12,300	20,600	19,600	12,800	9,460	13,200	99,900	57,800	17,400	44,200	21,900	11,000	14,600
Lead	7439-92-1	400	400	4 J	54 U	53.4	24.6	52.8	60.8	268	159	14.5	308	234	78.6	55.7	18.6
Magnesium	7439-95-4	NC	NC	7,940	32,100	22,100	29,900	23,900	9,190	10,900	3,670	19,500	23,800	7,730	4,630	46,600	9,740
Manganese	7439-96-5	2,000	2,000	285	468	227	131	305	232	410	1,630	109	319	405	477	316	235
Mercury	7439-97-6	0.81	0.81	0.038 U	0.035 U	0.149	0.027 J	0.158	0.179	0.114	0.263	0.006 J	0.328	0.189	0.139	0.133	0.076
Nickel	7440-02-0	140	310	7.4	7.9	17.1	20.8	7.6	5.7	11.1	75.8	18.3	15.6	20.2	15	6.7	11.8
Potassium	7440-09-7	NC	NC	1,060 J	943	3,460 J	3,630 J	805 J	596 J	1,000 J	1710 J	2,700 J	1,120 J	675 J	1,300 J	1,050	1,260 J
Selenium	7782-49-2	36	180	1.2 U	11 U	1.4 U	1.4 U	1.1 U	1.1 U	1.2 U	3.5	1.5	1.3 U	1.7	1.6	1.1 U	1.3 U
Silver	7440-22-4	36	180	0.072 J	11 U	1.3 U	1.4 U	1.1 U	1.1 U	1.2 U	1.4 U	1.3 U	0.322 J	1.3 U	1.4 U	0.168 J	1.3 U
Sodium	7440-23-5	NC	NC	142	125	575	733	115	59.7 J	153	174	496	153	102 J	82.4 J	145	216
Thallium	7440-28-0	NC	NC	1.2 U	1.1 U	1.4 U	1.4 U	1.1 U	1.1 U	1.2 U	4.1 U	0.541 J	1.3 U	1.3 U	1.4 U	2	1.3 U
Vanadium	7440-62-2	100[CP]	NC	13.8	13.8	50.4	60.5	11.9	9.3	20.4	17.3	65.1	17.3	16.4	19.9	11.6	19.8
Zinc	7440-66-6	2,200	10,000	28.3 J	46.4	96.8	68.1	135	103	257	364	91.3	1780	104	187	87.8	108

Notes:
mg/kg - milligrams per kilogram
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance,
U - Not detected at the detection limit shown
J - Estimated value
* - Hexavalent Chromium values used for conservative comparison. Results are Total Chrc
Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analyz
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Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

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Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	TP-113	TP-114	fill TP-115	TP-116	fill TP-118	fill TP-120	fill TP-120	TP-123	fill TP-125	TP-126	TP-127	fill TP-130	fill TP-132	TP-133	TP-134
			Sample ID	TP-113-1.5-2-012516	TP-114-4-5-012616	TP-115-4-5-012616	TP-116-7-8-011516	TP-118-3.5-4-011516	DUP-009-012616	TP-120-4-4.5-012616	TP-123-4.5-5-012616	TP-125-3-4-012716	TP-126-2-3-012716	TP-127-8-8.5-012716	TP-130-9.5-10-012816	TP-132-3-3.5-012816	TP-133-6.5-7-012716	TP-134-5-6-012816
			Sample Date	1/25/2016	1/26/2016	1/26/2016	1/15/2016	1/15/2016	1/26/2016	1/26/2016	1/26/2016	1/27/2016	1/27/2016	1/27/2016	1/28/2016	1/28/2016	1/27/2016	1/28/2016
			Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			Lab SDG	R1600634	R1600634	R1600634	R1600468	R1600468	R1600634	R1600634	R1600634	R1600634	R1600634	R1600634	R1600810	R1600810	R1600634	R1600810
			Start Depth	1.5	4	4	7	3.5	4	4	4.5	3	2	8	9.5	3	6.5	5
			End Depth	2	5	5	8	4	4.5	4.5	5	4	3	8.5	10	3.5	7	6
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]															
Inorganics																		
Aluminum	7429-90-5	NC	NC	5,000	20,600	8,730	8,060	12,500	10,900	11,100	8,940	2,260	6,560	11,100	5,300	5,100	12,600	9,000
Antimony	7440-36-0	NC	NC	6.5 U	0.171 UJ	1.5 J	7.2 U	1.8 J	0.264 J	0.145 UJ	0.146 UJ	0.909 J	1.1 J	0.614 J	7.9 UJ	7.3 UJ	0.208 J	0.198 UJ
Arsenic	7440-38-2	16	16	2.7	7.9	11	7.6	21.2	7.9	9.6	7.8	510	17.3	31.4	14.2	18	7.2	6.2
Barium	7440-39-3	350	400	27	144	184	47.4	97	81.5	86.2	46.1	58	172	118	86.7 J	103	85.6	52.4
Beryllium	7440-41-7	14	72	0.327 U	1.2	0.634	0.49	0.894	0.607	0.716	0.502	0.167 J	1.2	0.688	0.565	0.403	0.691	0.423
Cadmium	7440-43-9	2.5	4.3	0.545 U	0.713 U	0.024 U	0.601 U	0.694 U	0.617 U	0.02 U	0.021 U	7.6	0.726 U	0.851 U	0.655 U	1.1	0.567 U	0.585 U
Calcium	7440-70-2	NC	NC	127,000	5,270	8,490	1,710	22,500	11,000	7,540	1,800	2,630	9,640	26,500	29,100	32,000	3,780	1,790
Chromium	7440-47-3	22*	110*	9.3 J	21.5	15.1	12.8	31.7	17.2	16.4	13.4	19.7	10.1	17.7	12.7	16.2	18.2	13.2
Cobalt	7440-48-4	30[CP]	NC	3.5 J	7.5	10.4	8.3	7.7	8.9	11	8.3	1.6 J	9.2	8.3 J	6.5 U	6.2	12	8.7
Copper	7440-50-8	270	270	17.3	35.9	157	17.3	28.3	20	18	16.6	18.9	40.9	48.7	37.7	56.4	15	14.8
Cyanide	57-12-5	27	27	0.097 U	0.24	0.17	0.11 U	0.63	0.11 U	0.06 J	0.02 J	0.09 J	0.38	1.04	0.16	0.11	0.06 J	0.05 J
Iron	7439-89-6	2,000[CP]	NC	11,300	24,700	13,300	24,400	24,100	23,300	24,200	21,900	156,000	29,400	36,400	19,300	23,900	27,000	23,300
Lead	7439-92-1	400	400	7.2	13.9	524	9.6	114	56.2	35.6	9.8	16.3	92.2	199	279 J	308 J	15.3	10.1 J
Magnesium	7439-95-4	NC	NC	44,900	4,340	3,800	3,080	11,100	7,960	5,940	3,060	1,170	3,380	5,420	10,700	11,500	4,080	3,070
Manganese	7439-96-5	2,000	2,000	430	130	239	247	238	306	336	249	19.4	177	229	271	321	311	251
Mercury	7439-97-6	0.81	0.81	0.053	0.061	44.2	0.014 J	0.51	0.079	0.06	0.007 J	0.024 J	0.554	0.044 J	2.9	1.6	0.214	0.021 J
Nickel	7440-02-0	140	310	9.2	23.9	22.6	21.2	16.5	20.8	26.6	18.6	3.4 J	19.9	19.1	10.9	23.9	23.4	19.2
Potassium	7440-09-7	NC	NC	1,740 J	1,900	962	796 J	1,710 J	1,580	1,670	936	655	844	1,640	838 J	858	1,620	907
Selenium	7782-49-2	36	180	1.1 U	1.6	1.4 U	1.2 U	2.4	1.2 U	1.2 U	0.221 U	3.8	1.5	1.7 U	1.2 J	1.2 J	1.1 U	1.2 U
Silver	7440-22-4	36	180	1.1 U	1.4 U	1.3 J	1.2 U	1.4 U	1.2 U	0.073 U	0.074 U	0.077 U	1.5 U	1.7 U	0.21 J	0.293 J	0.068 U	1.2 U
Sodium	7440-23-5	NC	NC	140	190	200	34 J	418	68.8 J	56.1 J	56 J	38.1 J	173	179	106 J	102 J	135	182
Thallium	7440-28-0	NC	NC	1.1 U	1.4 U	0.39 U	1.2 U	1.4 U	1.2 U	0.327 U	0.329 U	2.6 J	1.5 U	1.7 U	1.3 U	1.2 U	1.1 U	1.2 U
Vanadium	7440-62-2	100[CP]	NC	9.8	27.3	23.3	15.1	33.9	22.9	20.9	17.1	35.3	19.4	21	18.4	17.7	21.9	16.1
Zinc	7440-66-6	2,200	10,000	29.5	96.4	241	59.5	420	231	166 J	54.1	55.6	57	137	113 J	301	102	49.4

Notes:
mg/kg - milligrams per kilogram
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance,
U - Not detected at the detection limit shown
J - Estimated value
* - Hexavalent Chromium values used for conservative comparison. Results are Total Chr
Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analy

Exceeds Residential Use SCO listed in Part 375 or CP-51

Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 8E - Subsurface Soil Results Compared to Restricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

			Sample Location	fill TP-135	 TP-137	fill TP-140[BB]	fill TP-141	fill TP-142	fill TP-143	fill TP-146	fill TP-148	fill/bb TP-149[BB]	fill/bb TP-150[BB]	fill TP-151
			Sample ID	TP-135-2-3-012916	TP-137-9.5-10-012916	TP-140-2.5-3-011416	TP-141-4-5-011416	TP-142-0-1-011516	TP-143-4-6.5-011416	TP-146-6-8-011316	TP-148-2-2.5-012516	TP-149-6-8-011416	TP-150-4-6-011316	TP-151-2-4-011316
			Sample Date	1/29/2016	1/29/2016	1/14/2016	1/14/2016	1/15/2016	1/14/2016	1/13/2016	1/25/2016	1/14/2016	1/13/2016	1/13/2016
			Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			Lab SDG	R1600810	R1600810	R1600423	R1600423	R1600468	R1600423	R1600375	R1600634	R1600423	R1600375	R1600375
			Start Depth	2	9.5	2.5	4	0	4	6	2	6	4	2
			End Depth	3	10	3	5	1	6.5	8	2.5	8	6	4
Chemical Name	CAS #	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]											
Inorganics														
Aluminum	7429-90-5	NC	NC	7,270	6,650	14,500	4,170	2,670	22,600	6,950	6,160	21,100	21,200	5,070
Antimony	7440-36-0	NC	NC	0.202 UJ	7.3 UJ	1.3 J	0.702 J	7.1 U	1.3 J	12.2 U	7.3 U	0.876 J	13.2 U	11.2 U
Arsenic	7440-38-2	16	16	3.5	7.6	28.4 J	22.8 J	24.5	48.5 J	9.3	8.2	38.2 J	82.2	8.2
Barium	7440-39-3	350	400	35.1	38.3	73.8	130	281	131	62	105	245	28.2	62.9
Beryllium	7440-41-7	14	72	0.384	0.35 J	0.772	0.453	0.782	1.6	0.476	0.364	0.72	0.711	0.403
Cadmium	7440-43-9	2.5	4.3	0.605 U	0.605 U	0.677 U	0.566 U	0.591 U	4.8	0.61 U	0.871	0.733	0.908	0.578 U
Calcium	7440-70-2	NC	NC	13,200	1,050	42,600 J	25,600 J	2,740	13,600 J	68,000 J	2,880	31,600 J	36,100 J	5,260 J
Chromium	7440-47-3	22*	110*	11	9.8	43.7 J	29.4 J	7.3	78.1	7.7 J	10.2 J	53.9 J	52.4	8.5 J
Cobalt	7440-48-4	30[CP]	NC	9.7	7.6	6.8 U	5.7 U	7.5	8.5 U	6.1 U	6.9	6.8 U	4.9 U	6.6
Copper	7440-50-8	270	270	18.9	16.1	25.9 J	58.8 J	24.2	20.4 J	17.6 J	32.4	9.7 J	6.8 J	16.7 J
Cyanide	57-12-5	27	27	0.02 J	0.12 U	0.12 U	0.57	0.11 U	0.29	0.09 J	0.03 J	1.06	0.42	0.1 J
Iron	7439-89-6	2,000[CP]	NC	16,800	19,100	13,000	18,100	20,900	26,500	12,900	22,500	30,200	34,900	14,900
Lead	7439-92-1	400	400	6.1 U	9.2 J	82.7 J	52.6 J	6.3	45.8 J	44 J	9.5	21 J	15.7 J	20.7 J
Magnesium	7439-95-4	NC	NC	4,490	2,030	19,100 J	4,190 J	779	22,900 J	34,300 J	2,980	29,100 J	28,700 J	2,670 J
Manganese	7439-96-5	2,000	2,000	200	331	223 J	171 J	78.2	209 J	414 J	146	2,550 J	172 J	252 J
Mercury	7439-97-6	0.81	0.81	0.01 J	0.012 J	0.303	1.6	0.132	0.083	0.69	1.4	0.032 J	0.006 J	0.099
Nickel	7440-02-0	140	310	19.4	17.4	9.9 J	9.3 J	17.7	28.3 J	9.3 J	17.7	16.2 J	17.7	18.1
Potassium	7440-09-7	NC	NC	1,300	914	1,790	583	622 J	3,390	777	836 J	3,210	3,300	593
Selenium	7782-49-2	36	180	3	1.2 U	1.4 U	1.1 U	1.4	1.7 U	0.721 U	1.2 U	2.4	1.3 U	1.1 U
Silver	7440-22-4	36	180	1.2 U	1.2 U	1.4 U	1.1 U	1.2 U	1.7 U	0.054 U	1.2 U	1.4 U	1.3 U	1.1 U
Sodium	7440-23-5	NC	NC	62 J	121 U	701	221	93 J	672	199	31.7 J	775	698	110 J
Thallium	7440-28-0	NC	NC	1.2 U	1.2 U	1.4 U	1.1 U	0.922 J	1.7 U	0.33 U	1.2 U	6.9 U	1.3 U	1.1 U
Vanadium	7440-62-2	100[CP]	NC	18.7	13.4	50.7	20.4	19.1	65.8	14.3	11.9	63.6	62.6	14.5
Zinc	7440-66-6	2,200	10,000	45.8	43.2	705 J	305 J	39	2,580 J	159 J	613	62.2 J	51.2 J	71.3 J

Notes:
mg/kg - milligrams per kilogram
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance,
U - Not detected at the detection limit shown
J - Estimated value
* - Hexavalent Chromium values used for conservative comparison. Results are Total Chr
Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[BB] = Sample location(s) where "bone black" or "activated carbon" type material was analy

Exceeds Residential Use SCO listed in Part 375 or CP-51

Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-100	OVR-107	OVR-108	OVR-109	OVR-109
		Sample ID	OVR-100-6-7-04222016	OVR-107-10-11-041216	OVR-108-4.1-5.4-041316	DUP-004-041116	OVR-109-10-11.8-041116
		Sample Date	4/22/2016	4/12/2016	4/13/2016	4/11/2016	4/11/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1603557	R1603190	R1603557	R1603190	R1603190
		Start Depth	6	10	4.1	10	10
		End Depth	7	11	5.4	11.8	11.8
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	3.2 U	2.2 U	4.3 U	240 U	210 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
1,1,2-Trichloroethane	79-00-5	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
1,1-Dichloroethane	75-34-3	270	3.2 U	2.2 U	4.3 U	240 U	210 U
1,1-Dichloroethene	75-35-4	330	3.2 U	2.2 U	4.3 U	240 U	210 U
1,2,3-Trichlorobenzene	87-61-6	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
1,2,4-Trichlorobenzene	120-82-1	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
1,2,4-Trimethylbenzene	95-63-6	3,600	0.96 J	0.28 J	4.3 U	240 U	210 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
1,2-Dibromoethane	106-93-4	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
1,2-Dichlorobenzene	95-50-1	1,100	3.2 U	2.2 U	4.3 U	240 U	210 U
1,2-Dichloroethane	107-06-2	20	3.2 U	2.2 U	4.3 U	240 U	210 U
1,2-Dichloropropane	78-87-5	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
1,3,5-Trimethylbenzene	108-67-8	8,400	3.2 U	0.71 J	4.3 U	240 U	210 U
1,3-Dichlorobenzene	541-73-1	2,400	3.2 U	2.2 U	4.3 U	240 U	210 U
1,4-Dichlorobenzene	106-46-7	1,800	3.2 U	2.2 U	4.3 U	240 U	210 U
1,4-Dioxane	123-91-1	100	64 R	44 R	85 R	4,800 R	4,200 R
2-Butanone	78-93-3	120	9.6	2.1 J	4.3 U	240 U	210 U
2-Hexanone	591-78-6	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
4-Isopropyltoluene	99-87-6	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
4-Methyl-2-Pentanone	108-10-1	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Acetone	67-64-1	50	31	11	4.3 U	240 U	210 U
Benzene	71-43-2	60	0.19 J	2.2 J	4.3 U	240 U	210 U
Bromochloromethane	74-97-5	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Bromodichloromethane	75-27-4	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Bromoform	75-25-2	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Bromomethane	74-83-9	NC	3.2 U	2.2 UJ	4.3 UJ	240 U	210 U
Carbon disulfide	75-15-0	NC	0.96 J	2.2 UJ	4.3 UJ	240 U	210 U
Carbon Tetrachloride	56-23-5	760	3.2 U	2.2 U	4.3 U	240 U	210 U
Chlorobenzene	108-90-7	1,100	3.2 U	2.2 U	4.3 U	240 U	210 U
Chloroethane	75-00-3	NC	3.2 U	20	4.3 U	240 U	210 U
Chloroform	67-66-3	370	3.2 U	2.2 U	4.3 U	240 U	210 U
Chloromethane	74-87-3	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
cis-1,2-Dichloroethene	156-59-2	250	3.2 U	2.2 U	4.3 U	240 U	210 U
Cis-1,3-Dichloropropene	10061-01-5	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Cyclohexane	110-82-7	NC	3.2 U	6.5	4.3 U	240 U	210 U
Dibromochloromethane	124-48-1	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Dichlorodifluoromethane	75-71-8	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Ethylbenzene	100-41-4	1,000	0.25 J	2.2 U	4.3 U	240 U	210 U
Isopropylbenzene	98-82-8	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
m,p-xylene	XYLMP	See Total Xylenes	0.99 J	4.4 U	8.5 U	480 U	420 U
Methyl Acetate	79-20-9	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Methylcyclohexane	108-87-2	NC	2.8 J	26	4.3 U	240 U	210 U
Methylene Chloride	75-09-2	50	3.2 U	2.2 U	4.3 U	240 U	210 U
MTBE	1634-04-4	930	3.2 U	2.2 U	4.3 U	240 U	210 U
n-Butylbenzene	104-51-8	12,000	3.2 U	2.2 U	4.3 U	240 U	210 U
n-Propylbenzene	103-65-1	3,900	3.2 U	2.2 U	4.3 U	240 U	210 U
o-Xylene	95-47-6	See Total Xylenes	0.47 J	0.43 J	4.3 U	240 U	210 U
sec-Butylbenzene	135-98-8	11,000	3.2 U	2.2 U	4.3 U	240 U	210 U
Styrene	100-42-5	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Tert-Butylbenzene	98-06-6	5,900	3.2 U	2.5	4.3 U	30 J	210 U
Tetrachloroethene	127-18-4	1,300	3.2 U	2.2 U	4.3 U	240 U	210 U
Toluene	108-88-3	700	3.2 U	2.2 U	4.3 U	240 U	210 U
trans-1,2-Dichloroethene	156-60-5	190	3.2 U	2.2 U	4.3 U	240 U	210 U
Trans-1,3-Dichloropropene	10061-02-6	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Trichloroethene	79-01-6	470	3.2 U	2.2 U	4.3 U	240 U	210 U
Trichlorofluoromethane	75-69-4	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Trichlorotrifluoroethane	26523-64-8	NC	3.2 U	2.2 U	4.3 U	240 U	210 U
Vinyl Chloride	75-01-4	20	3.2 UJ	2.2 U	4.3 U	240 U	210 U
Total Xylenes	NA	330	1.46	0.43	0	0	0
TOTAL VOC TICs	NA	NC	21.3	289	0	15,300	14,340

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-116	OVR-117	OVR-118	SB-100	SB-101
		Sample ID	OVR-116-10-11.9-040116	OVR-117-7-7.6-040716	OVR-118-0.5-1-041316	SB-100-9-10-031016	SB-101-12.5-14-031016
		Sample Date	4/1/2016	4/7/2016	4/13/2016	3/10/2016	3/10/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1603031	R1603190	R1603557	R1602058	R1602058
		Start Depth	10	7	0.5	9	12.5
		End Depth	11.9	7.6	1	10	14
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,1,2-Trichloroethane	79-00-5	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,1-Dichloroethane	75-34-3	270	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,1-Dichloroethene	75-35-4	330	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,2,3-Trichlorobenzene	87-61-6	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,2,4-Trichlorobenzene	120-82-1	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,2,4-Trimethylbenzene	95-63-6	3,600	0.3 J	26,000	4.1 U	4.9 U	3 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	1.5 U	14,000 UJ	4.1 U	4.9 U	3 U
1,2-Dibromoethane	106-93-4	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,2-Dichlorobenzene	95-50-1	1,100	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,2-Dichloroethane	107-06-2	20	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,2-Dichloropropane	78-87-5	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,3,5-Trimethylbenzene	108-67-8	8,400	1.5 U	22,000	4.1 U	4.9 U	3 U
1,3-Dichlorobenzene	541-73-1	2,400	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,4-Dichlorobenzene	106-46-7	1,800	1.5 U	14,000 U	4.1 U	4.9 U	3 U
1,4-Dioxane	123-91-1	100	29 R	280,000 R	82 R	98 R	59 R
2-Butanone	78-93-3	120	1.3 J	14,000 U	4.1 U	8.8	10
2-Hexanone	591-78-6	NC	1.5 U	3,600 J	4.1 U	4.9 U	3 U
4-Isopropyltoluene	99-87-6	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
4-Methyl-2-Pentanone	108-10-1	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Acetone	67-64-1	50	5	14,000 U	4.1 U	26	31
Benzene	71-43-2	60	0.39 J	4,400 J	4.1 U	4.9 U	3 U
Bromochloromethane	74-97-5	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Bromodichloromethane	75-27-4	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Bromoform	75-25-2	NC	1.5 U	14,000 UJ	4.1 U	4.9 U	3 U
Bromomethane	74-83-9	NC	1.5 U	14,000 U	4.1 UJ	4.9 U	3 U
Carbon disulfide	75-15-0	NC	1.5 U	14,000 U	4.1 UJ	4.9 U	3 U
Carbon Tetrachloride	56-23-5	760	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Chlorobenzene	108-90-7	1,100	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Chloroethane	75-00-3	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Chloroform	67-66-3	370	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Chloromethane	74-87-3	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
cis-1,2-Dichloroethene	156-59-2	250	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Cis-1,3-Dichloropropene	10061-01-5	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Cyclohexane	110-82-7	NC	1.2 J	8,200 J	4.1 U	4.9 U	3 U
Dibromochloromethane	124-48-1	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Dichlorodifluoromethane	75-71-8	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Ethylbenzene	100-41-4	1,000	0.086 J	12,000 J	4.1 U	4.9 U	3 U
Isopropylbenzene	98-82-8	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
m,p-xylene	XYLMP	See Total Xylenes	0.55 J	67,000	8.2 U	9.8 U	5.9 U
Methyl Acetate	79-20-9	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Methylcyclohexane	108-87-2	NC	1.1 J	16,000	4.1 U	4.9 U	2.3 J
Methylene Chloride	75-09-2	50	1.5 U	14,000 U	4.1 U	4.9 U	3 U
MTBE	1634-04-4	930	1.5 U	14,000 U	4.1 U	4.9 U	3 U
n-Butylbenzene	104-51-8	12,000	1.5 U	14,000 U	4.1 U	4.9 U	3 U
n-Propylbenzene	103-65-1	3,900	1.5 U	4,300 J	4.1 U	4.9 U	3 U
o-Xylene	95-47-6	See Total Xylenes	0.19 J	20,000	4.1 U	4.9 U	3 U
sec-Butylbenzene	135-98-8	11,000	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Styrene	100-42-5	NC	1.5 U	4,000 J	4.1 U	4.9 U	3 U
Tert-Butylbenzene	98-06-6	5,900	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Tetrachloroethene	127-18-4	1,300	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Toluene	108-88-3	700	0.74 J	35,000	4.1 U	4.9 U	3 U
trans-1,2-Dichloroethene	156-60-5	190	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Trans-1,3-Dichloropropene	10061-02-6	NC	1.5 U	14,000 UJ	4.1 U	4.9 U	3 U
Trichloroethene	79-01-6	470	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Trichlorofluoromethane	75-69-4	NC	1.5 U	14,000 UJ	4.1 U	4.9 U	3 U
Trichlorotrifluoroethane	26523-64-8	NC	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Vinyl Chloride	75-01-4	20	1.5 U	14,000 U	4.1 U	4.9 U	3 U
Total Xylenes	NA	330	0.74	87,000	0	0	0
TOTAL VOC TICs	NA	NC	15.1	1,439,000	0	0	48.9

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-102	SB-103	SB-104	SB-105	SB-106
		Sample ID	SB-102-4.0-6.0-090717	SB-103-4.8-5.8-030416	SB-104-12-13-030316	SB-105-11-12-031016	SB-106-5-6-030316
		Sample Date	9/7/2017	3/4/2016	3/3/2016	3/10/2016	3/3/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1708422	R1601955	R1601955	R1602058	R1601955
		Start Depth	4	4.8	12	11	5
		End Depth	6	5.8	13	12	6
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 UJ
1,1,2-Trichloroethane	79-00-5	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
1,1-Dichloroethane	75-34-3	270	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
1,1-Dichloroethene	75-35-4	330	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
1,2,3-Trichlorobenzene	87-61-6	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 UJ
1,2,4-Trichlorobenzene	120-82-1	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 UJ
1,2,4-Trimethylbenzene	95-63-6	3,600	3.6 U	6.6 UJ	3 U	4.7 U	5.5 UJ
1,2-Dibromo-3-chloropropane	96-12-8	NC	3.6 UJ	6.6 UJ	3 U	4.7 U	5.5 UJ
1,2-Dibromoethane	106-93-4	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
1,2-Dichlorobenzene	95-50-1	1,100	3.6 U	6.6 UJ	3 U	4.7 U	5.5 UJ
1,2-Dichloroethane	107-06-2	20	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
1,2-Dichloropropane	78-87-5	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
1,3,5-Trimethylbenzene	108-67-8	8,400	3.6 U	6.6 UJ	3 U	4.7 U	5.5 UJ
1,3-Dichlorobenzene	541-73-1	2,400	3.6 U	6.6 UJ	3 U	4.7 U	5.5 UJ
1,4-Dichlorobenzene	106-46-7	1,800	3.6 U	6.6 UJ	3 U	4.7 U	5.5 UJ
1,4-Dioxane	123-91-1	100	73 R	130 R	60 R	93 R	110 R
2-Butanone	78-93-3	120	3.6 U	4.2 J	1.7 J	19	49
2-Hexanone	591-78-6	NC	3.6 U	6.6 UJ	3 U	4.7 U	3.1 J
4-Isopropyltoluene	99-87-6	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 UJ
4-Methyl-2-Pentanone	108-10-1	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
Acetone	67-64-1	50	3.6 U	14 J	11	62	160
Benzene	71-43-2	60	3.6 U	0.66 J	3 U	4.7 U	5.5 U
Bromochloromethane	74-97-5	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
Bromodichloromethane	75-27-4	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
Bromoform	75-25-2	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
Bromomethane	74-83-9	NC	3.6 UJ	6.6 UJ	3 U	4.7 U	5.5 UJ
Carbon disulfide	75-15-0	NC	3.6 U	6.6 UJ	3 U	4.7 U	3 J
Carbon Tetrachloride	56-23-5	760	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
Chlorobenzene	108-90-7	1,100	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
Chloroethane	75-00-3	NC	3.6 UJ	6.6 UJ	3 U	4.7 U	5.5 U
Chloroform	67-66-3	370	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
Chloromethane	74-87-3	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
cis-1,2-Dichloroethene	156-59-2	250	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
Cis-1,3-Dichloropropene	10061-01-5	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
Cyclohexane	110-82-7	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
Dibromochloromethane	124-48-1	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
Dichlorodifluoromethane	75-71-8	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
Ethylbenzene	100-41-4	1,000	3.6 U	6.6 UJ	3 U	4.7 U	0.32 J
Isopropylbenzene	98-82-8	NC	3.6 U	6.6 UJ	3 U	4.7 UJ	5.5 U
m,p-xylene	XYLMP	See Total Xylenes	7.3 U	13 UJ	6 U	9.3 U	1.8 J
Methyl Acetate	79-20-9	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
Methylcyclohexane	108-87-2	NC	3.6 U	6.6 UJ	3 U	2.3 J	1.4 J
Methylene Chloride	75-09-2	50	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
MTBE	1634-04-4	930	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
n-Butylbenzene	104-51-8	12,000	3.6 U	6.6 UJ	3 U	4.7 UJ	5.5 UJ
n-Propylbenzene	103-65-1	3,900	3.6 U	6.6 UJ	3 U	4.7 UJ	5.5 UJ
o-Xylene	95-47-6	See Total Xylenes	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
sec-Butylbenzene	135-98-8	11,000	3.6 U	6.6 UJ	3 U	4.7 UJ	5.5 UJ
Styrene	100-42-5	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
Tert-Butylbenzene	98-06-6	5,900	3.6 U	6.6 UJ	3 U	4.7 UJ	12 J
Tetrachloroethene	127-18-4	1,300	3.6 U	6.6 UJ	3 U	4.7 UJ	5.5 U
Toluene	108-88-3	700	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
trans-1,2-Dichloroethene	156-60-5	190	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
Trans-1,3-Dichloropropene	10061-02-6	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
Trichloroethene	79-01-6	470	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
Trichlorofluoromethane	75-69-4	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
Trichlorotrifluoroethane	26523-64-8	NC	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
Vinyl Chloride	75-01-4	20	3.6 U	6.6 UJ	3 U	4.7 U	5.5 U
Total Xylenes	NA	330	NA	0	0	0	1.8
TOTAL VOC TICs	NA	NC	NA	18.4	25	161.4	909

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-107	SB-108	SB-109	SB-110	SB-112
		Sample ID	SB-107-6-7-030316	SB-108-5.8-6.4-030316	SB-109-8-9-030216	SB-110-1.5-2.5-031016	SB-112-0.5-2.0-082217
		Sample Date	3/3/2016	3/3/2016	3/2/2016	3/10/2016	8/22/2017
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1601955	R1601955	R1601741	R1602058	R1707777
		Start Depth	6	5.8	8	1.5	0.5
		End Depth	7	6.4	9	2.5	2
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,1,2-Trichloroethane	79-00-5	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,1-Dichloroethane	75-34-3	270	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,1-Dichloroethene	75-35-4	330	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,2,3-Trichlorobenzene	87-61-6	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,2,4-Trichlorobenzene	120-82-1	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,2,4-Trimethylbenzene	95-63-6	3,600	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,2-Dibromoethane	106-93-4	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,2-Dichlorobenzene	95-50-1	1,100	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,2-Dichloroethane	107-06-2	20	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,2-Dichloropropane	78-87-5	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,3,5-Trimethylbenzene	108-67-8	8,400	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,3-Dichlorobenzene	541-73-1	2,400	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,4-Dichlorobenzene	106-46-7	1,800	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
1,4-Dioxane	123-91-1	100	69 R	69 R	44 R	42 R	130 U
2-Butanone	78-93-3	120	3.5 U	17	1.2 J	2.1 U	6.5 U
2-Hexanone	591-78-6	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
4-Isopropyltoluene	99-87-6	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
4-Methyl-2-Pentanone	108-10-1	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Acetone	67-64-1	50	2.2 J	49	7.7	2.1 U	6.5 U
Benzene	71-43-2	60	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Bromochloromethane	74-97-5	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Bromodichloromethane	75-27-4	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Bromoform	75-25-2	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Bromomethane	74-83-9	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Carbon disulfide	75-15-0	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Carbon Tetrachloride	56-23-5	760	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Chlorobenzene	108-90-7	1,100	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Chloroethane	75-00-3	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Chloroform	67-66-3	370	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Chloromethane	74-87-3	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
cis-1,2-Dichloroethene	156-59-2	250	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Cis-1,3-Dichloropropene	10061-01-5	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Cyclohexane	110-82-7	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Dibromochloromethane	124-48-1	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Dichlorodifluoromethane	75-71-8	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Ethylbenzene	100-41-4	1,000	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Isopropylbenzene	98-82-8	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
m,p-xylene	XYLMP	See Total Xylenes	6.9 U	6.9 U	4.4 U	4.2 U	13 U
Methyl Acetate	79-20-9	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Methylcyclohexane	108-87-2	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Methylene Chloride	75-09-2	50	3.5 U	3.4 U	2.2 U	2.1 U	0.87 J
MTBE	1634-04-4	930	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
n-Butylbenzene	104-51-8	12,000	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
n-Propylbenzene	103-65-1	3,900	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
o-Xylene	95-47-6	See Total Xylenes	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
sec-Butylbenzene	135-98-8	11,000	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Styrene	100-42-5	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Tert-Butylbenzene	98-06-6	5,900	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Tetrachloroethene	127-18-4	1,300	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Toluene	108-88-3	700	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
trans-1,2-Dichloroethene	156-60-5	190	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Trans-1,3-Dichloropropene	10061-02-6	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Trichloroethene	79-01-6	470	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Trichlorofluoromethane	75-69-4	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Trichlorotrifluoroethane	26523-64-8	NC	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Vinyl Chloride	75-01-4	20	3.5 U	3.4 U	2.2 U	2.1 U	6.5 U
Total Xylenes	NA	330	0	0	0	0	NA
TOTAL VOC TICs	NA	NC	46	36	0	0	NT

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-112	SB-113	SB-113[BB]	SB-113	SB-114
		Sample ID	SB-112-0.5-2.0-090717	DUP-002-031416	SB-113-1-2-031416	SB-113-4.5-6.5-031416	SB-114-2-2.5-030216
		Sample Date	9/7/2017	3/14/2016	3/14/2016	3/14/2016	3/2/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1708422	R1602239	R1602239	R1602239	R1601741
		Start Depth	0.5	4.5	1	4.5	2
		End Depth	2	6.5	2	6.5	2.5
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	4.4 U	3.6 U	3.5 U	10 U	4.2 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
1,1,2-Trichloroethane	79-00-5	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
1,1-Dichloroethane	75-34-3	270	4.4 U	3.6 U	3.5 U	10 U	4.2 U
1,1-Dichloroethene	75-35-4	330	4.4 U	3.6 U	3.5 U	10 U	4.2 U
1,2,3-Trichlorobenzene	87-61-6	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
1,2,4-Trichlorobenzene	120-82-1	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
1,2,4-Trimethylbenzene	95-63-6	3,600	4.4 U	3.6 U	3.5 U	10 U	4.2 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	4.4 UJ	3.6 U	3.5 U	10 U	4.2 U
1,2-Dibromoethane	106-93-4	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
1,2-Dichlorobenzene	95-50-1	1,100	4.4 U	3.6 U	3.5 U	10 U	4.2 U
1,2-Dichloroethane	107-06-2	20	4.4 U	3.6 U	3.5 U	10 U	4.2 U
1,2-Dichloropropane	78-87-5	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
1,3,5-Trimethylbenzene	108-67-8	8,400	4.4 U	3.6 U	3.5 U	10 U	4.2 U
1,3-Dichlorobenzene	541-73-1	2,400	4.4 U	3.6 U	3.5 U	10 U	4.2 U
1,4-Dichlorobenzene	106-46-7	1,800	4.4 U	3.6 U	3.5 U	10 U	4.2 U
1,4-Dioxane	123-91-1	100	88 R	72 U	70 R	200 R	83 R
2-Butanone	78-93-3	120	4.4 U	4	4.8	10 U	4.2 U
2-Hexanone	591-78-6	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
4-Isopropyltoluene	99-87-6	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
4-Methyl-2-Pentanone	108-10-1	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Acetone	67-64-1	50	4.4 U	22 J	23	10 UJ	4.2 U
Benzene	71-43-2	60	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Bromochloromethane	74-97-5	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Bromodichloromethane	75-27-4	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Bromoform	75-25-2	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Bromomethane	74-83-9	NC	4.4 UJ	3.6 U	3.5 U	10 U	4.2 U
Carbon disulfide	75-15-0	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Carbon Tetrachloride	56-23-5	760	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Chlorobenzene	108-90-7	1,100	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Chloroethane	75-00-3	NC	4.4 UJ	3.6 U	3.5 U	10 U	4.2 U
Chloroform	67-66-3	370	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Chloromethane	74-87-3	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
cis-1,2-Dichloroethene	156-59-2	250	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Cis-1,3-Dichloropropene	10061-01-5	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Cyclohexane	110-82-7	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Dibromochloromethane	124-48-1	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Dichlorodifluoromethane	75-71-8	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Ethylbenzene	100-41-4	1,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Isopropylbenzene	98-82-8	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
m,p-xylene	XYLMP	See Total Xylenes	8.8 U	7.2 U	7 U	20 U	8.3 U
Methyl Acetate	79-20-9	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Methylcyclohexane	108-87-2	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Methylene Chloride	75-09-2	50	4.4 U	3.6 U	3.5 U	10 U	4.2 U
MTBE	1634-04-4	930	4.4 U	3.6 U	3.5 U	10 U	4.2 U
n-Butylbenzene	104-51-8	12,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U
n-Propylbenzene	103-65-1	3,900	4.4 U	3.6 U	3.5 U	10 U	4.2 U
o-Xylene	95-47-6	See Total Xylenes	4.4 U	3.6 U	3.5 U	10 U	4.2 U
sec-Butylbenzene	135-98-8	11,000	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Styrene	100-42-5	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Tert-Butylbenzene	98-06-6	5,900	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Tetrachloroethene	127-18-4	1,300	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Toluene	108-88-3	700	4.4 U	3.6 U	3.5 U	10 U	4.2 U
trans-1,2-Dichloroethene	156-60-5	190	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Trans-1,3-Dichloropropene	10061-02-6	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Trichloroethene	79-01-6	470	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Trichlorofluoromethane	75-69-4	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Trichlorotrifluoroethane	26523-64-8	NC	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Vinyl Chloride	75-01-4	20	4.4 U	3.6 U	3.5 U	10 U	4.2 U
Total Xylenes	NA	330	NA	0	0	0	0
TOTAL VOC TICs	NA	NC	NT	0	0	0	0

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-115	SB-116	SB-117	SB-117	SB-118
		Sample ID	SB-115-5.6-6.7-030216	SB-116-5.7-6.5-030216	DUP-003-030216	SB-117-5.9-7-030216	SB-118-7-7.4-030216
		Sample Date	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1601741	R1601741	R1601741	R1601741	R1601741
		Start Depth	5.6	5.7	5.9	5.9	7
		End Depth	6.7	6.5	7	7	7.4
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	3.7 U	270 U	3.8 U	3.8 U	3.3 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	3.7 U	270 U	3.8 U	3.8 U	3.3 U
1,1,2-Trichloroethane	79-00-5	NC	3.7 U	270 U	3.8 U	3.8 U	3.3 U
1,1-Dichloroethane	75-34-3	270	3.7 U	270 U	3.8 U	3.8 U	3.3 U
1,1-Dichloroethene	75-35-4	330	3.7 U	270 U	3.8 U	3.8 U	3.3 U
1,2,3-Trichlorobenzene	87-61-6	NC	3.7 U	270 U	3.8 U	3.8 U	3.3 U
1,2,4-Trichlorobenzene	120-82-1	NC	3.7 U	270 U	3.8 U	3.8 U	3.3 U
1,2,4-Trimethylbenzene	95-63-6	3,600	7.8	270 U	3.8 U	0.87 J	3.3 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	3.7 U	270 U	3.8 U	3.8 U	3.3 U
1,2-Dibromoethane	106-93-4	NC	3.7 U	270 U	3.8 U	3.8 U	3.3 U
1,2-Dichlorobenzene	95-50-1	1,100	3.7 U	270 U	3.8 U	3.8 U	3.3 U
1,2-Dichloroethane	107-06-2	20	3.7 U	270 U	3.8 U	3.8 U	3.3 U
1,2-Dichloropropane	78-87-5	NC	3.7 U	270 U	3.8 U	3.8 U	3.3 U
1,3,5-Trimethylbenzene	108-67-8	8,400	6.6	270 U	3.8 U	3.8 U	3.3 U
1,3-Dichlorobenzene	541-73-1	2,400	3.7 U	270 U	3.8 U	3.8 U	3.3 U
1,4-Dichlorobenzene	106-46-7	1,800	3.7 U	270 U	3.8 U	3.8 U	3.3 U
1,4-Dioxane	123-91-1	100	74 R	5400 R	75 R	77 R	67 R
2-Butanone	78-93-3	120	30	270 U	14	9	3.7
2-Hexanone	591-78-6	NC	3.7 U	67 J	3.8 U	3.8 U	3.3 U
4-Isopropyltoluene	99-87-6	NC	0.89 J	270 U	3.8 U	3.8 U	3.3 U
4-Methyl-2-Pentanone	108-10-1	NC	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Acetone	67-64-1	50	100	270 U	52	38	30
Benzene	71-43-2	60	0.37 J	270 U	0.47 J	0.95 J	3.3 U
Bromochloromethane	74-97-5	NC	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Bromodichloromethane	75-27-4	NC	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Bromoform	75-25-2	NC	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Bromomethane	74-83-9	NC	3.7 UJ	270 U	3.8 U	3.8 U	3.3 U
Carbon disulfide	75-15-0	NC	1.9 J	270 U	5.1	8.1	3.3 U
Carbon Tetrachloride	56-23-5	760	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Chlorobenzene	108-90-7	1,100	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Chloroethane	75-00-3	NC	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Chloroform	67-66-3	370	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Chloromethane	74-87-3	NC	3.7 U	270 U	3.8 U	3.8 U	0.44 J
cis-1,2-Dichloroethene	156-59-2	250	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Cis-1,3-Dichloropropene	10061-01-5	NC	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Cyclohexane	110-82-7	NC	18	270 U	1.7 J	4.1	3.3 U
Dibromochloromethane	124-48-1	NC	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Dichlorodifluoromethane	75-71-8	NC	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Ethylbenzene	100-41-4	1,000	15	270 U	3.8 U	0.21 J	3.3 U
Isopropylbenzene	98-82-8	NC	5.2	270 U	3.8 U	3.8 U	3.3 U
m,p-xylene	XYLMP	See Total Xylenes	6 J	540 U	7.5 U	1.6 J	6.7 U
Methyl Acetate	79-20-9	NC	3.7 U	270 U	14	8.5	9.8
Methylcyclohexane	108-87-2	NC	200 J	270 U	1.4 J	4	3.3 U
Methylene Chloride	75-09-2	50	3.7 U	270 U	3.8 U	3.8 U	3.3 U
MTBE	1634-04-4	930	3.7 U	270 U	3.8 U	3.8 U	3.3 U
n-Butylbenzene	104-51-8	12,000	1.3 J	270 U	3.8 U	3.8 U	3.3 U
n-Propylbenzene	103-65-1	3,900	3.7 U	270 U	3.8 U	3.8 U	3.3 U
o-Xylene	95-47-6	See Total Xylenes	3.6 J	270 U	3.8 U	0.44 J	3.3 U
sec-Butylbenzene	135-98-8	11,000	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Styrene	100-42-5	NC	0.82 J	270 U	3.8 U	3.8 U	3.3 U
Tert-Butylbenzene	98-06-6	5,900	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Tetrachloroethene	127-18-4	1,300	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Toluene	108-88-3	700	1.4 J	270 U	1.2 J	1.9 J	3.3 U
trans-1,2-Dichloroethene	156-60-5	190	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Trans-1,3-Dichloropropene	10061-02-6	NC	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Trichloroethene	79-01-6	470	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Trichlorofluoromethane	75-69-4	NC	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Trichlorotrifluoroethane	26523-64-8	NC	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Vinyl Chloride	75-01-4	20	3.7 U	270 U	3.8 U	3.8 U	3.3 U
Total Xylenes	NA	330	9.6	0	0	2.04	0
TOTAL VOC TICs	NA	NC	1,873	5,480	229.5	214.7	3.6

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-119	SB-120	SB-121	SB-122	SB-124
		Sample ID	SB-119-4.5-6-031116	SB-120-6.5-7.4-031416	SB-121-2-2.5-031416	SB-122-7-8-022916	SB-124-8-9-031116
		Sample Date	3/11/2016	3/14/2016	3/14/2016	2/29/2016	3/11/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1602239	R1602239	R1602239	R1601741	R1602239
		Start Depth	4.5	6.5	2	7	8
		End Depth	6	7.4	2.5	8	9
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	1.7 U	4 U	12 UJ	3.1 U	160 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	1.7 U	4 U	12 R	3.1 U	160 U
1,1,2-Trichloroethane	79-00-5	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
1,1-Dichloroethane	75-34-3	270	1.7 U	4 U	12 UJ	3.1 U	160 U
1,1-Dichloroethene	75-35-4	330	1.7 U	4 U	12 UJ	3.1 U	160 U
1,2,3-Trichlorobenzene	87-61-6	NC	1.7 U	4 U	12 R	3.1 U	160 U
1,2,4-Trichlorobenzene	120-82-1	NC	1.7 U	4 U	12 R	3.1 U	160 U
1,2,4-Trimethylbenzene	95-63-6	3,600	1.7 U	4 U	3.3 J	3.1 U	48 J
1,2-Dibromo-3-chloropropane	96-12-8	NC	1.7 U	4 U	12 R	3.1 U	160 U
1,2-Dibromoethane	106-93-4	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
1,2-Dichlorobenzene	95-50-1	1,100	1.7 U	4 U	12 R	3.1 U	160 U
1,2-Dichloroethane	107-06-2	20	1.7 U	4 U	12 UJ	3.1 U	160 U
1,2-Dichloropropane	78-87-5	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
1,3,5-Trimethylbenzene	108-67-8	8,400	1.7 U	4 U	12 R	3.1 U	160 U
1,3-Dichlorobenzene	541-73-1	2,400	1.7 U	4 U	12 R	3.1 U	160 U
1,4-Dichlorobenzene	106-46-7	1,800	1.7 U	4 U	12 R	3.1 U	160 U
1,4-Dioxane	123-91-1	100	33 R	80 R	240 R	62 R	3200 R
2-Butanone	78-93-3	120	1.7 U	6.7	46 J	3.1 U	160 U
2-Hexanone	591-78-6	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
4-Isopropyltoluene	99-87-6	NC	1.7 U	4 U	12 R	3.1 U	160 U
4-Methyl-2-Pentanone	108-10-1	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
Acetone	67-64-1	50	1.7 U	20	210 J	3.1 U	160 U
Benzene	71-43-2	60	1.7 U	0.3 J	0.97 J	3.1 U	160 U
Bromochloromethane	74-97-5	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
Bromodichloromethane	75-27-4	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
Bromoform	75-25-2	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
Bromomethane	74-83-9	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
Carbon disulfide	75-15-0	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
Carbon Tetrachloride	56-23-5	760	1.7 U	4 U	12 UJ	3.1 U	160 U
Chlorobenzene	108-90-7	1,100	1.7 U	4 U	12 UJ	3.1 U	160 U
Chloroethane	75-00-3	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
Chloroform	67-66-3	370	1.7 U	4 U	12 UJ	3.1 U	160 U
Chloromethane	74-87-3	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
cis-1,2-Dichloroethene	156-59-2	250	1.7 U	4 U	12 UJ	3.1 U	160 U
Cis-1,3-Dichloropropene	10061-01-5	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
Cyclohexane	110-82-7	NC	1.7 U	4 U	7.8 J	3.1 U	160 U
Dibromochloromethane	124-48-1	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
Dichlorodifluoromethane	75-71-8	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
Ethylbenzene	100-41-4	1,000	1.7 U	4 U	0.9 J	3.1 U	160 U
Isopropylbenzene	98-82-8	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
m,p-xylene	XYLMP	See Total Xylenes	3.3 U	8 U	11 J	6.2 U	320 U
Methyl Acetate	79-20-9	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
Methylcyclohexane	108-87-2	NC	1.7 U	4 U	19 J	3.1 U	160 U
Methylene Chloride	75-09-2	50	1.7 U	4 U	12 UJ	3.1 U	160 U
MTBE	1634-04-4	930	1.7 U	4 U	12 UJ	3.1 U	160 U
n-Butylbenzene	104-51-8	12,000	1.7 U	4 U	12 R	3.1 U	160 U
n-Propylbenzene	103-65-1	3,900	1.7 U	4 U	12 R	3.1 U	160 U
o-Xylene	95-47-6	See Total Xylenes	1.7 U	4 U	3.4 J	3.1 U	160 U
sec-Butylbenzene	135-98-8	11,000	1.7 U	4 U	12 R	3.1 U	160 U
Styrene	100-42-5	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
Tert-Butylbenzene	98-06-6	5,900	1.7 U	4 U	12 R	3.1 U	34 J
Tetrachloroethene	127-18-4	1,300	1.7 U	4 U	12 UJ	3.1 U	160 U
Toluene	108-88-3	700	1.7 U	4 U	4.9 J	3.1 U	160 U
trans-1,2-Dichloroethene	156-60-5	190	1.7 U	4 U	12 UJ	3.1 U	160 U
Trans-1,3-Dichloropropene	10061-02-6	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
Trichloroethene	79-01-6	470	1.7 U	4 U	12 UJ	3.1 U	160 U
Trichlorofluoromethane	75-69-4	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
Trichlorotrifluoroethane	26523-64-8	NC	1.7 U	4 U	12 UJ	3.1 U	160 U
Vinyl Chloride	75-01-4	20	1.7 U	4 U	12 UJ	3.1 U	160 U
Total Xylenes	NA	330	0	0	14.4	0	0
TOTAL VOC TICs	NA	NC	0	104.7	89	0	5,780

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-125	SB-127	SB-129	SB-130	SB-131
		Sample ID	SB-125-5-7-031416	SB-127-10-11-031116	SB-129-4.6-6.6-031516	SB-130-4-4.5-042216	SB-131-8-10-031116
		Sample Date	3/14/2016	3/11/2016	3/15/2016	4/22/2016	3/11/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1602239	R1602239	R1602333	R1603557	R1602239
		Start Depth	5	10	4.6	4	8
		End Depth	7	11	6.6	4.5	10
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	4 U	2.5 UJ	2,100 U	4.3 UJ	2.2 U
1,1,2-Trichloroethane	79-00-5	NC	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
1,1-Dichloroethane	75-34-3	270	4 U	2.5 UJ	2,100 U	4.3 U	4
1,1-Dichloroethene	75-35-4	330	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
1,2,3-Trichlorobenzene	87-61-6	NC	4 U	2.5 UJ	2,100 U	4.3 UJ	2.2 U
1,2,4-Trichlorobenzene	120-82-1	NC	4 U	2.5 UJ	2,100 U	4.3 UJ	2.2 U
1,2,4-Trimethylbenzene	95-63-6	3,600	4 U	2.5 UJ	430 J	4.3 UJ	2.2 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	4 U	2.5 UJ	2,100 UJ	4.3 UJ	2.2 U
1,2-Dibromoethane	106-93-4	NC	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
1,2-Dichlorobenzene	95-50-1	1,100	4 U	2.5 UJ	2,100 U	4.3 UJ	2.2 U
1,2-Dichloroethane	107-06-2	20	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
1,2-Dichloropropane	78-87-5	NC	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
1,3,5-Trimethylbenzene	108-67-8	8,400	4 U	2.5 UJ	2,100 U	4.3 UJ	2.2 U
1,3-Dichlorobenzene	541-73-1	2,400	4 U	2.5 UJ	2,100 U	4.3 UJ	2.2 U
1,4-Dichlorobenzene	106-46-7	1,800	4 U	2.5 UJ	2,100 U	4.3 UJ	2.2 U
1,4-Dioxane	123-91-1	100	79 R	50 R	43,000 R	86 R	44 R
2-Butanone	78-93-3	120	12	1.7 J	2,100 U	4.7	1.6 J
2-Hexanone	591-78-6	NC	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
4-Isopropyltoluene	99-87-6	NC	4 U	2.5 UJ	2,100 U	4.3 UJ	2.2 U
4-Methyl-2-Pentanone	108-10-1	NC	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Acetone	67-64-1	50	44 J	8.5 J	2,100 U	17	9.6
Benzene	71-43-2	60	4 U	2.5 UJ	2,100 U	4.3 U	0.36 J
Bromochloromethane	74-97-5	NC	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Bromodichloromethane	75-27-4	NC	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Bromoform	75-25-2	NC	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Bromomethane	74-83-9	NC	4 U	2.5 UJ	2,100 UJ	4.3 U	2.2 U
Carbon disulfide	75-15-0	NC	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Carbon Tetrachloride	56-23-5	760	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Chlorobenzene	108-90-7	1,100	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Chloroethane	75-00-3	NC	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Chloroform	67-66-3	370	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Chloromethane	74-87-3	NC	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
cis-1,2-Dichloroethene	156-59-2	250	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Cis-1,3-Dichloropropene	10061-01-5	NC	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Cyclohexane	110-82-7	NC	4 U	2.5 UJ	2,100 U	3.3 J	2.2 U
Dibromochloromethane	124-48-1	NC	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Dichlorodifluoromethane	75-71-8	NC	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Ethylbenzene	100-41-4	1,000	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Isopropylbenzene	98-82-8	NC	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
m,p-xylene	XYLMP	See Total Xylenes	7.9 U	5 UJ	4,300 U	8.6 U	4.4 U
Methyl Acetate	79-20-9	NC	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Methylcyclohexane	108-87-2	NC	15 J	6.8 J	1,600 J	17	18
Methylene Chloride	75-09-2	50	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
MTBE	1634-04-4	930	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
n-Butylbenzene	104-51-8	12,000	4 U	0.6 J	2,100 U	4.3 UJ	2.2 U
n-Propylbenzene	103-65-1	3,900	4 U	2.5 UJ	2,100 U	4.3 UJ	2.2 U
o-Xylene	95-47-6	See Total Xylenes	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
sec-Butylbenzene	135-98-8	11,000	4 U	2.7 J	2,100 U	4.3 UJ	0.78 J
Styrene	100-42-5	NC	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Tert-Butylbenzene	98-06-6	5,900	4 U	1.2 J	2,100 U	0.63 J	1.2 J
Tetrachloroethene	127-18-4	1,300	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Toluene	108-88-3	700	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
trans-1,2-Dichloroethene	156-60-5	190	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Trans-1,3-Dichloropropene	10061-02-6	NC	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Trichloroethene	79-01-6	470	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Trichlorofluoromethane	75-69-4	NC	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Trichlorotrifluoroethane	26523-64-8	NC	4 U	2.5 UJ	2,100 U	4.3 U	2.2 U
Vinyl Chloride	75-01-4	20	4 U	2.5 UJ	2,100 U	4.3 UJ	2.2 U
Total Xylenes	NA	330	0	0	0	0	0
TOTAL VOC TICs	NA	NC	252	326	115,800	1,098	680

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-133	SB-134	SB-135	SB-136	SB-137
		Sample ID	SB-133-4.5-5-041416	SB-134-10-11-031516	SB-135-8-9-041516	SB-136-5-7-031116	SB-137-6-8-031116
		Sample Date	4/14/2016	3/15/2016	4/15/2016	3/11/2016	3/11/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1603557	R1602333	R1603557	R1602239	R1602239
		Start Depth	4.5	10	8	5	6
		End Depth	5	11	9	7	8
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	5.3 U	150 U	3.9 U	170 U	170 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	5.3 UJ	150 U	3.9 UJ	170 U	170 U
1,1,2-Trichloroethane	79-00-5	NC	5.3 U	150 U	3.9 UJ	170 U	170 U
1,1-Dichloroethane	75-34-3	270	5.3 U	150 U	3.9 U	170 U	170 U
1,1-Dichloroethene	75-35-4	330	5.3 U	150 U	3.9 U	170 U	170 U
1,2,3-Trichlorobenzene	87-61-6	NC	5.3 UJ	150 U	3.9 UJ	170 U	170 U
1,2,4-Trichlorobenzene	120-82-1	NC	5.3 UJ	150 U	3.9 UJ	170 U	170 U
1,2,4-Trimethylbenzene	95-63-6	3,600	5.3 UJ	150 U	3.9 UJ	170 U	170 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	5.3 UJ	150 UJ	3.9 UJ	170 U	170 U
1,2-Dibromoethane	106-93-4	NC	5.3 UJ	150 U	3.9 UJ	170 U	170 U
1,2-Dichlorobenzene	95-50-1	1,100	5.3 UJ	150 U	3.9 UJ	170 U	170 U
1,2-Dichloroethane	107-06-2	20	5.3 U	150 U	3.9 UJ	170 U	170 U
1,2-Dichloropropane	78-87-5	NC	5.3 U	150 U	3.9 U	170 U	170 U
1,3,5-Trimethylbenzene	108-67-8	8,400	5.3 UJ	150 U	3.9 UJ	170 U	170 U
1,3-Dichlorobenzene	541-73-1	2,400	5.3 UJ	150 U	3.9 UJ	170 U	170 U
1,4-Dichlorobenzene	106-46-7	1,800	5.3 UJ	150 U	3.9 UJ	170 U	170 U
1,4-Dioxane	123-91-1	100	110 R	2,900 R	78 R	3,300 R	3,500 R
2-Butanone	78-93-3	120	77	150 U	29 J	170 U	170 U
2-Hexanone	591-78-6	NC	5.3 UJ	150 U	3.9 U	170 U	170 U
4-Isopropyltoluene	99-87-6	NC	5.3 UJ	150 U	3.9 UJ	170 U	170 U
4-Methyl-2-Pentanone	108-10-1	NC	5.3 U	150 U	3.9 U	170 U	170 U
Acetone	67-64-1	50	200 J	150 U	81 J	170 U	170 U
Benzene	71-43-2	60	5.3 U	150 U	3.9 U	170 U	170 U
Bromochloromethane	74-97-5	NC	5.3 U	150 U	3.9 UJ	170 U	170 U
Bromodichloromethane	75-27-4	NC	5.3 U	150 U	3.9 U	170 U	170 U
Bromoform	75-25-2	NC	5.3 UJ	150 U	3.9 U	170 U	170 U
Bromomethane	74-83-9	NC	5.3 U	150 UJ	3.9 U	170 U	170 U
Carbon disulfide	75-15-0	NC	5.3 J	150 U	1.3 J	170 U	170 U
Carbon Tetrachloride	56-23-5	760	5.3 U	150 U	3.9 U	170 U	170 U
Chlorobenzene	108-90-7	1,100	5.3 UJ	150 U	3.9 U	170 U	170 U
Chloroethane	75-00-3	NC	5.3 U	150 U	3.9 U	170 U	170 U
Chloroform	67-66-3	370	5.3 U	150 U	3.9 U	170 U	170 U
Chloromethane	74-87-3	NC	5.3 U	150 U	3.9 U	170 U	170 U
cis-1,2-Dichloroethene	156-59-2	250	5.3 U	150 U	3.9 UJ	170 U	170 U
Cis-1,3-Dichloropropene	10061-01-5	NC	5.3 U	150 U	3.9 U	170 U	170 U
Cyclohexane	110-82-7	NC	4.1 J	150 U	23 J	170 U	190
Dibromochloromethane	124-48-1	NC	5.3 UJ	150 U	3.9 U	170 U	170 U
Dichlorodifluoromethane	75-71-8	NC	5.3 U	150 U	3.9 U	170 U	170 U
Ethylbenzene	100-41-4	1,000	5.3 UJ	150 U	3.9 U	170 U	170 U
Isopropylbenzene	98-82-8	NC	5.3 UJ	150 U	3.9 U	170 U	170 U
m,p-xylene	XYLMP	See Total Xylenes	11 UJ	290 U	7.8 U	330 U	350 U
Methyl Acetate	79-20-9	NC	5.3 U	150 U	3.9 U	170 U	170 U
Methylcyclohexane	108-87-2	NC	170	150 UJ	100 J	170 U	170 U
Methylene Chloride	75-09-2	50	5.3 U	150 U	3.9 UJ	170 U	170 U
MTBE	1634-04-4	930	5.3 U	150 U	3.9 U	170 U	170 U
n-Butylbenzene	104-51-8	12,000	5.3 UJ	150 U	3.9 UJ	170 U	170 U
n-Propylbenzene	103-65-1	3,900	5.3 UJ	150 U	3.9 UJ	170 U	170 U
o-Xylene	95-47-6	See Total Xylenes	1.5 J	150 U	3.9 U	170 U	170 U
sec-Butylbenzene	135-98-8	11,000	5.3 UJ	150 U	3.9 UJ	170 U	170 U
Styrene	100-42-5	NC	5.3 UJ	150 U	3.9 U	170 U	170 U
Tert-Butylbenzene	98-06-6	5,900	11 J	150 U	14 J	170 U	38 J
Tetrachloroethene	127-18-4	1,300	5.3 UJ	150 U	3.9 U	170 U	170 U
Toluene	108-88-3	700	5.3 U	150 U	3.9 U	170 U	170 U
trans-1,2-Dichloroethene	156-60-5	190	5.3 U	150 U	3.9 U	170 U	170 U
Trans-1,3-Dichloropropene	10061-02-6	NC	5.3 U	150 U	3.9 U	170 U	170 U
Trichloroethene	79-01-6	470	5.3 U	150 U	3.9 U	170 U	170 U
Trichlorofluoromethane	75-69-4	NC	5.3 U	150 U	3.9 U	170 U	170 U
Trichlorotrifluoroethane	26523-64-8	NC	5.3 UJ	150 U	3.9 UJ	170 U	170 U
Vinyl Chloride	75-01-4	20	5.3 U	150 U	3.9 U	170 U	170 U
Total Xylenes	NA	330	1.5	0	0	0	0
TOTAL VOC TICs	NA	NC	4,790	810	1,512	4,140	19,100

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SB-138	SB-139	SB-141	SB-142	SB-143[BB]
	Sample ID	SB-138-4-4.8-030116	SB-139-8-9.7-030116	SB-141-7-8-030116	SB-142-11-12-030116	SB-143-3-4-030116
	Sample Date	3/1/2016	3/1/2016	3/1/2016	3/1/2016	3/1/2016
	Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	Lab SDG	R1601741	R1601741	R1601741	R1601741	R1601741
	Start Depth	4	8	7	11	3
	End Depth	4.8	9.7	8	12	4
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	950 U	4.1 U	170 U	170 U	7.7 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	950 U	4.1 U	170 U	170 U	7.7 U
1,1,2-Trichloroethane	79-00-5	NC	950 U	4.1 U	170 U	170 U	7.7 U
1,1-Dichloroethane	75-34-3	270	950 U	4.1 U	170 U	170 U	7.7 U
1,1-Dichloroethene	75-35-4	330	950 U	4.1 U	170 U	170 U	7.7 U
1,2,3-Trichlorobenzene	87-61-6	NC	950 U	4.1 U	170 U	170 U	7.7 U
1,2,4-Trichlorobenzene	120-82-1	NC	950 U	4.1 U	170 U	170 U	7.7 U
1,2,4-Trimethylbenzene	95-63-6	3,600	950 U	4.1 U	170 U	170 U	7.7 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	950 U	4.1 U	170 U	170 U	7.7 U
1,2-Dibromoethane	106-93-4	NC	950 U	4.1 U	170 U	170 U	7.7 U
1,2-Dichlorobenzene	95-50-1	1,100	950 U	4.1 U	170 U	170 U	7.7 U
1,2-Dichloroethane	107-06-2	20	950 U	4.1 U	170 U	170 U	7.7 U
1,2-Dichloropropane	78-87-5	NC	950 U	4.1 U	170 U	170 U	7.7 U
1,3,5-Trimethylbenzene	108-67-8	8,400	270 J	4.1 U	170 U	170 U	7.7 U
1,3-Dichlorobenzene	541-73-1	2,400	950 U	4.1 U	170 U	170 U	7.7 U
1,4-Dichlorobenzene	106-46-7	1,800	950 U	4.1 U	170 U	170 U	7.7 U
1,4-Dioxane	123-91-1	100	19,000 R	21 J	3,400 R	3,400 R	150 R
2-Butanone	78-93-3	120	950 U	3.2 J	170 U	170 U	7.7 U
2-Hexanone	591-78-6	NC	950 U	4.1 U	170 U	170 U	7.7 U
4-Isopropyltoluene	99-87-6	NC	950 U	4.1 U	170 U	170 U	7.7 U
4-Methyl-2-Pentanone	108-10-1	NC	950 U	4.1 U	170 U	170 U	7.7 U
Acetone	67-64-1	50	950 U	15	170 U	170 U	5.4 J
Benzene	71-43-2	60	950 U	4.1 U	170 U	170 U	0.77 J
Bromochloromethane	74-97-5	NC	950 U	4.1 U	170 U	170 U	7.7 U
Bromodichloromethane	75-27-4	NC	950 U	4.1 U	170 U	170 U	7.7 U
Bromoform	75-25-2	NC	950 U	4.1 U	170 U	170 U	7.7 U
Bromomethane	74-83-9	NC	950 U	4.1 U	170 U	170 U	7.7 U
Carbon disulfide	75-15-0	NC	950 U	1.1 J	170 U	170 U	7.7 U
Carbon Tetrachloride	56-23-5	760	950 U	4.1 U	170 U	170 U	7.7 U
Chlorobenzene	108-90-7	1,100	950 U	4.1 U	170 U	170 U	7.7 U
Chloroethane	75-00-3	NC	950 U	4.1 U	170 U	170 U	7.7 U
Chloroform	67-66-3	370	950 U	4.1 U	170 U	170 U	7.7 U
Chloromethane	74-87-3	NC	950 U	4.1 U	170 U	170 U	7.7 U
cis-1,2-Dichloroethene	156-59-2	250	950 U	4.1 U	170 U	170 U	7.7 U
Cis-1,3-Dichloropropene	10061-01-5	NC	950 U	4.1 U	170 U	170 U	7.7 U
Cyclohexane	110-82-7	NC	950 U	4.1 U	170 U	170 U	7.7 U
Dibromochloromethane	124-48-1	NC	950 U	4.1 U	170 U	170 U	7.7 U
Dichlorodifluoromethane	75-71-8	NC	950 U	4.1 U	170 U	170 U	7.7 U
Ethylbenzene	100-41-4	1,000	950 U	4.1 U	170 U	170 U	7.7 U
Isopropylbenzene	98-82-8	NC	950 U	4.1 U	170 U	170 U	7.7 U
m,p-xylene	XYLMP	See Total Xylenes	1900 U	8.3 U	340 U	340 U	15 U
Methyl Acetate	79-20-9	NC	950 U	4.1 U	170 U	170 U	7.7 U
Methylcyclohexane	108-87-2	NC	9,500	2.3 J	99 J	79 J	4.5 J
Methylene Chloride	75-09-2	50	950 U	4.1 U	170 U	170 U	7.7 U
MTBE	1634-04-4	930	950 U	4.1 U	170 U	170 U	7.7 U
n-Butylbenzene	104-51-8	12,000	240 J	4.1 U	170 U	170 U	7.7 U
n-Propylbenzene	103-65-1	3,900	950 U	4.1 U	170 U	170 U	7.7 U
o-Xylene	95-47-6	See Total Xylenes	950 U	4.1 U	170 U	170 U	7.7 U
sec-Butylbenzene	135-98-8	11,000	580 J	4.1 U	46 J	170 U	7.7 U
Styrene	100-42-5	NC	950 U	4.1 U	170 U	170 U	7.7 U
Tert-Butylbenzene	98-06-6	5,900	210 J	2.2 J	27 J	170 U	7.7 U
Tetrachloroethene	127-18-4	1,300	950 U	4.1 U	170 U	170 U	7.7 U
Toluene	108-88-3	700	950 U	4.1 U	170 U	170 U	7.7 U
trans-1,2-Dichloroethene	156-60-5	190	950 U	4.1 U	170 U	170 U	7.7 U
Trans-1,3-Dichloropropene	10061-02-6	NC	950 U	4.1 U	170 U	170 U	7.7 U
Trichloroethene	79-01-6	470	950 U	4.1 U	170 U	170 U	7.7 U
Trichlorofluoromethane	75-69-4	NC	950 U	4.1 U	170 U	170 U	7.7 U
Trichlorotrifluoroethane	26523-64-8	NC	950 U	4.1 U	170 U	170 U	7.7 U
Vinyl Chloride	75-01-4	20	950 U	4.1 U	170 U	170 U	7.7 U
Total Xylenes	NA	330	0	0	0	0	0
TOTAL VOC TICs	NA	NC	155,000	118.1	4,090	4,970	24.6

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-144	SB-145	SB-146	SB-147	SB-148
		Sample ID	SB-144-1-1.8-030116	SB-145-25.4-26.1-030916	SB-146-6-8-030216	SB-147-10-11.4-042216	SB-148-8-9.2-040716
		Sample Date	3/1/2016	3/9/2016	3/2/2016	4/22/2016	4/7/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1601741	R1602058	R1601741	R1603557	R1603190
		Start Depth	1	25.4	6	10	8
		End Depth	1.8	26.1	8	11	9.2
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,1,2-Trichloroethane	79-00-5	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,1-Dichloroethane	75-34-3	270	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,1-Dichloroethene	75-35-4	330	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,2,3-Trichlorobenzene	87-61-6	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,2,4-Trichlorobenzene	120-82-1	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,2,4-Trimethylbenzene	95-63-6	3,600	6 U	0.75 J	4.5 U	2.9 U	3.6 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,2-Dibromoethane	106-93-4	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,2-Dichlorobenzene	95-50-1	1,100	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,2-Dichloroethane	107-06-2	20	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,2-Dichloropropane	78-87-5	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,3,5-Trimethylbenzene	108-67-8	8,400	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,3-Dichlorobenzene	541-73-1	2,400	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,4-Dichlorobenzene	106-46-7	1,800	6 U	3.5 U	4.5 U	2.9 U	3.6 U
1,4-Dioxane	123-91-1	100	120 R	70 R	89 R	57 R	72 R
2-Butanone	78-93-3	120	9.5	2.1 J	4.5 U	2.7 J	2.1 J
2-Hexanone	591-78-6	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
4-Isopropyltoluene	99-87-6	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
4-Methyl-2-Pentanone	108-10-1	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Acetone	67-64-1	50	61	6.5	6.7	8	8.3
Benzene	71-43-2	60	6.9	1.1 J	4.5 U	2.9 U	3.6 U
Bromochloromethane	74-97-5	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Bromodichloromethane	75-27-4	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Bromoform	75-25-2	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Bromomethane	74-83-9	NC	6 U	3.5 UJ	4.5 U	2.9 U	3.6 U
Carbon disulfide	75-15-0	NC	6 U	1.5 J	4.5 U	2.9 U	3.6 U
Carbon Tetrachloride	56-23-5	760	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Chlorobenzene	108-90-7	1,100	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Chloroethane	75-00-3	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Chloroform	67-66-3	370	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Chloromethane	74-87-3	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
cis-1,2-Dichloroethene	156-59-2	250	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Cis-1,3-Dichloropropene	10061-01-5	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Cyclohexane	110-82-7	NC	1.9 J	2.4 J	4.5 U	2.9 U	3.6 U
Dibromochloromethane	124-48-1	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Dichlorodifluoromethane	75-71-8	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Ethylbenzene	100-41-4	1,000	0.31 J	0.23 J	4.5 U	2.9 U	3.6 U
Isopropylbenzene	98-82-8	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
m,p-xylene	XYLMP	See Total Xylenes	4.7 J	1.7 J	8.9 U	5.7 U	7.2 U
Methyl Acetate	79-20-9	NC	9.3	3.5 U	4.5 U	2.9 U	3.6 U
Methylcyclohexane	108-87-2	NC	2.9 J	3.5	4.5 U	2.9 U	3.6 U
Methylene Chloride	75-09-2	50	6 U	3.5 U	4.5 U	2.9 U	3.6 U
MTBE	1634-04-4	930	6 U	3.5 U	4.5 U	2.9 U	3.6 U
n-Butylbenzene	104-51-8	12,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
n-Propylbenzene	103-65-1	3,900	6 U	3.5 U	4.5 U	2.9 U	3.6 U
o-Xylene	95-47-6	See Total Xylenes	6 U	0.49 J	4.5 U	2.9 U	3.6 U
sec-Butylbenzene	135-98-8	11,000	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Styrene	100-42-5	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Tert-Butylbenzene	98-06-6	5,900	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Tetrachloroethene	127-18-4	1,300	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Toluene	108-88-3	700	4.9 J	2.2 J	4.5 U	2.9 U	3.6 U
trans-1,2-Dichloroethene	156-60-5	190	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Trans-1,3-Dichloropropene	10061-02-6	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Trichloroethene	79-01-6	470	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Trichlorofluoromethane	75-69-4	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Trichlorotrifluoroethane	26523-64-8	NC	6 U	3.5 U	4.5 U	2.9 U	3.6 U
Vinyl Chloride	75-01-4	20	6 U	3.5 U	4.5 U	2.9 UJ	3.6 U
Total Xylenes	NA	330	4.7	2.19	0	0	0
TOTAL VOC TICs	NA	NC	33.8	25.7	0	2.9	49.8

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-149	SB-149[BB]	SB-150	SB-152	SB-154
		Sample ID	SB-149-10-11-040616	SB-149-4-5-040616	SB-150-3-4-022916	SB-152-6-7-030316	SB-154-15-17-030316
		Sample Date	4/6/2016	4/6/2016	2/29/2016	3/3/2016	3/3/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1603190	R1603190	R1601741	R1601955	R1601955
		Start Depth	10	4	3	6	15
		End Depth	11	5	4	7	17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	2.7 U	8.8 U	4.8 U	3.9 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U
1,1,2-Trichloroethane	79-00-5	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
1,1-Dichloroethane	75-34-3	270	2.7 U	8.8 U	4.8 U	3.9 U	5 U
1,1-Dichloroethene	75-35-4	330	2.7 U	8.8 U	4.8 U	3.9 U	5 U
1,2,3-Trichlorobenzene	87-61-6	NC	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U
1,2,4-Trichlorobenzene	120-82-1	NC	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U
1,2,4-Trimethylbenzene	95-63-6	3,600	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U
1,2-Dibromoethane	106-93-4	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
1,2-Dichlorobenzene	95-50-1	1,100	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U
1,2-Dichloroethane	107-06-2	20	2.7 U	8.8 U	4.8 U	3.9 U	5 U
1,2-Dichloropropane	78-87-5	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
1,3,5-Trimethylbenzene	108-67-8	8,400	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U
1,3-Dichlorobenzene	541-73-1	2,400	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U
1,4-Dichlorobenzene	106-46-7	1,800	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U
1,4-Dioxane	123-91-1	100	53 R	180 R	97 R	77 R	100 R
2-Butanone	78-93-3	120	2.5 J	8.8 U	3.4 J	2.1 J	4.2 J
2-Hexanone	591-78-6	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
4-Isopropyltoluene	99-87-6	NC	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U
4-Methyl-2-Pentanone	108-10-1	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Acetone	67-64-1	50	12	8.8 U	16	7	24
Benzene	71-43-2	60	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Bromochloromethane	74-97-5	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Bromodichloromethane	75-27-4	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Bromoform	75-25-2	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Bromomethane	74-83-9	NC	2.7 U	8.8 U	4.8 UJ	3.9 U	5 R
Carbon disulfide	75-15-0	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Carbon Tetrachloride	56-23-5	760	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Chlorobenzene	108-90-7	1,100	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Chloroethane	75-00-3	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Chloroform	67-66-3	370	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Chloromethane	74-87-3	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 UJ
cis-1,2-Dichloroethene	156-59-2	250	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Cis-1,3-Dichloropropene	10061-01-5	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Cyclohexane	110-82-7	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Dibromochloromethane	124-48-1	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Dichlorodifluoromethane	75-71-8	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Ethylbenzene	100-41-4	1,000	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Isopropylbenzene	98-82-8	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
m,p-xylene	XYLMP	See Total Xylenes	5.3 U	18 U	9.7 U	7.7 U	10 U
Methyl Acetate	79-20-9	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Methylcyclohexane	108-87-2	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Methylene Chloride	75-09-2	50	2.7 U	8.8 U	4.8 U	3.9 U	5 U
MTBE	1634-04-4	930	2.7 U	8.8 U	4.8 U	3.9 U	5 U
n-Butylbenzene	104-51-8	12,000	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U
n-Propylbenzene	103-65-1	3,900	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U
o-Xylene	95-47-6	See Total Xylenes	2.7 U	8.8 U	4.8 U	3.9 U	5 U
sec-Butylbenzene	135-98-8	11,000	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U
Styrene	100-42-5	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Tert-Butylbenzene	98-06-6	5,900	2.7 U	8.8 U	4.8 UJ	3.9 U	5 U
Tetrachloroethene	127-18-4	1,300	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Toluene	108-88-3	700	2.7 U	8.8 U	1.1 J	3.9 U	5 U
trans-1,2-Dichloroethene	156-60-5	190	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Trans-1,3-Dichloropropene	10061-02-6	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Trichloroethene	79-01-6	470	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Trichlorofluoromethane	75-69-4	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Trichlorotrifluoroethane	26523-64-8	NC	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Vinyl Chloride	75-01-4	20	2.7 U	8.8 U	4.8 U	3.9 U	5 U
Total Xylenes	NA	330	0	0	0	0	0
TOTAL VOC TICs	NA	NC	27.9	0	12.8	89	100

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SB-156	SB-157	SB-158	SB-159	SB-160
	Sample ID	SB-156-16-17-030916	SB-157-20.5-21.5-030916	SB-158-16-17.5-030816	SB-159-17-18-030916	SB-160-4-5-030916
	Sample Date	3/9/2016	3/9/2016	3/8/2016	3/9/2016	3/9/2016
	Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	Lab SDG	R1602058	R1602058	R1602058	R1602058	R1602058
	Start Depth	16	20.5	16	17	4
	End Depth	17	21.5	17.5	18	5
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]				
VOCs						
1,1,1-Trichloroethane	71-55-6	680	3 U	2.2 U	3.4 U	3.4 U	2.1 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
1,1,2-Trichloroethane	79-00-5	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
1,1-Dichloroethane	75-34-3	270	3 U	2.2 U	3.4 U	3.4 U	2.1 U
1,1-Dichloroethene	75-35-4	330	3 U	2.2 U	3.4 U	3.4 U	2.1 U
1,2,3-Trichlorobenzene	87-61-6	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
1,2,4-Trichlorobenzene	120-82-1	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
1,2,4-Trimethylbenzene	95-63-6	3,600	0.56 J	2.2 U	3.4 U	3.4 U	2.1 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
1,2-Dibromoethane	106-93-4	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
1,2-Dichlorobenzene	95-50-1	1,100	3 U	2.2 U	3.4 U	3.4 U	2.1 U
1,2-Dichloroethane	107-06-2	20	3 U	2.2 U	3.4 U	3.4 U	2.1 U
1,2-Dichloropropane	78-87-5	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
1,3,5-Trimethylbenzene	108-67-8	8,400	3 U	2.2 U	3.4 U	3.4 U	2.1 U
1,3-Dichlorobenzene	541-73-1	2,400	3 U	2.2 U	3.4 U	3.4 U	2.1 U
1,4-Dichlorobenzene	106-46-7	1,800	3 U	2.2 U	3.4 U	3.4 U	2.1 U
1,4-Dioxane	123-91-1	100	60 R	45 R	68 R	68 R	42 R
2-Butanone	78-93-3	120	3 U	2.7	3.4 U	3.4 U	2.1 U
2-Hexanone	591-78-6	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
4-Isopropyltoluene	99-87-6	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
4-Methyl-2-Pentanone	108-10-1	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Acetone	67-64-1	50	3 U	10	3.8	3 J	2.1 U
Benzene	71-43-2	60	0.96 J	2.2 U	0.21 J	3.4 U	2.1 U
Bromochloromethane	74-97-5	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Bromodichloromethane	75-27-4	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Bromoform	75-25-2	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Bromomethane	74-83-9	NC	3 UJ	2.2 UJ	3.4 UJ	3.4 UJ	2.1 UJ
Carbon disulfide	75-15-0	NC	1.4 J	2.2 U	3.4 U	3.4 U	2.1 U
Carbon Tetrachloride	56-23-5	760	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Chlorobenzene	108-90-7	1,100	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Chloroethane	75-00-3	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Chloroform	67-66-3	370	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Chloromethane	74-87-3	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
cis-1,2-Dichloroethene	156-59-2	250	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Cis-1,3-Dichloropropene	10061-01-5	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Cyclohexane	110-82-7	NC	1.9 J	2.2 U	3.4 U	3.4 U	2.1 U
Dibromochloromethane	124-48-1	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Dichlorodifluoromethane	75-71-8	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Ethylbenzene	100-41-4	1,000	0.2 J	2.2 U	3.4 U	3.4 U	2.1 U
Isopropylbenzene	98-82-8	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
m,p-xylene	XYLMP	See Total Xylenes	1.3 J	4.5 U	6.8 U	6.8 U	4.2 U
Methyl Acetate	79-20-9	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Methylcyclohexane	108-87-2	NC	2.7 J	2.2 U	0.87 J	3.4 U	2.1 U
Methylene Chloride	75-09-2	50	3 U	2.2 U	3.4 U	3.4 U	2.1 U
MTBE	1634-04-4	930	3 U	2.2 U	3.4 U	3.4 U	2.1 U
n-Butylbenzene	104-51-8	12,000	3 U	2.2 U	3.4 U	3.4 U	2.1 U
n-Propylbenzene	103-65-1	3,900	3 U	2.2 U	3.4 U	3.4 U	2.1 U
o-Xylene	95-47-6	See Total Xylenes	0.39 J	2.2 U	3.4 U	3.4 U	2.1 U
sec-Butylbenzene	135-98-8	11,000	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Styrene	100-42-5	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Tert-Butylbenzene	98-06-6	5,900	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Tetrachloroethene	127-18-4	1,300	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Toluene	108-88-3	700	1.7 J	2.2 U	3.4 U	3.4 U	2.1 U
trans-1,2-Dichloroethene	156-60-5	190	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Trans-1,3-Dichloropropene	10061-02-6	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Trichloroethene	79-01-6	470	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Trichlorofluoromethane	75-69-4	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Trichlorotrifluoroethane	26523-64-8	NC	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Vinyl Chloride	75-01-4	20	3 U	2.2 U	3.4 U	3.4 U	2.1 U
Total Xylenes	NA	330	1.69	0	0	0	0
TOTAL VOC TICs	NA	NC	26.1	0	0	0	0

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-162	SB-163	SB-164	SB-165	SB-166
		Sample ID	SB-162-19-20-030816	SB-163-13.5-16-030816	SB-164-4-5.9-030716	SB-165-22-23-030716	SB-166-13-15-030816
		Sample Date	3/8/2016	3/8/2016	3/7/2016	3/7/2016	3/8/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1602058	R1602058	R1601955	R1601955	R1602058
		Start Depth	19	13.5	4	22	13
		End Depth	20	16	5.9	23	15
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
1,1,2-Trichloroethane	79-00-5	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
1,1-Dichloroethane	75-34-3	270	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
1,1-Dichloroethene	75-35-4	330	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
1,2,3-Trichlorobenzene	87-61-6	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
1,2,4-Trichlorobenzene	120-82-1	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
1,2,4-Trimethylbenzene	95-63-6	3,600	4.9 U	3.7 U	1.5 J	3.4 U	2.4 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
1,2-Dibromoethane	106-93-4	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
1,2-Dichlorobenzene	95-50-1	1,100	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
1,2-Dichloroethane	107-06-2	20	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
1,2-Dichloropropane	78-87-5	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
1,3,5-Trimethylbenzene	108-67-8	8,400	4.9 U	3.7 U	0.9 J	3.4 U	2.4 U
1,3-Dichlorobenzene	541-73-1	2,400	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
1,4-Dichlorobenzene	106-46-7	1,800	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
1,4-Dioxane	123-91-1	100	98 R	73 R	92 R	68 R	49 R
2-Butanone	78-93-3	120	6.4	2 J	4.6 U	2.3 J	2.4 U
2-Hexanone	591-78-6	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
4-Isopropyltoluene	99-87-6	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
4-Methyl-2-Pentanone	108-10-1	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Acetone	67-64-1	50	18	10 J	14	13	2.4 U
Benzene	71-43-2	60	4.9 U	3.7 U	2.9 J	3.4 U	2.4 U
Bromochloromethane	74-97-5	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Bromodichloromethane	75-27-4	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Bromoform	75-25-2	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Bromomethane	74-83-9	NC	4.9 UJ	3.7 UJ	4.6 U	3.4 U	2.4 UJ
Carbon disulfide	75-15-0	NC	1.8 J	3.7 U	4.6 U	4.7	2.4 U
Carbon Tetrachloride	56-23-5	760	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Chlorobenzene	108-90-7	1,100	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Chloroethane	75-00-3	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Chloroform	67-66-3	370	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Chloromethane	74-87-3	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
cis-1,2-Dichloroethene	156-59-2	250	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Cis-1,3-Dichloropropene	10061-01-5	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Cyclohexane	110-82-7	NC	4.9 U	3.7 U	8.6	3.4 U	2.4 U
Dibromochloromethane	124-48-1	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Dichlorodifluoromethane	75-71-8	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Ethylbenzene	100-41-4	1,000	4.9 U	3.7 U	0.48 J	3.4 U	2.4 U
Isopropylbenzene	98-82-8	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
m,p-xylene	XYLMP	See Total Xylenes	9.8 U	7.3 U	4.6 J	6.8 U	4.9 U
Methyl Acetate	79-20-9	NC	4.9 U	3.7 U	3.1 J	3.4 U	2.4 U
Methylcyclohexane	108-87-2	NC	4.9 U	3.7 U	11	3.4 U	2.4 U
Methylene Chloride	75-09-2	50	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
MTBE	1634-04-4	930	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
n-Butylbenzene	104-51-8	12,000	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
n-Propylbenzene	103-65-1	3,900	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
o-Xylene	95-47-6	See Total Xylenes	4.9 U	3.7 U	1.1 J	3.4 U	2.4 U
sec-Butylbenzene	135-98-8	11,000	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Styrene	100-42-5	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Tert-Butylbenzene	98-06-6	5,900	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Tetrachloroethene	127-18-4	1,300	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Toluene	108-88-3	700	4.9 U	3.7 U	5.4	3.4 U	2.4 U
trans-1,2-Dichloroethene	156-60-5	190	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Trans-1,3-Dichloropropene	10061-02-6	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Trichloroethene	79-01-6	470	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Trichlorofluoromethane	75-69-4	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Trichlorotrifluoroethane	26523-64-8	NC	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Vinyl Chloride	75-01-4	20	4.9 U	3.7 U	4.6 U	3.4 U	2.4 U
Total Xylenes	NA	330	0	0	5.7	0	0
TOTAL VOC TICs	NA	NC	0	0	154.1	38.6	2.6

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-167	SB-168	SB-169	SB-170	SB-171
		Sample ID	SB-167-18-19-030716	SB-168-16-17-030816	SB-169-16-17-030716	SB-170-16-16.8-022916	SB-171-15-16-022916
		Sample Date	3/7/2016	3/8/2016	3/7/2016	2/29/2016	2/29/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1601955	R1602058	R1601955	R1601741	R1601741
		Start Depth	18	16	16	16	15
		End Depth	19	17	17	16.8	16
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	220 U	220 U	870 U	2.1 U	320 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	220 U	220 U	870 U	2.1 U	320 U
1,1,2-Trichloroethane	79-00-5	NC	220 U	220 U	870 U	2.1 U	320 U
1,1-Dichloroethane	75-34-3	270	220 U	220 U	870 U	2.1 U	320 U
1,1-Dichloroethene	75-35-4	330	220 U	220 U	870 U	2.1 U	320 U
1,2,3-Trichlorobenzene	87-61-6	NC	220 U	220 U	870 U	2.1 U	320 U
1,2,4-Trichlorobenzene	120-82-1	NC	220 U	220 U	870 U	2.1 U	320 U
1,2,4-Trimethylbenzene	95-63-6	3,600	220 U	220 U	31,000	2.1 U	320 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	220 U	220 U	870 U	2.1 U	320 U
1,2-Dibromoethane	106-93-4	NC	220 U	220 U	870 U	2.1 U	320 U
1,2-Dichlorobenzene	95-50-1	1,100	220 U	220 U	870 U	2.1 U	320 U
1,2-Dichloroethane	107-06-2	20	220 U	220 U	870 U	2.1 U	320 U
1,2-Dichloropropane	78-87-5	NC	220 U	220 U	870 U	2.1 U	320 U
1,3,5-Trimethylbenzene	108-67-8	8,400	690	220 U	20,000	2.1 U	7,500
1,3-Dichlorobenzene	541-73-1	2,400	220 U	220 U	870 U	2.1 U	320 U
1,4-Dichlorobenzene	106-46-7	1,800	220 U	220 U	870 U	2.1 U	320 U
1,4-Dioxane	123-91-1	100	4,400 R	4,400 R	17,000 R	42 R	6,400 R
2-Butanone	78-93-3	120	220 U	220 U	870 U	2.1 U	320 U
2-Hexanone	591-78-6	NC	220 U	220 U	870 U	2.1 U	320 U
4-Isopropyltoluene	99-87-6	NC	220 U	220 U	1,000	2.1 U	320 U
4-Methyl-2-Pentanone	108-10-1	NC	220 U	220 U	870 U	2.1 U	320 U
Acetone	67-64-1	50	220 U	220 U	870 U	2.2	320 U
Benzene	71-43-2	60	220 U	220 U	870 U	2.1 U	320 U
Bromochloromethane	74-97-5	NC	220 U	220 U	870 U	2.1 U	320 U
Bromodichloromethane	75-27-4	NC	220 U	220 U	870 U	2.1 U	320 U
Bromoform	75-25-2	NC	220 U	220 U	870 U	2.1 U	320 U
Bromomethane	74-83-9	NC	220 U	220 U	870 U	2.1 U	320 U
Carbon disulfide	75-15-0	NC	220 U	220 U	870 U	1 J	320 U
Carbon Tetrachloride	56-23-5	760	220 U	220 U	870 U	2.1 U	320 U
Chlorobenzene	108-90-7	1,100	220 U	220 U	870 U	2.1 U	320 U
Chloroethane	75-00-3	NC	220 U	220 U	870 U	2.1 U	320 U
Chloroform	67-66-3	370	220 U	220 U	870 U	2.1 U	320 U
Chloromethane	74-87-3	NC	220 U	220 U	870 U	2.1 U	320 U
cis-1,2-Dichloroethene	156-59-2	250	220 U	220 U	870 U	2.1 U	320 U
Cis-1,3-Dichloropropene	10061-01-5	NC	220 U	220 U	870 U	2.1 U	320 U
Cyclohexane	110-82-7	NC	220 U	220 U	49,000	2.1 U	320 U
Dibromochloromethane	124-48-1	NC	220 U	220 U	870 U	2.1 U	320 U
Dichlorodifluoromethane	75-71-8	NC	220 U	220 U	870 U	2.1 U	320 U
Ethylbenzene	100-41-4	1,000	220 U	220 U	160 J	2.1 U	320 U
Isopropylbenzene	98-82-8	NC	220 U	220 U	2,100	2.1 U	320 U
m,p-xylene	XYLMP	See Total Xylenes	440 U	440 U	88,000	4.2 U	640 U
Methyl Acetate	79-20-9	NC	220 U	220 U	870 U	2.1 U	320 U
Methylcyclohexane	108-87-2	NC	580	220 U	140,000	2.1 U	320 U
Methylene Chloride	75-09-2	50	220 U	220 U	870 U	2.1 U	320 U
MTBE	1634-04-4	930	220 U	220 U	870 U	2.1 U	320 U
n-Butylbenzene	104-51-8	12,000	88 J	220 U	870 U	2.1 U	320 U
n-Propylbenzene	103-65-1	3,900	220 U	220 U	2,300	2.1 U	320 U
o-Xylene	95-47-6	See Total Xylenes	220 U	220 U	110 J	2.1 U	320 U
sec-Butylbenzene	135-98-8	11,000	62 J	220 U	710 J	2.1 U	170 J
Styrene	100-42-5	NC	220 U	220 U	870 U	2.1 U	320 U
Tert-Butylbenzene	98-06-6	5,900	220 U	220 U	180 J	0.32 J	130 J
Tetrachloroethene	127-18-4	1,300	220 U	220 U	870 U	2.1 U	320 U
Toluene	108-88-3	700	220 U	220 U	870 U	2.1 U	320 U
trans-1,2-Dichloroethene	156-60-5	190	220 U	220 U	870 U	2.1 U	320 U
Trans-1,3-Dichloropropene	10061-02-6	NC	220 U	220 U	870 U	2.1 U	320 U
Trichloroethene	79-01-6	470	220 U	220 U	870 U	2.1 U	320 U
Trichlorofluoromethane	75-69-4	NC	220 U	220 U	870 U	2.1 U	320 U
Trichlorotrifluoroethane	26523-64-8	NC	220 U	220 U	870 U	2.1 U	320 U
Vinyl Chloride	75-01-4	20	220 U	220 U	870 U	2.1 U	320 U
Total Xylenes	NA	330	0	0	88,110	0	0
TOTAL VOC TICs	NA	NC	8,360	6,660	315,000	21.6	57,700

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-172	SB-172	SB-173	SB-173	SB-174
		Sample ID	SB-172-8.5-9.7-090717	SB-172-8.8-9.6-082217	SB-173-12-15-082117	SB-173-12-15-090717	SB-174-12.5-15-082117
		Sample Date	9/7/2017	8/22/2017	8/21/2017	9/7/2017	8/21/2017
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1708422	R1707777	R1707777	R1708422	R1707777
		Start Depth	8.5	8.8	12	12	12.5
		End Depth	9.7	9.6	15	15	15
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
1,1,2-Trichloroethane	79-00-5	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
1,1-Dichloroethane	75-34-3	270	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
1,1-Dichloroethene	75-35-4	330	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
1,2,3-Trichlorobenzene	87-61-6	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
1,2,4-Trichlorobenzene	120-82-1	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
1,2,4-Trimethylbenzene	95-63-6	3,600	4.2 U	6.6	6.3 U	4.2 U	6.6 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	4.2 UJ	5.5 U	6.3 U	4.2 UJ	6.6 U
1,2-Dibromoethane	106-93-4	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
1,2-Dichlorobenzene	95-50-1	1,100	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
1,2-Dichloroethane	107-06-2	20	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
1,2-Dichloropropane	78-87-5	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
1,3,5-Trimethylbenzene	108-67-8	8,400	4.2 U	3.2 J	6.3 U	4.2 U	6.6 U
1,3-Dichlorobenzene	541-73-1	2,400	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
1,4-Dichlorobenzene	106-46-7	1,800	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
1,4-Dioxane	123-91-1	100	84 R	110 U	130 U	84 R	130 U
2-Butanone	78-93-3	120	3.8 J	5.5 U	6.3 U	4.2 U	6.6 U
2-Hexanone	591-78-6	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
4-Isopropyltoluene	99-87-6	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
4-Methyl-2-Pentanone	108-10-1	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Acetone	67-64-1	50	24	6.2	6.3 U	4.2 U	6.6 U
Benzene	71-43-2	60	4.2 U	1.7 J	6.3 U	4.2 U	6.6 U
Bromochloromethane	74-97-5	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Bromodichloromethane	75-27-4	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Bromoform	75-25-2	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Bromomethane	74-83-9	NC	4.2 UJ	5.5 U	6.3 U	4.2 UJ	6.6 U
Carbon disulfide	75-15-0	NC	4.2 U	2.2 J	6.3 U	4.2 U	6.6 U
Carbon Tetrachloride	56-23-5	760	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Chlorobenzene	108-90-7	1,100	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Chloroethane	75-00-3	NC	4.2 UJ	5.5 U	6.3 U	4.2 UJ	6.6 U
Chloroform	67-66-3	370	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Chloromethane	74-87-3	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
cis-1,2-Dichloroethene	156-59-2	250	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Cis-1,3-Dichloropropene	10061-01-5	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Cyclohexane	110-82-7	NC	4.2 U	7.3	6.3 U	4.2 U	6.6 U
Dibromochloromethane	124-48-1	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Dichlorodifluoromethane	75-71-8	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Ethylbenzene	100-41-4	1,000	4.2 U	1.4 J	6.3 U	4.2 U	6.6 U
Isopropylbenzene	98-82-8	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
m,p-xylene	XYLMP	See Total Xylenes	8.4 U	11	13 U	8.4 U	13 U
Methyl Acetate	79-20-9	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Methylcyclohexane	108-87-2	NC	4.2 U	14	6.3 U	4.2 U	6.6 U
Methylene Chloride	75-09-2	50	4.2 U	0.87 J	1 J	4.2 U	1.2 J
MTBE	1634-04-4	930	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
n-Butylbenzene	104-51-8	12,000	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
n-Propylbenzene	103-65-1	3,900	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
o-Xylene	95-47-6	See Total Xylenes	4.2 U	2.9 J	6.3 U	4.2 U	6.6 U
sec-Butylbenzene	135-98-8	11,000	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Styrene	100-42-5	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Tert-Butylbenzene	98-06-6	5,900	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Tetrachloroethene	127-18-4	1,300	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Toluene	108-88-3	700	4.2 U	7.2	6.3 U	4.2 U	6.6 U
trans-1,2-Dichloroethene	156-60-5	190	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Trans-1,3-Dichloropropene	10061-02-6	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Trichloroethene	79-01-6	470	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Trichlorofluoromethane	75-69-4	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Trichlorotrifluoroethane	26523-64-8	NC	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Vinyl Chloride	75-01-4	20	4.2 U	5.5 U	6.3 U	4.2 U	6.6 U
Total Xylenes	NA	330	NA	NA	NA	NA	NA
TOTAL VOC TICs	NA	NC	NT	NT	NT	NT	NT

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-174	SB-176	SB-TP-131	SB-TP-139[BB]	SB-TP-139[BB]
		Sample ID	SB-174-12.5-15-090717	SB-176-6-7-041216	SB-TP-131-5-7-031516	DUP-001-030716	SB-TP-139-12-14-030716
		Sample Date	9/7/2017	4/12/2016	3/15/2016	3/7/2016	3/7/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1708422	R1603190	R1602333	R1601955	R1601955
		Start Depth	12.5	6	5	12	12
		End Depth	15	7	7	14	14
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	4.2 U	210 U	2.9 U	3.3 U	4.2 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
1,1,2-Trichloroethane	79-00-5	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
1,1-Dichloroethane	75-34-3	270	4.2 U	66 J	2.9 U	3.3 U	4.2 U
1,1-Dichloroethene	75-35-4	330	4.2 U	210 U	2.9 U	3.3 U	4.2 U
1,2,3-Trichlorobenzene	87-61-6	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
1,2,4-Trichlorobenzene	120-82-1	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
1,2,4-Trimethylbenzene	95-63-6	3,600	4.2 U	210 U	2.9 U	3.3 U	4.2 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	4.2 UJ	210 U	2.9 U	3.3 U	4.2 U
1,2-Dibromoethane	106-93-4	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
1,2-Dichlorobenzene	95-50-1	1,100	4.2 U	210 U	2.9 U	3.3 U	4.2 U
1,2-Dichloroethane	107-06-2	20	4.2 U	210 U	2.9 U	3.3 U	4.2 U
1,2-Dichloropropane	78-87-5	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
1,3,5-Trimethylbenzene	108-67-8	8,400	4.2 U	210 U	2.9 U	3.3 U	4.2 U
1,3-Dichlorobenzene	541-73-1	2,400	4.2 U	210 U	2.9 U	3.3 U	4.2 U
1,4-Dichlorobenzene	106-46-7	1,800	4.2 U	210 U	2.9 U	3.3 U	4.2 U
1,4-Dioxane	123-91-1	100	84 R	4,100 R	59 R	67 R	83 R
2-Butanone	78-93-3	120	4.2 U	210 U	7.3	3.3 U	4.2 U
2-Hexanone	591-78-6	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
4-Isopropyltoluene	99-87-6	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
4-Methyl-2-Pentanone	108-10-1	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Acetone	67-64-1	50	4.2 U	210 U	23	3.3 U	4.2 U
Benzene	71-43-2	60	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Bromochloromethane	74-97-5	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Bromodichloromethane	75-27-4	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Bromoform	75-25-2	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Bromomethane	74-83-9	NC	4.2 UJ	210 U	2.9 U	3.3 UJ	4.2 U
Carbon disulfide	75-15-0	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Carbon Tetrachloride	56-23-5	760	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Chlorobenzene	108-90-7	1,100	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Chloroethane	75-00-3	NC	4.2 UJ	210 U	2.9 U	3.3 U	4.2 U
Chloroform	67-66-3	370	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Chloromethane	74-87-3	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
cis-1,2-Dichloroethene	156-59-2	250	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Cis-1,3-Dichloropropene	10061-01-5	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Cyclohexane	110-82-7	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Dibromochloromethane	124-48-1	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Dichlorodifluoromethane	75-71-8	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Ethylbenzene	100-41-4	1,000	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Isopropylbenzene	98-82-8	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
m,p-xylene	XYLMP	See Total Xylenes	8.4 U	410 U	5.9 U	6.7 U	8.3 U
Methyl Acetate	79-20-9	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Methylcyclohexane	108-87-2	NC	4.2 U	210 U	3.6	3.3 U	4.2 U
Methylene Chloride	75-09-2	50	4.2 U	210 U	2.9 U	3.3 U	4.2 U
MTBE	1634-04-4	930	4.2 U	210 U	2.9 U	3.3 U	4.2 U
n-Butylbenzene	104-51-8	12,000	4.2 U	63 J	2.9 U	3.3 U	4.2 U
n-Propylbenzene	103-65-1	3,900	4.2 U	210 U	2.9 U	3.3 U	4.2 U
o-Xylene	95-47-6	See Total Xylenes	4.2 U	210 U	2.9 U	3.3 U	4.2 U
sec-Butylbenzene	135-98-8	11,000	4.2 U	230	2.9 U	3.3 U	4.2 U
Styrene	100-42-5	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Tert-Butylbenzene	98-06-6	5,900	4.2 U	110 J	1.7 J	3.3 U	4.2 U
Tetrachloroethene	127-18-4	1,300	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Toluene	108-88-3	700	4.2 U	210 U	2.9 U	3.3 U	4.2 U
trans-1,2-Dichloroethene	156-60-5	190	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Trans-1,3-Dichloropropene	10061-02-6	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Trichloroethene	79-01-6	470	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Trichlorofluoromethane	75-69-4	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Trichlorotrifluoroethane	26523-64-8	NC	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Vinyl Chloride	75-01-4	20	4.2 U	210 U	2.9 U	3.3 U	4.2 U
Total Xylenes	NA	330	NA	0	0	0	0
TOTAL VOC TICs	NA	NC	NT	65,300	133.7	15.4	40

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-TP-144	SB-TP-147	TP-101	TP-103	TP-103
		Sample ID	SB-TP-144-4-6-030916	SB-TP-147-16-18-031016	TP-101-2-4-012116	DUP-008-012116	TP-103-0-2-012116
		Sample Date	3/9/2016	3/10/2016	1/21/2016	1/21/2016	1/21/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1602058	R1602058	R1600468	R1600468	R1600468
		Start Depth	4	16	2	0	0
		End Depth	6	18	4	2	2
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
1,1,2-Trichloroethane	79-00-5	NC	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
1,1-Dichloroethane	75-34-3	270	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
1,1-Dichloroethene	75-35-4	330	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
1,2,3-Trichlorobenzene	87-61-6	NC	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
1,2,4-Trichlorobenzene	120-82-1	NC	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
1,2,4-Trimethylbenzene	95-63-6	3,600	3.2 U	1.2 J	5.7 R	5.2 U	3.7 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
1,2-Dibromoethane	106-93-4	NC	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
1,2-Dichlorobenzene	95-50-1	1,100	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
1,2-Dichloroethane	107-06-2	20	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
1,2-Dichloropropane	78-87-5	NC	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
1,3,5-Trimethylbenzene	108-67-8	8,400	3.2 U	0.53 J	5.7 R	5.2 U	3.7 U
1,3-Dichlorobenzene	541-73-1	2,400	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
1,4-Dichlorobenzene	106-46-7	1,800	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
1,4-Dioxane	123-91-1	100	64 R	54 R	110 R	100 R	74 R
2-Butanone	78-93-3	120	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
2-Hexanone	591-78-6	NC	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
4-Isopropyltoluene	99-87-6	NC	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
4-Methyl-2-Pentanone	108-10-1	NC	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
Acetone	67-64-1	50	3.2 U	2.4 J	5.7 R	3.3 J	83 J
Benzene	71-43-2	60	3.2 U	1.5 J	5.7 R	5.2 U	3.7 U
Bromochloromethane	74-97-5	NC	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
Bromodichloromethane	75-27-4	NC	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
Bromoform	75-25-2	NC	3.2 U	2.7 U	5.7 U	5.2 U	3.7 U
Bromomethane	74-83-9	NC	3.2 UJ	2.7 U	6.3 J	5.2 U	3.7 U
Carbon disulfide	75-15-0	NC	3.2 U	3.2	5.7 R	5.2 U	3.7 U
Carbon Tetrachloride	56-23-5	760	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
Chlorobenzene	108-90-7	1,100	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
Chloroethane	75-00-3	NC	3.2 U	2.7 U	5.7 R	5.2 UJ	3.7 UJ
Chloroform	67-66-3	370	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
Chloromethane	74-87-3	NC	3.2 U	2.7 U	2 J	5.2 U	3.7 U
cis-1,2-Dichloroethene	156-59-2	250	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
Cis-1,3-Dichloropropene	10061-01-5	NC	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
Cyclohexane	110-82-7	NC	3.2 U	3.2	5.7 R	5.2 U	3.7 U
Dibromochloromethane	124-48-1	NC	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
Dichlorodifluoromethane	75-71-8	NC	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
Ethylbenzene	100-41-4	1,000	3.2 U	0.34 J	5.7 R	5.2 U	3.7 U
Isopropylbenzene	98-82-8	NC	3.2 U	2.7 U	5.7 UJ	5.2 U	3.7 U
m,p-xylene	XYLMP	See Total Xylenes	6.4 U	2.5 J	11 R	10 U	7.4 U
Methyl Acetate	79-20-9	NC	3.2 U	2.7 U	25	5.2 U	3.2 J
Methylcyclohexane	108-87-2	NC	3.2 U	5.1	5.7 R	5.2 U	3.7 U
Methylene Chloride	75-09-2	50	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
MTBE	1634-04-4	930	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
n-Butylbenzene	104-51-8	12,000	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
n-Propylbenzene	103-65-1	3,900	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
o-Xylene	95-47-6	See Total Xylenes	3.2 U	0.74 J	5.7 R	5.2 U	3.7 U
sec-Butylbenzene	135-98-8	11,000	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
Styrene	100-42-5	NC	3.2 U	0.32 J	5.7 R	5.2 U	3.7 U
Tert-Butylbenzene	98-06-6	5,900	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
Tetrachloroethene	127-18-4	1,300	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
Toluene	108-88-3	700	3.2 U	3	3.8 J	5.2 U	3.7 U
trans-1,2-Dichloroethene	156-60-5	190	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
Trans-1,3-Dichloropropene	10061-02-6	NC	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
Trichloroethene	79-01-6	470	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
Trichlorofluoromethane	75-69-4	NC	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
Trichlorotrifluoroethane	26523-64-8	NC	3.2 U	2.7 U	5.7 U	5.2 U	3.7 U
Vinyl Chloride	75-01-4	20	3.2 U	2.7 U	5.7 R	5.2 U	3.7 U
Total Xylenes	NA	330	0	3.24	R	0	0
TOTAL VOC TICs	NA	NC	4.4	45.4	41.8	0	0

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	TP-104	TP-106	TP-107	TP-108	TP-109[BB]
		Sample ID	TP-104-0-2-012216	TP-106-1.5-4-012216	TP-107-0-2-012216	TP-108-0-1.5-012516	TP-109-4-4.5-012516
		Sample Date	1/22/2016	1/22/2016	1/22/2016	1/25/2016	1/25/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1600468	R1600468	R1600468	R1600634	R1600634
		Start Depth	0	1.5	0	0	4
		End Depth	2	4	2	1.5	4.5
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	13 U	11 U	9.9 U	4.9 U	4.3 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
1,1,2-Trichloroethane	79-00-5	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
1,1-Dichloroethane	75-34-3	270	13 U	11 U	9.9 U	4.9 UJ	4.3 UJ
1,1-Dichloroethene	75-35-4	330	13 U	11 U	9.9 U	4.9 UJ	4.3 U
1,2,3-Trichlorobenzene	87-61-6	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
1,2,4-Trichlorobenzene	120-82-1	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
1,2,4-Trimethylbenzene	95-63-6	3,600	13 U	11 U	9.9 U	4.9 U	4.3 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
1,2-Dibromoethane	106-93-4	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
1,2-Dichlorobenzene	95-50-1	1,100	13 U	11 U	9.9 U	4.9 U	4.3 U
1,2-Dichloroethane	107-06-2	20	13 U	11 U	9.9 U	4.9 U	4.3 U
1,2-Dichloropropane	78-87-5	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
1,3,5-Trimethylbenzene	108-67-8	8,400	13 U	11 U	9.9 U	4.9 U	4.3 U
1,3-Dichlorobenzene	541-73-1	2,400	13 U	11 U	9.9 U	4.9 U	4.3 U
1,4-Dichlorobenzene	106-46-7	1,800	13 U	11 U	9.9 U	4.9 U	4.3 U
1,4-Dioxane	123-91-1	100	260 R	230 R	200 R	99 R	86 R
2-Butanone	78-93-3	120	13 U	11 U	9.9 U	4.9 U	4.3 U
2-Hexanone	591-78-6	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
4-Isopropyltoluene	99-87-6	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
4-Methyl-2-Pentanone	108-10-1	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
Acetone	67-64-1	50	28	22	9.9 U	18 J	4.3 UJ
Benzene	71-43-2	60	13 U	11 U	9.9 U	4.9 U	4.3 U
Bromochloromethane	74-97-5	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
Bromodichloromethane	75-27-4	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
Bromoform	75-25-2	NC	13 U	11 U	9.9 U	4.9 UJ	4.3 UJ
Bromomethane	74-83-9	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
Carbon disulfide	75-15-0	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
Carbon Tetrachloride	56-23-5	760	13 U	11 UJ	9.9 U	4.9 U	4.3 U
Chlorobenzene	108-90-7	1,100	13 U	11 U	9.9 U	4.9 U	4.3 U
Chloroethane	75-00-3	NC	13 UJ	11 UJ	9.9 UJ	4.9 U	4.3 U
Chloroform	67-66-3	370	13 U	11 U	9.9 U	4.9 U	4.3 U
Chloromethane	74-87-3	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
cis-1,2-Dichloroethene	156-59-2	250	13 U	11 U	9.9 U	4.9 U	4.3 U
Cis-1,3-Dichloropropene	10061-01-5	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
Cyclohexane	110-82-7	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
Dibromochloromethane	124-48-1	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
Dichlorodifluoromethane	75-71-8	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
Ethylbenzene	100-41-4	1,000	13 U	11 U	9.9 U	4.9 U	4.3 U
Isopropylbenzene	98-82-8	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
m,p-xylene	XYLMP	See Total Xylenes	26 U	23 U	20 U	9.9 U	8.6 U
Methyl Acetate	79-20-9	NC	13 U	7 J	9.9 U	4.9 U	4.3 U
Methylcyclohexane	108-87-2	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
Methylene Chloride	75-09-2	50	13 U	11 U	9.9 U	4.9 U	4.3 U
MTBE	1634-04-4	930	13 U	11 U	9.9 U	4.9 U	4.3 U
n-Butylbenzene	104-51-8	12,000	13 U	11 U	9.9 U	4.9 U	4.3 U
n-Propylbenzene	103-65-1	3,900	13 U	11 U	9.9 U	4.9 U	4.3 U
o-Xylene	95-47-6	See Total Xylenes	13 U	11 U	9.9 U	4.9 U	4.3 U
sec-Butylbenzene	135-98-8	11,000	13 U	11 U	9.9 U	4.9 U	4.3 U
Styrene	100-42-5	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
Tert-Butylbenzene	98-06-6	5,900	13 U	11 U	9.9 U	4.9 U	4.3 U
Tetrachloroethene	127-18-4	1,300	13 U	11 U	9.9 U	4.9 U	4.3 U
Toluene	108-88-3	700	13 U	11 U	9.9 U	4.9 U	4.3 U
trans-1,2-Dichloroethene	156-60-5	190	13 U	11 U	9.9 U	4.9 U	4.3 U
Trans-1,3-Dichloropropene	10061-02-6	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
Trichloroethene	79-01-6	470	13 U	11 U	9.9 U	4.9 U	4.3 U
Trichlorofluoromethane	75-69-4	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
Trichlorotrifluoroethane	26523-64-8	NC	13 U	11 U	9.9 U	4.9 U	4.3 U
Vinyl Chloride	75-01-4	20	13 U	11 U	9.9 U	4.9 U	4.3 U
Total Xylenes	NA	330	0	0	0	0	0
TOTAL VOC TICs	NA	NC	0	0	0	5.5	0

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	TP-110	TP-112	TP-113	TP-116	TP-117
		Sample ID	TP-110-1.5-2-012516	TP-112-3.5-4-012516	TP-113-1.5-2-012516	TP-116-7-8-011516	TP-117-1.5-2-011516
		Sample Date	1/25/2016	1/25/2016	1/25/2016	1/15/2016	1/15/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1600634	R1600634	R1600634	R1600468	R1600468
		Start Depth	1.5	3.5	1.5	7	1.5
		End Depth	2	4	2	8	2
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	8.4 U	3.9 U	4 U	7.2 U	4.6 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 UJ
1,1,2-Trichloroethane	79-00-5	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
1,1-Dichloroethane	75-34-3	270	8.4 U	3.9 U	4 U	7.2 U	4.6 U
1,1-Dichloroethene	75-35-4	330	8.4 U	3.9 U	4 U	7.2 U	4.6 U
1,2,3-Trichlorobenzene	87-61-6	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 UJ
1,2,4-Trichlorobenzene	120-82-1	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 UJ
1,2,4-Trimethylbenzene	95-63-6	3,600	8.4 U	3.9 U	4 U	7.2 U	4.6 UJ
1,2-Dibromo-3-chloropropane	96-12-8	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 UJ
1,2-Dibromoethane	106-93-4	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
1,2-Dichlorobenzene	95-50-1	1,100	8.4 U	3.9 U	4 U	7.2 U	4.6 UJ
1,2-Dichloroethane	107-06-2	20	8.4 U	3.9 U	4 U	7.2 U	4.6 U
1,2-Dichloropropane	78-87-5	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
1,3,5-Trimethylbenzene	108-67-8	8,400	8.4 U	3.9 U	4 U	7.2 U	4.6 UJ
1,3-Dichlorobenzene	541-73-1	2,400	8.4 U	3.9 U	4 U	7.2 U	4.6 UJ
1,4-Dichlorobenzene	106-46-7	1,800	8.4 U	3.9 U	4 U	7.2 U	4.6 UJ
1,4-Dioxane	123-91-1	100	170 R	78 R	80 R	140 R	92 R
2-Butanone	78-93-3	120	8.4 U	3.9 U	4 U	5.5 J	4.6 U
2-Hexanone	591-78-6	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
4-Isopropyltoluene	99-87-6	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 UJ
4-Methyl-2-Pentanone	108-10-1	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Acetone	67-64-1	50	8.4 U	4.7 UJ	4 UJ	42	8.3
Benzene	71-43-2	60	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Bromochloromethane	74-97-5	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Bromodichloromethane	75-27-4	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Bromoform	75-25-2	NC	8.4 UJ	3.9 UJ	4 UJ	7.2 U	4.6 U
Bromomethane	74-83-9	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Carbon disulfide	75-15-0	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Carbon Tetrachloride	56-23-5	760	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Chlorobenzene	108-90-7	1,100	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Chloroethane	75-00-3	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Chloroform	67-66-3	370	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Chloromethane	74-87-3	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
cis-1,2-Dichloroethene	156-59-2	250	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Cis-1,3-Dichloropropene	10061-01-5	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Cyclohexane	110-82-7	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Dibromochloromethane	124-48-1	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Dichlorodifluoromethane	75-71-8	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Ethylbenzene	100-41-4	1,000	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Isopropylbenzene	98-82-8	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
m,p-xylene	XYLMP	See Total Xylenes	17 U	7.8 U	8 U	14 U	9.2 U
Methyl Acetate	79-20-9	NC	8.4 UJ	3.9 UJ	4 UJ	7.2 U	4.6 U
Methylcyclohexane	108-87-2	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Methylene Chloride	75-09-2	50	8.4 U	3.9 U	4 U	7.2 U	4.6 U
MTBE	1634-04-4	930	8.4 U	3.9 U	4 U	7.2 U	4.6 U
n-Butylbenzene	104-51-8	12,000	8.4 U	3.9 U	4 U	7.2 U	4.6 UJ
n-Propylbenzene	103-65-1	3,900	8.4 U	3.9 U	4 U	7.2 U	4.6 UJ
o-Xylene	95-47-6	See Total Xylenes	8.4 U	3.9 U	4 U	7.2 U	4.6 U
sec-Butylbenzene	135-98-8	11,000	8.4 U	3.9 U	4 U	7.2 U	4.6 UJ
Styrene	100-42-5	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Tert-Butylbenzene	98-06-6	5,900	8.4 U	3.9 U	4 U	7.2 U	4.6 UJ
Tetrachloroethene	127-18-4	1,300	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Toluene	108-88-3	700	8.4 U	3.9 U	4 U	7.2 U	4.6 U
trans-1,2-Dichloroethene	156-60-5	190	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Trans-1,3-Dichloropropene	10061-02-6	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Trichloroethene	79-01-6	470	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Trichlorofluoromethane	75-69-4	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Trichlorotrifluoroethane	26523-64-8	NC	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Vinyl Chloride	75-01-4	20	8.4 U	3.9 U	4 U	7.2 U	4.6 U
Total Xylenes	NA	330	0	0	0	0	0
TOTAL VOC TICs	NA	NC	0	0	0	0	0

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	TP-118	TP-119	TP-120	TP-120	TP-121
		Sample ID	TP-118-3.5-4-011516	TP-119-5-6-012616	DUP-009-012616	TP-120-4-4.5-012616	TP-121-8-8.5-012616
		Sample Date	1/15/2016	1/26/2016	1/26/2016	1/26/2016	1/26/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1600468	R1600634	R1600634	R1600634	R1600634
		Start Depth	3.5	5	4	4	8
		End Depth	4	6	4.5	4.5	8.5
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
1,1,2,2-Tetrachloroethane	79-34-5	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
1,1,2-Trichloroethane	79-00-5	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
1,1-Dichloroethane	75-34-3	270	6.6 U	4.2 UJ	3.1 UJ	2.9 U	2.6 R
1,1-Dichloroethene	75-35-4	330	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
1,2,3-Trichlorobenzene	87-61-6	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
1,2,4-Trichlorobenzene	120-82-1	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
1,2,4-Trimethylbenzene	95-63-6	3,600	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
1,2-Dibromo-3-chloropropane	96-12-8	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
1,2-Dibromoethane	106-93-4	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
1,2-Dichlorobenzene	95-50-1	1,100	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
1,2-Dichloroethane	107-06-2	20	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
1,2-Dichloropropane	78-87-5	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
1,3,5-Trimethylbenzene	108-67-8	8,400	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
1,3-Dichlorobenzene	541-73-1	2,400	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
1,4-Dichlorobenzene	106-46-7	1,800	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
1,4-Dioxane	123-91-1	100	130 R	85 R	62 R	58 R	51 R
2-Butanone	78-93-3	120	6.6 U	4.9	10	5.9	3.8 J
2-Hexanone	591-78-6	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
4-Isopropyltoluene	99-87-6	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
4-Methyl-2-Pentanone	108-10-1	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Acetone	67-64-1	50	6.9	34 J	47 J	95 J	26 J
Benzene	71-43-2	60	6.6 U	4.2 U	0.45 J	2.9 U	2.6 R
Bromochloromethane	74-97-5	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Bromodichloromethane	75-27-4	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Bromoform	75-25-2	NC	6.6 U	4.2 UJ	3.1 UJ	2.9 UJ	2.6 UJ
Bromomethane	74-83-9	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Carbon disulfide	75-15-0	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Carbon Tetrachloride	56-23-5	760	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Chlorobenzene	108-90-7	1,100	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Chloroethane	75-00-3	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Chloroform	67-66-3	370	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Chloromethane	74-87-3	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
cis-1,2-Dichloroethene	156-59-2	250	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Cis-1,3-Dichloropropene	10061-01-5	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Cyclohexane	110-82-7	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Dibromochloromethane	124-48-1	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Dichlorodifluoromethane	75-71-8	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Ethylbenzene	100-41-4	1,000	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Isopropylbenzene	98-82-8	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 UJ
m,p-xylene	XYLMP	See Total Xylenes	13 U	8.5 U	1.8 J	5.8 U	5.1 R
Methyl Acetate	79-20-9	NC	6.6 U	4.2 U	1.4 J	2.9 UJ	2.6 R
Methylcyclohexane	108-87-2	NC	6.6 U	4.2 U	1.1 J	79 J	1.5 J
Methylene Chloride	75-09-2	50	6.6 U	4.2 U	3.1 U	0.63 J	1 J
MTBE	1634-04-4	930	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
n-Butylbenzene	104-51-8	12,000	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
n-Propylbenzene	103-65-1	3,900	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
o-Xylene	95-47-6	See Total Xylenes	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
sec-Butylbenzene	135-98-8	11,000	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Styrene	100-42-5	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Tert-Butylbenzene	98-06-6	5,900	6.6 U	4.2 U	3.1 U	2.1 J	1.1 J
Tetrachloroethene	127-18-4	1,300	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Toluene	108-88-3	700	6.6 U	4.2 U	0.92 J	2.9 U	2.6 R
trans-1,2-Dichloroethene	156-60-5	190	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Trans-1,3-Dichloropropene	10061-02-6	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Trichloroethene	79-01-6	470	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Trichlorofluoromethane	75-69-4	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Trichlorotrifluoroethane	26523-64-8	NC	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Vinyl Chloride	75-01-4	20	6.6 U	4.2 U	3.1 U	2.9 U	2.6 R
Total Xylenes	NA	330	0	0	1.8	0	R
TOTAL VOC TICs	NA	NC	20	100.6	0	994	19.7

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	TP-122	TP-123	TP-124	TP-125	TP-127
		Sample ID	TP-122-7-8-012716	TP-123-4.5-5-012616	TP-124-7.5-8-012616	TP-125-3-4-012716	TP-127-8-8.5-012716
		Sample Date	1/27/2016	1/26/2016	1/26/2016	1/27/2016	1/27/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1600634	R1600634	R1600634	R1600634	R1600634
		Start Depth	7	4.5	7.5	3	8
		End Depth	8	5	8	4	8.5
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	1.9 U	230 U	180 U	2.7 U	490 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	1.9 U	230 U	180 U	2.7 U	490 U
1,1,2-Trichloroethane	79-00-5	NC	1.9 U	230 U	180 U	2.7 U	490 U
1,1-Dichloroethane	75-34-3	270	1.9 UJ	230 U	180 U	2.7 UJ	490 U
1,1-Dichloroethene	75-35-4	330	1.9 U	230 U	180 U	2.7 U	490 U
1,2,3-Trichlorobenzene	87-61-6	NC	1.9 U	230 U	180 U	2.7 U	490 U
1,2,4-Trichlorobenzene	120-82-1	NC	1.9 U	230 U	180 U	2.7 U	490 U
1,2,4-Trimethylbenzene	95-63-6	3,600	0.25 J	250	130 J	2.7 U	490 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	1.9 U	230 U	180 U	2.7 U	490 U
1,2-Dibromoethane	106-93-4	NC	1.9 U	230 U	180 U	2.7 U	490 U
1,2-Dichlorobenzene	95-50-1	1,100	1.9 U	230 U	180 U	2.7 U	490 U
1,2-Dichloroethane	107-06-2	20	1.9 U	230 U	180 U	2.7 U	490 U
1,2-Dichloropropane	78-87-5	NC	1.9 U	230 U	180 U	2.7 U	490 U
1,3,5-Trimethylbenzene	108-67-8	8,400	1.9 U	210 J	120 J	2.7 U	490 U
1,3-Dichlorobenzene	541-73-1	2,400	1.9 U	230 U	180 U	2.7 U	490 U
1,4-Dichlorobenzene	106-46-7	1,800	1.9 U	230 U	180 U	2.7 U	490 U
1,4-Dioxane	123-91-1	100	38 R	4,600 R	3,700 R	54 R	9,700 R
2-Butanone	78-93-3	120	5.4	230 U	180 UJ	1.4 J	240 J
2-Hexanone	591-78-6	NC	1.9 U	230 U	180 U	2.7 U	490 U
4-Isopropyltoluene	99-87-6	NC	1.9 U	230 U	180 U	2.7 U	490 U
4-Methyl-2-Pentanone	108-10-1	NC	1.9 U	230 U	180 U	2.7 U	490 U
Acetone	67-64-1	50	31 J	230 U	180 U	12 J	490 U
Benzene	71-43-2	60	1.9 U	68 J	180 U	2.7 U	490 U
Bromochloromethane	74-97-5	NC	1.9 U	230 U	180 U	2.7 U	490 U
Bromodichloromethane	75-27-4	NC	1.9 U	230 U	180 U	2.7 U	490 U
Bromoform	75-25-2	NC	1.9 UJ	230 U	180 U	2.7 UJ	490 U
Bromomethane	74-83-9	NC	1.9 U	230 U	180 U	2.7 U	490 U
Carbon disulfide	75-15-0	NC	1.9 U	230 U	180 U	2.7 U	490 U
Carbon Tetrachloride	56-23-5	760	1.9 U	230 U	180 U	2.7 U	490 U
Chlorobenzene	108-90-7	1,100	1.1 J	230 U	180 U	2.7 U	490 U
Chloroethane	75-00-3	NC	1.9 U	230 U	180 U	2.7 U	490 U
Chloroform	67-66-3	370	1.9 U	230 U	180 U	2.7 U	490 U
Chloromethane	74-87-3	NC	1.9 U	230 U	180 U	2.7 U	490 U
cis-1,2-Dichloroethene	156-59-2	250	1.9 U	230 U	180 U	2.7 U	490 U
Cis-1,3-Dichloropropene	10061-01-5	NC	1.9 U	230 U	180 U	2.7 U	490 U
Cyclohexane	110-82-7	NC	0.85 J	120 J	2,100	2.7 U	490 U
Dibromochloromethane	124-48-1	NC	1.9 U	230 U	180 U	2.7 U	490 U
Dichlorodifluoromethane	75-71-8	NC	1.9 U	230 U	180 U	2.7 U	490 U
Ethylbenzene	100-41-4	1,000	1.9 U	160 J	180 U	2.7 U	490 U
Isopropylbenzene	98-82-8	NC	1.9 U	230 U	57 J	2.7 U	490 U
m,p-xylene	XYLMP	See Total Xylenes	3.8 U	2,400	92 J	5.4 U	970 U
Methyl Acetate	79-20-9	NC	1.9 U	230 U	180 U	2.7 U	230 J
Methylcyclohexane	108-87-2	NC	2.1	570	6,200	2.7 U	330 J
Methylene Chloride	75-09-2	50	1.9 U	230 U	180 U	2.7 U	490 U
MTBE	1634-04-4	930	1.9 U	230 U	180 U	2.7 U	490 U
n-Butylbenzene	104-51-8	12,000	1.9 U	230 U	180 U	2.7 U	490 U
n-Propylbenzene	103-65-1	3,900	1.9 U	42 J	40 J	2.7 U	490 U
o-Xylene	95-47-6	See Total Xylenes	1.9 U	82 J	180 U	2.7 U	490 U
sec-Butylbenzene	135-98-8	11,000	1.9 U	230 U	51 J	2.7 U	490 U
Styrene	100-42-5	NC	1.9 U	230 U	180 U	2.7 U	490 U
Tert-Butylbenzene	98-06-6	5,900	0.26 J	230 U	180 U	2.7 U	70 J
Tetrachloroethene	127-18-4	1,300	1.9 U	230 U	180 U	2.7 U	490 U
Toluene	108-88-3	700	1.9 U	500	180 U	2.7 U	490 U
trans-1,2-Dichloroethene	156-60-5	190	1.9 U	230 U	180 U	2.7 U	490 U
Trans-1,3-Dichloropropene	10061-02-6	NC	1.9 U	230 U	180 U	2.7 U	490 U
Trichloroethene	79-01-6	470	1.9 U	230 U	180 U	2.7 U	490 U
Trichlorofluoromethane	75-69-4	NC	1.9 U	230 U	180 U	2.7 U	490 U
Trichlorotrifluoroethane	26523-64-8	NC	1.9 U	230 U	180 U	2.7 U	490 U
Vinyl Chloride	75-01-4	20	1.9 U	230 U	180 U	2.7 U	490 U
Total Xylenes	NA	330	0	2,482	92	0	0
TOTAL VOC TICs	NA	NC	30.6	2,510	10,060	0	9,080

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	TP-128	TP-129	TP-130	TP-132	TP-133
		Sample ID	TP-128-5-6-012716	TP-129-4-4.5-012816	TP-130-9.5-10-012816	TP-132-3-3.5-012816	TP-133-6.5-7-012716
		Sample Date	1/27/2016	1/28/2016	1/28/2016	1/28/2016	1/27/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1600634	R1600810	R1600810	R1600810	R1600634
		Start Depth	5	4	9.5	3	6.5
		End Depth	6	4.5	10	3.5	7
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	7 U	2,400 U	7.2 U	2.8 U	5.5 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	7 U	2,400 U	7.2 UJ	2.8 UJ	5.5 U
1,1,2-Trichloroethane	79-00-5	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U
1,1-Dichloroethane	75-34-3	270	7 UJ	2,400 U	7.2 U	0.74 J	5.5 UJ
1,1-Dichloroethene	75-35-4	330	7 U	2,400 U	7.2 U	2.8 U	5.5 U
1,2,3-Trichlorobenzene	87-61-6	NC	7 U	2,400 U	7.2 UJ	2.8 UJ	5.5 U
1,2,4-Trichlorobenzene	120-82-1	NC	7 U	2,400 U	7.2 UJ	2.8 UJ	5.5 U
1,2,4-Trimethylbenzene	95-63-6	3,600	7 U	13,000	13 J	1.4 J	0.69 J
1,2-Dibromo-3-chloropropane	96-12-8	NC	7 U	2,400 U	7.2 UJ	2.8 UJ	5.5 U
1,2-Dibromoethane	106-93-4	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U
1,2-Dichlorobenzene	95-50-1	1,100	7 U	2,400 U	7.2 UJ	2.8 UJ	5.5 U
1,2-Dichloroethane	107-06-2	20	7 U	2,400 U	7.2 U	2.8 U	5.5 U
1,2-Dichloropropane	78-87-5	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U
1,3,5-Trimethylbenzene	108-67-8	8,400	7 U	9,400	5 J	0.72 J	1.1 J
1,3-Dichlorobenzene	541-73-1	2,400	7 U	2,400 U	7.2 UJ	2.8 UJ	5.5 U
1,4-Dichlorobenzene	106-46-7	1,800	7 U	2,400 U	7.2 UJ	2.8 UJ	5.5 U
1,4-Dioxane	123-91-1	100	140 R	47,000 R	140 R	55 R	110 R
2-Butanone	78-93-3	120	8.1	2,400 U	110	7.9	41
2-Hexanone	591-78-6	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U
4-Isopropyltoluene	99-87-6	NC	7 U	3,000	7.2 UJ	2.8 UJ	5.5 U
4-Methyl-2-Pentanone	108-10-1	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U
Acetone	67-64-1	50	36 J	2,400 U	420 J	49 J	220 J
Benzene	71-43-2	60	7 U	2,400 U	10	1.6 J	5.5 U
Bromochloromethane	74-97-5	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U
Bromodichloromethane	75-27-4	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U
Bromoform	75-25-2	NC	7 UJ	2,400 U	7.2 U	2.8 UJ	5.5 UJ
Bromomethane	74-83-9	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U
Carbon disulfide	75-15-0	NC	12	2,400 U	15	2.8 U	5.5 U
Carbon Tetrachloride	56-23-5	760	7 U	2,400 U	7.2 UJ	2.8 UJ	5.5 U
Chlorobenzene	108-90-7	1,100	7 U	2,400 U	7.2 U	2.8 U	5.5 U
Chloroethane	75-00-3	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U
Chloroform	67-66-3	370	7 U	2,400 U	7.2 U	2.8 U	5.5 U
Chloromethane	74-87-3	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U
cis-1,2-Dichloroethene	156-59-2	250	7 U	2,400 U	7.2 U	2.8 U	5.5 U
Cis-1,3-Dichloropropene	10061-01-5	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U
Cyclohexane	110-82-7	NC	7 U	7,300	49	10	5.5 U
Dibromochloromethane	124-48-1	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U
Dichlorodifluoromethane	75-71-8	NC	7 U	2,400 U	7.2 UJ	2.8 UJ	5.5 U
Ethylbenzene	100-41-4	1,000	7 U	2,400 U	2.9 J	0.32 J	5.5 U
Isopropylbenzene	98-82-8	NC	7 U	2,500	7.2 U	2.8 UJ	5.5 U
m,p-xylene	XYLMP	See Total Xylenes	14 U	12,000	15	1.9 J	1.3 J
Methyl Acetate	79-20-9	NC	7 U	2,400 U	9.9	2.8 U	2.7 J
Methylcyclohexane	108-87-2	NC	5 J	25,000	79	12	87
Methylene Chloride	75-09-2	50	0.95 J	2,400 U	7.2 U	2.8 U	5.5 U
MTBE	1634-04-4	930	7 U	2,400 U	7.2 U	2.8 U	5.5 U
n-Butylbenzene	104-51-8	12,000	7 U	2,400 U	7.2 UJ	2.8 UJ	5.5 U
n-Propylbenzene	103-65-1	3,900	7 U	2,500	7.2 UJ	2.8 UJ	5.5 U
o-Xylene	95-47-6	See Total Xylenes	7 U	2,400 U	6.3 J	0.59 J	5.5 U
sec-Butylbenzene	135-98-8	11,000	7 U	540 J	7.2 UJ	2.8 UJ	5.5 U
Styrene	100-42-5	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U
Tert-Butylbenzene	98-06-6	5,900	7 U	2,400 U	3.9 J	2.8 UJ	1.2 J
Tetrachloroethene	127-18-4	1,300	7 U	2,400 U	7.2 U	2.8 U	5.5 U
Toluene	108-88-3	700	7 U	2,400 U	16	1.9 J	5.5 U
trans-1,2-Dichloroethene	156-60-5	190	7 U	2,400 U	7.2 U	2.8 U	5.5 U
Trans-1,3-Dichloropropene	10061-02-6	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U
Trichloroethene	79-01-6	470	7 U	2,400 U	7.2 U	2.8 U	5.5 U
Trichlorofluoromethane	75-69-4	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U
Trichlorotrifluoroethane	26523-64-8	NC	7 U	2,400 U	7.2 U	2.8 U	5.5 U
Vinyl Chloride	75-01-4	20	7 U	2,400 U	7.2 U	2.8 U	5.5 U
Total Xylenes	NA	330	0	12,000	21.3	2.49	1.3
TOTAL VOC TICs	NA	NC	21.7	89,000	1,479	198.7	913

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	TP-134	TP-136	TP-137	TP-138	TP-140[BB]
		Sample ID	TP-134-5-6-012816	TP-136-8-8.5-012916	TP-137-9.5-10-012916	TP-138-5-6-011516	TP-140-2.5-3-011416
		Sample Date	1/28/2016	1/29/2016	1/29/2016	1/15/2016	1/14/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1600810	R1600810	R1600810	R1600468	R1600423
		Start Depth	5	8	9.5	5	2.5
		End Depth	6	8.5	10	6	3
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	6,300 U	1.8 U	4.3 U	190 U	1.1 J
1,1,2,2-Tetrachloroethane	79-34-5	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
1,1,2-Trichloroethane	79-00-5	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
1,1-Dichloroethane	75-34-3	270	6,300 U	1.8 U	4.3 U	190 U	6.8 U
1,1-Dichloroethene	75-35-4	330	6,300 U	1.8 U	4.3 U	190 U	6.8 U
1,2,3-Trichlorobenzene	87-61-6	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
1,2,4-Trichlorobenzene	120-82-1	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
1,2,4-Trimethylbenzene	95-63-6	3,600	4,900 J	1.8 U	4.3 U	190 U	6.8 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	6,300 U	1.8 U	4.3 U	190 UJ	6.8 U
1,2-Dibromoethane	106-93-4	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
1,2-Dichlorobenzene	95-50-1	1,100	6,300 U	1.8 U	4.3 U	190 U	6.8 U
1,2-Dichloroethane	107-06-2	20	6,300 U	1.8 U	4.3 U	190 U	6.8 U
1,2-Dichloropropane	78-87-5	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
1,3,5-Trimethylbenzene	108-67-8	8,400	3,500 J	1.8 U	4.3 U	190 U	6.8 U
1,3-Dichlorobenzene	541-73-1	2,400	6,300 U	1.8 U	4.3 U	190 U	6.8 U
1,4-Dichlorobenzene	106-46-7	1,800	6,300 U	1.8 U	4.3 U	190 U	6.8 U
1,4-Dioxane	123-91-1	100	130,000 R	36 R	86 R	3,800 R	NA
2-Butanone	78-93-3	120	6,300 UJ	1.3 J	15	100 J	6.8 U
2-Hexanone	591-78-6	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
4-Isopropyltoluene	99-87-6	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
4-Methyl-2-Pentanone	108-10-1	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Acetone	67-64-1	50	6,300 U	8.2 UJ	76 J	190 U	13
Benzene	71-43-2	60	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Bromochloromethane	74-97-5	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Bromodichloromethane	75-27-4	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Bromoform	75-25-2	NC	6,300 U	1.8 UJ	4.3 UJ	190 U	6.8 U
Bromomethane	74-83-9	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Carbon disulfide	75-15-0	NC	6,300 U	2	6.6	190 U	6.8 U
Carbon Tetrachloride	56-23-5	760	6,300 U	1.8 UJ	4.3 UJ	190 UJ	6.8 U
Chlorobenzene	108-90-7	1,100	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Chloroethane	75-00-3	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Chloroform	67-66-3	370	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Chloromethane	74-87-3	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
cis-1,2-Dichloroethene	156-59-2	250	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Cis-1,3-Dichloropropene	10061-01-5	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Cyclohexane	110-82-7	NC	9,800	1.8 U	4.3 U	190 UJ	6.8 U
Dibromochloromethane	124-48-1	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Dichlorodifluoromethane	75-71-8	NC	6,300 U	1.8 UJ	4.3 UJ	190 U	6.8 U
Ethylbenzene	100-41-4	1,000	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Isopropylbenzene	98-82-8	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
m,p-xylene	XYLMP	See Total Xylenes	5,900 J	3.6 U	8.6 U	380 U	14 U
Methyl Acetate	79-20-9	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Methylcyclohexane	108-87-2	NC	59,000	1.8 U	4.3 U	190 U	6.8 U
Methylene Chloride	75-09-2	50	6,300 U	1.8 U	4.3 U	190 U	6.8 U
MTBE	1634-04-4	930	6,300 U	1.8 U	4.3 U	190 U	6.8 U
n-Butylbenzene	104-51-8	12,000	6,300 U	1.8 U	4.3 U	190 U	6.8 U
n-Propylbenzene	103-65-1	3,900	6,300 U	1.8 U	4.3 U	190 U	6.8 U
o-Xylene	95-47-6	See Total Xylenes	6,300 U	1.8 U	4.3 U	190 U	6.8 U
sec-Butylbenzene	135-98-8	11,000	6,300 U	1.8 U	4.3 U	140 J	6.8 U
Styrene	100-42-5	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Tert-Butylbenzene	98-06-6	5,900	6,300 U	1.8 U	4.3 U	45 J	6.8 U
Tetrachloroethene	127-18-4	1,300	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Toluene	108-88-3	700	6,300 U	1.8 U	4.3 U	190 U	6.8 U
trans-1,2-Dichloroethene	156-60-5	190	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Trans-1,3-Dichloropropene	10061-02-6	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Trichloroethene	79-01-6	470	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Trichlorofluoromethane	75-69-4	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Trichlorotrifluoroethane	26523-64-8	NC	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Vinyl Chloride	75-01-4	20	6,300 U	1.8 U	4.3 U	190 U	6.8 U
Total Xylenes	NA	330	5,900	0	0	0	0
TOTAL VOC TICs	NA	NC	29,500	2.8	568	37,800	0

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9A - Subsurface Soil Results Compared to Unrestricted SCOs
VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	TP-141	TP-143	TP-148	TP-150[BB]	TP-152
		Sample ID	TP-141-4-5-011416	TP-143-4-6.5-011416	TP-148-2-2.5-012516	TP-150-4-6-011316	TP-152-2.5-3-012916
		Sample Date	1/14/2016	1/14/2016	1/25/2016	1/13/2016	1/29/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	R1600423	R1600423	R1600634	R1600375	R1600810
		Start Depth	4	4	2	4	2.5
		End Depth	5	6.5	2.5	6	3
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	680	3.3 U	4.4 U	5 U	13 U	4.1 U
1,1,2,2-Tetrachloroethane	79-34-5	NC	3.3 U	4.4 UJ	5 U	13 U	4.1 U
1,1,2-Trichloroethane	79-00-5	NC	3.3 U	4.4 U	5 U	13 U	4.1 U
1,1-Dichloroethane	75-34-3	270	3.3 U	4.4 U	5 UJ	13 U	4.1 U
1,1-Dichloroethene	75-35-4	330	3.3 U	4.4 U	5 U	13 U	4.1 U
1,2,3-Trichlorobenzene	87-61-6	NC	3.3 U	4.4 UJ	5 U	13 U	4.1 U
1,2,4-Trichlorobenzene	120-82-1	NC	3.3 U	4.4 UJ	5 U	13 U	4.1 U
1,2,4-Trimethylbenzene	95-63-6	3,600	3.3 U	4.4 UJ	5 U	13 U	2.2 J
1,2-Dibromo-3-chloropropane	96-12-8	NC	3.3 U	4.4 UJ	5 U	13 U	4.1 U
1,2-Dibromoethane	106-93-4	NC	3.3 U	4.4 U	5 U	13 U	4.1 U
1,2-Dichlorobenzene	95-50-1	1,100	3.3 U	4.4 UJ	5 U	13 U	4.1 U
1,2-Dichloroethane	107-06-2	20	3.3 U	4.4 U	5 U	13 U	4.1 U
1,2-Dichloropropane	78-87-5	NC	3.3 U	4.4 U	5 U	13 U	4.1 U
1,3,5-Trimethylbenzene	108-67-8	8,400	3.3 U	4.4 UJ	5 U	13 U	0.89 J
1,3-Dichlorobenzene	541-73-1	2,400	3.3 U	4.4 UJ	5 U	13 U	4.1 U
1,4-Dichlorobenzene	106-46-7	1,800	3.3 U	4.4 UJ	5 U	13 U	4.1 U
1,4-Dioxane	123-91-1	100	NA	NA	100 R	NA	81 R
2-Butanone	78-93-3	120	3.3 U	11	3.4 J	13 U	5.5
2-Hexanone	591-78-6	NC	3.3 U	4.4 U	5 U	13 U	4.1 U
4-Isopropyltoluene	99-87-6	NC	3.3 U	4.4 UJ	5 U	13 U	4.1 U
4-Methyl-2-Pentanone	108-10-1	NC	3.3 U	4.4 U	5 U	13 U	4.1 U
Acetone	67-64-1	50	3.8 J	48	24 J	17	27 J
Benzene	71-43-2	60	3.3 U	4.4 U	5 U	13 U	4.6
Bromochloromethane	74-97-5	NC	3.3 U	4.4 U	5 U	13 U	4.1 U
Bromodichloromethane	75-27-4	NC	3.3 U	4.4 U	5 U	13 U	4.1 U
Bromoform	75-25-2	NC	3.3 U	4.4 U	5 UJ	13 U	4.1 UJ
Bromomethane	74-83-9	NC	3.3 U	4.4 U	5 U	13 U	4.1 U
Carbon disulfide	75-15-0	NC	3.3 U	4.4 U	5 U	13 U	4.1 U
Carbon Tetrachloride	56-23-5	760	3.3 U	4.4 U	5 U	13 U	4.1 UJ
Chlorobenzene	108-90-7	1,100	3.3 U	4.4 U	5 U	13 U	4.1 U
Chloroethane	75-00-3	NC	3.3 U	4.4 U	5 U	13 U	4.1 U
Chloroform	67-66-3	370	3.3 U	4.4 U	5 U	13 U	4.1 U
Chloromethane	74-87-3	NC	3.3 U	4.4 U	5 U	13 U	4.1 U
cis-1,2-Dichloroethene	156-59-2	250	3.3 U	4.4 U	5 U	13 U	4.1 U
Cis-1,3-Dichloropropene	10061-01-5	NC	3.3 U	4.4 U	5 U	13 U	4.1 U
Cyclohexane	110-82-7	NC	3.3 U	4.4 U	5 U	13 U	23
Dibromochloromethane	124-48-1	NC	3.3 U	4.4 U	5 U	13 U	4.1 UJ
Dichlorodifluoromethane	75-71-8	NC	3.3 U	4.4 U	5 U	13 U	4.1 U
Ethylbenzene	100-41-4	1,000	3.3 U	4.4 U	5 U	13 U	1 J
Isopropylbenzene	98-82-8	NC	3.3 U	4.4 U	5 U	13 U	4.1 U
m,p-xylene	XYLMP	See Total Xylenes	6.6 U	8.9 U	10 U	26 U	4.6 J
Methyl Acetate	79-20-9	NC	3.3 U	4.4 U	5 U	13 U	4.1 U
Methylcyclohexane	108-87-2	NC	3.3 U	4.4 U	5 U	13 U	22
Methylene Chloride	75-09-2	50	3.3 U	4.4 U	5 U	13 U	4.1 UJ
MTBE	1634-04-4	930	3.3 U	4.4 U	5 U	13 U	4.1 U
n-Butylbenzene	104-51-8	12,000	3.3 U	4.4 UJ	5 U	13 U	4.1 U
n-Propylbenzene	103-65-1	3,900	3.3 U	4.4 UJ	5 U	13 U	4.1 U
o-Xylene	95-47-6	See Total Xylenes	3.3 U	4.4 U	5 U	13 U	1.5 J
sec-Butylbenzene	135-98-8	11,000	3.3 U	4.4 UJ	5 U	13 U	4.1 U
Styrene	100-42-5	NC	3.3 U	4.4 U	5 U	13 U	4.1 U
Tert-Butylbenzene	98-06-6	5,900	3.3 U	4.4 UJ	5 U	13 U	4.1 U
Tetrachloroethene	127-18-4	1,300	3.3 U	4.4 U	5 U	13 U	4.1 U
Toluene	108-88-3	700	3.3 U	4.4 U	5 U	13 U	6.8
trans-1,2-Dichloroethene	156-60-5	190	3.3 U	4.4 U	5 U	13 U	4.1 U
Trans-1,3-Dichloropropene	10061-02-6	NC	3.3 U	4.4 U	5 U	13 U	4.1 U
Trichloroethene	79-01-6	470	3.3 U	4.4 U	5 U	13 U	4.1 U
Trichlorofluoromethane	75-69-4	NC	3.3 U	4.4 U	5 U	13 U	4.1 U
Trichlorotrifluoroethane	26523-64-8	NC	3.3 U	4.4 U	5 U	13 U	4.1 U
Vinyl Chloride	75-01-4	20	3.3 U	4.4 U	5 U	13 U	4.1 U
Total Xylenes	NA	330	0	0	0	0	6.1
TOTAL VOC TICs	NA	NC	0	0	0	0	230.7

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-100	OVR-107	OVR-108	OVR-109	OVR-109
		Sample ID	OVR-100-6-7-04222016	OVR-107-10-11-041216	OVR-108-4.1-5.4-041316	DUP-004-041116	OVR-109-10-11.8-041116
		Sample Date	4/22/2016	4/12/2016	4/13/2016	4/11/2016	4/11/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2139069	2136537	2139069	2136537	2136537
		Start Depth	6	10	4.1	10	10
		End Depth	7	11	5.4	11.8	11.8
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
SVOCs							
1,1'-Biphenyl	92-52-4	NC	35.2 J	121 U	126 U	118 U	133 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	140 U	121 U	126 U	118 U	133 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	280 U	242 U	252 U	237 U	266 U
2,4,5-Trichlorophenol	95-95-4	NC	280 U	242 U	252 U	237 U	266 U
2,4,6-Trichlorophenol	88-06-2	NC	280 U	242 U	252 U	237 U	266 U
2,4-Dichlorophenol	120-83-2	NC	280 U	242 U	252 U	237 U	266 U
2,4-Dimethylphenol	105-67-9	NC	280 U	242 U	252 U	237 U	266 U
2,4-Dinitrophenol	51-28-5	NC	490 U	423 U	441 U	414 UJ	465 UJ
2,4-Dinitrotoluene	121-14-2	NC	140 U	121 U	126 U	118 U	133 U
2,6-Dinitrotoluene	606-20-2	NC	140 U	121 U	126 U	118 U	133 U
2-Chloronaphthalene	91-58-7	NC	140 U	121 U	126 U	118 U	133 U
2-Chlorophenol	95-57-8	NC	280 U	242 U	252 U	237 U	266 U
2-Methylnaphthalene	91-57-6	NC	222	121 U	126 U	23.9 J	133 U
2-Methylphenol	95-48-7	330	280 U	242 U	252 U	237 U	266 U
2-Nitroaniline	88-74-4	NC	280 U	242 U	252 U	237 U	266 U
2-Nitrophenol	88-75-5	NC	280 U	242 U	252 U	237 U	266 U
3,3-Dichlorobenzidine	91-94-1	NC	280 U	242 U	252 U	237 U	266 U
3-Nitroaniline	99-09-2	NC	280 U	242 U	252 U	237 U	266 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	280 U	242 U	252 U	237 U	266 U
4-Bromophenyl-phenylether	101-55-3	NC	140 U	121 U	126 U	118 U	133 U
4-Chloro-3-methylphenol	59-50-7	NC	280 U	242 U	252 U	237 U	266 U
4-Chloroaniline	106-47-8	NC	280 U	242 U	252 U	237 U	266 U
4-Chlorophenyl-phenylether	7005-72-3	NC	140 U	121 U	126 U	118 U	133 U
4-Nitroaniline	100-01-6	NC	280 U	242 U	252 U	237 U	266 U
4-Nitrophenol	100-02-7	NC	280 U	242 U	252 U	237 U	266 U
Acenaphthene	83-32-9	20,000	46 J	60.5 U	63 U	26 J	66.5 U
Acenaphthylene	208-96-8	100,000	70 U	60.5 U	63 U	16.5 J	66.5 U
Acetophenone	98-86-2	NC	140 U	121 U	126 U	118 U	133 U
Anthracene	120-12-7	100,000	87.8	60.5 U	63 U	68.4	66.5 U
Atrazine	1912-24-9	NC	140 UJ	121 UJ	126 UJ	118 UJ	133 UJ
Benzaldehyde	100-52-7	NC	92.1 J	242 UJ	252 UJ	237 UJ	266 UJ
Benzidine	92-87-5	NC	280 U	242 U	252 U	237 U	266 U
Benzo[a]anthracene	56-55-3	1,000	359	60.5 U	63 U	152 J	66.5 UJ
Benzo[a]pyrene	50-32-8	1,000	187	60.5 U	63 U	129 J	66.5 UJ
Benzo[b]fluoranthene	205-99-2	1,000	270	60.5 U	63 U	172 J	66.5 UJ
Benzo[g,h,i]perylene	191-24-2	100,000	161	60.5 U	63 U	92.6	66.5 U
Benzo[k]fluoranthene	207-08-9	800	87.1	60.5 U	63 U	61.1	66.5 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	140 U	121 U	126 U	118 U	133 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	140 U	121 U	126 U	118 U	133 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	140 U	121 U	126 U	118 U	133 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	350 U	302 U	315 U	296 U	332 U
Butylbenzylphthalate	85-68-7	NC	140 U	121 U	126 U	118 U	133 U
Caprolactam	105-60-2	NC	280 U	242 U	252 U	237 U	266 U
Carbazole	86-74-8	NC	50.5 J	121 U	126 U	29 J	133 U
Chrysene	218-01-9	1,000	498	60.5 U	63 U	170 J	66.5 UJ
Dibenzo[a,h]Anthracene	53-70-3	330	68.2 J	60.5 U	63 U	28.8 J	66.5 U
Dibenzofuran	132-64-9	7,000	93.7 J	121 U	126 U	118 U	133 U
Diethylphthalate	84-66-2	NC	140 U	121 U	126 U	118 U	133 U
Dimethylphthalate	131-11-3	NC	140 U	121 U	126 U	118 U	133 U
Di-n-butylphthalate	84-74-2	NC	140 U	121 U	126 U	118 U	133 U
Di-n-octylphthalate	117-84-0	NC	140 U	121 U	126 U	118 U	133 U
Fluoranthene	206-44-0	100,000	446	60.5 U	63 U	312 J	40.6 J
Fluorene	86-73-7	30,000	82.1	60.5 U	63 U	42.1 J	66.5 U
Hexachlorobenzene	118-74-1	330	140 U	121 U	126 U	118 U	133 U
Hexachlorobutadiene	87-68-3	NC	140 U	121 U	126 U	118 U	133 U
Hexachlorocyclopentadiene	77-47-4	NC	280 U	242 U	252 U	237 U	266 U
Hexachloroethane	67-72-1	NC	140 U	121 U	126 U	118 U	133 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	155	60.5 U	63 U	99.1	66.5 U
Isophorone	78-59-1	NC	140 U	121 U	126 U	118 U	133 U
m-Cresol & p-Cresol	MEPH1314	330**	67.4 J	242 U	252 U	237 U	266 U
Naphthalene	91-20-3	12,000	177	60.5 U	63 U	39.4 J	66.5 U
Nitrobenzene	98-95-3	NC	140 U	121 U	126 U	118 U	133 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	140 U	121 U	126 U	118 U	133 U
N-Nitrosodiphenylamine	86-30-6	NC	140 U	121 U	126 U	118 U	133 U
Pentachlorophenol	87-86-5	800	280 U	242 U	252 U	237 U	266 U
Phenanthrene	85-01-8	100,000	582	60.5 U	63 U	302 J	63.8 J
Phenol	108-95-2	330	280 U	242 U	252 U	237 U	266 U
Pyrene	129-00-0	100,000	462	60.5 U	63 U	262 J	39.6 J
Pyridine	110-86-1	NC	280 U	242 U	252 U	237 U	266 U
Total SVOC TICs	NA	NC	30,884	N/A	3,701	1,083	6,472

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-116	OVR-117	OVR-118	SB-100	SB-101	SB-103
		Sample ID	OVR-116-10-11.9-040116	OVR-117-7-7.6-040716	OVR-118-0.5-1-041316	SB-100-9-10-031016	SB-101-12.5-14-031016	SB-103-4.8-5.8-030416
		Sample Date	4/1/2016	4/7/2016	4/13/2016	3/10/2016	3/10/2016	3/4/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2136532	2136537	2139069	2130254	2130254	2129473
		Start Depth	10	7	0.5	9	12.5	4.8
		End Depth	11.9	7.6	1	10	14	5.8
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	117 U	18,800	27.2 J	147 U	128 U	154
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	117 U	2,080 U	111 U	147 U	128 U	121 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	234 U	4,150 R	222 U	295 U	255 U	242 U
2,4,5-Trichlorophenol	95-95-4	NC	234 U	4,150 R	222 U	295 U	255 U	242 U
2,4,6-Trichlorophenol	88-06-2	NC	234 U	4,150 R	222 U	295 U	255 U	242 U
2,4-Dichlorophenol	120-83-2	NC	234 U	4,150 R	222 U	295 U	255 U	242 U
2,4-Dimethylphenol	105-67-9	NC	234 U	4,150 R	222 UJ	295 U	255 U	242 U
2,4-Dinitrophenol	51-28-5	NC	409 U	7,260 R	389 U	515 U	447 U	424 U
2,4-Dinitrotoluene	121-14-2	NC	117 U	2,080 U	111 U	147 U	128 U	121 U
2,6-Dinitrotoluene	606-20-2	NC	117 U	2,080 U	111 U	147 U	128 U	121 U
2-Chloronaphthalene	91-58-7	NC	117 U	2,080 U	111 U	147 U	128 U	121 U
2-Chlorophenol	95-57-8	NC	234 U	4,150 R	222 U	295 U	255 U	242 U
2-Methylnaphthalene	91-57-6	NC	117 U	30,600	402	73.2 J	128 U	526
2-Methylphenol	95-48-7	330	234 U	4,150 R	222 U	295 U	255 U	242 U
2-Nitroaniline	88-74-4	NC	234 U	4,150 U	222 U	295 U	255 U	242 U
2-Nitrophenol	88-75-5	NC	234 U	4,150 R	222 U	295 U	255 U	242 U
3,3-Dichlorobenzidine	91-94-1	NC	234 U	4,150 U	222 U	295 U	255 U	242 U
3-Nitroaniline	99-09-2	NC	234 U	4,150 U	222 U	295 U	255 U	242 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	234 U	4,150 R	222 UJ	295 U	255 U	242 U
4-Bromophenyl-phenylether	101-55-3	NC	117 U	2,080 U	111 U	147 U	128 U	121 U
4-Chloro-3-methylphenol	59-50-7	NC	234 U	4,150 R	222 U	295 U	255 U	242 U
4-Chloroaniline	106-47-8	NC	234 U	4,150 U	222 U	295 U	255 U	242 U
4-Chlorophenyl-phenylether	7005-72-3	NC	117 U	2,080 U	111 U	147 U	128 U	121 U
4-Nitroaniline	100-01-6	NC	234 U	4,150 U	222 U	295 U	255 U	242 U
4-Nitrophenol	100-02-7	NC	234 U	4,150 R	222 U	295 U	255 U	242 U
Acenaphthene	83-32-9	20,000	58.5 U	4,080	30.9 J	38.1 J	63.9 U	638
Acenaphthylene	208-96-8	100,000	58.5 U	32,300	63.9	233	63.9 U	60.6 U
Acetophenone	98-86-2	NC	117 U	2,080 U	494 U	362	128 U	121 U
Anthracene	120-12-7	100,000	58.5 U	10,800	92.6 J	191	63.9 U	1,750
Atrazine	1912-24-9	NC	117 UJ	2,080 UJ	111 UJ	147 U	128 U	121 U
Benzaldehyde	100-52-7	NC	234 UJ	4,150 UJ	85.7 J	186 J	255 U	46.2 J
Benzidine	92-87-5	NC	234 U	4,150 U	222 R	295 U	255 U	242 U
Benzo[a]anthracene	56-55-3	1,000	58.5 U	6,230	352 J	505	63.9 U	2,280
Benzo[a]pyrene	50-32-8	1,000	58.5 U	7,490	376 J	686	63.9 U	1,970
Benzo[b]fluoranthene	205-99-2	1,000	58.5 U	6,000	484 J	804	63.9 U	2,680
Benzo[g,h,i]perylene	191-24-2	100,000	58.5 U	5,110	254 J	352	63.9 U	1,310
Benzo[k]fluoranthene	207-08-9	800	58.5 U	2,070	209 J	302	63.9 U	979
Bis(2-Chloroethoxy)methane	111-91-1	NC	117 U	2,080 U	111 U	147 U	128 U	121 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	117 U	2,080 U	111 U	147 U	128 U	121 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	117 U	2,080 U	111 U	147 UJ	128 UJ	121 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	292 U	5,190 U	278 U	368 U	319 U	303 U
Butylbenzylphthalate	85-68-7	NC	117 U	2,080 U	111 U	147 U	128 U	121 U
Caprolactam	105-60-2	NC	234 U	4,150 U	222 U	295 U	255 U	242 U
Carbazole	86-74-8	NC	117 U	2,080 U	53.9 J	52.4 J	128 U	1,020
Chrysene	218-01-9	1,000	58.5 U	7,840	403 J	480	63.9 U	2,430
Dibenzo[a,h]Anthracene	53-70-3	330	58.5 U	464 J	77.9	113	63.9 U	391
Dibenzofuran	132-64-9	7,000	117 U	2,080 U	114 J	72.4 J	128 U	965
Diethylphthalate	84-66-2	NC	117 U	2,080 U	111 U	147 U	128 U	121 U
Dimethylphthalate	131-11-3	NC	117 U	2,080 U	111 U	147 U	128 U	121 U
Di-n-butylphthalate	84-74-2	NC	117 U	2,080 U	111 U	147 U	128 U	121 U
Di-n-octylphthalate	117-84-0	NC	117 U	2,080 U	111 U	147 UJ	128 UJ	121 U
Fluoranthene	206-44-0	100,000	58.5 U	19,600	583 J	664	63.9 U	5,420
Fluorene	86-73-7	30,000	58.5 U	14,000	38.9 J	69.1 J	63.9 U	1,170
Hexachlorobenzene	118-74-1	330	117 U	2,080 U	111 U	147 U	128 U	121 U
Hexachlorobutadiene	87-68-3	NC	117 U	2,080 U	111 U	147 U	128 U	121 U
Hexachlorocyclopentadiene	77-47-4	NC	234 U	4,150 U	222 U	295 U	255 UJ	242 UJ
Hexachloroethane	67-72-1	NC	117 U	2,080 U	111 U	147 U	128 U	121 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	58.5 U	3,920	273 J	399	63.9 U	1,420
Isophorone	78-59-1	NC	117 U	2,080 U	111 U	147 U	128 U	121 U
m-Cresol & p-Cresol	MEPH1314	330**	234 U	4,150 R	21.6 J	81.1 J	255 U	38.4 J
Naphthalene	91-20-3	12,000	58.5 U	359,000	348 J	157	63.9 U	870
Nitrobenzene	98-95-3	NC	117 U	2,080 U	111 U	147 U	128 U	121 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	117 U	2,080 U	111 U	147 U	128 U	121 U
N-Nitrosodiphenylamine	86-30-6	NC	117 U	2,080 U	111 U	147 U	128 U	121 U
Pentachlorophenol	87-86-5	800	234 U	4,150 U	222 U	295 U	255 U	242 U
Phenanthrene	85-01-8	100,000	58.5 U	45,800	432 J	415	63.9 U	6,410
Phenol	108-95-2	330	234 U	957 J	222 U	295 U	255 U	104 J
Pyrene	129-00-0	100,000	58.5 U	25,800	509 J	633	63.9 U	4,120
Pyridine	110-86-1	NC	234 U	4,150 U	222 U	295 U	255 U	242 U
Total SVOC TICs	NA	NC	NT	718,100	1,497	2,522	591	12,449

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-104	SB-105	SB-106	SB-107	SB-108	SB-109
		Sample ID	SB-104-12-13-030316	SB-105-11-12-031016	SB-106-5-6-030316	SB-107-6-7-030316	SB-108-5.8-6.4-030316	SB-109-8-9-030216
		Sample Date	3/3/2016	3/10/2016	3/3/2016	3/3/2016	3/3/2016	3/2/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2129473	2130254	2129473	2129473	2129473	2127346
		Start Depth	12	11	5	6	5.8	8
		End Depth	13	12	6	7	6.4	9
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	118 U	156 U	53 J	118 U	125 U	125 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	118 U	156 U	124 U	118 U	125 U	125 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	236 U	312 U	248 U	236 U	250 U	251 U
2,4,5-Trichlorophenol	95-95-4	NC	236 U	312 U	248 U	236 U	250 U	251 U
2,4,6-Trichlorophenol	88-06-2	NC	236 U	312 U	248 U	236 U	250 U	251 U
2,4-Dichlorophenol	120-83-2	NC	236 U	312 U	248 U	236 U	250 U	251 U
2,4-Dimethylphenol	105-67-9	NC	236 U	312 U	248 U	236 U	250 U	251 U
2,4-Dinitrophenol	51-28-5	NC	413 U	546 U	433 U	412 U	437 U	439 U
2,4-Dinitrotoluene	121-14-2	NC	118 U	156 U	124 U	118 U	125 U	125 U
2,6-Dinitrotoluene	606-20-2	NC	118 U	156 U	124 U	118 U	125 U	125 U
2-Chloronaphthalene	91-58-7	NC	118 U	156 U	124 U	118 U	125 U	125 U
2-Chlorophenol	95-57-8	NC	236 U	312 U	248 U	236 U	250 U	251 U
2-Methylnaphthalene	91-57-6	NC	118 U	156 U	113 J	118 U	125 U	125 U
2-Methylphenol	95-48-7	330	236 U	312 U	248 U	236 U	250 U	251 U
2-Nitroaniline	88-74-4	NC	236 U	312 U	248 U	236 U	250 U	251 U
2-Nitrophenol	88-75-5	NC	236 U	312 U	248 U	236 U	250 U	251 U
3,3-Dichlorobenzidine	91-94-1	NC	236 U	312 U	248 U	236 U	250 U	251 U
3-Nitroaniline	99-09-2	NC	236 U	312 U	248 U	236 U	250 U	251 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	236 U	312 U	248 U	236 U	250 U	251 U
4-Bromophenyl-phenylether	101-55-3	NC	118 U	156 U	124 U	118 U	125 U	125 U
4-Chloro-3-methylphenol	59-50-7	NC	236 U	312 U	248 U	236 U	250 U	251 U
4-Chloroaniline	106-47-8	NC	236 U	312 U	248 U	236 U	250 U	251 U
4-Chlorophenyl-phenylether	7005-72-3	NC	118 U	156 U	124 U	118 U	125 U	125 U
4-Nitroaniline	100-01-6	NC	236 U	312 U	248 U	236 U	250 U	251 U
4-Nitrophenol	100-02-7	NC	236 U	312 U	248 U	236 U	250 U	251 U
Acenaphthene	83-32-9	20,000	59.1 U	78.1 U	302	58.9 U	62.4 U	62.7 U
Acenaphthylene	208-96-8	100,000	59.1 U	78.1 U	185	58.9 U	62.4 U	62.7 U
Acetophenone	98-86-2	NC	118 U	228	124 U	118 U	125 U	125 U
Anthracene	120-12-7	100,000	59.1 U	78.1 U	688	58.9 U	62.4 U	61.3 J
Atrazine	1912-24-9	NC	118 U	156 U	124 U	118 U	125 U	125 U
Benzaldehyde	100-52-7	NC	236 U	43.1 J	45.5 J	236 U	250 U	251 U
Benzidine	92-87-5	NC	236 U	312 U	248 U	236 U	250 U	251 U
Benzo[a]anthracene	56-55-3	1,000	25.4 J	36.3 J	3,290	30.5 J	61.6 J	159
Benzo[a]pyrene	50-32-8	1,000	59.1 U	78.1 U	3,420	58.9 U	86.4	138
Benzo[b]fluoranthene	205-99-2	1,000	59.1 U	78.1 U	4,300	27.5 J	89	177
Benzo[g,h,i]perylene	191-24-2	100,000	59.1 U	33.5 J	2,260	38.7 J	69.2	75.8
Benzo[k]fluoranthene	207-08-9	800	59.1 U	78.1 U	1,510	58.9 U	36 J	76.9
Bis(2-Chloroethoxy)methane	111-91-1	NC	118 U	156 U	124 U	118 U	125 U	125 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	118 U	156 U	124 U	118 U	125 U	125 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	118 U	156 UJ	124 U	118 U	125 U	125 UJ
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	295 U	390 U	310 U	295 U	312 U	313 U
Butylbenzylphthalate	85-68-7	NC	118 U	156 U	124 U	118 U	125 U	125 U
Caprolactam	105-60-2	NC	236 U	312 U	248 U	236 U	250 U	251 U
Carbazole	86-74-8	NC	118 U	156 U	272	118 U	125 U	22.5 J
Chrysene	218-01-9	1,000	59.1 U	52.9 J	4,140	58.9 U	67.6	155
Dibenzo[a,h]Anthracene	53-70-3	330	59.1 U	78.1 U	541	58.9 U	29.8 J	62.7 U
Dibenzofuran	132-64-9	7,000	118 U	156 U	209	118 U	125 U	125 U
Diethylphthalate	84-66-2	NC	118 U	156 U	124 U	118 U	125 U	125 U
Dimethylphthalate	131-11-3	NC	118 U	156 U	124 U	118 U	125 U	125 U
Di-n-butylphthalate	84-74-2	NC	118 U	156 U	124 U	118 U	125 U	125 U
Di-n-octylphthalate	117-84-0	NC	118 U	156 UJ	124 U	118 U	125 U	125 U
Fluoranthene	206-44-0	100,000	59.1 U	52.2 J	7,600	34 J	112	290
Fluorene	86-73-7	30,000	59.1 U	78.1 U	306	58.9 U	62.4 U	62.7 U
Hexachlorobenzene	118-74-1	330	118 U	156 U	124 U	118 U	125 U	125 U
Hexachlorobutadiene	87-68-3	NC	118 U	156 U	124 U	118 U	125 U	125 U
Hexachlorocyclopentadiene	77-47-4	NC	236 UJ	312 UJ	248 UJ	236 UJ	250 UJ	251 U
Hexachloroethane	67-72-1	NC	118 U	156 U	124 U	118 U	125 U	125 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	59.1 U	78.1 U	2,350	58.9 U	48.4 J	89.7
Isophorone	78-59-1	NC	118 U	156 U	124 U	118 U	125 U	125 U
m-Cresol & p-Cresol	MEPH1314	330**	236 U	46.9 J	45.6 J	236 U	250 U	251 U
Naphthalene	91-20-3	12,000	59.1 U	78.1 U	208	58.9 U	62.4 U	62.7 U
Nitrobenzene	98-95-3	NC	118 U	156 U	124 U	118 U	125 U	125 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	118 U	156 U	124 U	118 U	125 U	125 U
N-Nitrosodiphenylamine	86-30-6	NC	118 U	156 U	124 U	118 U	125 U	125 U
Pentachlorophenol	87-86-5	800	236 U	312 U	248 U	236 U	250 U	251 U
Phenanthrene	85-01-8	100,000	59.1 U	37 J	2,480	27.2 J	86.4	133
Phenol	108-95-2	330	42.7 J	312 U	46.2 J	79.6 J	250 U	251 U
Pyrene	129-00-0	100,000	59.1 U	46.3 J	7,310	43.9 J	131	243
Pyridine	110-86-1	NC	236 U	312 U	107 J	236 U	250 U	251 U
Total SVOC TICs	NA	NC	NT	31,666	22,938	7,382	1,665	NT

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SB-111	SB-112	SB-113	SB-113[BB]	SB-113	SB-114
	Sample ID	SB-111-6-7-031016	SB-112-0.5-2.0-08221	DUP-002-031416	SB-113-1-2-031416	SB-113-4.5-6.5-031416	SB-114-2-2.5-030216
	Sample Date	3/10/2016	8/22/2017	3/14/2016	3/14/2016	3/14/2016	3/2/2016
	Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	Lab SDG	2130254	2258101	2130903	2130903	2130903	2127346
	Start Depth	6	0.5	4.5	1	4.5	2
	End Depth	7	2	6.5	2	6.5	2.5
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
SVOCs							
1,1'-Biphenyl	92-52-4	NC	108 U	130 U	121 U	125 U	159 U	114 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	108 U	130 U	121 U	125 U	159 U	114 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	215 U	260 U	242 U	251 U	318 U	228 U
2,4,5-Trichlorophenol	95-95-4	NC	215 U	260 U	242 U	251 U	318 U	228 U
2,4,6-Trichlorophenol	88-06-2	NC	215 U	260 U	242 U	251 U	318 U	228 U
2,4-Dichlorophenol	120-83-2	NC	215 U	260 U	242 U	251 U	318 U	228 U
2,4-Dimethylphenol	105-67-9	NC	215 U	260 U	242 U	251 U	318 U	228 U
2,4-Dinitrophenol	51-28-5	NC	376 U	260 U	423 U	439 U	556 U	399 UJ
2,4-Dinitrotoluene	121-14-2	NC	108 U	130 U	121 U	125 U	159 U	114 U
2,6-Dinitrotoluene	606-20-2	NC	108 U	130 U	121 U	125 U	159 U	114 U
2-Chloronaphthalene	91-58-7	NC	108 U	130 U	121 U	125 U	159 U	114 U
2-Chlorophenol	95-57-8	NC	215 U	260 U	242 U	251 U	318 U	228 U
2-Methylnaphthalene	91-57-6	NC	108 U	130 U	121 U	125 U	45.5 J	114 U
2-Methylphenol	95-48-7	330	215 U	260 U	242 U	251 U	318 U	228 U
2-Nitroaniline	88-74-4	NC	215 U	260 U	242 U	251 U	318 U	228 U
2-Nitrophenol	88-75-5	NC	215 U	260 U	242 U	251 U	318 U	228 U
3,3-Dichlorobenzidine	91-94-1	NC	215 U	260 U	242 U	251 U	318 U	228 U
3-Nitroaniline	99-09-2	NC	215 U	260 U	242 U	251 U	318 U	228 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	215 U	260 U	242 U	251 U	318 U	228 U
4-Bromophenyl-phenylether	101-55-3	NC	108 U	130 U	121 U	125 U	159 U	114 U
4-Chloro-3-methylphenol	59-50-7	NC	215 U	260 U	242 UJ	251 UJ	318 UJ	228 U
4-Chloroaniline	106-47-8	NC	215 U	260 U	242 U	251 U	318 U	228 U
4-Chlorophenyl-phenylether	7005-72-3	NC	108 U	130 U	121 U	125 UJ	159 U	114 U
4-Nitroaniline	100-01-6	NC	215 U	260 U	242 U	251 U	318 UJ	228 U
4-Nitrophenol	100-02-7	NC	215 U	260 U	242 UJ	251 UJ	318 U	228 U
Acenaphthene	83-32-9	20,000	53.8 U	65 U	60.5 U	62.7 U	79.5 U	57.1 U
Acenaphthylene	208-96-8	100,000	53.8 U	65 U	60.5 U	62.7 U	79.5 U	57.1 U
Acetophenone	98-86-2	NC	108 U	130 U	121 U	125 U	159 U	114 U
Anthracene	120-12-7	100,000	53.8 U	65 U	60.5 U	62.7 U	79.5 U	57.1 U
Atrazine	1912-24-9	NC	108 U	130 U	121 U	125 U	159 U	114 U
Benzaldehyde	100-52-7	NC	215 U	260 U	242 UJ	251 UJ	318 UJ	228 U
Benzidine	92-87-5	NC	215 U	260 U	242 U	251 U	318 U	228 U
Benzo[a]anthracene	56-55-3	1,000	53.8 U	65 U	60.5 UJ	62.7 U	253 J	32.2 J
Benzo[a]pyrene	50-32-8	1,000	53.8 U	65 U	60.5 U	62.7 U	79.5 U	57.1 U
Benzo[b]fluoranthene	205-99-2	1,000	53.8 U	65 U	60.5 UJ	62.7 U	211 J	32.7 J
Benzo[g,h,i]perylene	191-24-2	100,000	53.8 U	65 U	60.5 UJ	62.7 U	226 J	31.3 J
Benzo[k]fluoranthene	207-08-9	800	53.8 U	65 U	60.5 U	62.7 U	79.5 U	57.1 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	108 U	130 U	121 U	125 U	159 U	114 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	108 U	130 U	121 U	125 U	159 U	114 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	108 UJ	130 U	121 UJ	125 U	159 UJ	114 UJ
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	269 U	130 U	302 U	314 U	397 U	285 U
Butylbenzylphthalate	85-68-7	NC	108 U	130 U	121 U	125 U	159 U	114 U
Caprolactam	105-60-2	NC	215 U	260 U	242 U	251 U	318 U	228 U
Carbazole	86-74-8	NC	108 U	130 U	121 U	125 U	159 U	114 U
Chrysene	218-01-9	1,000	53.8 U	65 U	60.5 UJ	62.7 U	546 J	56.9 J
Dibenzo[a,h]Anthracene	53-70-3	330	53.8 U	65 U	60.5 U	62.7 U	129 J	57.1 U
Dibenzofuran	132-64-9	7,000	108 U	130 U	121 U	125 U	159 U	114 U
Diethylphthalate	84-66-2	NC	108 U	130 U	121 U	27.7 J	37.9 J	114 U
Dimethylphthalate	131-11-3	NC	108 U	130 U	121 U	125 U	159 U	114 U
Di-n-butylphthalate	84-74-2	NC	108 U	130 U	121 U	125 U	159 U	114 U
Di-n-octylphthalate	117-84-0	NC	108 UJ	130 U	121 U	125 U	159 U	114 U
Fluoranthene	206-44-0	100,000	53.8 U	65 U	60.5 U	62.7 U	79.5 U	48.9 J
Fluorene	86-73-7	30,000	53.8 U	65 U	60.5 U	62.7 U	79.5 U	57.1 U
Hexachlorobenzene	118-74-1	330	108 U	130 U	121 U	24 J	159 U	114 U
Hexachlorobutadiene	87-68-3	NC	108 UJ	130 U	121 U	125 U	159 U	114 U
Hexachlorocyclopentadiene	77-47-4	NC	215 U	260 U	242 UJ	251 UJ	318 UJ	228 U
Hexachloroethane	67-72-1	NC	108 U	130 U	121 U	125 U	159 U	114 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	53.8 U	65 U	60.5 U	27.2 J	73.4 J	27.7 J
Isophorone	78-59-1	NC	108 U	130 U	121 U	125 U	159 U	114 U
m-Cresol & p-Cresol	MEPH1314	330**	215 U	260 U	242 U	251 U	318 U	228 U
Naphthalene	91-20-3	12,000	53.8 U	65 U	60.5 U	62.7 U	79.5 U	57.1 U
Nitrobenzene	98-95-3	NC	108 U	130 U	121 U	125 U	159 U	114 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	108 U	130 U	121 U	125 U	159 U	114 U
N-Nitrosodiphenylamine	86-30-6	NC	108 U	130 U	121 U	125 U	159 U	114 U
Pentachlorophenol	87-86-5	800	215 U	260 U	242 U	251 U	318 U	228 U
Phenanthrene	85-01-8	100,000	53.8 U	65 U	60.5 UJ	62.7 U	147 J	62.7
Phenol	108-95-2	330	215 U	260 U	242 U	251 U	318 U	228 U
Pyrene	129-00-0	100,000	53.8 U	65 U	60.5 U	62.7 U	56.3 J	61.1
Pyridine	110-86-1	NC	215 U	260 U	242 U	251 U	318 U	228 U
Total SVOC TICs	NA	NC	NT	NT	498	1,001	23,012	NT

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-115	SB-116	SB-117	SB-117	SB-118	SB-119
		Sample ID	SB-115-5.6-6.7-030216	SB-116-5.7-6.5-030216	DUP-003-030216	SB-117-5.9-7-030216	SB-118-7-7.4-030216	SB-119-4.5-6-031116
		Sample Date	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/11/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2127346	2127346	2127346	2127346	2127346	2130903
		Start Depth	5.6	5.7	5.9	5.9	7	4.5
		End Depth	6.7	6.5	7	7	7.4	6
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	622	130 U	130 U	134 U	117 U	120 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	128 U	130 U	130 U	134 U	117 U	120 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	257 U	260 U	260 U	269 U	234 U	240 U
2,4,5-Trichlorophenol	95-95-4	NC	257 U	260 U	260 U	269 U	234 U	240 U
2,4,6-Trichlorophenol	88-06-2	NC	257 U	260 U	260 U	269 U	234 U	240 U
2,4-Dichlorophenol	120-83-2	NC	257 U	260 U	260 U	269 U	234 U	240 U
2,4-Dimethylphenol	105-67-9	NC	257 U	260 U	260 U	269 U	234 U	240 U
2,4-Dinitrophenol	51-28-5	NC	449 U	454 U	455 U	470 U	409 U	419 U
2,4-Dinitrotoluene	121-14-2	NC	128 U	130 U	130 U	134 U	117 U	120 U
2,6-Dinitrotoluene	606-20-2	NC	128 U	130 U	130 U	134 U	117 U	120 U
2-Chloronaphthalene	91-58-7	NC	128 U	130 U	130 U	134 U	117 U	120 U
2-Chlorophenol	95-57-8	NC	257 U	260 U	260 U	269 U	234 U	240 U
2-Methylnaphthalene	91-57-6	NC	1,880	29.5 J	130 U	29.1 J	117 U	120 U
2-Methylphenol	95-48-7	330	257 U	260 U	260 U	269 U	234 U	240 U
2-Nitroaniline	88-74-4	NC	257 U	260 U	260 U	269 U	234 U	240 U
2-Nitrophenol	88-75-5	NC	257 U	260 U	260 U	269 U	234 U	240 U
3,3-Dichlorobenzidine	91-94-1	NC	257 U	260 U	260 U	269 U	234 U	240 U
3-Nitroaniline	99-09-2	NC	257 U	260 U	260 U	269 U	234 U	240 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	257 U	260 U	260 U	269 U	234 U	240 U
4-Bromophenyl-phenylether	101-55-3	NC	128 U	130 U	130 U	134 U	117 U	120 U
4-Chloro-3-methylphenol	59-50-7	NC	257 U	260 U	260 U	269 U	234 U	240 UJ
4-Chloroaniline	106-47-8	NC	257 U	260 U	260 U	269 U	234 U	240 U
4-Chlorophenyl-phenylether	7005-72-3	NC	128 U	130 U	130 U	134 U	117 U	120 U
4-Nitroaniline	100-01-6	NC	257 U	260 U	260 U	269 U	234 U	240 UJ
4-Nitrophenol	100-02-7	NC	257 U	260 U	260 U	269 U	234 U	240 U
Acenaphthene	83-32-9	20,000	3,610	41 J	65 U	67.1 U	58.4 U	59.9 U
Acenaphthylene	208-96-8	100,000	2,330	33.7 J	65 U	67.1 U	58.4 U	59.9 U
Acetophenone	98-86-2	NC	128 U	130 U	130 U	134 U	117 U	120 U
Anthracene	120-12-7	100,000	4,810	130	65 U	67.1 U	58.4 U	59.9 U
Atrazine	1912-24-9	NC	128 U	130 U	130 U	134 U	117 U	120 U
Benzaldehyde	100-52-7	NC	257 U	81.4 J	31.6 J	38.1 J	234 U	240 UJ
Benzidine	92-87-5	NC	257 U	260 U	260 U	269 U	234 U	240 U
Benzo[a]anthracene	56-55-3	1,000	3,700	320	65 U	99.7	39 J	59.9 U
Benzo[a]pyrene	50-32-8	1,000	3,360	156	65 U	67.1 U	49.8 J	59.9 U
Benzo[b]fluoranthene	205-99-2	1,000	4,420	361	65 UJ	137 J	65.3	59.9 U
Benzo[g,h,i]perylene	191-24-2	100,000	4,160	145	65 U	96.4	43.3 J	59.9 U
Benzo[k]fluoranthene	207-08-9	800	1,590	109	65 U	54.3 J	58.4 U	59.9 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	128 U	130 U	130 U	134 U	117 U	120 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	128 U	130 U	130 U	134 U	117 U	120 UJ
Bis(2-Chloroisopropyl)ether	108-60-1	NC	128 UJ	130 UJ	130 UJ	134 UJ	117 UJ	120 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	321 U	324 U	325 U	336 U	292 U	300 U
Butylbenzylphthalate	85-68-7	NC	128 U	130 U	130 U	134 U	117 U	120 U
Caprolactam	105-60-2	NC	257 U	260 U	260 U	269 U	234 U	240 U
Carbazole	86-74-8	NC	128 U	42.5 J	130 U	134 U	117 U	120 U
Chrysene	218-01-9	1,000	4,380	508	65 UJ	137 J	32.9 J	59.9 U
Dibenzo[a,h]Anthracene	53-70-3	330	422	62.4 J	65 U	67.1 U	58.4 U	59.9 U
Dibenzofuran	132-64-9	7,000	128 U	45.4 J	130 U	134 U	117 U	120 U
Diethylphthalate	84-66-2	NC	128 U	130 U	130 U	134 U	117 U	120 U
Dimethylphthalate	131-11-3	NC	128 U	130 U	130 U	134 U	117 U	120 U
Di-n-butylphthalate	84-74-2	NC	128 U	130 U	130 U	134 U	117 U	120 U
Di-n-octylphthalate	117-84-0	NC	128 U	130 U	130 U	134 U	117 U	120 U
Fluoranthene	206-44-0	100,000	12,600	624	65 U	191	52.1 J	59.9 U
Fluorene	86-73-7	30,000	5,930	75	65 U	67.1 U	58.4 U	59.9 U
Hexachlorobenzene	118-74-1	330	128 U	130 U	130 U	134 U	117 U	120 U
Hexachlorobutadiene	87-68-3	NC	128 U	130 U	130 U	134 U	117 U	120 U
Hexachlorocyclopentadiene	77-47-4	NC	257 U	260 U	260 U	269 U	234 U	240 UJ
Hexachloroethane	67-72-1	NC	128 U	130 U	130 U	134 U	117 U	120 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	3,550	121	65 U	77	41.8 J	59.9 U
Isophorone	78-59-1	NC	128 U	130 U	130 U	134 U	117 U	120 U
m-Cresol & p-Cresol	MEPH1314	330**	257 U	260 U	26.7 J	119 J	234 U	240 U
Naphthalene	91-20-3	12,000	7,580	92.6	65 U	34.3 J	58.4 U	59.9 U
Nitrobenzene	98-95-3	NC	128 U	130 U	130 U	134 U	117 U	120 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	128 U	130 U	130 U	134 U	117 U	120 U
N-Nitrosodiphenylamine	86-30-6	NC	128 U	130 U	130 U	134 U	117 U	120 U
Pentachlorophenol	87-86-5	800	257 U	260 U	260 U	269 U	234 U	240 U
Phenanthrene	85-01-8	100,000	20,000	407	65 UJ	132 J	58.4 U	59.9 U
Phenol	108-95-2	330	257 U	260 U	260 U	269 U	234 U	240 U
Pyrene	129-00-0	100,000	20,000	353	65 UJ	262 J	50.4 J	59.9 U
Pyridine	110-86-1	NC	257 U	260 U	260 U	269 U	234 U	240 U
Total SVOC TICs	NA	NC	44,901	7,084	355	1,890	NT	NT

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-120	SB-121	SB-122	SB-124	SB-125	SB-127
		Sample ID	SB-120-6.5-7.4-031416	SB-121-2-2.5-031416	SB-122-7-8-022916	SB-124-8-9-031116	SB-125-5-7-031416	SB-127-10-11-031116
		Sample Date	3/14/2016	3/14/2016	2/29/2016	3/11/2016	3/14/2016	3/11/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2130903	2130903	2127346	2130903	2130903	2130903
		Start Depth	6.5	2	7	8	5	10
		End Depth	7.4	2.5	8	9	7	11
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	152 U	242	118 U	123 U	121 U	128 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	152 U	126 U	118 U	123 U	121 U	128 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	304 U	252 U	236 U	247 U	242 U	255 U
2,4,5-Trichlorophenol	95-95-4	NC	304 U	252 U	236 U	247 U	242 U	255 U
2,4,6-Trichlorophenol	88-06-2	NC	304 U	252 U	236 U	247 U	242 U	255 U
2,4-Dichlorophenol	120-83-2	NC	304 U	252 U	236 U	247 U	242 U	255 U
2,4-Dimethylphenol	105-67-9	NC	304 U	252 U	236 U	247 U	242 U	255 U
2,4-Dinitrophenol	51-28-5	NC	532 U	441 U	236 U	432 U	423 U	446 U
2,4-Dinitrotoluene	121-14-2	NC	152 U	126 U	118 U	123 U	121 U	128 U
2,6-Dinitrotoluene	606-20-2	NC	152 U	126 U	118 U	123 U	121 U	128 U
2-Chloronaphthalene	91-58-7	NC	152 U	126 U	118 U	123 U	121 U	128 U
2-Chlorophenol	95-57-8	NC	304 U	252 U	236 U	247 U	242 U	255 U
2-Methylnaphthalene	91-57-6	NC	46.7 J	2,940	118 U	123 U	121 U	128 U
2-Methylphenol	95-48-7	330	304 U	57.7 J	236 U	247 U	242 U	255 U
2-Nitroaniline	88-74-4	NC	304 U	252 U	236 U	247 U	242 U	255 U
2-Nitrophenol	88-75-5	NC	304 U	252 U	236 U	247 U	242 U	255 U
3,3-Dichlorobenzidine	91-94-1	NC	304 U	252 U	236 U	247 U	242 U	255 U
3-Nitroaniline	99-09-2	NC	304 U	252 U	236 U	247 U	242 U	255 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	304 U	252 U	236 U	247 U	242 U	255 U
4-Bromophenyl-phenylether	101-55-3	NC	152 U	126 U	118 U	123 U	121 U	128 U
4-Chloro-3-methylphenol	59-50-7	NC	304 UJ	252 UJ	236 U	247 UJ	242 UJ	255 UJ
4-Chloroaniline	106-47-8	NC	304 U	252 U	236 U	247 U	242 U	255 U
4-Chlorophenyl-phenylether	7005-72-3	NC	152 U	126 U	118 U	123 U	121 U	128 U
4-Nitroaniline	100-01-6	NC	304 U	252 U	236 U	247 UJ	242 U	255 UJ
4-Nitrophenol	100-02-7	NC	304 UJ	252 UJ	236 U	247 U	242 UJ	255 U
Acenaphthene	83-32-9	20,000	76 U	62.9 U	58.9 U	61.7 U	60.4 U	63.8 U
Acenaphthylene	208-96-8	100,000	133	62.9 U	58.9 U	61.7 U	60.4 U	63.8 U
Acetophenone	98-86-2	NC	152 U	461	118 U	123 U	121 U	128 U
Anthracene	120-12-7	100,000	89.3	109	58.9 U	61.7 U	60.4 U	63.8 U
Atrazine	1912-24-9	NC	152 U	126 U	118 U	123 U	121 U	128 U
Benzaldehyde	100-52-7	NC	304 UJ	252 UJ	236 U	247 UJ	242 UJ	255 UJ
Benzidine	92-87-5	NC	304 U	252 U	236 U	247 U	242 U	255 U
Benzo[a]anthracene	56-55-3	1,000	621	415	12.4 J	61.7 U	60.4 U	63.8 U
Benzo[a]pyrene	50-32-8	1,000	799	270	7.5 J	61.7 U	60.4 UJ	63.8 U
Benzo[b]fluoranthene	205-99-2	1,000	1,150	487	9.3 J	61.7 U	60.4 U	63.8 U
Benzo[g,h,i]perylene	191-24-2	100,000	617	148	10.9 J	61.7 U	60.4 R	63.8 U
Benzo[k]fluoranthene	207-08-9	800	467	62.9 U	7.5 J	61.7 U	60.4 U	63.8 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	152 U	126 U	118 U	123 U	121 U	128 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	152 U	126 U	118 U	123 UJ	121 U	128 UJ
Bis(2-Chloroisopropyl)ether	108-60-1	NC	152 UJ	126 UJ	118 U	123 U	121 UJ	128 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	380 U	315 U	118 UJ	165 J	302 U	319 U
Butylbenzylphthalate	85-68-7	NC	152 U	126 U	12.9 J	123 U	121 U	128 U
Caprolactam	105-60-2	NC	304 U	252 U	236 U	247 U	242 U	255 U
Carbazole	86-74-8	NC	138 J	128	118 U	123 U	121 U	128 U
Chrysene	218-01-9	1,000	956	854	6.6 J	61.7 U	60.4 U	63.8 U
Dibenzo[a,h]Anthracene	53-70-3	330	138	83.9	9.7 J	61.7 U	60.4 U	63.8 U
Dibenzofuran	132-64-9	7,000	76.5 J	947	118 UJ	123 U	121 U	128 U
Diethylphthalate	84-66-2	NC	47.8 J	126 U	118 UJ	41 J	121 U	36.9 J
Dimethylphthalate	131-11-3	NC	152 U	126 U	118 U	123 U	121 U	128 U
Di-n-butylphthalate	84-74-2	NC	152 U	126 U	118 UJ	123 U	121 U	128 U
Di-n-octylphthalate	117-84-0	NC	152 U	126 U	10.3 J	123 U	121 U	128 U
Fluoranthene	206-44-0	100,000	1,610	543	58.9 UJ	61.7 U	60.4 U	63.8 U
Fluorene	86-73-7	30,000	66.2 J	144	58.9 U	61.7 U	60.4 U	63.8 U
Hexachlorobenzene	118-74-1	330	152 U	126 U	118 U	123 U	121 U	128 U
Hexachlorobutadiene	87-68-3	NC	152 U	126 U	118 U	123 U	121 U	128 U
Hexachlorocyclopentadiene	77-47-4	NC	304 UJ	252 UJ	236 U	247 UJ	242 UJ	255 UJ
Hexachloroethane	67-72-1	NC	152 U	126 U	118 U	123 U	121 UJ	128 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	705	184	9 J	61.7 U	60.4 UJ	63.8 U
Isophorone	78-59-1	NC	152 U	126 U	118 U	123 U	121 U	128 U
m-Cresol & p-Cresol	MEPH1314	330**	58 J	75.6 J	236 U	247 U	242 U	255 U
Naphthalene	91-20-3	12,000	129	1,660	58.9 UJ	61.7 U	60.4 U	63.8 U
Nitrobenzene	98-95-3	NC	152 U	126 U	118 U	123 U	121 U	128 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	152 U	126 U	118 U	123 U	121 U	128 U
N-Nitrosodiphenylamine	86-30-6	NC	152 U	126 U	118 U	123 U	121 U	128 U
Pentachlorophenol	87-86-5	800	304 U	252 U	236 U	247 U	242 U	255 U
Phenanthrene	85-01-8	100,000	970	2,210	58.9 UJ	42.4 J	60.4 U	63.8 U
Phenol	108-95-2	330	304 U	252 U	236 U	247 U	242 U	255 U
Pyrene	129-00-0	100,000	1,250	593	6.2 J	61.7 U	60.4 UJ	63.8 U
Pyridine	110-86-1	NC	304 U	252 U	NA	247 U	242 U	255 U
Total SVOC TICs	NA	NC	8,646	60,230	369	3,086	1,199	NT

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-129	SB-130	SB-131	SB-133	SB-134	SB-135
		Sample ID	SB-129-4.6-6.6-031516	SB-130-4-4.5-042216	SB-131-8-10-031116	SB-133-4.5-5-041416	SB-134-10-11-031516	SB-135-8-9-041516
		Sample Date	3/15/2016	4/22/2016	3/11/2016	4/14/2016	3/15/2016	4/15/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2130900	2139069	2130903	2139069	2130900	2139069
		Start Depth	4.6	4	8	4.5	10	8
		End Depth	6.6	4.5	10	5	11	9
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	27.9 J	250	114 U	151 U	119 U	84.5 J
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	117 U	131 U	114 U	151 U	119 U	143 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	234 U	261 U	229 U	302 U	238 R	285 U
2,4,5-Trichlorophenol	95-95-4	NC	234 U	261 U	229 U	302 U	238 R	285 U
2,4,6-Trichlorophenol	88-06-2	NC	234 U	261 U	229 U	302 U	238 R	285 U
2,4-Dichlorophenol	120-83-2	NC	234 U	261 U	229 U	302 U	238 U	285 U
2,4-Dimethylphenol	105-67-9	NC	234 U	261 U	229 U	302 U	238 R	285 U
2,4-Dinitrophenol	51-28-5	NC	410 U	457 U	400 U	528 U	417 R	499 U
2,4-Dinitrotoluene	121-14-2	NC	117 U	131 U	114 U	151 U	119 R	143 U
2,6-Dinitrotoluene	606-20-2	NC	117 U	131 U	114 U	151 U	119 U	143 U
2-Chloronaphthalene	91-58-7	NC	117 U	131 U	114 U	151 U	119 U	143 U
2-Chlorophenol	95-57-8	NC	234 U	261 U	229 U	302 U	238 R	285 U
2-Methylnaphthalene	91-57-6	NC	162	1,810	114 U	148 J	119 U	218
2-Methylphenol	95-48-7	330	234 U	188 J	229 U	302 U	238 R	285 U
2-Nitroaniline	88-74-4	NC	234 U	261 U	229 U	302 U	238 U	285 U
2-Nitrophenol	88-75-5	NC	234 U	261 U	229 U	302 U	238 R	285 U
3,3-Dichlorobenzidine	91-94-1	NC	234 U	261 U	229 U	302 U	238 U	285 U
3-Nitroaniline	99-09-2	NC	234 U	261 U	229 U	302 U	238 U	285 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	234 U	261 U	229 U	302 U	238 R	285 U
4-Bromophenyl-phenylether	101-55-3	NC	117 U	131 U	114 U	151 U	119 U	143 U
4-Chloro-3-methylphenol	59-50-7	NC	234 UJ	261 U	229 UJ	302 U	238 R	285 U
4-Chloroaniline	106-47-8	NC	234 U	261 U	229 U	302 U	238 U	285 U
4-Chlorophenyl-phenylether	7005-72-3	NC	117 U	131 U	114 U	151 U	119 U	143 U
4-Nitroaniline	100-01-6	NC	234 U	261 U	229 UJ	302 U	238 U	285 U
4-Nitrophenol	100-02-7	NC	234 UJ	261 U	229 U	302 U	238 R	285 U
Acenaphthene	83-32-9	20,000	58.6 U	126	57.2 U	75.5 U	59.6 U	33.3 J
Acenaphthylene	208-96-8	100,000	58.6 U	65.3 U	57.2 U	75.5 U	59.6 U	71.3 U
Acetophenone	98-86-2	NC	135	131 U	114 U	199 U	119 U	205 U
Anthracene	120-12-7	100,000	74.5	206	57.2 U	99.3	59.6 U	63.4 J
Atrazine	1912-24-9	NC	117 U	131 UJ	114 U	151 UJ	119 U	143 UJ
Benzaldehyde	100-52-7	NC	234 UJ	261 UJ	229 UJ	86.1 J	238 UJ	285 UJ
Benzidine	92-87-5	NC	234 U	261 U	229 U	302 U	238 U	285 U
Benzo[a]anthracene	56-55-3	1,000	44.8 J	716	57.2 U	214	59.6 U	75.2
Benzo[a]pyrene	50-32-8	1,000	58.6 U	426	57.2 U	257	59.6 U	82.9
Benzo[b]fluoranthene	205-99-2	1,000	49.6 J	556	57.2 U	347	59.6 U	122
Benzo[g,h,i]perylene	191-24-2	100,000	58.6 U	316	57.2 U	222	59.6 U	75.9
Benzo[k]fluoranthene	207-08-9	800	58.6 U	178	57.2 U	123	59.6 U	41.8 J
Bis(2-Chloroethoxy)methane	111-91-1	NC	117 U	131 U	114 U	151 U	119 U	143 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	117 U	131 U	114 UJ	151 U	119 U	143 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	117 UJ	131 U	114 U	151 U	119 UJ	143 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	293 U	327 U	286 U	377 U	298 U	356 U
Butylbenzylphthalate	85-68-7	NC	117 U	131 U	114 U	151 U	119 U	143 U
Caprolactam	105-60-2	NC	234 U	261 U	229 U	302 U	238 U	285 U
Carbazole	86-74-8	NC	117 U	131 U	114 U	151 U	119 U	143 U
Chrysene	218-01-9	1,000	59.3	1,170	57.2 U	426	59.6 U	185
Dibenzo[a,h]Anthracene	53-70-3	330	58.6 U	191	57.2 U	76.8	59.6 U	71.3 U
Dibenzofuran	132-64-9	7,000	117 U	478	114 U	151 U	119 U	143 U
Diethylphthalate	84-66-2	NC	117 U	131 U	38 J	151 U	33.7 J	143 U
Dimethylphthalate	131-11-3	NC	117 U	131 U	114 U	151 U	119 U	143 U
Di-n-butylphthalate	84-74-2	NC	117 U	131 U	114 U	151 U	119 U	143 U
Di-n-octylphthalate	117-84-0	NC	117 U	131 U	114 U	151 U	119 U	143 U
Fluoranthene	206-44-0	100,000	227	730	57.2 U	635	59.6 U	203
Fluorene	86-73-7	30,000	228	363	57.2 U	88.1	59.6 U	115
Hexachlorobenzene	118-74-1	330	117 U	131 U	114 U	151 U	119 U	143 U
Hexachlorobutadiene	87-68-3	NC	117 U	131 U	114 U	151 U	119 U	143 U
Hexachlorocyclopentadiene	77-47-4	NC	234 UJ	261 U	229 UJ	302 U	238 UJ	285 U
Hexachloroethane	67-72-1	NC	117 U	131 U	114 U	151 U	119 U	143 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	58.6 U	242	57.2 U	190	59.6 U	60.6 J
Isophorone	78-59-1	NC	117 U	131 U	114 U	151 U	119 U	143 U
m-Cresol & p-Cresol	MEPH1314	330**	234 U	795	229 U	185 J	238 UJ	287
Naphthalene	91-20-3	12,000	58.6 U	1,170	57.2 U	143	59.6 U	127
Nitrobenzene	98-95-3	NC	117 U	131 U	114 U	151 U	119 U	143 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	117 U	131 U	114 U	151 U	119 U	143 U
N-Nitrosodiphenylamine	86-30-6	NC	117 U	131 U	114 U	151 U	119 U	143 U
Pentachlorophenol	87-86-5	800	234 U	261 U	229 U	302 U	238 R	285 U
Phenanthrene	85-01-8	100,000	629	1,410	57.2 U	463	59.6 U	351
Phenol	108-95-2	330	234 U	261 U	229 U	302 U	238 R	285 U
Pyrene	129-00-0	100,000	94	875	57.2 U	548	59.6 U	196
Pyridine	110-86-1	NC	234 U	261 U	229 U	302 U	238 U	285 U
Total SVOC TICs	NA	NC	38,375	46,690	4,418	70,480	437	80,400

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-136	SB-137	SB-138	SB-139	SB-141	SB-142
		Sample ID	SB-136-5-7-031116	SB-137-6-8-031116	SB-138-4-4.8-030116	SB-139-8-9.7-030116	SB-141-7-8-030116	SB-142-11-12-030116
		Sample Date	3/11/2016	3/11/2016	3/1/2016	3/1/2016	3/1/2016	3/1/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2130903	2130903	2127346	2127346	2127346	2127346
		Start Depth	5	6	4	8	7	11
		End Depth	7	8	4.8	9.7	8	12
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	119 U	124 U	115 U	118 U	119 U	121 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	119 U	124 U	115 U	118 U	119 U	121 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	237 U	248 U	231 U	236 U	237 U	241 U
2,4,5-Trichlorophenol	95-95-4	NC	237 U	248 U	231 U	236 U	237 U	241 U
2,4,6-Trichlorophenol	88-06-2	NC	237 U	248 U	231 U	236 U	237 U	241 U
2,4-Dichlorophenol	120-83-2	NC	237 U	248 U	231 U	236 U	237 U	241 U
2,4-Dimethylphenol	105-67-9	NC	237 U	248 U	231 U	236 U	237 U	241 U
2,4-Dinitrophenol	51-28-5	NC	415 U	435 U	404 U	414 U	415 U	422 U
2,4-Dinitrotoluene	121-14-2	NC	119 U	124 U	115 U	118 U	119 U	121 U
2,6-Dinitrotoluene	606-20-2	NC	119 U	124 U	115 U	118 U	119 U	121 U
2-Chloronaphthalene	91-58-7	NC	119 U	124 U	115 U	118 U	119 U	121 U
2-Chlorophenol	95-57-8	NC	237 U	248 U	231 U	236 U	237 U	241 U
2-Methylnaphthalene	91-57-6	NC	119 U	124 U	115 U	16.6 J	119 U	121 U
2-Methylphenol	95-48-7	330	237 U	248 U	231 U	236 U	237 U	241 U
2-Nitroaniline	88-74-4	NC	237 U	248 U	231 U	236 U	237 U	241 U
2-Nitrophenol	88-75-5	NC	237 U	248 U	231 U	236 U	237 U	241 U
3,3-Dichlorobenzidine	91-94-1	NC	237 U	248 U	231 U	236 U	237 U	241 U
3-Nitroaniline	99-09-2	NC	237 U	248 U	231 U	236 U	237 U	241 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	237 U	248 U	231 U	236 U	237 U	241 U
4-Bromophenyl-phenylether	101-55-3	NC	119 U	124 U	115 U	118 U	119 U	121 U
4-Chloro-3-methylphenol	59-50-7	NC	237 UJ	248 UJ	231 U	236 U	237 U	241 U
4-Chloroaniline	106-47-8	NC	237 U	248 U	231 U	236 U	237 U	241 U
4-Chlorophenyl-phenylether	7005-72-3	NC	119 U	124 U	115 U	118 U	119 U	121 U
4-Nitroaniline	100-01-6	NC	237 UJ	248 UJ	231 U	236 U	237 U	241 U
4-Nitrophenol	100-02-7	NC	237 U	248 U	231 U	236 U	237 U	241 U
Acenaphthene	83-32-9	20,000	59.3 U	62.1 U	38.6 J	55 J	59.3 U	60.3 U
Acenaphthylene	208-96-8	100,000	59.3 U	62.1 U	57.7 U	59.1 U	59.3 U	60.3 U
Acetophenone	98-86-2	NC	119 U	124 U	115 U	118 U	119 U	121 U
Anthracene	120-12-7	100,000	59.3 U	62.1 U	70	140	59.3 U	60.3 U
Atrazine	1912-24-9	NC	119 U	124 U	115 U	118 U	119 U	121 U
Benzaldehyde	100-52-7	NC	237 UJ	248 UJ	231 U	236 U	237 U	241 U
Benzidine	92-87-5	NC	237 U	248 U	231 U	236 U	237 U	241 U
Benzo[a]anthracene	56-55-3	1,000	59.3 U	62.1 U	161	243	59.3 U	60.3 U
Benzo[a]pyrene	50-32-8	1,000	59.3 U	62.1 U	149	198	59.3 U	60.3 U
Benzo[b]fluoranthene	205-99-2	1,000	59.3 U	62.1 U	178	247	59.3 U	60.3 U
Benzo[g,h,i]perylene	191-24-2	100,000	59.3 U	62.1 U	103	108	59.3 U	60.3 U
Benzo[k]fluoranthene	207-08-9	800	59.3 U	62.1 U	73.8	96.2	59.3 U	60.3 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	119 U	124 U	115 U	118 U	119 U	121 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	119 UJ	124 UJ	115 U	118 U	119 U	121 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	119 U	124 U	115 UJ	118 UJ	119 UJ	121 UJ
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	297 U	310 U	288 U	295 U	297 U	302 U
Butylbenzylphthalate	85-68-7	NC	119 U	124 U	115 U	118 U	119 U	121 U
Caprolactam	105-60-2	NC	237 U	248 U	231 U	236 U	237 U	241 U
Carbazole	86-74-8	NC	119 U	124 U	33.3 J	46.8 J	119 U	121 U
Chrysene	218-01-9	1,000	59.3 U	62.1 U	175	245	59.3 U	60.3 U
Dibenzo[a,h]Anthracene	53-70-3	330	59.3 U	62.1 U	27.8 J	33.5 J	59.3 U	60.3 U
Dibenzofuran	132-64-9	7,000	119 U	124 U	115 U	31.5 J	119 U	121 U
Diethylphthalate	84-66-2	NC	30.5 J	124 U	115 U	118 U	119 U	121 U
Dimethylphthalate	131-11-3	NC	119 U	124 U	115 U	118 U	119 U	121 U
Di-n-butylphthalate	84-74-2	NC	119 U	124 U	115 U	118 U	119 U	121 U
Di-n-octylphthalate	117-84-0	NC	119 U	124 U	115 U	118 U	119 U	121 U
Fluoranthene	206-44-0	100,000	59.3 U	62.1 U	334	561	59.3 U	60.3 U
Fluorene	86-73-7	30,000	59.3 U	62.1 U	47.8 J	66.9	59.3 U	60.3 U
Hexachlorobenzene	118-74-1	330	119 U	124 U	115 U	118 U	119 U	121 U
Hexachlorobutadiene	87-68-3	NC	119 U	124 U	115 U	118 U	119 U	121 U
Hexachlorocyclopentadiene	77-47-4	NC	237 UJ	248 UJ	231 U	236 U	237 U	241 U
Hexachloroethane	67-72-1	NC	119 U	124 U	115 U	118 U	119 U	121 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	59.3 U	62.1 U	103	133	59.3 U	60.3 U
Isophorone	78-59-1	NC	119 U	124 U	115 U	118 U	119 U	121 U
m-Cresol & p-Cresol	MEPH1314	330**	237 U	248 U	231 U	236 U	237 U	241 U
Naphthalene	91-20-3	12,000	59.3 U	62.1 U	57.7 U	39.5 J	59.3 U	60.3 U
Nitrobenzene	98-95-3	NC	119 U	124 U	115 U	118 U	119 U	121 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	119 U	124 U	115 U	118 U	119 U	121 U
N-Nitrosodiphenylamine	86-30-6	NC	119 U	124 U	115 U	118 U	119 U	121 U
Pentachlorophenol	87-86-5	800	237 U	248 U	231 U	236 U	237 U	241 U
Phenanthrene	85-01-8	100,000	60.2	89.3	323	493	74.1	60.3 U
Phenol	108-95-2	330	237 U	248 U	231 U	236 U	237 U	241 U
Pyrene	129-00-0	100,000	41.3 J	62.1 U	272	424	59.3 U	60.3 U
Pyridine	110-86-1	NC	237 U	248 U	231 U	236 U	237 U	241 U
Total SVOC TICs	NA	NC	4,736	11,347	31,450	NT	75,150	14,724

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-143[BB]	SB-144	SB-145	SB-146	SB-147	SB-148
		Sample ID	SB-143-3-4-030116	SB-144-1-1.8-030116	SB-145-25.4-26.1-030916	SB-146-6-8-030216	SB-147-10-11.4-042216	SB-148-8-9.2-040616
		Sample Date	3/1/2016	3/1/2016	3/9/2016	3/2/2016	4/22/2016	4/7/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2127346	2127346	2130254	2127346	2139069	2136537
		Start Depth	3	1	25.4	6	10	8
		End Depth	4	1.8	26.1	8	11	9.2
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	408 U	118 U	123 U	120 U	139 U	155
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	408 U	118 U	123 U	120 U	139 U	127 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	816 U	237 U	247 U	240 U	279 U	255 U
2,4,5-Trichlorophenol	95-95-4	NC	816 U	237 U	247 U	240 U	279 U	255 U
2,4,6-Trichlorophenol	88-06-2	NC	816 U	237 U	247 U	240 U	279 U	255 U
2,4-Dichlorophenol	120-83-2	NC	816 U	237 U	247 U	240 U	279 U	255 U
2,4-Dimethylphenol	105-67-9	NC	816 U	237 U	247 U	240 U	279 U	255 U
2,4-Dinitrophenol	51-28-5	NC	1430 U	414 U	432 U	421 U	488 U	446 U
2,4-Dinitrotoluene	121-14-2	NC	408 U	118 U	123 U	120 U	139 U	127 U
2,6-Dinitrotoluene	606-20-2	NC	408 U	118 U	123 U	120 U	139 U	127 U
2-Chloronaphthalene	91-58-7	NC	408 U	118 U	123 U	120 U	139 U	127 U
2-Chlorophenol	95-57-8	NC	816 U	237 U	247 U	240 U	279 U	255 U
2-Methylnaphthalene	91-57-6	NC	408 U	30.3 J	123 U	120 U	139 U	525
2-Methylphenol	95-48-7	330	816 U	237 U	247 U	240 U	279 U	255 U
2-Nitroaniline	88-74-4	NC	816 U	237 U	247 U	240 U	279 U	255 U
2-Nitrophenol	88-75-5	NC	816 U	237 U	247 U	240 U	279 U	255 U
3,3-Dichlorobenzidine	91-94-1	NC	816 U	237 U	247 U	240 U	279 U	255 U
3-Nitroaniline	99-09-2	NC	816 U	237 U	247 U	240 U	279 U	255 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	816 U	237 U	247 U	240 U	279 U	255 U
4-Bromophenyl-phenylether	101-55-3	NC	408 U	118 U	123 U	120 U	139 U	127 U
4-Chloro-3-methylphenol	59-50-7	NC	816 U	237 U	247 U	240 U	279 U	255 U
4-Chloroaniline	106-47-8	NC	816 U	237 U	247 U	240 U	279 U	255 U
4-Chlorophenyl-phenylether	7005-72-3	NC	408 U	118 U	123 U	120 U	139 U	127 U
4-Nitroaniline	100-01-6	NC	816 U	237 U	247 U	240 U	279 U	255 U
4-Nitrophenol	100-02-7	NC	816 U	237 U	247 U	240 U	279 U	255 U
Acenaphthene	83-32-9	20,000	204 U	48.2 J	61.7 U	60.1 U	69.7 U	1,030
Acenaphthylene	208-96-8	100,000	204 U	33.1 J	61.7 U	60.1 U	69.7 U	560
Acetophenone	98-86-2	NC	408 U	181	123 U	120 U	139 U	131
Anthracene	120-12-7	100,000	204 U	270	61.7 U	60.1 U	69.7 U	3,360
Atrazine	1912-24-9	NC	408 U	118 U	123 U	120 U	139 UJ	127 UJ
Benzaldehyde	100-52-7	NC	816 U	35.5 J	247 U	240 U	279 UJ	255 UJ
Benzidine	92-87-5	NC	816 U	237 U	247 U	240 U	279 U	255 U
Benzo[a]anthracene	56-55-3	1,000	413	1,060	61.7 U	60.1 U	69.7 U	5,870
Benzo[a]pyrene	50-32-8	1,000	324	910	61.7 U	60.1 U	69.7 U	5,120
Benzo[b]fluoranthene	205-99-2	1,000	261	1,240	61.7 U	60.1 U	69.7 U	5,990
Benzo[g,h,i]perylene	191-24-2	100,000	554	620	61.7 U	60.1 U	69.7 U	3,230
Benzo[k]fluoranthene	207-08-9	800	204 U	452	61.7 U	60.1 U	69.7 U	2,260
Bis(2-Chloroethoxy)methane	111-91-1	NC	408 U	118 U	123 U	120 U	139 U	127 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	408 U	118 U	123 U	120 U	139 U	127 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	408 UJ	118 UJ	123 UJ	120 UJ	139 U	127 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	1020 U	296 U	309 U	301 U	348 U	221 J
Butylbenzylphthalate	85-68-7	NC	408 U	26.4 J	123 U	120 U	139 U	80 J
Caprolactam	105-60-2	NC	816 U	237 U	247 U	240 U	279 U	255 U
Carbazole	86-74-8	NC	408 U	147	123 U	120 U	139 U	1,000
Chrysene	218-01-9	1,000	935	1,170	61.7 U	60.1 U	69.7 U	5,840
Dibenzo[a,h]Anthracene	53-70-3	330	375	171	61.7 U	60.1 U	69.7 U	810
Dibenzofuran	132-64-9	7,000	408 U	50.6 J	123 U	120 U	139 U	959
Diethylphthalate	84-66-2	NC	408 U	118 U	123 U	120 U	139 U	127 U
Dimethylphthalate	131-11-3	NC	408 U	118 U	123 U	120 U	139 U	127 U
Di-n-butylphthalate	84-74-2	NC	408 U	118 U	123 U	120 U	139 U	127 U
Di-n-octylphthalate	117-84-0	NC	408 U	118 U	123 UJ	120 U	139 U	127 U
Fluoranthene	206-44-0	100,000	204 U	1,970	61.7 U	60.1 U	69.7 U	13,900
Fluorene	86-73-7	30,000	204 U	66.8	61.7 U	60.1 U	69.7 U	1,780
Hexachlorobenzene	118-74-1	330	408 U	118 U	123 U	120 U	139 U	127 U
Hexachlorobutadiene	87-68-3	NC	408 U	118 U	123 U	120 U	139 U	127 U
Hexachlorocyclopentadiene	77-47-4	NC	816 U	237 U	247 UJ	240 U	279 U	255 U
Hexachloroethane	67-72-1	NC	408 U	118 U	123 U	120 U	139 U	127 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	192 J	624	61.7 U	60.1 U	69.7 U	3,530
Isophorone	78-59-1	NC	408 U	118 U	123 U	120 U	139 U	127 U
m-Cresol & p-Cresol	MEPH1314	330**	816 U	237 U	247 U	240 U	279 U	64.9 J
Naphthalene	91-20-3	12,000	204 U	44.2 J	61.7 U	60.1 U	69.7 U	1,410
Nitrobenzene	98-95-3	NC	408 U	118 U	123 U	120 U	139 U	127 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	408 U	118 U	123 U	120 U	139 U	127 U
N-Nitrosodiphenylamine	86-30-6	NC	408 U	118 U	123 U	120 U	139 U	127 U
Pentachlorophenol	87-86-5	800	816 U	237 U	247 U	240 U	279 U	255 U
Phenanthrene	85-01-8	100,000	391	1,180	61.7 U	60.1 U	69.7 U	13,800
Phenol	108-95-2	330	816 U	237 U	247 U	240 U	279 U	255 U
Pyrene	129-00-0	100,000	89.3 J	1,690	61.7 U	60.1 U	69.7 U	10,800
Pyridine	110-86-1	NC	816 U	237 U	247 U	240 U	279 U	255 U
Total SVOC TICs	NA	NC	53,090	702	5116	NT	6,216	30,040

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-149	SB-149[BB]	SB-150	SB-152	SB-154	SB-155
		Sample ID	SB-149-10-11-040616	SB-149-4-5-040616	SB-150-3-4-022916	SB-152-6-7-030316	SB-154-15-17-030316	SB-155-2-3-031016
		Sample Date	4/6/2016	4/6/2016	2/29/2016	3/3/2016	3/3/2016	3/10/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2136537	2136537	2127346	2129473	2129473	2130254
		Start Depth	10	4	3	6	15	2
		End Depth	11	5	4	7	17	3
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	119 U	179 U	77.9 J	119 U	127 U	124 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	119 U	179 U	125 U	119 U	127 U	124 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	238 U	358 U	250 U	238 U	255 U	249 U
2,4,5-Trichlorophenol	95-95-4	NC	238 U	358 U	250 U	238 U	255 U	249 U
2,4,6-Trichlorophenol	88-06-2	NC	238 U	358 U	250 U	238 U	255 U	249 U
2,4-Dichlorophenol	120-83-2	NC	238 U	358 U	250 U	238 U	255 U	249 U
2,4-Dimethylphenol	105-67-9	NC	238 U	358 U	35.6 J	238 U	255 U	249 U
2,4-Dinitrophenol	51-28-5	NC	417 U	626 U	250 U	417 U	446 UJ	435 U
2,4-Dinitrotoluene	121-14-2	NC	119 U	179 U	125 U	119 U	127 U	124 U
2,6-Dinitrotoluene	606-20-2	NC	119 U	179 U	125 U	119 U	127 U	124 U
2-Chloronaphthalene	91-58-7	NC	119 U	179 U	125 U	119 U	127 U	124 U
2-Chlorophenol	95-57-8	NC	238 U	358 U	250 U	238 U	255 U	249 U
2-Methylnaphthalene	91-57-6	NC	119 U	68 J	314	119 U	127 U	124 U
2-Methylphenol	95-48-7	330	238 U	358 U	42.5 J	238 U	255 U	249 U
2-Nitroaniline	88-74-4	NC	238 U	358 U	250 U	238 U	255 U	249 U
2-Nitrophenol	88-75-5	NC	238 U	358 U	250 U	238 U	255 U	249 U
3,3-Dichlorobenzidine	91-94-1	NC	238 U	358 U	250 U	238 U	255 U	249 U
3-Nitroaniline	99-09-2	NC	238 U	358 U	250 U	238 U	255 U	249 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	238 U	358 U	250 U	238 U	255 U	249 U
4-Bromophenyl-phenylether	101-55-3	NC	119 U	179 U	125 U	119 U	127 U	124 U
4-Chloro-3-methylphenol	59-50-7	NC	238 U	358 U	250 U	238 U	255 U	249 U
4-Chloroaniline	106-47-8	NC	238 U	358 U	250 U	238 U	255 U	249 U
4-Chlorophenyl-phenylether	7005-72-3	NC	119 U	179 U	125 U	119 U	127 U	124 U
4-Nitroaniline	100-01-6	NC	238 U	358 U	250 U	238 U	255 U	249 U
4-Nitrophenol	100-02-7	NC	238 U	358 U	250 U	238 U	255 U	249 U
Acenaphthene	83-32-9	20,000	59.6 U	89.4 U	415	59.6 U	63.6 U	62.2 U
Acenaphthylene	208-96-8	100,000	59.6 U	89.4 U	765	59.6 U	63.6 U	62.2 U
Acetophenone	98-86-2	NC	119 U	179 U	52.6 J	119 U	127 U	124 U
Anthracene	120-12-7	100,000	59.6 U	89.4 U	1,960	41.4 J	63.6 U	62.2 U
Atrazine	1912-24-9	NC	119 UJ	179 UJ	125 U	119 U	127 U	124 U
Benzaldehyde	100-52-7	NC	238 UJ	48.6 J	103 J	238 U	255 U	249 U
Benzidine	92-87-5	NC	238 U	358 U	250 U	238 U	255 U	249 U
Benzo[a]anthracene	56-55-3	1,000	59.6 U	101	5,950	120	63.6 U	62.2 U
Benzo[a]pyrene	50-32-8	1,000	59.6 U	89.4 U	6,500	111	63.6 U	62.2 U
Benzo[b]fluoranthene	205-99-2	1,000	59.6 U	47.8 J	8,680	146	63.6 U	62.2 U
Benzo[g,h,i]perylene	191-24-2	100,000	59.6 U	46.7 J	4,310	101	63.6 U	62.2 U
Benzo[k]fluoranthene	207-08-9	800	59.6 U	89.4 U	3,030	54.1 J	63.6 U	62.2 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	119 U	179 U	125 U	119 U	127 U	124 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	119 U	179 U	125 U	119 U	127 U	124 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	119 U	179 U	125 U	119 U	127 U	124 UJ
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	298 U	447 U	57.4 J	298 U	318 U	311 U
Butylbenzylphthalate	85-68-7	NC	119 U	179 U	125 U	119 U	127 U	124 U
Caprolactam	105-60-2	NC	238 U	358 U	250 U	238 U	255 U	249 U
Carbazole	86-74-8	NC	119 U	179 U	516	30.5 J	127 U	124 U
Chrysene	218-01-9	1,000	59.6 U	195	6,200	135	63.6 U	62.2 U
Dibenzo[a,h]Anthracene	53-70-3	330	59.6 U	48.2 J	NA	59.6 U	63.6 U	62.2 U
Dibenzofuran	132-64-9	7,000	119 U	179 U	552 J	25.6 J	127 U	124 U
Diethylphthalate	84-66-2	NC	119 U	179 U	125 UJ	119 U	127 U	124 U
Dimethylphthalate	131-11-3	NC	119 U	179 U	125 U	119 U	127 U	124 U
Di-n-butylphthalate	84-74-2	NC	119 U	179 U	125 UJ	119 U	127 U	124 U
Di-n-octylphthalate	117-84-0	NC	119 U	179 U	125 UJ	119 U	127 U	124 UJ
Fluoranthene	206-44-0	100,000	59.6 U	89.4 U	8,550 J	199	63.6 U	62.2 U
Fluorene	86-73-7	30,000	59.6 U	89.4 U	538	27.6 J	63.6 U	62.2 U
Hexachlorobenzene	118-74-1	330	119 U	179 U	125 U	119 U	127 U	124 U
Hexachlorobutadiene	87-68-3	NC	119 U	179 U	125 U	119 U	127 U	124 U
Hexachlorocyclopentadiene	77-47-4	NC	238 U	358 U	250 U	238 UJ	255 UJ	249 UJ
Hexachloroethane	67-72-1	NC	119 U	179 U	125 U	119 U	127 U	124 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	59.6 U	89.4 U	4,800	78.8	63.6 U	62.2 U
Isophorone	78-59-1	NC	119 U	179 U	125 U	119 U	127 U	124 U
m-Cresol & p-Cresol	MEPH1314	330**	238 U	358 U	115 J	238 U	255 U	249 U
Naphthalene	91-20-3	12,000	59.6 U	38.3 J	485 J	31 J	63.6 U	62.2 U
Nitrobenzene	98-95-3	NC	119 U	179 U	125 U	119 U	127 U	124 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	119 U	179 U	125 U	119 U	127 U	124 U
N-Nitrosodiphenylamine	86-30-6	NC	119 U	179 U	125 U	119 U	127 U	124 U
Pentachlorophenol	87-86-5	800	238 U	358 U	250 U	238 U	255 U	249 U
Phenanthrene	85-01-8	100,000	35.7 J	330	5,650 J	163	63.6 U	62.2 U
Phenol	108-95-2	330	238 U	358 U	85.5 J	238 U	255 U	249 U
Pyrene	129-00-0	100,000	59.6 U	39.5 J	8,470	183	63.6 U	62.2 U
Pyridine	110-86-1	NC	238 U	358 U	NA	238 U	255 U	249 U
Total SVOC TICs	NA	NC	11,516	4,435	30,494	851	14,554	1352

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-156	SB-157	SB-158	SB-159	SB-160	SB-161
		Sample ID	SB-156-16-17-030916	SB-157-20.5-21.5-030916	SB-158-16-17.5-030816	SB-159-17-18-030916	SB-160-4-5-030916	SB-161-24-26-030816
		Sample Date	3/9/2016	3/9/2016	3/8/2016	3/9/2016	3/9/2016	3/8/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2130254	2130254	2130254	2130254	2130254	2130254
		Start Depth	16	20.5	16	17	4	24
		End Depth	17	21.5	17.5	18	5	26
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	105 U	120 U	108 U	125 U	110 U	112 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	105 U	120 U	108 U	125 U	110 U	112 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	210 U	240 U	215 U	250 U	220 U	224 U
2,4,5-Trichlorophenol	95-95-4	NC	210 U	240 U	215 U	250 U	220 U	224 U
2,4,6-Trichlorophenol	88-06-2	NC	210 U	240 U	215 U	250 U	220 U	224 U
2,4-Dichlorophenol	120-83-2	NC	210 U	240 U	215 U	250 U	220 U	224 U
2,4-Dimethylphenol	105-67-9	NC	210 U	240 U	215 U	250 U	220 U	224 U
2,4-Dinitrophenol	51-28-5	NC	368 U	421 U	376 U	438 U	386 U	393 U
2,4-Dinitrotoluene	121-14-2	NC	105 U	120 U	108 U	125 U	110 U	112 U
2,6-Dinitrotoluene	606-20-2	NC	105 U	120 U	108 U	125 U	110 U	112 U
2-Chloronaphthalene	91-58-7	NC	105 U	120 U	108 U	125 U	110 U	112 U
2-Chlorophenol	95-57-8	NC	210 U	240 U	215 U	250 U	220 U	224 U
2-Methylnaphthalene	91-57-6	NC	105 U	120 U	108 U	125 U	110 U	112 U
2-Methylphenol	95-48-7	330	210 U	240 U	215 U	250 U	220 U	224 U
2-Nitroaniline	88-74-4	NC	210 U	240 U	215 U	250 U	220 U	224 U
2-Nitrophenol	88-75-5	NC	210 U	240 U	215 U	250 U	220 U	224 U
3,3-Dichlorobenzidine	91-94-1	NC	210 U	240 U	215 U	250 U	220 U	224 U
3-Nitroaniline	99-09-2	NC	210 U	240 U	215 U	250 U	220 U	224 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	210 U	240 U	215 U	250 U	220 U	224 U
4-Bromophenyl-phenylether	101-55-3	NC	105 U	120 U	108 U	125 U	110 U	112 U
4-Chloro-3-methylphenol	59-50-7	NC	210 U	240 U	215 U	250 U	220 U	224 U
4-Chloroaniline	106-47-8	NC	210 U	240 U	215 U	250 U	220 U	224 U
4-Chlorophenyl-phenylether	7005-72-3	NC	105 U	120 U	108 U	125 U	110 U	112 U
4-Nitroaniline	100-01-6	NC	210 U	240 U	215 U	250 U	220 U	224 U
4-Nitrophenol	100-02-7	NC	210 U	240 U	215 U	250 U	220 U	224 U
Acenaphthene	83-32-9	20,000	52.6 U	60.1 U	53.8 U	62.6 U	55.1 U	56.1 U
Acenaphthylene	208-96-8	100,000	52.6 U	60.1 U	53.8 U	62.6 U	55.1 U	56.1 U
Acetophenone	98-86-2	NC	105 U	120 U	108 U	125 U	110 U	112 U
Anthracene	120-12-7	100,000	52.6 U	60.1 U	53.8 U	62.6 U	55.1 U	56.1 U
Atrazine	1912-24-9	NC	105 U	120 U	108 U	125 U	110 U	112 U
Benzaldehyde	100-52-7	NC	210 U	240 U	215 U	250 U	220 U	224 U
Benzidine	92-87-5	NC	210 U	240 U	215 U	250 U	220 U	224 U
Benzo[a]anthracene	56-55-3	1,000	52.6 U	60.1 U	53.8 U	62.6 U	21.5 J	56.1 U
Benzo[a]pyrene	50-32-8	1,000	52.6 U	60.1 U	53.8 U	62.6 U	55.1 U	56.1 U
Benzo[b]fluoranthene	205-99-2	1,000	52.6 U	60.1 U	53.8 U	62.6 U	33.7 J	56.1 U
Benzo[g,h,i]perylene	191-24-2	100,000	52.6 U	60.1 U	53.8 U	62.6 U	55.1 U	56.1 U
Benzo[k]fluoranthene	207-08-9	800	52.6 U	60.1 U	53.8 U	62.6 U	55.1 U	56.1 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	105 U	120 U	108 U	125 U	110 U	112 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	105 U	120 U	108 U	125 U	110 U	112 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	105 UJ	120 UJ	108 UJ	125 UJ	110 UJ	112 UJ
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	263 U	300 U	269 U	313 U	276 U	280 U
Butylbenzylphthalate	85-68-7	NC	105 U	120 U	108 U	125 U	110 U	112 U
Caprolactam	105-60-2	NC	210 U	240 U	215 U	250 U	220 U	224 U
Carbazole	86-74-8	NC	105 U	120 U	108 U	125 U	110 U	112 U
Chrysene	218-01-9	1,000	52.6 U	60.1 U	53.8 U	62.6 U	55.1 U	56.1 U
Dibenzo[a,h]Anthracene	53-70-3	330	52.6 U	60.1 U	53.8 U	62.6 U	55.1 U	56.1 U
Dibenzofuran	132-64-9	7,000	105 U	120 U	108 U	125 U	110 U	112 U
Diethylphthalate	84-66-2	NC	105 U	120 U	108 U	125 U	110 U	112 U
Dimethylphthalate	131-11-3	NC	105 U	120 U	108 U	125 U	110 U	112 U
Di-n-butylphthalate	84-74-2	NC	105 U	120 U	108 U	125 U	110 U	112 U
Di-n-octylphthalate	117-84-0	NC	105 UJ	120 UJ	108 UJ	125 UJ	110 UJ	112 UJ
Fluoranthene	206-44-0	100,000	52.6 U	60.1 U	53.8 U	62.6 U	30.4 J	56.1 U
Fluorene	86-73-7	30,000	52.6 U	60.1 U	53.8 U	62.6 U	55.1 U	56.1 U
Hexachlorobenzene	118-74-1	330	105 U	120 U	108 U	125 U	110 U	112 U
Hexachlorobutadiene	87-68-3	NC	105 U	120 U	108 U	125 U	110 U	112 U
Hexachlorocyclopentadiene	77-47-4	NC	210 UJ	240 UJ	215 UJ	250 UJ	220 UJ	224 UJ
Hexachloroethane	67-72-1	NC	105 U	120 U	108 U	125 U	110 U	112 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	52.6 U	60.1 U	53.8 U	62.6 U	55.1 U	56.1 U
Isophorone	78-59-1	NC	105 U	120 U	108 U	125 U	110 U	112 U
m-Cresol & p-Cresol	MEPH1314	330**	210 U	240 U	215 U	250 U	220 U	224 U
Naphthalene	91-20-3	12,000	52.6 U	60.1 U	53.8 U	62.6 U	55.1 U	56.1 U
Nitrobenzene	98-95-3	NC	105 U	120 U	108 U	125 U	110 U	112 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	105 U	120 U	108 U	125 U	110 U	112 U
N-Nitrosodiphenylamine	86-30-6	NC	105 U	120 U	108 U	125 U	110 U	112 U
Pentachlorophenol	87-86-5	800	210 U	240 U	215 U	250 U	220 U	224 U
Phenanthrene	85-01-8	100,000	52.6 U	60.1 U	53.8 U	62.6 U	55.1 U	56.1 U
Phenol	108-95-2	330	210 U	240 U	215 U	250 U	220 U	224 U
Pyrene	129-00-0	100,000	52.6 U	60.1 U	53.8 U	62.6 U	24.9 J	56.1 U
Pyridine	110-86-1	NC	210 U	240 U	215 U	250 U	220 U	224 U
Total SVOC TICs	NA	NC	NT	NT	NT	407	NT	NT

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-162	SB-163	SB-164	SB-165	SB-166	SB-167
		Sample ID	SB-162-19-20-030816	SB-163-13.5-16-030816	SB-164-4-5.9-030716	SB-165-22-23-030716	SB-166-13-15-030816	SB-167-18-19-030716
		Sample Date	3/8/2016	3/8/2016	3/7/2016	3/7/2016	3/8/2016	3/7/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2130254	2130254	2129473	2129473	2130254	2129473
		Start Depth	19	13.5	4	22	13	18
		End Depth	20	16	5.9	23	15	19
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	121 U	117 U	107 U	129 U	116 U	116 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	121 U	117 U	107 U	129 U	116 U	116 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	242 U	235 U	214 U	257 U	231 U	232 U
2,4,5-Trichlorophenol	95-95-4	NC	242 U	235 U	214 U	257 U	231 U	232 U
2,4,6-Trichlorophenol	88-06-2	NC	242 U	235 U	214 U	257 U	231 U	232 U
2,4-Dichlorophenol	120-83-2	NC	242 U	235 U	214 U	257 U	231 U	232 U
2,4-Dimethylphenol	105-67-9	NC	242 U	235 U	214 U	257 U	231 U	232 U
2,4-Dinitrophenol	51-28-5	NC	424 U	411 U	374 U	450 U	404 U	406 U
2,4-Dinitrotoluene	121-14-2	NC	121 U	117 U	107 U	129 U	116 U	116 U
2,6-Dinitrotoluene	606-20-2	NC	121 U	117 U	107 U	129 U	116 U	116 U
2-Chloronaphthalene	91-58-7	NC	121 U	117 U	107 U	129 U	116 U	116 U
2-Chlorophenol	95-57-8	NC	242 U	235 U	214 U	257 U	231 U	232 U
2-Methylnaphthalene	91-57-6	NC	121 U	117 U	107 U	129 U	116 U	116 U
2-Methylphenol	95-48-7	330	242 U	235 U	214 U	257 U	231 U	232 U
2-Nitroaniline	88-74-4	NC	242 U	235 U	214 U	257 U	231 U	232 U
2-Nitrophenol	88-75-5	NC	242 U	235 U	214 U	257 U	231 U	232 U
3,3-Dichlorobenzidine	91-94-1	NC	242 U	235 U	214 U	257 U	231 U	232 U
3-Nitroaniline	99-09-2	NC	242 U	235 U	214 U	257 U	231 U	232 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	242 U	235 U	214 U	257 U	231 U	232 U
4-Bromophenyl-phenylether	101-55-3	NC	121 U	117 U	107 U	129 U	116 U	116 U
4-Chloro-3-methylphenol	59-50-7	NC	242 U	235 U	214 U	257 U	231 U	232 U
4-Chloroaniline	106-47-8	NC	242 U	235 U	214 U	257 U	231 U	232 U
4-Chlorophenyl-phenylether	7005-72-3	NC	121 U	117 U	107 U	129 U	116 U	116 U
4-Nitroaniline	100-01-6	NC	242 U	235 U	214 U	257 U	231 U	232 U
4-Nitrophenol	100-02-7	NC	242 U	235 U	214 U	257 U	231 U	232 U
Acenaphthene	83-32-9	20,000	60.6 U	58.7 U	53.5 U	64.3 U	57.8 U	58 U
Acenaphthylene	208-96-8	100,000	60.6 U	58.7 U	53.5 U	64.3 U	57.8 U	58 U
Acetophenone	98-86-2	NC	142	117 U	107 U	129 U	116 U	116 U
Anthracene	120-12-7	100,000	60.6 U	58.7 U	53.5 U	64.3 U	57.8 U	58 U
Atrazine	1912-24-9	NC	121 U	117 U	107 U	129 U	116 U	116 U
Benzaldehyde	100-52-7	NC	242 U	235 U	214 U	257 U	231 U	232 U
Benzidine	92-87-5	NC	242 U	235 U	214 U	257 U	231 U	232 U
Benzo[a]anthracene	56-55-3	1,000	60.6 U	58.7 U	53.5 U	64.3 U	57.8 U	58 U
Benzo[a]pyrene	50-32-8	1,000	60.6 U	58.7 U	53.5 U	64.3 U	57.8 U	58 U
Benzo[b]fluoranthene	205-99-2	1,000	60.6 U	58.7 U	53.5 U	64.3 U	57.8 U	58 U
Benzo[g,h,i]perylene	191-24-2	100,000	60.6 U	58.7 U	53.5 U	64.3 U	57.8 U	58 U
Benzo[k]fluoranthene	207-08-9	800	60.6 U	58.7 U	53.5 U	64.3 U	57.8 U	58 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	121 U	117 U	107 U	129 U	116 U	116 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	121 U	117 U	107 U	129 U	116 U	116 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	121 UJ	117 UJ	107 U	129 U	116 UJ	116 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	303 U	293 U	267 U	322 U	289 U	290 U
Butylbenzylphthalate	85-68-7	NC	121 U	117 U	107 U	129 U	116 U	116 U
Caprolactam	105-60-2	NC	242 U	235 U	214 U	257 U	231 U	232 U
Carbazole	86-74-8	NC	121 U	117 U	107 U	129 U	116 U	116 U
Chrysene	218-01-9	1,000	60.6 U	58.7 U	53.5 U	64.3 U	57.8 U	58 U
Dibenzo[a,h]Anthracene	53-70-3	330	60.6 U	58.7 U	53.5 U	64.3 U	57.8 U	58 U
Dibenzofuran	132-64-9	7,000	121 U	117 U	107 U	129 U	116 U	116 U
Diethylphthalate	84-66-2	NC	121 U	117 U	107 U	129 U	116 U	116 U
Dimethylphthalate	131-11-3	NC	121 U	117 U	107 U	129 U	116 U	116 U
Di-n-butylphthalate	84-74-2	NC	121 U	117 U	107 U	129 U	116 U	116 U
Di-n-octylphthalate	117-84-0	NC	121 UJ	117 UJ	107 U	129 U	116 UJ	116 U
Fluoranthene	206-44-0	100,000	60.6 U	58.7 U	53.5 U	64.3 U	57.8 U	58 U
Fluorene	86-73-7	30,000	60.6 U	58.7 U	53.5 U	64.3 U	57.8 U	58 U
Hexachlorobenzene	118-74-1	330	121 U	117 U	107 U	129 U	116 U	116 U
Hexachlorobutadiene	87-68-3	NC	121 U	117 U	107 U	129 U	116 U	116 U
Hexachlorocyclopentadiene	77-47-4	NC	242 UJ	235 UJ	214 UJ	257 UJ	231 UJ	232 UJ
Hexachloroethane	67-72-1	NC	121 U	117 U	107 U	129 U	116 U	116 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	60.6 U	58.7 U	53.5 U	64.3 U	57.8 U	58 U
Isophorone	78-59-1	NC	121 U	117 U	107 U	129 U	116 U	116 U
m-Cresol & p-Cresol	MEPH1314	330**	242 U	235 U	214 U	257 U	231 U	232 U
Naphthalene	91-20-3	12,000	60.6 U	58.7 U	24.2 J	64.3 U	57.8 U	58 U
Nitrobenzene	98-95-3	NC	121 U	117 U	107 U	129 U	116 U	116 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	121 U	117 U	107 U	129 U	116 U	116 U
N-Nitrosodiphenylamine	86-30-6	NC	121 U	117 U	107 U	129 U	116 U	116 U
Pentachlorophenol	87-86-5	800	242 U	235 U	214 U	257 U	231 U	232 U
Phenanthrene	85-01-8	100,000	60.6 U	58.7 U	53.5 U	64.3 U	57.8 U	23.5 J
Phenol	108-95-2	330	242 U	235 U	214 U	75.4 J	231 U	232 U
Pyrene	129-00-0	100,000	60.6 U	58.7 U	53.5 U	64.3 U	57.8 U	58 U
Pyridine	110-86-1	NC	242 U	235 U	214 U	257 U	231 U	232 U
Total SVOC TICs	NA	NC	10,841	NT	289	1,568	NT	18103

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-168	SB-169	SB-170	SB-172	SB-173	SB-174
		Sample ID	SB-168-16-17-030816	SB-169-16-17-030716	SB-170-16-16.8-022916	SB-172-8.8-9.6-082217	SB-173-12-15-082117	SB-174-12.5-15-082117
		Sample Date	3/8/2016	3/7/2016	2/29/2016	8/22/2017	8/21/2017	8/21/2017
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2130254	2129473	2127346	2258101	2258101	2258101
		Start Depth	16	16	16	8.8	12	12.5
		End Depth	17	17	16.8	9.6	15	15
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	121 U	115 U	127 U	112 U	113 U	127 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	121 U	115 U	127 U	112 U	113 U	127 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	241 U	230 U	254 U	224 U	227 U	255 U
2,4,5-Trichlorophenol	95-95-4	NC	241 U	230 U	254 U	224 U	227 U	255 U
2,4,6-Trichlorophenol	88-06-2	NC	241 U	230 U	254 U	224 U	227 U	255 U
2,4-Dichlorophenol	120-83-2	NC	241 U	230 U	254 U	224 U	227 UJ	255 U
2,4-Dimethylphenol	105-67-9	NC	241 U	230 U	254 U	224 U	227 U	255 U
2,4-Dinitrophenol	51-28-5	NC	422 U	403 U	444 UJ	224 U	227 U	255 U
2,4-Dinitrotoluene	121-14-2	NC	121 U	115 U	127 U	112 U	113 U	127 U
2,6-Dinitrotoluene	606-20-2	NC	121 U	115 U	127 U	112 U	113 U	127 U
2-Chloronaphthalene	91-58-7	NC	121 U	115 U	127 U	112 U	113 U	127 U
2-Chlorophenol	95-57-8	NC	241 U	230 U	254 U	224 U	227 U	255 U
2-Methylnaphthalene	91-57-6	NC	121 U	1,200	127 U	112 U	113 U	127 U
2-Methylphenol	95-48-7	330	241 U	230 U	254 U	224 U	227 U	255 U
2-Nitroaniline	88-74-4	NC	241 U	230 U	254 U	224 U	227 U	255 U
2-Nitrophenol	88-75-5	NC	241 U	230 U	254 U	224 U	227 U	255 U
3,3-Dichlorobenzidine	91-94-1	NC	241 U	230 U	254 U	224 U	227 U	255 U
3-Nitroaniline	99-09-2	NC	241 U	230 U	254 U	224 U	227 U	255 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	241 U	230 U	254 U	224 U	227 UJ	255 U
4-Bromophenyl-phenylether	101-55-3	NC	121 U	115 U	127 U	112 U	113 U	127 U
4-Chloro-3-methylphenol	59-50-7	NC	241 U	230 U	254 U	224 U	227 U	255 U
4-Chloroaniline	106-47-8	NC	241 U	230 U	254 U	224 U	227 U	255 U
4-Chlorophenyl-phenylether	7005-72-3	NC	121 U	115 U	127 U	112 U	113 U	127 U
4-Nitroaniline	100-01-6	NC	241 U	230 U	254 U	224 U	227 U	255 U
4-Nitrophenol	100-02-7	NC	241 U	230 U	254 U	224 U	227 U	255 U
Acenaphthene	83-32-9	20,000	60.3 U	57.6 U	63.4 U	56 U	56.7 U	63.7 U
Acenaphthylene	208-96-8	100,000	60.3 U	57.6 U	63.4 U	56 U	56.7 U	63.7 U
Acetophenone	98-86-2	NC	121 U	115 U	127 U	112 U	113 U	127 U
Anthracene	120-12-7	100,000	60.3 U	37.6 J	63.4 U	56 U	56.7 U	63.7 U
Atrazine	1912-24-9	NC	121 U	115 U	127 U	112 U	113 U	127 U
Benzaldehyde	100-52-7	NC	241 U	230 U	254 UJ	224 U	227 U	255 U
Benzidine	92-87-5	NC	241 U	230 U	254 U	224 U	227 U	255 U
Benzo[a]anthracene	56-55-3	1,000	60.3 U	57.6 U	63.4 U	56 U	56.7 U	63.7 U
Benzo[a]pyrene	50-32-8	1,000	60.3 U	57.6 U	63.4 U	56 U	56.7 U	63.7 U
Benzo[b]fluoranthene	205-99-2	1,000	60.3 U	57.6 U	63.4 U	56 U	56.7 U	63.7 U
Benzo[g,h,i]perylene	191-24-2	100,000	60.3 U	57.6 U	63.4 U	56 U	56.7 U	63.7 U
Benzo[k]fluoranthene	207-08-9	800	60.3 U	57.6 U	63.4 U	56 U	56.7 U	63.7 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	121 U	115 U	127 U	112 U	113 U	127 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	121 U	115 U	127 U	112 U	113 U	127 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	121 UJ	115 U	127 U	112 U	113 U	127 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	302 U	288 U	317 U	112 U	113 U	127 U
Butylbenzylphthalate	85-68-7	NC	121 U	115 U	127 U	112 U	113 U	127 U
Caprolactam	105-60-2	NC	241 U	230 U	254 U	224 U	227 U	255 U
Carbazole	86-74-8	NC	121 U	115 U	127 U	112 U	113 U	127 U
Chrysene	218-01-9	1,000	60.3 U	36.3 J	63.4 U	56 U	56.7 U	63.7 U
Dibenzo[a,h]Anthracene	53-70-3	330	60.3 U	57.6 U	63.4 U	56 U	56.7 U	63.7 U
Dibenzofuran	132-64-9	7,000	121 U	115 U	127 U	112 U	113 U	127 U
Diethylphthalate	84-66-2	NC	121 U	115 U	127 U	112 U	113 U	127 U
Dimethylphthalate	131-11-3	NC	121 U	115 U	127 U	112 U	113 U	127 U
Di-n-butylphthalate	84-74-2	NC	121 U	115 U	127 U	112 U	113 U	127 U
Di-n-octylphthalate	117-84-0	NC	121 UJ	115 U	127 U	112 U	113 U	127 U
Fluoranthene	206-44-0	100,000	60.3 U	57.6 U	63.4 U	56 U	56.7 U	63.7 U
Fluorene	86-73-7	30,000	60.3 U	90.8	63.4 U	56 U	56.7 U	63.7 U
Hexachlorobenzene	118-74-1	330	121 U	115 U	127 U	112 U	113 U	127 U
Hexachlorobutadiene	87-68-3	NC	121 U	115 U	127 U	112 U	113 U	127 U
Hexachlorocyclopentadiene	77-47-4	NC	241 UJ	230 UJ	254 UJ	224 U	227 UJ	255 U
Hexachloroethane	67-72-1	NC	121 U	115 U	127 U	112 U	113 U	127 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	60.3 U	57.6 U	63.4 U	56 U	56.7 U	63.7 U
Isophorone	78-59-1	NC	121 U	115 U	127 U	112 U	113 U	127 U
m-Cresol & p-Cresol	MEPH1314	330**	241 U	230 U	254 U	224 U	227 U	255 U
Naphthalene	91-20-3	12,000	60.3 U	390	63.4 U	56 U	56.7 U	63.7 U
Nitrobenzene	98-95-3	NC	121 U	115 U	127 U	112 U	113 U	127 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	121 U	115 U	127 U	112 U	113 U	127 U
N-Nitrosodiphenylamine	86-30-6	NC	121 U	115 U	127 U	112 U	113 U	127 U
Pentachlorophenol	87-86-5	800	241 U	230 U	254 U	224 U	227 U	255 U
Phenanthrene	85-01-8	100,000	60.3 U	203	63.4 U	56 U	56.7 U	63.7 U
Phenol	108-95-2	330	241 U	230 U	254 U	224 U	227 U	255 U
Pyrene	129-00-0	100,000	60.3 U	53.9 J	63.4 U	56 U	56.7 U	63.7 U
Pyridine	110-86-1	NC	241 U	230 U	NA	224 U	227 U	255 U
Total SVOC TICs	NA	NC	NT	148,090	NT	NT	NT	NT

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SB-175	SB-176	SB-177	SB-178	SB-TP-131	SB-TP-139[BB]
	Sample ID	SB-175-21-21.4-030716	SB-176-6-7-041216	SB-177-5.5-6.5-031416	SB-178-1.5-2-031416	SB-TP-131-5-7-031516	DUP-001-030716
	Sample Date	3/7/2016	4/12/2016	3/14/2016	3/14/2016	3/15/2016	3/7/2016
	Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	Lab SDG	2129473	2136537	2130903	2130903	2130900	2129473
	Start Depth	21	6	5.5	1.5	5	12
	End Depth	21.4	7	6.5	2	7	14
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
SVOCs							
1,1'-Biphenyl	92-52-4	NC	110 U	125 U	122 U	118 U	63.1 J	121 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	110 U	125 U	122 U	118 U	130 U	121 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	220 U	250 U	244 U	235 U	261 R	242 U
2,4,5-Trichlorophenol	95-95-4	NC	220 U	250 U	244 U	235 U	261 R	242 U
2,4,6-Trichlorophenol	88-06-2	NC	220 U	250 U	244 U	235 U	261 R	242 U
2,4-Dichlorophenol	120-83-2	NC	220 U	250 U	244 U	235 U	261 U	242 U
2,4-Dimethylphenol	105-67-9	NC	220 U	250 U	244 U	235 U	261 R	242 U
2,4-Dinitrophenol	51-28-5	NC	385 U	437 U	426 U	412 U	456 R	424 U
2,4-Dinitrotoluene	121-14-2	NC	110 U	125 U	122 U	118 U	130 U	121 U
2,6-Dinitrotoluene	606-20-2	NC	110 U	125 U	122 U	118 U	130 U	121 U
2-Chloronaphthalene	91-58-7	NC	110 U	125 U	122 U	118 U	130 U	121 U
2-Chlorophenol	95-57-8	NC	220 U	250 U	244 U	235 U	261 R	242 U
2-Methylnaphthalene	91-57-6	NC	110 U	125 U	122 U	118 U	45.8 J	121 U
2-Methylphenol	95-48-7	330	220 U	250 U	244 U	235 U	261 R	242 U
2-Nitroaniline	88-74-4	NC	220 U	250 U	244 U	235 U	261 U	242 U
2-Nitrophenol	88-75-5	NC	220 U	250 U	244 U	235 U	261 R	242 U
3,3-Dichlorobenzidine	91-94-1	NC	220 U	250 U	244 U	235 U	261 U	242 U
3-Nitroaniline	99-09-2	NC	220 U	250 U	244 U	235 U	261 U	242 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	220 U	250 U	244 U	235 U	261 R	242 U
4-Bromophenyl-phenylether	101-55-3	NC	110 U	125 U	122 U	118 U	130 U	121 U
4-Chloro-3-methylphenol	59-50-7	NC	220 U	250 U	244 UJ	235 UJ	261 R	242 U
4-Chloroaniline	106-47-8	NC	220 U	250 U	244 U	235 U	261 U	242 U
4-Chlorophenyl-phenylether	7005-72-3	NC	110 U	125 U	122 U	118 U	130 U	121 U
4-Nitroaniline	100-01-6	NC	220 U	250 U	244 U	235 U	261 U	242 U
4-Nitrophenol	100-02-7	NC	220 U	250 U	244 UJ	235 UJ	261 R	242 U
Acenaphthene	83-32-9	20,000	55 U	104	60.9 U	58.9 U	65.2 U	60.5 U
Acenaphthylene	208-96-8	100,000	55 U	62.5 U	60.9 U	58.9 U	118	60.5 U
Acetophenone	98-86-2	NC	110 U	125 U	122 U	118 U	130 U	121 U
Anthracene	120-12-7	100,000	55 U	62.5 U	60.9 U	58.9 U	65.2 U	60.5 U
Atrazine	1912-24-9	NC	110 U	125 UJ	122 U	118 U	130 U	121 U
Benzaldehyde	100-52-7	NC	220 U	250 UJ	244 UJ	235 UJ	261 UJ	242 U
Benzidine	92-87-5	NC	220 U	250 U	244 U	235 U	261 U	242 U
Benzo[a]anthracene	56-55-3	1,000	55 U	63.6	60.9 U	58.9 U	65.2 U	60.5 U
Benzo[a]pyrene	50-32-8	1,000	55 U	59.9 J	60.9 U	58.9 U	65.2 U	60.5 U
Benzo[b]fluoranthene	205-99-2	1,000	55 U	82	60.9 U	58.9 U	65.2 U	60.5 U
Benzo[g,h,i]perylene	191-24-2	100,000	55 U	42.9 J	60.9 U	58.9 U	65.2 U	60.5 U
Benzo[k]fluoranthene	207-08-9	800	55 U	62.5 U	60.9 U	58.9 U	65.2 U	60.5 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	110 U	125 U	122 U	118 U	130 U	121 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	110 U	125 U	122 U	118 U	130 UJ	121 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	110 U	125 U	122 UJ	118 UJ	130 U	121 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	275 U	312 U	305 U	294 U	326 U	303 U
Butylbenzylphthalate	85-68-7	NC	110 U	125 U	122 U	118 U	130 U	121 U
Caprolactam	105-60-2	NC	220 U	250 U	244 U	235 U	261 U	242 U
Carbazole	86-74-8	NC	110 U	125 U	122 U	118 U	130 U	121 U
Chrysene	218-01-9	1,000	55 U	62.5	60.9 U	58.9 U	65.2 U	60.5 U
Dibenzo[a,h]Anthracene	53-70-3	330	55 U	62.5 U	60.9 U	58.9 U	65.2 U	60.5 U
Dibenzofuran	132-64-9	7,000	110 U	125 U	122 U	118 U	130 U	121 U
Diethylphthalate	84-66-2	NC	110 U	125 U	122 U	27.5 J	52.8 J	121 U
Dimethylphthalate	131-11-3	NC	110 U	125 U	122 U	118 U	130 U	121 U
Di-n-butylphthalate	84-74-2	NC	110 U	125 U	122 U	118 U	130 U	121 U
Di-n-octylphthalate	117-84-0	NC	110 U	125 U	122 U	118 U	130 U	121 U
Fluoranthene	206-44-0	100,000	55 U	152	60.9 U	58.9 U	65.2 U	60.5 U
Fluorene	86-73-7	30,000	55 U	165	60.9 U	58.9 U	65.1 J	60.5 U
Hexachlorobenzene	118-74-1	330	110 U	125 U	122 U	118 U	130 U	121 U
Hexachlorobutadiene	87-68-3	NC	110 U	125 U	122 U	118 U	130 U	121 U
Hexachlorocyclopentadiene	77-47-4	NC	220 UJ	250 U	244 UJ	235 UJ	261 UJ	242 UJ
Hexachloroethane	67-72-1	NC	110 U	125 U	122 U	118 U	130 U	121 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	55 U	43.5 J	60.9 U	58.9 U	65.2 U	60.5 U
Isophorone	78-59-1	NC	110 U	125 U	122 U	118 U	130 U	121 U
m-Cresol & p-Cresol	MEPH1314	330**	220 U	250 U	244 U	235 U	43.2 J	242 U
Naphthalene	91-20-3	12,000	55 U	62.5 U	60.9 U	58.9 U	65.2 U	60.5 U
Nitrobenzene	98-95-3	NC	110 U	125 U	122 U	118 U	130 U	121 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	110 U	125 U	122 U	118 U	130 U	121 U
N-Nitrosodiphenylamine	86-30-6	NC	110 U	125 U	122 U	118 U	130 U	121 U
Pentachlorophenol	87-86-5	800	220 U	250 U	244 U	235 U	261 R	242 U
Phenanthrene	85-01-8	100,000	55 U	326	60.9 U	58.9 U	65.2 U	60.5 U
Phenol	108-95-2	330	220 U	250 U	244 U	235 U	261 R	242 U
Pyrene	129-00-0	100,000	55 U	117	60.9 U	58.9 U	65.2 U	60.5 U
Pyridine	110-86-1	NC	220 U	250 U	244 U	235 U	261 U	242 U
Total SVOC TICs	NA	NC	NT	53,440	542	586	11,126	NT

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-TP-139[BB]	SB-TP-144	SB-TP-147	TP-101	TP-102	TP-103
		Sample ID	SB-TP-139-12-14-030716	SB-TP-144-4-6-030916	SB-TP-147-16-18-031016	TP-101-2-4-012116	TP-102-1-3-012216	DUP-008-012116
		Sample Date	3/7/2016	3/9/2016	3/10/2016	1/21/2016	1/22/2016	1/21/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2129473	2130254	2130254	2120575	2120575	2120575
		Start Depth	12	4	16	2	1	0
		End Depth	14	6	18	4	3	2
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	113 U	107 U	102 U	106 U	71.8 J	43.5 J
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	113 U	107 U	102 U	106 U	143 U	123 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	226 U	214 U	205 U	212 U	285 U	246 U
2,4,5-Trichlorophenol	95-95-4	NC	226 U	214 U	205 U	212 U	285 U	246 U
2,4,6-Trichlorophenol	88-06-2	NC	226 U	214 U	205 U	212 U	285 U	246 U
2,4-Dichlorophenol	120-83-2	NC	226 U	214 U	205 U	212 U	285 U	246 U
2,4-Dimethylphenol	105-67-9	NC	226 U	214 U	205 U	212 U	285 U	246 U
2,4-Dinitrophenol	51-28-5	NC	396 U	374 U	358 U	371 U	499 U	431 U
2,4-Dinitrotoluene	121-14-2	NC	113 U	107 U	102 U	106 U	143 U	123 U
2,6-Dinitrotoluene	606-20-2	NC	113 U	107 U	102 U	106 U	143 U	123 U
2-Chloronaphthalene	91-58-7	NC	113 U	107 U	102 U	106 U	143 U	123 U
2-Chlorophenol	95-57-8	NC	226 U	214 U	205 U	212 U	285 U	246 U
2-Methylnaphthalene	91-57-6	NC	113 U	107 U	102 U	13.2 J	266	239 J
2-Methylphenol	95-48-7	330	226 U	214 U	205 U	212 U	285 U	246 U
2-Nitroaniline	88-74-4	NC	226 U	214 U	205 U	212 U	285 U	246 U
2-Nitrophenol	88-75-5	NC	226 U	214 U	205 U	212 U	285 U	246 U
3,3-Dichlorobenzidine	91-94-1	NC	226 U	214 U	205 U	212 U	285 U	246 U
3-Nitroaniline	99-09-2	NC	226 U	214 U	205 U	212 U	285 U	246 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	226 U	214 U	205 U	212 U	285 U	246 U
4-Bromophenyl-phenylether	101-55-3	NC	113 U	107 U	102 U	106 U	143 U	123 U
4-Chloro-3-methylphenol	59-50-7	NC	226 U	214 U	205 U	212 U	285 U	246 U
4-Chloroaniline	106-47-8	NC	226 U	214 U	205 U	212 U	285 U	246 U
4-Chlorophenyl-phenylether	7005-72-3	NC	113 U	107 U	102 U	106 U	143 U	123 U
4-Nitroaniline	100-01-6	NC	226 U	214 U	205 U	212 U	285 U	246 U
4-Nitrophenol	100-02-7	NC	226 U	214 U	205 U	212 U	285 U	246 U
Acenaphthene	83-32-9	20,000	56.6 U	53.4 U	51.2 U	53 U	71.3 U	122 J
Acenaphthylene	208-96-8	100,000	56.6 U	53.4 U	51.2 U	53 U	71.3 U	245 J
Acetophenone	98-86-2	NC	113 U	107 J	102 U	106 U	63.8 J	59.6 J
Anthracene	120-12-7	100,000	56.6 U	53.4 U	51.2 U	53 U	106	497 J
Atrazine	1912-24-9	NC	113 U	107 U	102 U	106 U	143 U	123 U
Benzaldehyde	100-52-7	NC	226 U	214 U	205 U	212 U	285 U	52.3 J
Benzidine	92-87-5	NC	226 U	214 U	205 U	212 U	285 U	246 U
Benzo[a]anthracene	56-55-3	1,000	56.6 U	44 J	51.2 U	93.6	490	940 J
Benzo[a]pyrene	50-32-8	1,000	56.6 U	36.4 J	51.2 U	114	333	801 J
Benzo[b]fluoranthene	205-99-2	1,000	56.6 U	50.8 J	51.2 U	158	377	998 J
Benzo[g,h,i]perylene	191-24-2	100,000	56.6 U	22.7 J	51.2 U	102	483	413 J
Benzo[k]fluoranthene	207-08-9	800	56.6 U	53.4 U	51.2 U	57.3	71.3 U	382 J
Bis(2-Chloroethoxy)methane	111-91-1	NC	113 U	107 U	102 U	106 U	143 U	123 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	113 U	107 U	102 U	106 U	143 U	123 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	113 U	107 UJ	102 UJ	106 U	143 U	123 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	283 U	267 U	256 U	265 U	356 U	308 U
Butylbenzylphthalate	85-68-7	NC	113 U	107 U	102 U	106 U	143 U	123 U
Caprolactam	105-60-2	NC	226 U	214 U	205 U	212 U	285 U	246 U
Carbazole	86-74-8	NC	113 U	107 U	102 U	106 U	143 U	167
Chrysene	218-01-9	1,000	56.6 U	37.7 J	51.2 U	100	998	927 J
Dibenzo[a,h]Anthracene	53-70-3	330	56.6 U	53.4 U	51.2 U	28.4 J	366	115 J
Dibenzofuran	132-64-9	7,000	113 U	107 U	102 U	106 U	66.2 J	204
Diethylphthalate	84-66-2	NC	113 U	107 U	102 U	106 U	143 U	123 U
Dimethylphthalate	131-11-3	NC	113 U	107 U	102 U	106 U	143 U	123 U
Di-n-butylphthalate	84-74-2	NC	113 U	107 U	102 U	106 U	143 U	123 U
Di-n-octylphthalate	117-84-0	NC	113 U	107 UJ	102 UJ	106 U	143 U	123 U
Fluoranthene	206-44-0	100,000	56.6 U	85.2	51.2 U	145	141	2120 J
Fluorene	86-73-7	30,000	56.6 U	53.4 U	51.2 U	53 U	71.3 U	212 J
Hexachlorobenzene	118-74-1	330	113 U	107 U	102 U	106 U	143 U	123 U
Hexachlorobutadiene	87-68-3	NC	113 U	107 U	102 U	106 U	143 U	123 U
Hexachlorocyclopentadiene	77-47-4	NC	226 UJ	214 UJ	205 UJ	212 U	285 U	246 U
Hexachloroethane	67-72-1	NC	113 U	107 U	102 U	106 U	143 U	123 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	56.6 U	25.8 J	51.2 U	95.3	141	451 J
Isophorone	78-59-1	NC	113 U	107 U	102 U	106 U	143 U	123 U
m-Cresol & p-Cresol	MEPH1314	330**	226 U	214 U	205 U	212 U	285 U	43.4 J
Naphthalene	91-20-3	12,000	56.6 U	53.4 U	51.2 U	53 U	121	258 J
Nitrobenzene	98-95-3	NC	113 U	107 U	102 U	106 U	143 U	123 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	113 U	107 U	102 U	106 U	143 U	123 U
N-Nitrosodiphenylamine	86-30-6	NC	113 U	107 U	102 U	106 U	143 U	123 U
Pentachlorophenol	87-86-5	800	226 U	214 U	205 U	212 U	285 U	246 U
Phenanthrene	85-01-8	100,000	56.6 U	53.4 U	51.2 U	68.6	698	1,860 J
Phenol	108-95-2	330	226 U	214 U	205 U	212 U	285 U	246 U
Pyrene	129-00-0	100,000	56.6 U	63.6	51.2 U	138	135	1,610 J
Pyridine	110-86-1	NC	226 U	214 U	205 U	212 U	285 U	246 U
Total SVOC TICs	NA	NC	10,519	NT	NT	292	128,470	4,539

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	TP-103	TP-104	TP-105	TP-106	TP-107	TP-108
		Sample ID	TP-103-0-2-012116	TP-104-0-2-012216	TP-105-4.5-6.5-012216	TP-106-1.5-4-012216	TP-107-0-2-012216	TP-108-0-1.5-012516
		Sample Date	1/21/2016	1/22/2016	1/22/2016	1/22/2016	1/22/2016	1/25/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2120575	2120575	2120575	2120575	2120575	2121863
		Start Depth	0	0	4.5	1.5	0	0
		End Depth	2	2	6.5	4	2	1.5
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	109 U	120 U	157	125 J	128 U	125
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	109 U	120 U	130 U	140 U	128 U	119 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	217 U	241 U	259 U	280 U	256 U	239 U
2,4,5-Trichlorophenol	95-95-4	NC	217 U	241 U	259 U	280 U	256 U	239 U
2,4,6-Trichlorophenol	88-06-2	NC	217 U	241 U	259 U	280 U	256 U	239 U
2,4-Dichlorophenol	120-83-2	NC	217 U	241 U	259 U	280 U	256 U	239 U
2,4-Dimethylphenol	105-67-9	NC	217 U	241 U	259 U	280 U	256 U	239 U
2,4-Dinitrophenol	51-28-5	NC	381 U	421 U	454 U	490 U	448 U	418 U
2,4-Dinitrotoluene	121-14-2	NC	109 U	120 U	130 U	140 U	128 U	119 U
2,6-Dinitrotoluene	606-20-2	NC	109 U	120 U	130 U	140 U	128 U	119 U
2-Chloronaphthalene	91-58-7	NC	109 U	120 U	130 U	140 U	128 U	119 U
2-Chlorophenol	95-57-8	NC	217 U	241 U	259 U	280 U	256 U	239 U
2-Methylnaphthalene	91-57-6	NC	109 J	27.4 J	1,250	221	147	788
2-Methylphenol	95-48-7	330	217 U	241 U	259 U	280 U	256 U	239 U
2-Nitroaniline	88-74-4	NC	217 U	241 U	259 U	280 U	256 U	239 U
2-Nitrophenol	88-75-5	NC	217 U	241 U	259 U	280 U	256 U	239 U
3,3-Dichlorobenzidine	91-94-1	NC	217 U	241 U	259 U	280 U	256 U	239 U
3-Nitroaniline	99-09-2	NC	217 U	241 U	259 U	280 U	256 U	239 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	217 U	241 U	259 U	280 U	256 U	239 U
4-Bromophenyl-phenylether	101-55-3	NC	109 U	120 U	130 U	140 U	128 U	119 U
4-Chloro-3-methylphenol	59-50-7	NC	217 U	241 U	259 U	280 U	256 U	239 U
4-Chloroaniline	106-47-8	NC	217 U	241 U	259 U	280 U	256 U	239 U
4-Chlorophenyl-phenylether	7005-72-3	NC	109 U	120 U	130 U	140 U	128 U	119 U
4-Nitroaniline	100-01-6	NC	217 U	241 U	259 U	280 U	256 U	239 U
4-Nitrophenol	100-02-7	NC	217 U	241 U	259 U	280 U	256 U	239 U
Acenaphthene	83-32-9	20,000	54.4 UJ	124	64.9 U	70 U	47.5 J	2,070
Acenaphthylene	208-96-8	100,000	54.4 UJ	76.5	384	70 U	59.2 J	59.7 U
Acetophenone	98-86-2	NC	109 U	120 U	164	68.8 J	128 U	295
Anthracene	120-12-7	100,000	54.4 UJ	429	510	74.4	151	2,970
Atrazine	1912-24-9	NC	109 U	120 U	130 U	140 U	128 U	119 U
Benzaldehyde	100-52-7	NC	217 U	241 U	185 J	280 U	256 U	239 U
Benzidine	92-87-5	NC	217 U	241 U	259 U	280 U	256 U	239 U
Benzo[a]anthracene	56-55-3	1,000	70.9 J	1,340	1,880	478	420	17,100
Benzo[a]pyrene	50-32-8	1,000	83.8 J	1,300	1,830	213	417	21,500
Benzo[b]fluoranthene	205-99-2	1,000	108 J	1,620	2,260	420	634	26,200
Benzo[g,h,i]perylene	191-24-2	100,000	74.1 J	773	1,250	537	430	13,000
Benzo[k]fluoranthene	207-08-9	800	44.4 J	641	832	70 U	219	8,660
Bis(2-Chloroethoxy)methane	111-91-1	NC	109 U	120 U	130 U	140 U	128 U	119 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	109 U	120 U	130 U	140 U	128 U	119 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	109 U	120 U	130 U	140 U	128 U	119 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	272 U	301 U	324 U	350 U	320 U	298 U
Butylbenzylphthalate	85-68-7	NC	109 U	120 U	130 U	140 U	479	119 U
Caprolactam	105-60-2	NC	217 U	241 U	259 U	280 U	256 U	239 U
Carbazole	86-74-8	NC	109 U	133	127 J	140 U	69.3 J	2,340
Chrysene	218-01-9	1,000	70.3 J	1,400	2,150	1,280	765	19,300
Dibenzo[a,h]Anthracene	53-70-3	330	54.4 UJ	200	329	513	159	3,170
Dibenzofuran	132-64-9	7,000	109 U	65.1 J	530	82.9 J	78.1 J	721
Diethylphthalate	84-66-2	NC	109 U	120 U	130 U	140 U	128 U	119 U
Dimethylphthalate	131-11-3	NC	109 U	120 U	130 U	140 U	128 U	119 U
Di-n-butylphthalate	84-74-2	NC	109 U	120 U	130 U	140 U	128 U	119 U
Di-n-octylphthalate	117-84-0	NC	109 U	120 U	130 U	140 U	128 U	119 U
Fluoranthene	206-44-0	100,000	121 UJ	3,240	3,620	70 U	776	30,000
Fluorene	86-73-7	30,000	54.4 J	133	138	70 U	61.9 J	944
Hexachlorobenzene	118-74-1	330	109 U	120 U	130 U	140 U	128 U	119 U
Hexachlorobutadiene	87-68-3	NC	109 U	120 U	130 U	140 U	128 U	119 U
Hexachlorocyclopentadiene	77-47-4	NC	217 U	241 U	259 U	280 U	256 U	239 U
Hexachloroethane	67-72-1	NC	109 U	120 U	130 U	140 U	128 U	119 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	70.9 UJ	843	1,230	179	350	14,700
Isophorone	78-59-1	NC	109 U	120 U	130 U	140 U	128 U	119 U
m-Cresol & p-Cresol	MEPH1314	330**	217 U	241 U	64 J	280 U	256 U	44.8 J
Naphthalene	91-20-3	12,000	54.4 J	48.2 J	939	89.4	131	1,520
Nitrobenzene	98-95-3	NC	109 U	120 U	130 U	140 U	128 U	119 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	109 U	120 U	130 U	140 U	128 U	119 U
N-Nitrosodiphenylamine	86-30-6	NC	109 U	120 U	130 U	140 U	128 U	119 U
Pentachlorophenol	87-86-5	800	217 U	241 U	259 U	280 U	256 U	239 U
Phenanthrene	85-01-8	100,000	52.3 J	1,710	2,650	626	594	13,100
Phenol	108-95-2	330	217 U	241 U	259 U	280 U	256 U	239 U
Pyrene	129-00-0	100,000	108 UJ	2,480	3,080	98.7	628	25,500
Pyridine	110-86-1	NC	217 U	241 U	259 U	280 U	256 U	239 U
Total SVOC TICs	NA	NC	NT	4827	21,426	126,110	NT	64,851

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	TP-109[BB]	TP-110	TP-111	TP-112	TP-113	TP-114
	Sample ID	TP-109-4-4.5-012516	TP-110-1.5-2-012516	SB-TP-111-0-0.6-082117	TP-112-3.5-4-012516	TP-113-1.5-2-012516	TP-114-4-5-012616
	Sample Date	1/25/2016	1/25/2016	8/21/2017	1/25/2016	1/25/2016	1/26/2016
	Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	Lab SDG	2121863	2121863	2258101	2121863	2121863	2121863
	Start Depth	4	1.5	0	3.5	1.5	4
	End Depth	4.5	2	0.6	4	2	5
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
SVOCs							
1,1'-Biphenyl	92-52-4	NC	33.2 J	141 U	111 U	119 U	104 U	147 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	142 U	141 U	111 U	119 U	104 U	147 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	284 U	282 U	223 U	239 U	208 U	294 U
2,4,5-Trichlorophenol	95-95-4	NC	284 U	282 U	223 U	239 U	208 U	294 U
2,4,6-Trichlorophenol	88-06-2	NC	284 U	282 U	223 U	239 U	208 U	294 U
2,4-Dichlorophenol	120-83-2	NC	284 U	282 U	223 U	239 U	208 U	294 U
2,4-Dimethylphenol	105-67-9	NC	284 U	282 U	223 U	239 U	208 U	294 U
2,4-Dinitrophenol	51-28-5	NC	497 UJ	493 U	223 U	418 U	363 U	515 U
2,4-Dinitrotoluene	121-14-2	NC	142 U	141 U	111 U	119 U	104 U	147 U
2,6-Dinitrotoluene	606-20-2	NC	142 U	141 U	111 U	119 U	104 U	147 U
2-Chloronaphthalene	91-58-7	NC	142 U	141 U	111 U	119 U	104 U	147 U
2-Chlorophenol	95-57-8	NC	284 U	282 U	223 U	239 U	208 U	294 U
2-Methylnaphthalene	91-57-6	NC	104 J	141 U	111 U	21.6 J	104 U	147 U
2-Methylphenol	95-48-7	330	284 U	282 U	223 U	239 U	208 U	294 U
2-Nitroaniline	88-74-4	NC	284 U	282 U	223 U	239 U	208 U	294 U
2-Nitrophenol	88-75-5	NC	284 U	282 U	223 U	239 U	208 U	294 U
3,3-Dichlorobenzidine	91-94-1	NC	284 U	282 U	223 U	239 U	208 U	294 U
3-Nitroaniline	99-09-2	NC	284 U	282 U	223 U	239 U	208 U	294 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	284 UJ	282 U	223 U	239 U	208 U	294 U
4-Bromophenyl-phenylether	101-55-3	NC	142 U	141 U	111 U	119 U	104 U	147 U
4-Chloro-3-methylphenol	59-50-7	NC	284 U	282 U	223 U	239 U	208 U	294 U
4-Chloroaniline	106-47-8	NC	284 U	282 U	223 U	239 U	208 U	294 U
4-Chlorophenyl-phenylether	7005-72-3	NC	142 U	141 U	111 U	119 U	104 U	147 U
4-Nitroaniline	100-01-6	NC	284 U	282 U	223 U	239 U	208 U	294 U
4-Nitrophenol	100-02-7	NC	284 U	282 U	223 U	239 U	208 U	294 U
Acenaphthene	83-32-9	20,000	234	59.9 J	55.7 U	59.7 U	51.9 U	73.6 U
Acenaphthylene	208-96-8	100,000	396	164	325	59.7 U	51.9 U	73.6 U
Acetophenone	98-86-2	NC	42.1 J	141 U	111 U	119 U	104 U	147 U
Anthracene	120-12-7	100,000	1,080 J	526	106	59.7 U	51.9 U	73.6 U
Atrazine	1912-24-9	NC	142 U	141 U	111 U	119 U	104 U	147 U
Benzaldehyde	100-52-7	NC	284 U	32.8 J	223 U	239 U	208 U	294 U
Benzidine	92-87-5	NC	284 U	282 U	223 U	239 U	208 U	294 U
Benzo[a]anthracene	56-55-3	1,000	4230 J	4,960	238	36.4 J	51.9 U	73.6 U
Benzo[a]pyrene	50-32-8	1,000	3980 J	9,750	603	59.7 U	51.9 U	73.6 U
Benzo[b]fluoranthene	205-99-2	1,000	5200 J	10,600	618	59.7 U	51.9 U	73.6 U
Benzo[g,h,i]perylene	191-24-2	100,000	2610 J	9,330	518	59.7 U	51.9 U	73.6 U
Benzo[k]fluoranthene	207-08-9	800	2020 J	3,930	220	59.7 U	51.9 U	73.6 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	142 U	141 U	111 U	119 U	104 U	147 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	142 U	141 U	111 U	119 U	104 U	147 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	142 U	141 U	111 U	119 U	104 U	147 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	355 U	352 U	42.2 J	299 U	260 U	368 U
Butylbenzylphthalate	85-68-7	NC	142 U	141 U	111 U	119 U	104 U	147 U
Caprolactam	105-60-2	NC	284 U	282 U	223 U	239 U	208 U	294 U
Carbazole	86-74-8	NC	485	295	42.3 J	119 U	104 U	147 U
Chrysene	218-01-9	1,000	4,620 J	5,680	226	43.2 J	51.9 U	73.6 U
Dibenzo[a,h]Anthracene	53-70-3	330	804	2,120	122	59.7 U	51.9 U	73.6 U
Dibenzofuran	132-64-9	7,000	251	54.7 J	111 U	119 U	104 U	147 U
Diethylphthalate	84-66-2	NC	142 U	141 U	111 U	119 U	104 U	147 U
Dimethylphthalate	131-11-3	NC	142 U	141 U	111 U	119 U	104 U	147 U
Di-n-butylphthalate	84-74-2	NC	142 U	141 U	111 U	119 U	104 U	147 U
Di-n-octylphthalate	117-84-0	NC	142 U	141 U	111 U	119 U	104 U	147 U
Fluoranthene	206-44-0	100,000	8,700 J	5,300	312	32.6 J	51.9 U	73.6 U
Fluorene	86-73-7	30,000	357	77.3	55.7 U	59.7 U	51.9 U	73.6 U
Hexachlorobenzene	118-74-1	330	142 U	141 U	111 U	119 U	104 U	147 U
Hexachlorobutadiene	87-68-3	NC	142 U	141 U	111 U	119 U	104 U	147 U
Hexachlorocyclopentadiene	77-47-4	NC	284 U	282 U	223 U	239 U	208 U	294 U
Hexachloroethane	67-72-1	NC	142 U	141 U	111 U	119 U	104 U	147 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	2,790 J	9,870	566	59.7 U	51.9 U	73.6 U
Isophorone	78-59-1	NC	142 U	141 U	111 U	119 U	104 U	147 U
m-Cresol & p-Cresol	MEPH1314	330**	284 U	282 U	223 U	239 U	208 U	294 U
Naphthalene	91-20-3	12,000	160	32.7 J	23.2 J	59.7 U	51.9 U	73.6 U
Nitrobenzene	98-95-3	NC	142 U	141 U	111 U	119 U	104 U	147 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	142 U	141 U	111 U	119 U	104 U	147 U
N-Nitrosodiphenylamine	86-30-6	NC	142 U	141 U	111 U	119 U	104 U	147 U
Pentachlorophenol	87-86-5	800	284 U	282 U	223 U	239 U	208 U	294 U
Phenanthrene	85-01-8	100,000	5,200 J	1,780	118	61.2	51.9 U	73.6 U
Phenol	108-95-2	330	284 U	282 U	223 U	239 U	208 U	294 U
Pyrene	129-00-0	100,000	7,430 J	5,380	296	43.6 J	51.9 U	73.6 U
Pyridine	110-86-1	NC	284 U	282 U	223 U	239 U	208 U	294 U
Total SVOC TICs	NA	NC	14,232	23,350	NT	NT	NT	NT

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	TP-115	TP-117	TP-118	TP-119	TP-120	TP-120
	Sample ID	TP-115-4-5-012616	TP-117-1.5-2-011516	TP-118-3.5-4-011516	TP-119-5-6-012616	DUP-009-012616	TP-120-4-4.5-012616
	Sample Date	1/26/2016	1/15/2016	1/15/2016	1/26/2016	1/26/2016	1/26/2016
	Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	Lab SDG	2121863	2120575	2120575	2121863	2121863	2121863
	Start Depth	4	1.5	3.5	5	4	4
	End Depth	5	2	4	6	4.5	4.5
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
SVOCs							
1,1'-Biphenyl	92-52-4	NC	137 U	449	142 U	136 U	120 U	119 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	137 U	126 U	142 U	136 U	120 U	119 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	274 U	251 U	283 U	273 U	241 U	237 U
2,4,5-Trichlorophenol	95-95-4	NC	274 U	251 U	283 U	273 U	241 U	237 U
2,4,6-Trichlorophenol	88-06-2	NC	274 U	251 U	283 U	273 U	241 U	237 U
2,4-Dichlorophenol	120-83-2	NC	274 U	251 R	283 U	273 U	241 U	237 U
2,4-Dimethylphenol	105-67-9	NC	274 U	251 U	283 U	273 U	241 U	237 U
2,4-Dinitrophenol	51-28-5	NC	480 U	440 U	495 U	478 U	421 U	416 U
2,4-Dinitrotoluene	121-14-2	NC	137 U	126 U	142 U	136 U	120 U	119 U
2,6-Dinitrotoluene	606-20-2	NC	137 U	126 U	142 U	136 U	120 U	119 U
2-Chloronaphthalene	91-58-7	NC	137 U	126 U	142 U	136 U	120 U	119 U
2-Chlorophenol	95-57-8	NC	274 U	251 U	283 U	273 U	241 U	237 U
2-Methylnaphthalene	91-57-6	NC	25.8 J	2,220	62.4 J	68.7 J	20 J	16.5 J
2-Methylphenol	95-48-7	330	274 U	251 U	283 U	273 U	241 U	237 U
2-Nitroaniline	88-74-4	NC	274 U	251 U	283 U	273 U	241 U	237 U
2-Nitrophenol	88-75-5	NC	274 U	251 U	283 U	273 U	241 U	237 U
3,3-Dichlorobenzidine	91-94-1	NC	274 U	251 U	283 U	273 U	241 U	237 U
3-Nitroaniline	99-09-2	NC	274 U	251 U	283 U	273 U	241 U	237 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	274 U	251 UJ	283 U	273 U	241 U	237 U
4-Bromophenyl-phenylether	101-55-3	NC	137 U	126 U	142 U	136 U	120 U	119 U
4-Chloro-3-methylphenol	59-50-7	NC	274 U	251 U	283 U	273 U	241 U	237 U
4-Chloroaniline	106-47-8	NC	274 U	251 U	283 U	273 U	241 U	237 U
4-Chlorophenyl-phenylether	7005-72-3	NC	137 U	126 U	142 U	136 U	120 U	119 U
4-Nitroaniline	100-01-6	NC	274 U	251 U	283 U	273 U	241 U	237 U
4-Nitrophenol	100-02-7	NC	274 U	251 U	283 U	273 U	241 U	237 U
Acenaphthene	83-32-9	20,000	26 J	5590 J	70.8 U	68.2 U	60.2 U	59.4 U
Acenaphthylene	208-96-8	100,000	68.5 U	9,410	41.1 J	68.2 U	60.2 U	59.4 U
Acetophenone	98-86-2	NC	37.4 J	134	40.3 J	136 U	52.6 J	119 U
Anthracene	120-12-7	100,000	61.7 J	28,700	77.2	35.7 J	60.2 U	59.4 U
Atrazine	1912-24-9	NC	137 U	126 U	142 U	136 U	120 U	119 U
Benzaldehyde	100-52-7	NC	274 U	93.4 J	41.8 J	273 U	241 U	237 U
Benzidine	92-87-5	NC	274 U	251 UJ	283 U	273 U	241 U	237 U
Benzo[a]anthracene	56-55-3	1,000	204	112,000	195	108	27 J	30.2 J
Benzo[a]pyrene	50-32-8	1,000	211	106,000	223	96	60.2 U	31.9 J
Benzo[b]fluoranthene	205-99-2	1,000	258	148,000	267	114	43.8 J	51.3 J
Benzo[g,h,i]perylene	191-24-2	100,000	113	66,900	167	84.7	60.2 U	27.7 J
Benzo[k]fluoranthene	207-08-9	800	116	52,700	101	68.2 U	60.2 U	59.4 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	137 U	126 U	142 U	136 U	120 U	119 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	137 U	126 U	142 U	136 U	120 U	119 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	137 U	126 U	142 U	136 U	120 U	119 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	343 U	314 U	354 U	341 U	301 U	297 U
Butylbenzylphthalate	85-68-7	NC	137 U	126 UJ	142 U	136 U	120 U	119 U
Caprolactam	105-60-2	NC	274 U	251 U	283 U	273 U	241 U	237 U
Carbazole	86-74-8	NC	36.3 J	9,710	32.2 J	136 U	120 U	119 U
Chrysene	218-01-9	1,000	243	115,000	269	104	26.6 J	59.4 U
Dibenzo[a,h]Anthracene	53-70-3	330	35 J	17,300	42.9 J	68.2 U	60.2 U	59.4 U
Dibenzofuran	132-64-9	7,000	28.9 J	6420 J	33.7 J	136 U	120 U	119 U
Diethylphthalate	84-66-2	NC	137 U	126 U	142 U	136 U	120 U	119 U
Dimethylphthalate	131-11-3	NC	137 U	126 U	142 U	136 U	120 U	119 U
Di-n-butylphthalate	84-74-2	NC	137 U	126 U	142 U	136 U	120 U	119 U
Di-n-octylphthalate	117-84-0	NC	137 U	126 UJ	142 U	136 U	120 U	119 U
Fluoranthene	206-44-0	100,000	437	230,000	396	119	60.2 U	33.9 J
Fluorene	86-73-7	30,000	29.1 J	9,490	70.8 U	68.2 U	60.2 U	59.4 U
Hexachlorobenzene	118-74-1	330	137 U	126 U	142 U	136 U	120 U	119 U
Hexachlorobutadiene	87-68-3	NC	137 U	126 U	142 U	136 U	120 U	119 U
Hexachlorocyclopentadiene	77-47-4	NC	274 U	251 R	283 U	273 U	241 U	237 U
Hexachloroethane	67-72-1	NC	137 U	126 U	142 U	136 U	120 U	119 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	137	73,200	151	77.8	60.2 U	32.1 J
Isophorone	78-59-1	NC	137 U	126 U	142 U	136 U	120 U	119 U
m-Cresol & p-Cresol	MEPH1314	330**	274 U	96.9 J	23.8 J	273 U	241 U	237 U
Naphthalene	91-20-3	12,000	67 J	5,040	131	43.2 J	60.2 U	59.4 U
Nitrobenzene	98-95-3	NC	137 U	126 U	142 U	136 U	120 U	119 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	137 U	126 U	142 U	136 U	120 U	119 U
N-Nitrosodiphenylamine	86-30-6	NC	137 U	126 U	142 U	136 U	120 U	119 U
Pentachlorophenol	87-86-5	800	274 U	251 UJ	283 U	273 U	241 U	237 U
Phenanthrene	85-01-8	100,000	352	121,000	357	85.2	23 J	23.5 J
Phenol	108-95-2	330	274 U	92.7 J	283 U	273 U	241 U	237 U
Pyrene	129-00-0	100,000	407	197,000	314	137	27.8 J	34.8 J
Pyridine	110-86-1	NC	274 U	251 U	283 U	273 U	241 U	237 U
Total SVOC TICs	NA	NC	NT	6,194	2,548	2,636	344	667

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	TP-121	TP-122	TP-123	TP-124	TP-125	TP-127
		Sample ID	TP-121-8-8.5-012616	TP-122-7-8-012716	TP-123-4.5-5-012616	TP-124-7.5-8-012616	TP-125-3-4-012716	TP-127-8-8.5-012716
		Sample Date	1/26/2016	1/27/2016	1/26/2016	1/26/2016	1/27/2016	1/27/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2121863	2121863	2121863	2121863	2121863	2121863
		Start Depth	8	7	4.5	7.5	3	8
		End Depth	8.5	8	5	8	4	8.5
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	NC	121 U	116 U	117 U	127 U	125 U	171 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	121 U	116 U	117 U	127 U	125 U	171 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	242 U	232 U	233 U	253 U	249 U	341 U
2,4,5-Trichlorophenol	95-95-4	NC	242 U	232 U	233 U	253 U	249 U	341 U
2,4,6-Trichlorophenol	88-06-2	NC	242 U	232 U	233 U	253 U	249 U	341 U
2,4-Dichlorophenol	120-83-2	NC	242 U	232 U	233 U	253 U	249 U	341 U
2,4-Dimethylphenol	105-67-9	NC	242 U	232 U	233 U	253 U	249 U	341 U
2,4-Dinitrophenol	51-28-5	NC	424 U	406 U	408 U	443 U	436 U	597 U
2,4-Dinitrotoluene	121-14-2	NC	121 U	116 U	117 U	127 U	125 U	171 U
2,6-Dinitrotoluene	606-20-2	NC	121 U	116 U	117 U	127 U	125 U	171 U
2-Chloronaphthalene	91-58-7	NC	121 U	116 U	117 U	127 U	125 U	171 U
2-Chlorophenol	95-57-8	NC	242 U	232 U	233 U	253 U	249 U	341 U
2-Methylnaphthalene	91-57-6	NC	121 U	116 U	117 U	127 U	18.1 J	171 U
2-Methylphenol	95-48-7	330	242 U	232 U	233 U	253 U	249 U	341 U
2-Nitroaniline	88-74-4	NC	242 U	232 U	233 U	253 U	249 U	341 U
2-Nitrophenol	88-75-5	NC	242 U	232 U	233 U	253 U	249 U	341 U
3,3-Dichlorobenzidine	91-94-1	NC	242 U	232 U	233 U	253 U	249 U	341 U
3-Nitroaniline	99-09-2	NC	242 U	232 U	233 U	253 U	249 U	341 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	242 U	232 U	233 U	253 U	249 U	341 U
4-Bromophenyl-phenylether	101-55-3	NC	121 U	116 U	117 U	127 U	125 U	171 U
4-Chloro-3-methylphenol	59-50-7	NC	242 U	232 U	233 U	253 U	249 U	341 U
4-Chloroaniline	106-47-8	NC	242 U	232 U	233 U	253 U	249 U	341 U
4-Chlorophenyl-phenylether	7005-72-3	NC	121 U	116 U	117 U	127 U	125 U	171 U
4-Nitroaniline	100-01-6	NC	242 U	232 U	233 U	253 U	249 U	341 U
4-Nitrophenol	100-02-7	NC	242 U	232 U	233 U	253 U	249 U	341 U
Acenaphthene	83-32-9	20,000	60.5 U	58 U	58.3 U	63.3 U	62.3 U	85.3 U
Acenaphthylene	208-96-8	100,000	60.5 U	58 U	58.3 U	63.3 U	62.3 U	85.3 U
Acetophenone	98-86-2	NC	121 U	116 U	117 U	127 U	125 U	772
Anthracene	120-12-7	100,000	60.5 U	58 U	58.3 U	63.3 U	62.3 U	85.3 U
Atrazine	1912-24-9	NC	121 U	116 U	117 U	127 U	125 U	171 U
Benzaldehyde	100-52-7	NC	242 U	232 U	233 U	253 U	249 U	341 U
Benzidine	92-87-5	NC	242 U	232 U	233 U	253 U	249 U	341 U
Benzo[a]anthracene	56-55-3	1,000	60.5 U	58 U	58.3 U	43.9 J	62.3 U	72.7 J
Benzo[a]pyrene	50-32-8	1,000	60.5 U	58 U	58.3 U	35.6 J	62.3 U	59.7 J
Benzo[b]fluoranthene	205-99-2	1,000	60.5 U	58 U	58.3 U	37.5 J	62.3 U	84.9 J
Benzo[g,h,i]perylene	191-24-2	100,000	60.5 U	58 U	58.3 U	63.3 U	62.3 U	58.2 J
Benzo[k]fluoranthene	207-08-9	800	60.5 U	58 U	58.3 U	63.3 U	62.3 U	85.3 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	121 U	116 U	117 U	127 U	125 U	171 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	121 U	116 U	117 U	127 U	125 U	171 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	121 U	116 U	117 U	127 U	125 U	171 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	303 U	290 U	291 U	316 U	312 U	427 U
Butylbenzylphthalate	85-68-7	NC	121 U	116 U	117 U	127 U	125 U	171 U
Caprolactam	105-60-2	NC	242 U	232 U	233 U	253 U	249 U	341 U
Carbazole	86-74-8	NC	121 U	116 U	117 U	127 U	125 U	171 U
Chrysene	218-01-9	1,000	60.5 U	58 U	58.3 U	55.1 J	62.3 U	211
Dibenzo[a,h]Anthracene	53-70-3	330	60.5 U	58 U	58.3 U	63.3 U	62.3 U	85.3 U
Dibenzofuran	132-64-9	7,000	121 U	116 U	117 U	127 U	125 U	84.9 J
Diethylphthalate	84-66-2	NC	121 U	116 U	117 U	127 U	125 U	171 U
Dimethylphthalate	131-11-3	NC	121 U	116 U	117 U	127 U	125 U	171 U
Di-n-butylphthalate	84-74-2	NC	121 U	116 U	117 U	127 U	125 U	171 U
Di-n-octylphthalate	117-84-0	NC	121 U	116 U	117 U	127 U	125 U	171 U
Fluoranthene	206-44-0	100,000	60.5 U	58 U	58.3 U	71	62.3 U	151
Fluorene	86-73-7	30,000	60.5 U	58 U	58.3 U	63.3 U	62.3 U	85.3 U
Hexachlorobenzene	118-74-1	330	121 U	116 U	117 U	127 U	125 U	171 U
Hexachlorobutadiene	87-68-3	NC	121 U	116 U	117 U	127 U	125 U	171 U
Hexachlorocyclopentadiene	77-47-4	NC	242 U	232 U	233 U	253 U	249 U	341 U
Hexachloroethane	67-72-1	NC	121 U	116 U	117 U	127 U	125 U	171 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	60.5 U	58 U	58.3 U	63.3 U	62.3 U	55 J
Isophorone	78-59-1	NC	121 U	116 U	117 U	127 U	125 U	171 U
m-Cresol & p-Cresol	MEPH1314	330**	242 U	232 U	233 U	253 U	249 U	341 U
Naphthalene	91-20-3	12,000	60.5 U	58 U	58.3 U	63.3 U	62.3 U	41.9 J
Nitrobenzene	98-95-3	NC	121 U	116 U	117 U	127 U	125 U	171 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	121 U	116 U	117 U	127 U	125 U	171 U
N-Nitrosodiphenylamine	86-30-6	NC	121 U	116 U	117 U	127 U	125 U	171 U
Pentachlorophenol	87-86-5	800	242 U	232 U	233 U	253 U	249 U	341 U
Phenanthrene	85-01-8	100,000	60.5 U	58 U	58.3 U	97.8	33.4 J	71.5 J
Phenol	108-95-2	330	242 U	232 U	233 U	253 U	249 U	341 U
Pyrene	129-00-0	100,000	60.5 U	58 U	58.3 U	66.2	62.3 U	121
Pyridine	110-86-1	NC	242 U	232 U	233 U	253 U	249 U	341 U
Total SVOC TICs	NA	NC	1,407	NT	4,945	30,531	NT	88,260

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	TP-128	TP-129	TP-132	TP-133	TP-134
		Sample ID	TP-128-5-6-012716	TP-129-4-4.5-012816	TP-132-3-3.5-012816	TP-133-6.5-7-012716	TP-134-5-6-012816
		Sample Date	1/27/2016	1/28/2016	1/28/2016	1/27/2016	1/28/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2121863	2121862	2121862	2121863	2121862
		Start Depth	5	4	3	6.5	5
		End Depth	6	4.5	3.5	7	6
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
SVOCs							
1,1'-Biphenyl	92-52-4	NC	196 U	135 U	41.3 J	116 U	128 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	196 U	135 U	136 U	116 U	128 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	392 U	269 U	271 U	232 U	255 U
2,4,5-Trichlorophenol	95-95-4	NC	392 U	269 U	271 U	232 U	255 U
2,4,6-Trichlorophenol	88-06-2	NC	392 U	269 U	271 U	232 U	255 U
2,4-Dichlorophenol	120-83-2	NC	392 U	269 U	271 U	232 U	255 U
2,4-Dimethylphenol	105-67-9	NC	392 U	269 U	271 U	232 U	255 U
2,4-Dinitrophenol	51-28-5	NC	686 U	471 U	475 U	405 U	447 U
2,4-Dinitrotoluene	121-14-2	NC	196 U	135 U	136 U	116 U	128 U
2,6-Dinitrotoluene	606-20-2	NC	196 U	135 U	136 U	116 U	128 U
2-Chloronaphthalene	91-58-7	NC	196 U	135 U	136 U	116 U	128 U
2-Chlorophenol	95-57-8	NC	392 U	269 U	271 U	232 U	255 U
2-Methylnaphthalene	91-57-6	NC	196 U	33.9 J	248	116 U	71.7 J
2-Methylphenol	95-48-7	330	392 U	269 U	271 U	232 U	255 U
2-Nitroaniline	88-74-4	NC	392 U	269 U	271 U	232 U	255 U
2-Nitrophenol	88-75-5	NC	392 U	269 U	271 U	232 U	255 U
3,3-Dichlorobenzidine	91-94-1	NC	392 U	269 U	271 U	232 U	255 U
3-Nitroaniline	99-09-2	NC	392 U	269 U	271 U	232 U	255 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	392 U	269 U	271 U	232 U	255 U
4-Bromophenyl-phenylether	101-55-3	NC	196 U	135 U	136 U	116 U	128 U
4-Chloro-3-methylphenol	59-50-7	NC	392 U	269 U	271 U	232 U	255 U
4-Chloroaniline	106-47-8	NC	392 U	269 U	271 U	232 U	255 U
4-Chlorophenyl-phenylether	7005-72-3	NC	196 U	135 U	136 U	116 U	128 U
4-Nitroaniline	100-01-6	NC	392 U	269 U	271 U	232 U	255 U
4-Nitrophenol	100-02-7	NC	392 U	269 U	271 U	232 U	255 U
Acenaphthene	83-32-9	20,000	98.1 U	67.3 U	160	57.9 U	63.8 U
Acenaphthylene	208-96-8	100,000	98.1 U	67.3 U	76.9	57.9 U	63.8 U
Acetophenone	98-86-2	NC	196 U	121 J	76.3 J	116 U	128 U
Anthracene	120-12-7	100,000	98.1 U	67.3 U	411	57.9 U	63.8 U
Atrazine	1912-24-9	NC	196 U	135 U	136 U	116 U	128 U
Benzaldehyde	100-52-7	NC	392 U	269 U	271 U	232 U	201 J
Benzidine	92-87-5	NC	392 U	269 U	271 U	232 U	255 U
Benzo[a]anthracene	56-55-3	1,000	48.1 J	27 J	1,180	57.9 U	63.8 U
Benzo[a]pyrene	50-32-8	1,000	98.1 U	67.3 U	1,160	57.9 U	63.8 U
Benzo[b]fluoranthene	205-99-2	1,000	98.1 U	67.3 U	1,500	57.9 U	63.8 U
Benzo[g,h,i]perylene	191-24-2	100,000	98.1 U	67.3 U	730	57.9 U	63.8 U
Benzo[k]fluoranthene	207-08-9	800	98.1 U	67.3 U	610	57.9 U	63.8 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	196 U	135 U	136 U	116 U	128 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	196 U	135 U	136 U	116 U	128 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	196 U	135 U	136 U	116 U	128 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	490 U	337 U	339 U	290 U	319 U
Butylbenzylphthalate	85-68-7	NC	196 U	135 U	980	116 U	128 U
Caprolactam	105-60-2	NC	392 U	269 U	271 U	232 U	1,970
Carbazole	86-74-8	NC	196 U	135 U	182	116 U	128 U
Chrysene	218-01-9	1,000	98.1 U	67.3 U	1,250	57.9 U	63.8 U
Dibenzo[a,h]Anthracene	53-70-3	330	98.1 U	67.3 U	211	57.9 U	63.8 U
Dibenzofuran	132-64-9	7,000	196 U	135 U	151	116 U	128 U
Diethylphthalate	84-66-2	NC	196 U	135 U	136 U	116 U	128 U
Dimethylphthalate	131-11-3	NC	196 U	135 U	136 U	116 U	128 U
Di-n-butylphthalate	84-74-2	NC	196 U	135 U	136 U	116 U	128 U
Di-n-octylphthalate	117-84-0	NC	196 U	135 U	136 U	116 U	128 U
Fluoranthene	206-44-0	100,000	98.1 U	58.5 J	2,560	57.9 U	63.8 U
Fluorene	86-73-7	30,000	98.1 U	67.3 U	166	57.9 U	63.8 U
Hexachlorobenzene	118-74-1	330	196 U	135 U	136 U	116 U	128 U
Hexachlorobutadiene	87-68-3	NC	196 U	135 U	136 U	116 U	128 U
Hexachlorocyclopentadiene	77-47-4	NC	392 U	269 U	271 U	232 U	255 U
Hexachloroethane	67-72-1	NC	196 U	135 U	136 U	116 U	128 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	98.1 U	67.3 U	804	57.9 U	63.8 U
Isophorone	78-59-1	NC	196 U	135 U	136 U	116 U	128 U
m-Cresol & p-Cresol	MEPH1314	330**	392 U	269 U	29.4 J	232 U	255 U
Naphthalene	91-20-3	12,000	98.1 U	22.8 J	245	57.9 U	21.9 J
Nitrobenzene	98-95-3	NC	196 U	135 U	136 U	116 U	128 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	196 U	135 U	136 U	116 U	128 U
N-Nitrosodiphenylamine	86-30-6	NC	196 U	135 U	136 U	116 U	128 U
Pentachlorophenol	87-86-5	800	392 U	269 U	271 U	232 U	255 U
Phenanthrene	85-01-8	100,000	98.1 U	90.2	1,790	57.9 U	35.9 J
Phenol	108-95-2	330	392 U	269 U	271 U	232 U	255 U
Pyrene	129-00-0	100,000	98.1 U	49.7 J	2,240	57.9 U	63.8 U
Pyridine	110-86-1	NC	392 U	269 U	271 U	232 U	255 U
Total SVOC TICs	NA	NC	82,289	34,780	4,012	322	33,700

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	TP-136	TP-137	TP-138	TP-140[BB]	TP-141
		Sample ID	TP-136-8-8.5-012916	TP-137-9.5-10-012916	TP-138-5-6-011516	TP-140-2.5-3-011416	TP-141-4-5-011416
		Sample Date	1/29/2016	1/29/2016	1/15/2016	1/14/2016	1/14/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2121862	2121862	2120575	2119212	2119212
		Start Depth	8	9.5	5	2.5	4
		End Depth	8.5	10	6	3	5
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
SVOCs							
1,1'-Biphenyl	92-52-4	NC	119 U	117 U	121 U	136 U	115 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	119 U	117 U	121 U	136 U	115 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	237 U	234 U	242 U	273 UJ	230 U
2,4,5-Trichlorophenol	95-95-4	NC	237 U	234 U	242 U	273 UJ	230 U
2,4,6-Trichlorophenol	88-06-2	NC	237 U	234 U	242 U	273 UJ	230 U
2,4-Dichlorophenol	120-83-2	NC	237 U	234 U	242 U	273 UJ	230 U
2,4-Dimethylphenol	105-67-9	NC	237 U	234 U	242 U	273 UJ	230 UJ
2,4-Dinitrophenol	51-28-5	NC	415 U	409 UJ	423 U	477 UJ	402 R
2,4-Dinitrotoluene	121-14-2	NC	119 U	117 U	121 U	136 U	115 U
2,6-Dinitrotoluene	606-20-2	NC	119 U	117 U	121 U	136 U	115 U
2-Chloronaphthalene	91-58-7	NC	119 U	117 U	121 U	136 U	115 U
2-Chlorophenol	95-57-8	NC	237 U	234 U	242 U	273 UJ	230 U
2-Methylnaphthalene	91-57-6	NC	119 U	117 U	121 U	55.8 J	95.3 J
2-Methylphenol	95-48-7	330	237 U	234 U	242 U	273 UJ	230 U
2-Nitroaniline	88-74-4	NC	237 U	234 U	242 U	273 U	230 U
2-Nitrophenol	88-75-5	NC	237 U	234 U	242 U	273 UJ	230 U
3,3-Dichlorobenzidine	91-94-1	NC	237 U	234 U	242 U	273 U	230 U
3-Nitroaniline	99-09-2	NC	237 U	234 U	242 U	273 U	230 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	237 U	234 UJ	242 U	273 UJ	230 UJ
4-Bromophenyl-phenylether	101-55-3	NC	119 U	117 U	121 U	136 U	115 U
4-Chloro-3-methylphenol	59-50-7	NC	237 U	234 U	242 U	273 UJ	230 U
4-Chloroaniline	106-47-8	NC	237 U	234 U	242 U	273 U	230 U
4-Chlorophenyl-phenylether	7005-72-3	NC	119 U	117 U	121 U	136 U	115 U
4-Nitroaniline	100-01-6	NC	237 U	234 U	242 U	273 U	230 U
4-Nitrophenol	100-02-7	NC	237 U	234 U	242 U	273 UJ	230 U
Acenaphthene	83-32-9	20,000	59.3 U	58.4 U	60.4 U	95.8	135
Acenaphthylene	208-96-8	100,000	59.3 U	58.4 U	60.4 U	316	53.4 J
Acetophenone	98-86-2	NC	119 U	37.9 J	52.2 J	41.9 J	115 U
Anthracene	120-12-7	100,000	59.3 U	58.4 U	60.4 U	1,470	438 J
Atrazine	1912-24-9	NC	119 U	117 U	121 U	136 UJ	115 UJ
Benzaldehyde	100-52-7	NC	237 U	234 U	242 U	123 J	230 UJ
Benzidine	92-87-5	NC	237 U	234 U	242 U	273 UJ	230 R
Benzo[a]anthracene	56-55-3	1,000	59.3 U	58.4 U	38.5 J	2,080	946 J
Benzo[a]pyrene	50-32-8	1,000	59.3 U	58.4 U	36.2 J	2,050	895 J
Benzo[b]fluoranthene	205-99-2	1,000	59.3 U	58.4 U	45.1 J	2,300	1180 J
Benzo[g,h,i]perylene	191-24-2	100,000	59.3 U	58.4 U	60.4 U	1,360	604 J
Benzo[k]fluoranthene	207-08-9	800	59.3 U	58.4 U	60.4 U	888	422 J
Bis(2-Chloroethoxy)methane	111-91-1	NC	119 U	117 U	121 U	136 U	115 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	119 U	117 U	121 U	136 U	115 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	119 U	117 U	121 U	136 U	115 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	296 U	292 U	302 U	341 U	287 U
Butylbenzylphthalate	85-68-7	NC	119 U	117 U	121 U	136 U	115 U
Caprolactam	105-60-2	NC	237 U	234 U	242 U	273 UJ	230 UJ
Carbazole	86-74-8	NC	119 U	117 U	121 U	120 J	237 J
Chrysene	218-01-9	1,000	59.3 U	58.4 U	57.7 J	2,100	1,010 J
Dibenzo[a,h]Anthracene	53-70-3	330	59.3 U	58.4 U	60.4 U	282	155
Dibenzofuran	132-64-9	7,000	119 U	117 U	70.3 J	136 J	177 J
Diethylphthalate	84-66-2	NC	119 U	117 U	121 U	136 U	115 U
Dimethylphthalate	131-11-3	NC	119 U	117 U	121 U	136 U	115 U
Di-n-butylphthalate	84-74-2	NC	119 U	117 U	121 U	136 U	115 U
Di-n-octylphthalate	117-84-0	NC	119 U	117 U	121 U	136 U	115 U
Fluoranthene	206-44-0	100,000	59.3 U	58.4 U	99.4	6,180	2,430 J
Fluorene	86-73-7	30,000	59.3 U	58.4 U	88.2	307	211
Hexachlorobenzene	118-74-1	330	119 U	117 U	121 U	136 U	115 U
Hexachlorobutadiene	87-68-3	NC	119 U	117 U	121 U	136 U	115 U
Hexachlorocyclopentadiene	77-47-4	NC	237 U	234 U	242 U	273 U	230 U
Hexachloroethane	67-72-1	NC	119 U	117 U	121 U	136 U	115 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	59.3 U	58.4 U	60.4 U	1,450	639
Isophorone	78-59-1	NC	119 U	117 U	121 U	136 U	115 U
m-Cresol & p-Cresol	MEPH1314	330**	237 U	234 U	242 U	273 UJ	230 U
Naphthalene	91-20-3	12,000	59.3 U	58.4 U	60.4 U	197	162 J
Nitrobenzene	98-95-3	NC	119 U	117 U	121 U	136 U	115 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	119 U	117 U	121 U	136 U	115 U
N-Nitrosodiphenylamine	86-30-6	NC	119 U	117 U	121 U	136 U	115 U
Pentachlorophenol	87-86-5	800	237 U	234 U	242 U	273 UJ	230 UJ
Phenanthrene	85-01-8	100,000	59.3 U	58.4 U	257	3,970	2,180 J
Phenol	108-95-2	330	237 U	234 U	242 U	273 UJ	230 U
Pyrene	129-00-0	100,000	59.3 U	58.4 U	88.7	4,900	1,920 J
Pyridine	110-86-1	NC	237 U	234 U	242 U	273 U	230 U
Total SVOC TICs	NA	NC	NT	2,073	98,660	NT	NT

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9B - Subsurface Soil Results Compared to Unrestricted SCOs
SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	TP-142	TP-143	TP-148	TP-149[BB]	TP-152
		Sample ID	TP-142-0-1-011516	TP-143-4-6.5-011416	TP-148-2-2.5-012516	TP-149-6-8-011416	TP-152-2.5-3-012916
		Sample Date	1/15/2016	1/14/2016	1/25/2016	1/14/2016	1/29/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2120575	2119212	2121863	2119212	2121862
		Start Depth	0	4	2	6	2.5
		End Depth	1	6.5	2.5	8	3
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]					
SVOCs							
1,1'-Biphenyl	92-52-4	NC	65.5 J	137 U	119 U	115 U	120 U
1,2,4,5-Tetrachlorobenzene	95-94-3	NC	122 U	137 U	119 U	115 U	120 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	243 U	275 U	237 U	231 U	239 U
2,4,5-Trichlorophenol	95-95-4	NC	243 U	275 U	237 U	231 U	239 U
2,4,6-Trichlorophenol	88-06-2	NC	243 U	275 U	237 U	231 U	239 U
2,4-Dichlorophenol	120-83-2	NC	243 U	275 U	237 U	231 U	239 U
2,4-Dimethylphenol	105-67-9	NC	243 U	275 U	237 U	231 U	239 U
2,4-Dinitrophenol	51-28-5	NC	426 U	480 U	415 U	404 U	418 U
2,4-Dinitrotoluene	121-14-2	NC	122 U	137 U	119 U	115 U	120 U
2,6-Dinitrotoluene	606-20-2	NC	122 U	137 U	119 U	115 U	120 U
2-Chloronaphthalene	91-58-7	NC	122 U	137 U	119 U	115 U	120 U
2-Chlorophenol	95-57-8	NC	243 U	275 U	237 U	231 U	239 U
2-Methylnaphthalene	91-57-6	NC	771	51.4 J	119 U	17.1 J	91.8 J
2-Methylphenol	95-48-7	330	243 U	275 U	237 U	231 U	239 U
2-Nitroaniline	88-74-4	NC	243 U	275 U	237 U	231 U	239 U
2-Nitrophenol	88-75-5	NC	243 U	275 U	237 U	231 U	239 U
3,3-Dichlorobenzidine	91-94-1	NC	243 U	275 U	237 U	231 U	239 U
3-Nitroaniline	99-09-2	NC	243 U	275 U	237 U	231 U	239 U
4,6-Dinitro-2-methylphenol	534-52-1	NC	243 U	275 U	237 U	231 U	239 U
4-Bromophenyl-phenylether	101-55-3	NC	122 U	137 U	119 U	115 U	120 U
4-Chloro-3-methylphenol	59-50-7	NC	243 U	275 U	237 U	231 U	239 U
4-Chloroaniline	106-47-8	NC	243 U	275 U	237 U	231 U	239 U
4-Chlorophenyl-phenylether	7005-72-3	NC	122 U	137 U	119 U	115 U	120 U
4-Nitroaniline	100-01-6	NC	243 U	275 U	237 U	231 U	239 U
4-Nitrophenol	100-02-7	NC	243 U	275 U	237 U	231 U	239 U
Acenaphthene	83-32-9	20,000	60.9 U	68.6 U	59.3 U	57.7 U	59.8 U
Acenaphthylene	208-96-8	100,000	60.9 U	68.6 U	59.3 U	57.7 U	59.8 U
Acetophenone	98-86-2	NC	126	54.1 J	119 U	115 U	65 J
Anthracene	120-12-7	100,000	60.9 U	39.7 J	59.3 U	57.7 U	29.5 J
Atrazine	1912-24-9	NC	122 U	137 UJ	119 U	115 U	120 U
Benzaldehyde	100-52-7	NC	111 J	275 UJ	237 U	231 U	53.9 J
Benzidine	92-87-5	NC	243 U	275 UJ	237 U	231 U	239 U
Benzo[a]anthracene	56-55-3	1,000	105	68.6 U	59.3 U	40.3 J	59.8 U
Benzo[a]pyrene	50-32-8	1,000	68.1	105	59.3 U	57.7 U	59.8 U
Benzo[b]fluoranthene	205-99-2	1,000	103	147	59.3 U	57.7 U	59.8 U
Benzo[g,h,i]perylene	191-24-2	100,000	65.4	86.1	59.3 U	57.7 U	59.8 U
Benzo[k]fluoranthene	207-08-9	800	60.9 U	41.9 J	59.3 U	57.7 U	59.8 U
Bis(2-Chloroethoxy)methane	111-91-1	NC	122 U	137 U	119 U	115 U	120 U
Bis(2-Chloroethyl)Ether	111-44-4	NC	122 U	137 U	119 U	115 U	120 U
Bis(2-Chloroisopropyl)ether	108-60-1	NC	122 U	137 U	119 U	115 U	120 U
Bis(2-Ethylhexyl)phthalate	117-81-7	NC	304 U	343 U	296 U	288 U	299 U
Butylbenzylphthalate	85-68-7	NC	122 U	137 U	119 U	115 U	120 U
Caprolactam	105-60-2	NC	243 U	275 UJ	237 U	231 U	239 U
Carbazole	86-74-8	NC	19.8 J	137 U	119 U	115 U	120 U
Chrysene	218-01-9	1,000	194	199	59.3 U	57.5 J	59.8 U
Dibenzo[a,h]Anthracene	53-70-3	330	24.5 J	56.5 J	59.3 U	57.7 U	59.8 U
Dibenzofuran	132-64-9	7,000	211	137 U	119 U	115 U	48.9 J
Diethylphthalate	84-66-2	NC	122 U	137 U	119 U	115 U	120 U
Dimethylphthalate	131-11-3	NC	122 U	137 U	119 U	115 U	120 U
Di-n-butylphthalate	84-74-2	NC	122 U	137 U	119 U	115 U	120 U
Di-n-octylphthalate	117-84-0	NC	122 U	137 U	119 U	115 U	120 U
Fluoranthene	206-44-0	100,000	132	154	59.3 U	29.6 J	59.5 J
Fluorene	86-73-7	30,000	36.5 J	68.6 U	59.3 U	57.7 U	59.8 U
Hexachlorobenzene	118-74-1	330	122 U	137 U	119 U	115 U	120 U
Hexachlorobutadiene	87-68-3	NC	122 U	137 U	119 U	115 U	120 U
Hexachlorocyclopentadiene	77-47-4	NC	243 U	275 U	237 U	231 U	239 U
Hexachloroethane	67-72-1	NC	122 U	137 U	119 U	115 U	120 U
Indeno[1,2,3-cd]pyrene	193-39-5	500	39.3 J	59.8 J	59.3 U	57.7 U	59.8 U
Isophorone	78-59-1	NC	122 U	137 U	119 U	115 U	120 U
m-Cresol & p-Cresol	MEPH1314	330**	243 U	275 U	237 U	231 U	239 U
Naphthalene	91-20-3	12,000	431	40.2 J	59.3 U	57.7 U	102
Nitrobenzene	98-95-3	NC	122 U	137 U	119 U	115 U	120 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	122 U	137 U	119 U	115 U	120 U
N-Nitrosodiphenylamine	86-30-6	NC	122 U	137 U	119 U	115 U	120 U
Pentachlorophenol	87-86-5	800	243 U	275 U	237 U	231 U	239 U
Phenanthrene	85-01-8	100,000	598	179	59.3 U	75.3	166
Phenol	108-95-2	330	243 U	275 U	237 U	231 U	239 U
Pyrene	129-00-0	100,000	116	138	59.3 U	27.8 J	53.1 J
Pyridine	110-86-1	NC	243 U	275 U	237 U	231 U	239 U
Total SVOC TICs	NA	NC	11,936	NT	873	NT	2,930

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.

**- action level for Cresol applies to individual isomers.

[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9C - Subsurface Soil Results Compared to Unrestricted SCOs
Pesticides/Herbicides
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SB-101	SB-103	SB-105	SB-111	SB-112	SB-113	SB-113[BB]	SB-113	SB-116	SB-117	SB-129
	Sample ID	SB-101-12.5-14-031016	SB-103-4.8-5.8-030416	SB-105-11-12-031016	SB-111-6-7-031016	SB-112-0.5-2.0-08221	DUP-002-031416	SB-113-1-2-031416	SB-113-4.5-6.5-031416	SB-116-5.7-6.5-030216	DUP-003-030216	SB-129-4.6-6.6-031516
	Sample Date	3/10/2016	3/4/2016	3/10/2016	3/10/2016	8/22/2017	3/14/2016	3/14/2016	3/14/2016	3/2/2016	3/2/2016	3/15/2016
	Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	Lab SDG	2130254	2129473	2130254	2130254	2258101	2130903	2130903	2130903	2127346	2127346	2130900
	Start Depth	12.5	4.8	11	6	0.5	4.5	1	4.5	5.7	5.9	4.6
	End Depth	14	5.8	12	7	2	6.5	2	6.5	6.5	7	6.6
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]										
Pesticides/Herbicides												
4-4-DDD	72-54-8	3.3	3.3 U	3.2 U	4.1 UJ	3 U	4.3 U	3.3 U	3.3 U	4.3 UJ	3.4 U	3.4 U	3.2 UJ
4-4-DDE	72-55-9	3.3	3.3 U	3.2 U	4.1 U	3 U	4.3 U	3.3 U	3.3 U	4.3 U	3.4 U	3.4 U	3.2 U
4-4-DDT	50-29-3	3.3	3.3 U	3.2 U	4.1 UJ	3 U	4.3 U	3.3 U	3.3 U	4.3 UJ	3.4 U	3.4 U	3.2 UJ
a-BHC	319-84-6	20	3.3 U	3.2 U	4.1 U	3 U	2.2 U	3.3 U	3.3 U	4.3 U	3.4 U	3.4 U	3.2 U
Aldrin	309-00-2	5	3.3 U	3.2 U	4.1 U	3 U	2.2 U	3.3 U	3.3 U	4.3 U	3.4 U	3.4 U	3.2 U
alpha-Chlordane	5103-71-9	94	3.3 U	3.2 U	4.1 U	3 U	2.2 U	3.3 U	3.3 U	4.3 U	3.4 U	3.4 U	3.2 U
b-BHC	319-85-7	36	3.3 U	3.2 U	4.1 U	3 U	2.2 U	3.3 U	3.3 U	4.3 U	3.4 U	3.4 U	3.2 U
Chlordane	57-74-9	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
d-BHC	319-86-8	40	3.3 U	3.2 U	4.1 U	3 U	2.2 U	3.3 U	3.3 U	4.3 U	3.4 U	3.4 U	3.2 U
Dieldrin	60-57-1	5	3.3 U	3.2 U	4.1 U	3 U	4.3 U	3.3 U	3.3 U	4.3 U	3.4 U	3.4 U	3.2 U
Endosulfan I	959-98-8	2,400	3.3 U	3.2 U	4.1 U	3 U	2.2 U	3.3 U	3.3 U	4.3 U	3.4 U	3.4 U	3.2 U
Endosulfan II	33213-65-9	2,400	3.3 U	3.2 U	4.1 U	3 U	4.3 U	3.3 U	3.3 U	4.3 U	3.4 U	3.4 U	3.2 U
Endosulfan Sulfate	1031-07-8	2,400	3.3 U	3.2 U	4.1 U	3 U	4.3 U	3.3 U	3.3 U	4.3 U	3.4 U	3.4 U	3.2 U
Endrin	72-20-8	14	3.3 U	3.2 U	4.1 U	3 U	4.3 U	3.3 U	3.3 U	4.3 U	3.4 U	3.4 U	3.2 U
Endrin Aldehyde	7421-93-4	NC	3.3 U	3.2 U	4.1 U	3 U	4.3 U	3.3 U	3.3 U	4.3 U	3.4 U	3.4 U	3.2 U
Endrin Ketone	53494-70-5	NC	3.3 U	3.2 U	4.1 U	3 U	4.3 U	3.3 U	3.3 U	4.3 U	3.4 U	3.4 U	3.2 U
Heptachlor	76-44-8	42	3.3 U	3.2 U	4.1 U	3 U	2.2 U	3.3 U	3.3 U	4.3 U	3.4 U	3.4 U	3.2 U
Heptachlor Epoxide	1024-57-3	NC	3.3 U	1.2 J	4.1 U	3 U	2.2 U	3.3 U	3.3 U	4.3 U	3.4 U	3.4 U	3.2 U
Lindane	58-89-9	100	3.3 U	3.2 U	25.3 JN	3 U	2.2 U	3.3 U	3.3 U	4.3 U	3.4 U	3.4 U	3.2 U
Methoxychlor	72-43-5	NC	3.3 U	3.2 U	4.1 UJ	3 U	4.3 U	3.3 U	3.3 U	4.3 UJ	3.4 U	3.4 U	3.2 UJ
Toxaphene	8001-35-2	NC	67.1 U	65 U	84.2 U	60.7 U	45.8 U	67 U	67.2 U	87.5 U	69.1 U	69.7 U	64.8 U
y-Chlordane	5103-74-2	NC	3.3 U	3.2 U	4.1 U	3 U	2.2 U	3.3 U	3.3 U	4.3 U	3.4 U	3.4 U	3.2 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9C - Subsurface Soil Results Compared to Unrestricted SCOs
Pesticides/Herbicides
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SB-134	SB-135	SB-136	SB-138	SB-144	SB-146	SB-148	SB-154	SB-157	SB-160	SB-161	SB-167	SB-168
	Sample ID	SB-134-10-11-031516	SB-135-8-9-041516	SB-136-5-7-031116	SB-138-4-4.8-030116	SB-144-1-1.8-030116	SB-146-6-8-030216	SB-148-8-9.2-040616	SB-154-15-17-030316	SB-157-20.5-21.5-030916	SB-160-4-5-030916	SB-161-24-26-030816	SB-167-18-19-030716	SB-168-16-17-030816
	Sample Date	3/15/2016	4/15/2016	3/11/2016	3/1/2016	3/1/2016	3/2/2016	4/7/2016	3/3/2016	3/9/2016	3/9/2016	3/8/2016	3/7/2016	3/8/2016
	Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
	Lab SDG	2130900	2139069	2130903	2127346	2127346	2127346	2136537	2129473	2130254	2130254	2130254	2129473	2130254
	Start Depth	10	8	5	4	1	6	8	15	20.5	4	24	18	16
	End Depth	11	9	7	4.8	1.8	8	9.2	17	21.5	5	26	19	17
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]												
Pesticides/Herbicides														
4-4-DDD	72-54-8	3.3	3.3 UJ	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	4	3.1 U
4-4-DDE	72-55-9	3.3	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U	3.1 U
4-4-DDT	50-29-3	3.3	3.3 UJ	4 UJ	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U	3.1 U
a-BHC	319-84-6	20	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U	3.1 U
Aldrin	309-00-2	5	3.3 U	4 UJ	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U	3.1 U
alpha-Chlordane	5103-71-9	94	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 UJ	3.3 U	3.2 U	3 U	2.9 U	3.2 U	3.1 U
b-BHC	319-85-7	36	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U	3.1 U
Chlordane	57-74-9	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
d-BHC	319-86-8	40	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U	3.1 U
Dieldrin	60-57-1	5	3.3 U	4 UJ	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U	3.1 U
Endosulfan I	959-98-8	2,400	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U	3.1 U
Endosulfan II	33213-65-9	2,400	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U	3.1 U
Endosulfan Sulfate	1031-07-8	2,400	3.3 U	4 UJ	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U	3.1 U
Endrin	72-20-8	14	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U	3.1 U
Endrin Aldehyde	7421-93-4	NC	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U	3.1 U
Endrin Ketone	53494-70-5	NC	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U	3.1 U
Heptachlor	76-44-8	42	3.3 U	4 UJ	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U	3.1 U
Heptachlor Epoxide	1024-57-3	NC	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U	3.1 U
Lindane	58-89-9	100	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 UJ	3.3 U	3.2 U	3 U	2.9 U	3.2 U	3.1 U
Methoxychlor	72-43-5	NC	3.3 UJ	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U	3.1 U
Toxaphene	8001-35-2	NC	66 U	80.4 U	63.6 U	62.6 U	63 U	63.2 U	70.5 U	67.8 U	64.4 U	61.4 U	58.6 U	65 U	63 U
γ-Chlordane	5103-74-2	NC	3.3 U	4 U	3.1 U	3.1 U	3.1 U	3.1 U	3.5 U	3.3 U	3.2 U	3 U	2.9 U	3.2 U	3.1 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
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[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9C - Subsurface Soil Results Compared to Unrestricted SCOs
Pesticides/Herbicides
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]	Sample Location	SB-169	SB-172	SB-173	SB-174	SB-TP-139[BB]	SB-TP-139[BB]	TP-100	TP-103	TP-103	TP-105	TP-108	TP-112	TP-113
			Sample ID	SB-169-16-17-030716	SB-172-8.8-9.6-082217	SB-173-12-15-082117	SB-174-12.5-15-082117	DUP-001-030716	SB-TP-139-12-14-030716	TP-100-2-4-012116	DUP-008-012116	TP-103-0-2-012116	TP-105-4.5-6.5-012216	TP-108-0-1.5-012516	TP-112-3.5-4-012516	TP-113-1.5-2-012516
			Sample Date	3/7/2016	8/22/2017	8/21/2017	8/21/2017	3/7/2016	3/7/2016	1/21/2016	1/21/2016	1/21/2016	1/22/2016	1/25/2016	1/25/2016	1/25/2016
			Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
			Lab SDG	2129473	2258101	2258101	2258101	2129473	2129473	2120575	2120575	2120575	2120575	2121863	2121863	2121863
			Start Depth	16	8.8	12	12.5	12	12	2	0	0	4.5	0	3.5	1.5
			End Depth	17	9.6	15	15	14	14	4	2	2	6.5	1.5	4	2
Pesticides/Herbicides																
4-4-DDD	72-54-8	3.3		3.1 U	3.6 U	3.8 U	4.3 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U
4-4-DDE	72-55-9	3.3		3.1 U	3.6 U	3.8 U	4.3 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U
4-4-DDT	50-29-3	3.3		3.1 U	0.65 J	3.8 U	4.3 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U
a-BHC	319-84-6	20		3.1 U	1.9 U	2 U	2.2 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U
Aldrin	309-00-2	5		3.1 U	1.9 U	2 U	2.2 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U
alpha-Chlordane	5103-71-9	94		3.1 U	1.9 U	2 U	2.2 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U
b-BHC	319-85-7	36		3.1 U	1.9 U	2 U	2.2 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U
Chlordane	57-74-9	NC		NA	NA	NA	NA	NA	NA	37.1 U	33.4 U	30.4 U	36.1 U	NA	NA	NA
d-BHC	319-86-8	40		3.1 U	1.9 U	2 U	2.2 U	3.1 U	3.2 U	3.5 UJ	3.1 UJ	2.9 UJ	3.4 UJ	3.2 U	3.2 U	2.8 U
Dieldrin	60-57-1	5		3.1 U	3.6 U	3.8 U	4.3 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U
Endosulfan I	959-98-8	2,400		3.1 U	1.9 U	2 U	2.2 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U
Endosulfan II	33213-65-9	2,400		3.1 U	3.6 U	3.8 U	4.3 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U
Endosulfan Sulfate	1031-07-8	2,400		3.1 U	3.6 U	3.8 U	4.3 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U
Endrin	72-20-8	14		3.1 U	3.6 U	3.8 U	4.3 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U
Endrin Aldehyde	7421-93-4	NC		3.1 U	3.6 U	3.8 U	4.3 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U
Endrin Ketone	53494-70-5	NC		3.1 U	3.6 U	3.8 U	4.3 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U
Heptachlor	76-44-8	42		3.1 U	1.9 U	2 U	2.2 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U
Heptachlor Epoxide	1024-57-3	NC		3.1 U	1.9 U	2 U	2.2 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	4	3.2 U	3.2 U	2.8 U
Lindane	58-89-9	100		3.1 U	1.9 U	2 U	2.2 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U
Methoxychlor	72-43-5	NC		3.1 U	3.6 U	3.8 U	4.3 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U
Toxaphene	8001-35-2	NC		62.1 U	38.2 U	40.2 U	45.2 U	62.4 U	64.7 U	71.1 U	63.8 U	58.3 U	69.1 U	64.8 U	65.3 U	57.5 U
y-Chlordane	5103-74-2	NC		3.1 U	1.9 U	2 U	2.2 U	3.1 U	3.2 U	3.5 U	3.1 U	2.9 U	3.4 U	3.2 U	3.2 U	2.8 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9C - Subsurface Soil Results Compared to Unrestricted SCOs
Pesticides/Herbicides
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	TP-114	TP-117	TP-123	TP-127	TP-128	TP-130	TP-132	TP-134	TP-135	TP-137	TP-143	TP-148	TP-149[BB]
		Sample ID	TP-114-4-5-012616	TP-117-1.5-2-011516	TP-123-4.5-5-012616	TP-127-8-8.5-012716	TP-128-5-6-012716	TP-130-9.5-10-012816	TP-132-3-3.5-012816	TP-134-5-6-012816	TP-135-2-3-012916	TP-137-9.5-10-012916	TP-143-4-6.5-011416	TP-148-2-2.5-012516	TP-149-6-8-011416
		Sample Date	1/26/2016	1/15/2016	1/26/2016	1/27/2016	1/27/2016	1/28/2016	1/28/2016	1/28/2016	1/29/2016	1/29/2016	1/14/2016	1/25/2016	1/14/2016
		Unit	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
		Lab SDG	2121863	2120575	2121863	2121863	2121863	2121862	2121862	2121862	2121862	2121862	2119212	2121863	2119212
		Start Depth	4	1.5	4.5	8	5	9.5	3	5	2	9.5	4	2	6
		End Depth	5	2	5	8.5	6	10	3.5	6	3	10	6.5	2.5	8
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]													
Pesticides/Herbicides															
4-4-DDD	72-54-8	3.3	3.9 U	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	6.4 J	3.3 U	3.1 U	3.1 U	4.5 UJ	3.1 U	3.9 U
4-4-DDE	72-55-9	3.3	3.9 U	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	5.1 J	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
4-4-DDT	50-29-3	3.3	3.9 U	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	5.1 JN	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
a-BHC	319-84-6	20	3.9 U	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 UJ	3.1 U	3.9 U
Aldrin	309-00-2	5	3.9 U	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
alpha-Chlordane	5103-71-9	94	3.9 U	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	2.8 J	3.3 U	3.1 U	3.1 U	4.5 UJ	3.1 U	3.9 U
b-BHC	319-85-7	36	3.9 U	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
Chlordane	57-74-9	NC	NA	35.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
d-BHC	319-86-8	40	3.9 U	3.3 UJ	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 UJ	3.1 U	3.9 U
Dieldrin	60-57-1	5	3.9 U	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	17.7 JN
Endosulfan I	959-98-8	2,400	3.9 U	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
Endosulfan II	33213-65-9	2,400	3.9 U	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 UJ	3.1 U	3.9 U
Endosulfan Sulfate	1031-07-8	2,400	3.9 U	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
Endrin	72-20-8	14	3.9 U	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
Endrin Aldehyde	7421-93-4	NC	3.9 U	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
Endrin Ketone	53494-70-5	NC	3.9 U	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
Heptachlor	76-44-8	42	3.9 U	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
Heptachlor Epoxide	1024-57-3	NC	3.9 U	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 UJ	3.1 U	3.9 U
Lindane	58-89-9	100	3.9 U	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
Methoxychlor	72-43-5	NC	3.9 U	3.3 U	3.2 U	4.5 U	5.1 U	3.5 U	3.5 U	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U
Toxaphene	8001-35-2	NC	78.9 U	67.8 U	64.1 U	91.5 U	103 U	70.3 U	70.8 U	66.2 U	62 U	63.9 U	91.4 U	63.5 U	78.3 U
γ-Chlordane	5103-74-2	NC	3.9 U	3.3 U	3.2 U	4.5 U	5.1 U	4 JN	10.1 JN	3.3 U	3.1 U	3.1 U	4.5 U	3.1 U	3.9 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
µg/kg - micrograms per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9D - Subsurface Soil Results Compared to Unrestricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-100	OVR-107	OVR-108	OVR-109	OVR-109	OVR-116	OVR-117	OVR-118
		Sample ID	OVR-100-6-7-04222016	OVR-107-10-11-041216	OVR-108-4.1-5.4-041316	DUP-004-041116	OVR-109-10-11.8-041116	OVR-116-10-11.9-040116	OVR-117-7-7.6-040716	OVR-118-0.5-1-041316
		Sample Date	4/22/2016	4/12/2016	4/13/2016	4/11/2016	4/11/2016	4/1/2016	4/7/2016	4/13/2016
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Lab SDG	2139069	2136537	2139069	2136537	2136537	2136532	2136537	2139069
		Start Depth	6	10	4.1	10	10	10	7	0.5
		End Depth	7	11	5.4	11.8	11.8	11.9	7.6	1
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]								
PCBs										
Aroclor 1268	11100-14-4	NC	NA	0.041 UJ	NA	0.04 UJ	0.043 U	0.04 U	0.054 R	NA
Aroclor-1016	12674-11-2	NC	0.046 U	0.041 UJ	0.041 U	0.04 UJ	0.043 U	0.04 U	0.054 R	0.037 U
Aroclor-1221	11104-28-2	NC	0.046 U	0.041 UJ	0.041 U	0.04 UJ	0.043 U	0.04 U	0.054 R	0.037 U
Aroclor-1232	11141-16-5	NC	0.046 U	0.041 UJ	0.041 U	0.04 UJ	0.043 U	0.04 U	0.054 R	0.037 U
Aroclor-1242	53469-21-9	NC	0.046 U	0.041 UJ	0.041 U	0.04 UJ	0.043 U	0.04 U	0.054 R	0.037 U
Aroclor-1248	12672-29-6	NC	0.056	0.041 UJ	0.041 U	0.04 UJ	0.043 U	0.04 U	0.054 R	0.037 U
Aroclor-1254	11097-69-1	NC	0.046 U	0.041 UJ	0.041 U	0.04 UJ	0.043 U	0.04 U	0.054 R	0.037 U
Aroclor-1260	11096-82-5	NC	0.046 U	0.041 UJ	0.041 U	0.04 UJ	0.043 U	0.04 U	0.054 R	0.037 U
PCB-1262	37324-23-5	NC	NA	0.041 UJ	NA	0.04 UJ	0.043 U	0.04 U	0.054 R	NA
Total PCBs	1336-36-3	0.1	0.056	0.041 UJ	0.041 U	0.04 UJ	0.043 U	0.04 U	R	0.037 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9D - Subsurface Soil Results Compared to Unrestricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SB-100	SB-101	SB-103	SB-105	SB-106	SB-107	SB-108	SB-111	SB-112
	Sample ID	SB-100-9-10-031016	SB-101-12.5-14-031016	SB-103-4.8-5.8-030416	SB-105-11-12-031016	SB-106-5-6-030316	SB-107-6-7-030316	SB-108-5.8-6.4-030316	SB-111-6-7-031016	SB-112-0.5-2.0-082217
	Sample Date	3/10/2016	3/10/2016	3/4/2016	3/10/2016	3/3/2016	3/3/2016	3/3/2016	3/10/2016	8/22/2017
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	2130254	2130254	2129473	2130254	2129473	2129473	2129473	2130254	2258101
	Start Depth	9	12.5	4.8	11	5	6	5.8	6	0.5
	End Depth	10	14	5.8	12	6	7	6.4	7	2
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]								
PCBs										
Aroclor 1268	11100-14-4	NC	0.051 U	0.042 U	0.039 U	0.051 U	0.039 U	0.037 U	0.041 U	0.037 U	0.043 U
Aroclor-1016	12674-11-2	NC	0.051 U	0.042 U	0.039 U	0.051 U	0.039 U	0.037 U	0.041 U	0.037 U	0.043 U
Aroclor-1221	11104-28-2	NC	0.051 U	0.042 U	0.039 U	0.051 U	0.039 U	0.037 U	0.041 U	0.037 U	0.043 U
Aroclor-1232	11141-16-5	NC	0.051 U	0.042 U	0.039 U	0.051 U	0.039 U	0.037 U	0.041 U	0.037 U	0.043 U
Aroclor-1242	53469-21-9	NC	0.051 U	0.042 U	0.039 U	0.051 U	0.039 U	0.037 U	0.041 U	0.037 U	0.043 U
Aroclor-1248	12672-29-6	NC	0.051 U	0.042 U	0.039 U	0.051 U	0.039 U	0.037 U	0.041 U	0.037 U	0.043 U
Aroclor-1254	11097-69-1	NC	0.051 U	0.042 U	0.039 U	0.051 U	0.039 U	0.037 U	0.041 U	0.037 U	0.043 U
Aroclor-1260	11096-82-5	NC	0.051 U	0.042 U	0.039 U	0.051 U	0.039 U	0.037 U	0.041 U	0.037 U	0.043 U
PCB-1262	37324-23-5	NC	0.051 U	0.042 U	0.039 U	0.051 U	0.039 U	0.037 U	0.041 U	0.037 U	0.043 U
Total PCBs	1336-36-3	0.1	0.051 U	0.042 U	0.039 U	0.051 U	0.039 U	0.037 U	0.041 U	0.037 U	0.043 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9D - Subsurface Soil Results Compared to Unrestricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SB-113	SB-113[BB]	SB-113	SB-114	SB-116	SB-117	SB-117	SB-118
	Sample ID	DUP-002-031416	SB-113-1-2-031416	SB-113-4.5-6.5-031416	SB-114-2-2.5-030216	SB-116-5.7-6.5-030216	DUP-003-030216	SB-117-5.9-7-030216	SB-118-7-7.4-030216
	Sample Date	3/14/2016	3/14/2016	3/14/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016	3/2/2016
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	2130903	2130903	2130903	2127346	2127346	2127346	2127346	2127346
	Start Depth	4.5	1	4.5	2	5.7	5.9	5.9	7
	End Depth	6.5	2	6.5	2.5	6.5	7	7	7.4
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]							
PCBs									
Aroclor 1268	11100-14-4	NC	0.04 U	0.04 U	0.053 U	0.036 U	0.042 U	0.043 U	0.044 U	0.039 U
Aroclor-1016	12674-11-2	NC	0.04 U	0.04 U	0.053 U	0.036 U	0.042 U	0.043 U	0.044 U	0.039 U
Aroclor-1221	11104-28-2	NC	0.04 U	0.04 U	0.053 U	0.036 U	0.042 U	0.043 U	0.044 U	0.039 U
Aroclor-1232	11141-16-5	NC	0.04 U	0.04 U	0.053 U	0.036 U	0.042 U	0.043 U	0.044 U	0.039 U
Aroclor-1242	53469-21-9	NC	0.04 U	0.04 U	0.053 U	0.036 U	0.042 U	0.043 U	0.044 U	0.039 U
Aroclor-1248	12672-29-6	NC	0.04 U	0.04 U	0.053 U	0.036 U	0.042 U	0.043 U	0.044 U	0.039 U
Aroclor-1254	11097-69-1	NC	0.04 U	0.04 U	0.053 U	0.036 U	0.042 U	0.043 U	0.044 U	0.039 U
Aroclor-1260	11096-82-5	NC	0.04 U	0.04 U	0.053 U	0.036 U	0.042 U	0.043 U	0.044 U	0.039 U
PCB-1262	37324-23-5	NC	0.04 U	0.04 U	0.053 U	0.036 U	0.042 U	0.043 U	0.044 U	0.039 U
Total PCBs	1336-36-3	0.1	0.04 U	0.04 U	0.053 U	0.036 U	0.042 U	0.043 U	0.044 U	0.039 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9D - Subsurface Soil Results Compared to Unrestricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SB-119	SB-120	SB-121	SB-122	SB-123	SB-125	SB-126	SB-128	SB-129
	Sample ID	SB-119-4.5-6-031116	SB-120-6.5-7.4-031416	SB-121-2-2.5-031416	SB-122-7-8-022916	SB-123-6-7-031416	SB-125-5-7-031416	SB-126-1.5-2-031516	SB-128-6-6.5-031516	SB-129-4.6-6.6-031516
	Sample Date	3/11/2016	3/14/2016	3/14/2016	2/29/2016	3/14/2016	3/14/2016	3/15/2016	3/15/2016	3/15/2016
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	2130903	2130903	2130903	2127346	2130903	2130903	2130900	2130900	2130900
	Start Depth	4.5	6.5	2	7	6	5	1.5	6	4.6
	End Depth	6	7.4	2.5	8	7	7	2	6.5	6.6
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]								
PCBs										
Aroclor 1268	11100-14-4	NC	0.04 U	0.049 U	0.042 U	0.038 U	0.038 U	0.04 U	0.038 U	0.049 U	0.04 U
Aroclor-1016	12674-11-2	NC	0.04 U	0.049 U	0.042 U	0.038 U	0.038 U	0.04 U	0.038 U	0.049 U	0.04 U
Aroclor-1221	11104-28-2	NC	0.04 U	0.049 U	0.042 U	0.038 U	0.038 U	0.04 U	0.038 U	0.049 U	0.04 U
Aroclor-1232	11141-16-5	NC	0.04 U	0.049 U	0.042 U	0.038 U	0.038 U	0.04 U	0.038 U	0.049 U	0.04 U
Aroclor-1242	53469-21-9	NC	0.04 U	0.049 U	0.042 U	0.038 U	0.038 U	0.04 U	0.038 U	0.049 U	0.04 U
Aroclor-1248	12672-29-6	NC	0.04 U	0.049 U	0.042 U	0.038 U	0.038 U	0.04 U	0.038 U	0.049 U	0.04 U
Aroclor-1254	11097-69-1	NC	0.04 U	0.049 U	0.042 U	0.038 U	0.038 U	0.04 U	0.016 J	0.049 U	0.04 U
Aroclor-1260	11096-82-5	NC	0.04 U	0.049 U	0.042 U	0.038 U	0.038 U	0.04 U	0.038 U	0.049 U	0.04 U
PCB-1262	37324-23-5	NC	0.04 U	0.049 U	0.042 U	0.038 U	0.038 U	0.04 U	0.038 U	0.049 U	0.04 U
Total PCBs	1336-36-3	0.1	0.04 U	0.049 U	0.042 U	0.038 U	0.038 U	0.04 U	0.016J	0.049 U	0.04 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9D - Subsurface Soil Results Compared to Unrestricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-130	SB-131	SB-132	SB-133	SB-134	SB-135	SB-136	SB-137	SB-138
		Sample ID	SB-130-4-4.5-042216	SB-131-8-10-031116	SB-132-4.5-5-041516	SB-133-4.5-5-041416	SB-134-10-11-031516	SB-135-8-9-041516	SB-136-5-7-031116	SB-137-6-8-031116	SB-138-4-4.8-030116
		Sample Date	4/22/2016	3/11/2016	4/15/2016	4/14/2016	3/15/2016	4/15/2016	3/11/2016	3/11/2016	3/1/2016
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Lab SDG	2139069	2130903	2140071	2139069	2130900	2139069	2130903	2130903	2127346
		Start Depth	4	8	4.5	4.5	10	8	5	6	4
		End Depth	4.5	10	5	5	11	9	7	8	4.8
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]									
PCBs											
Aroclor 1268	11100-14-4	NC	NA	0.039 U	0.04 U	NA	0.039 U	NA	0.039 U	0.04 U	0.039 U
Aroclor-1016	12674-11-2	NC	0.062 U	0.039 U	0.04 U	0.074 U	0.039 U	0.049 U	0.039 U	0.04 U	0.039 U
Aroclor-1221	11104-28-2	NC	0.062 U	0.039 U	0.04 U	0.074 U	0.039 U	0.049 U	0.039 U	0.04 U	0.039 U
Aroclor-1232	11141-16-5	NC	0.062 U	0.039 U	0.04 U	0.074 U	0.039 U	0.049 U	0.039 U	0.04 U	0.039 U
Aroclor-1242	53469-21-9	NC	0.062 U	0.039 U	0.04 U	0.074 U	0.039 U	0.049 U	0.039 U	0.04 U	0.039 U
Aroclor-1248	12672-29-6	NC	0.062 U	0.039 U	0.04 U	0.074 U	0.039 U	0.049 U	0.039 U	0.04 U	0.039 U
Aroclor-1254	11097-69-1	NC	0.062 U	0.039 U	0.04 U	0.074 U	0.039 U	0.049 U	0.039 U	0.04 U	0.039 U
Aroclor-1260	11096-82-5	NC	0.025 J	0.039 U	0.04 U	0.074 U	0.039 U	0.049 U	0.039 U	0.04 U	0.039 U
PCB-1262	37324-23-5	NC	NA	0.039 U	0.04 U	NA	0.039 U	NA	0.039 U	0.04 U	0.039 U
Total PCBs	1336-36-3	0.1	0.025 J	0.039 U	0.04 U	0.074 U	0.039 U	0.049 U	0.039 U	0.04 U	0.039 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9D - Subsurface Soil Results Compared to Unrestricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-139	SB-141	SB-142	SB-143[BB]	SB-144	SB-145	SB-147	SB-148
		Sample ID	SB-139-8-9.7-030116	SB-141-7-8-030116	SB-142-11-12-030116	SB-143-3-4-030116	SB-144-1-1.8-030116	SB-145-25.4-26.1-030916	SB-147-10-11.4-042216	SB-148-8-9.2-040616
		Sample Date	3/1/2016	3/1/2016	3/1/2016	3/1/2016	3/1/2016	3/9/2016	4/22/2016	4/7/2016
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Lab SDG	2127346	2127346	2127346	2127346	2127346	2130254	2139069	2136537
		Start Depth	8	7	11	3	1	25.4	10	8
		End Depth	9.7	8	12	4	1.8	26.1	11	9.2
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]								
PCBs										
Aroclor 1268	11100-14-4	NC	0.039 U	0.038 U	0.04 U	0.043 U	0.039 U	0.043 U	NA	0.043 UJ
Aroclor-1016	12674-11-2	NC	0.039 U	0.038 U	0.04 U	0.043 U	0.039 U	0.043 U	0.045 U	0.043 UJ
Aroclor-1221	11104-28-2	NC	0.039 U	0.038 U	0.04 U	0.043 U	0.039 U	0.043 U	0.045 U	0.043 UJ
Aroclor-1232	11141-16-5	NC	0.039 U	0.038 U	0.04 U	0.043 U	0.039 U	0.043 U	0.045 U	0.043 UJ
Aroclor-1242	53469-21-9	NC	0.039 U	0.038 U	0.04 U	0.043 U	0.039 U	0.043 U	0.045 U	0.043 UJ
Aroclor-1248	12672-29-6	NC	0.039 U	0.038 U	0.04 U	0.043 U	0.039 U	0.043 U	0.045 U	0.043 UJ
Aroclor-1254	11097-69-1	NC	0.039 U	0.038 U	0.04 U	0.043 U	0.039 U	0.043 U	0.045 U	0.043 UJ
Aroclor-1260	11096-82-5	NC	0.039 U	0.038 U	0.04 U	0.043 U	0.039 U	0.043 U	0.023 J	0.043 UJ
PCB-1262	37324-23-5	NC	0.039 U	0.038 U	0.04 U	0.043 U	0.039 U	0.043 U	NA	0.043 UJ
Total PCBs	1336-36-3	0.1	0.039 U	0.038 U	0.04 U	0.043 U	0.039 U	0.043 U	0.23 J	0.043 UJ

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9D - Subsurface Soil Results Compared to Unrestricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SB-150	SB-152	SB-154	SB-155	SB-156	SB-158	SB-159	SB-160
	Sample ID	SB-150-3-4-022916	SB-152-6-7-030316	SB-154-15-17-030316	SB-155-2-3-031016	SB-156-16-17-030916	SB-158-16-17.5-030816	SB-159-17-18-030916	SB-160-4-5-030916
	Sample Date	2/29/2016	3/3/2016	3/3/2016	3/10/2016	3/9/2016	3/8/2016	3/9/2016	3/9/2016
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	2127346	2129473	2129473	2130254	2130254	2130254	2130254	2130254
	Start Depth	3	6	15	2	16	16	17	4
	End Depth	4	7	17	3	17	17.5	18	5
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]							
PCBs									
Aroclor 1268	11100-14-4	NC	0.041 U	0.038 U	0.04 U	NA	0.034 U	0.035 U	0.04 U	0.037 U
Aroclor-1016	12674-11-2	NC	0.041 U	0.038 U	0.04 U	0.041 U	0.034 U	0.035 U	0.04 U	0.037 U
Aroclor-1221	11104-28-2	NC	0.041 U	0.038 U	0.04 U	0.041 U	0.034 U	0.035 U	0.04 U	0.037 U
Aroclor-1232	11141-16-5	NC	0.041 U	0.038 U	0.04 U	0.041 U	0.034 U	0.035 U	0.04 U	0.037 U
Aroclor-1242	53469-21-9	NC	0.041 U	0.038 U	0.04 U	0.041 U	0.034 U	0.035 U	0.04 U	0.037 U
Aroclor-1248	12672-29-6	NC	0.041 U	0.038 U	0.04 U	0.041 U	0.034 U	0.035 U	0.04 U	0.037 U
Aroclor-1254	11097-69-1	NC	0.041 U	0.038 U	0.04 U	0.041 U	0.034 U	0.035 U	0.04 U	0.037 U
Aroclor-1260	11096-82-5	NC	0.041 U	0.038 U	0.04 U	0.041 U	0.034 U	0.035 U	0.04 U	0.037 U
PCB-1262	37324-23-5	NC	0.041 U	0.038 U	0.04 U	NA	0.034 U	0.035 U	0.04 U	0.037 U
Total PCBs	1336-36-3	0.1	NA	0.038 U	0.04 U	0.041 U	0.034 U	0.035 U	0.04 U	0.037 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9D - Subsurface Soil Results Compared to Unrestricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SB-161	SB-163	SB-166	SB-167	SB-171	SB-172	SB-173	SB-174
	Sample ID	SB-161-24-26-030816	SB-163-13.5-16-030816	SB-166-13-15-030816	SB-167-18-19-030716	SB-171-15-16-022916	SB-172-8.8-9.6-082217	SB-173-12-15-082117	SB-174-12.5-15-082117
	Sample Date	3/8/2016	3/8/2016	3/8/2016	3/7/2016	2/29/2016	8/22/2017	8/21/2017	8/21/2017
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	2130254	2130254	2130254	2129473	2127346	2258101	2258101	2258101
	Start Depth	24	13.5	13	18	15	8.8	12	12.5
	End Depth	26	16	15	19	16	9.6	15	15
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]							
PCBs									
Aroclor 1268	11100-14-4	NC	0.036 U	0.039 U	0.04 U	0.04 U	0.039 U	0.036 U	0.038 U	0.043 U
Aroclor-1016	12674-11-2	NC	0.036 U	0.039 U	0.04 U	0.04 U	0.039 U	0.036 U	0.038 U	0.043 U
Aroclor-1221	11104-28-2	NC	0.036 U	0.039 U	0.04 U	0.04 U	0.039 U	0.036 U	0.038 U	0.043 U
Aroclor-1232	11141-16-5	NC	0.036 U	0.039 U	0.04 U	0.04 U	0.039 U	0.036 U	0.038 U	0.043 U
Aroclor-1242	53469-21-9	NC	0.036 U	0.039 U	0.04 U	0.04 U	0.039 U	0.036 U	0.038 U	0.043 U
Aroclor-1248	12672-29-6	NC	0.036 U	0.039 U	0.04 U	0.04 U	0.039 U	0.036 U	0.038 U	0.043 U
Aroclor-1254	11097-69-1	NC	0.036 U	0.039 U	0.04 U	0.04 U	0.039 U	0.036 U	0.038 U	0.043 U
Aroclor-1260	11096-82-5	NC	0.036 U	0.039 U	0.04 U	0.04 U	0.039 U	0.036 U	0.038 U	0.043 U
PCB-1262	37324-23-5	NC	0.036 U	0.039 U	0.04 U	0.04 U	0.039 U	0.036 U	0.038 U	0.043 U
Total PCBs	1336-36-3	0.1	0.036 U	0.039 U	0.04 U	0.04 U	NA	0.036 U	0.038 U	0.043 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9D - Subsurface Soil Results Compared to Unrestricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SB-176	SB-179	SB-180	SB-TP-131	SB-TP-139[BB]	SB-TP-139[BB]	SB-TP-144	SB-TP-147
	Sample ID	SB-176-6-7-041216	SB-179-6.2-7-030416	SB-180-14-14.7-030416	SB-TP-131-5-7-031516	DUP-001-030716	SB-TP-139-12-14-030716	SB-TP-144-4-6-030916	SB-TP-147-16-18-031016
	Sample Date	4/12/2016	3/4/2016	3/4/2016	3/15/2016	3/7/2016	3/7/2016	3/9/2016	3/10/2016
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	2136537	2129473	2129473	2130900	2129473	2129473	2130254	2130254
	Start Depth	6	6.2	14	5	12	12	4	16
	End Depth	7	7	14.7	7	14	14	6	18
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]							
PCBs									
Aroclor 1268	11100-14-4	NC	0.04 U	0.045 U	0.04 U	0.042 U	0.04 UJ	0.038 U	0.037	0.034 U
Aroclor-1016	12674-11-2	NC	0.04 U	0.045 U	0.04 U	0.042 U	0.04 UJ	0.038 U	0.037 U	0.034 U
Aroclor-1221	11104-28-2	NC	0.04 U	0.045 U	0.04 U	0.042 U	0.04 UJ	0.038 U	0.037 U	0.034 U
Aroclor-1232	11141-16-5	NC	0.04 U	0.045 U	0.04 U	0.042 U	0.04 UJ	0.038 U	0.037 U	0.034 U
Aroclor-1242	53469-21-9	NC	0.04 U	0.045 U	0.04 U	0.042 U	0.04 UJ	0.038 U	0.037 U	0.034 U
Aroclor-1248	12672-29-6	NC	0.04 U	0.045 U	0.04 U	0.042 U	0.04 UJ	0.038 U	0.037 U	0.034 U
Aroclor-1254	11097-69-1	NC	0.04 U	0.045 U	0.04 U	0.042 U	0.04 UJ	0.038 U	0.037 U	0.034 U
Aroclor-1260	11096-82-5	NC	0.04 U	0.045 U	0.04 U	0.042 U	0.04 UJ	0.038 U	0.037 U	0.034 U
PCB-1262	37324-23-5	NC	0.04 U	0.045 U	0.04 U	0.042 U	0.04 UJ	0.038 U	0.037	0.034 U
Total PCBs	1336-36-3	0.1	0.04 U	0.045 U	0.04 U	0.042 U	0.04 UJ	0.038 U	0.074	0.034 U

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9D - Subsurface Soil Results Compared to Unrestricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	TP-100	TP-103	TP-103	TP-104	TP-105	TP-107	TP-108	TP-109[BB]	TP-112
		Sample ID	TP-100-2-4-012116	DUP-008-012116	TP-103-0-2-012116	TP-104-0-2-012216	TP-105-4.5-6.5-012216	TP-107-0-2-012216	TP-108-0-1.5-012516	TP-109-4-4.5-012516	TP-112-3.5-4-012516
		Sample Date	1/21/2016	1/21/2016	1/21/2016	1/22/2016	1/22/2016	1/22/2016	1/25/2016	1/25/2016	1/25/2016
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Lab SDG	R1600468	R1600468	R1600468	R1600468	R1600468	R1600468	R1600634	R1600634	R1600634
		Start Depth	2	0	0	0	4.5	0	0	4	3.5
		End Depth	4	2	2	2	6.5	2	1.5	4.5	4
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]									
PCBs											
Aroclor 1268	11100-14-4	NC	0.045 U	0.037 U	0.036 U	0.042 U	0.047 U	0.043 U	0.042 U	0.042 U	0.043 U
Aroclor-1016	12674-11-2	NC	0.045 U	0.037 U	0.036 U	0.042 U	0.047 U	0.043 U	0.042 U	0.042 U	0.043 U
Aroclor-1221	11104-28-2	NC	0.091 U	0.075 U	0.074 U	0.086 U	0.095 U	0.088 U	0.085 U	0.084 U	0.087 U
Aroclor-1232	11141-16-5	NC	0.045 U	0.037 U	0.036 U	0.042 U	0.047 U	0.043 U	0.042 U	0.042 U	0.043 U
Aroclor-1242	53469-21-9	NC	0.045 U	0.037 U	0.036 U	0.042 U	0.047 U	0.043 U	0.042 U	0.042 U	0.043 U
Aroclor-1248	12672-29-6	NC	0.045 U	0.037 U	0.036 U	0.042 U	0.047 U	0.043 U	0.042 U	0.042 U	0.043 U
Aroclor-1254	11097-69-1	NC	0.045 U	0.037 U	0.036 U	0.042 U	0.047 U	0.043 U	0.042 U	0.042 U	0.043 U
Aroclor-1260	11096-82-5	NC	0.045 U	0.037 U	0.036 U	0.042 U	0.047 U	0.056	0.042 U	0.042 U	0.043 U
PCB-1262	37324-23-5	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	1336-36-3	0.1	ND	ND	ND	ND	ND	0.056	ND	ND	ND

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9D - Subsurface Soil Results Compared to Unrestricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	TP-113	TP-114	TP-116	TP-117	TP-119	TP-120	TP-120	TP-122	TP-123
		Sample ID	TP-113-1.5-2-012516	TP-114-4-5-012616	TP-116-7-8-011516	TP-117-1.5-2-011516	TP-119-5-6-012616	DUP-009-012616	TP-120-4-4.5-012616	TP-122-7-8-012716	TP-123-4.5-5-012616
		Sample Date	1/25/2016	1/26/2016	1/15/2016	1/15/2016	1/26/2016	1/26/2016	1/26/2016	1/27/2016	1/26/2016
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Lab SDG	R1600634	R1600634	R1600468	R1600468	R1600634	R1600634	R1600634	R1600634	R1600634
		Start Depth	1.5	4	7	1.5	5	4	4	7	4.5
		End Depth	2	5	8	2	6	4.5	4.5	8	5
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]									
PCBs											
Aroclor 1268	11100-14-4	NC	0.036 U	0.049U	0.040 U	0.041 U	0.049 U	0.041 U	0.041 U	0.042 U	0.040 U
Aroclor-1016	12674-11-2	NC	0.036 U	0.049U	0.040 U	0.041 U	0.049 U	0.041 U	0.041 U	0.042 U	0.040 U
Aroclor-1221	11104-28-2	NC	0.073 U	0.099 U	0.082 U	0.083 U	0.100 U	0.084 U	0.083 U	0.084 U	0.082 U
Aroclor-1232	11141-16-5	NC	0.036 U	0.049U	0.040 U	0.041 U	0.049 U	0.041 U	0.041 U	0.042 U	0.040 U
Aroclor-1242	53469-21-9	NC	0.036 U	0.049U	0.040 U	0.041 U	0.049 U	0.041 U	0.041 U	0.042 U	0.040 U
Aroclor-1248	12672-29-6	NC	0.036 U	0.049U	0.040 U	0.041 U	0.049 U	0.041 U	0.041 U	0.042 U	0.040 U
Aroclor-1254	11097-69-1	NC	0.036 U	0.049U	0.040 U	0.041 U	0.049 U	0.041 U	0.041 U	0.042 U	0.040 U
Aroclor-1260	11096-82-5	NC	0.036 U	0.049U	0.040 U	0.041 U	0.049 U	0.041 U	0.041 U	0.042 U	0.040 U
PCB-1262	37324-23-5	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	1336-36-3	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9D - Subsurface Soil Results Compared to Unrestricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	TP-124	TP-126	TP-127	TP-129	TP-129	TP-130	TP-132	TP-135	TP-137
	Sample ID	TP-124-7.5-8-012616	TP-126-2-3-012716	TP-127-8-8.5-012716	DUP-010-012816	TP-129-4-4.5-012816	TP-130-9.5-10-012816	TP-132-3-3.5-012816	TP-135-2-3-012916	TP-137-9.5-10-012916
	Sample Date	1/26/2016	1/27/2016	1/27/2016	1/28/2016	1/28/2016	1/28/2016	1/28/2016	1/29/2016	1/29/2016
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	R1600634	R1600634	R1600634	R1600810	R1600810	R1600810	R1600810	R1600810	R1600810
	Start Depth	7.5	2	8	4	4	9.5	3	2	9.5
	End Depth	8	3	8.5	4.5	4.5	10	3.5	3	10
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]								
PCBs										
Aroclor 1268	11100-14-4	NC	0.041 U	0.048 U	0.057 U	0.044 U	0.045 U	0.044 U	0.040 U	0.040 U	0.041 U
Aroclor-1016	12674-11-2	NC	0.041 U	0.048 U	0.057 U	0.044 U	0.045 U	0.044 U	0.040 U	0.040 U	0.041 U
Aroclor-1221	11104-28-2	NC	0.084 U	0.098 U	0.120 U	0.089 U	0.091 U	0.090 U	0.082 U	0.081 U	0.083 U
Aroclor-1232	11141-16-5	NC	0.041 U	0.048 U	0.057 U	0.044 U	0.045 U	0.044 U	0.040 U	0.040 U	0.041 U
Aroclor-1242	53469-21-9	NC	0.041 U	0.048 U	0.057 U	0.044 U	0.045 U	0.044 U	0.040 U	0.040 U	0.041 U
Aroclor-1248	12672-29-6	NC	0.041 U	0.048 U	0.057 U	0.044 U	0.045 U	0.044 U	0.040 U	0.040 U	0.041 U
Aroclor-1254	11097-69-1	NC	0.041 U	0.048 U	0.057 U	0.044 U	0.045 U	0.044 U	0.040 U	0.040 U	0.041 U
Aroclor-1260	11096-82-5	NC	0.041 U	0.048 U	0.057 U	0.044 U	0.045 U	0.044 U	0.023 J	0.040 U	0.041 U
PCB-1262	37324-23-5	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	1336-36-3	0.1	ND	ND	ND	ND	ND	ND	0.023 J	ND	ND

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9D - Subsurface Soil Results Compared to Unrestricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	TP-138	TP-140[BB]	TP-141	TP-142	TP-143	TP-148	TP-149[BB]	TP-150[BB]	TP-151
	Sample ID	TP-138-5-6-011516	TP-140-2.5-3-011416	TP-141-4-5-011416	TP-142-0-1-011516	TP-143-4-6.5-011416	TP-148-2-2.5-012516	TP-149-6-8-011416	TP-150-4-6-011316	TP-151-2-4-011316
	Sample Date	1/15/2016	1/14/2016	1/14/2016	1/15/2016	1/14/2016	1/25/2016	1/14/2016	1/13/2016	1/13/2016
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	R1600468	R1600423	R1600423	R1600468	R1600423	R1600634	R1600423	R1600375	R1600375
	Start Depth	5	2.5	4	0	4	2	6	4	2
	End Depth	6	3	5	1	6.5	2.5	8	6	4
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]								
PCBs										
Aroclor 1268	11100-14-4	NC	0.040 U	0.045 U	0.038 U	0.041 U	0.057 U	0.040 U	0.046 U	0.044 U	0.038 U
Aroclor-1016	12674-11-2	NC	0.040 U	0.045 U	0.038 U	0.041 U	0.057 U	0.040 U	0.046 U	0.044 U	0.038 U
Aroclor-1221	11104-28-2	NC	0.081 U	0.081 U	0.077 U	0.082 U	0.120 U	0.081 U	0.094 U	0.090 U	0.077 U
Aroclor-1232	11141-16-5	NC	0.040 U	0.045 U	0.038 U	0.041 U	0.057 U	0.040 U	0.046 U	0.044 U	0.038 U
Aroclor-1242	53469-21-9	NC	0.040 U	0.045 U	0.038 U	0.041 U	0.057 U	0.040 U	0.046 U	0.044 U	0.038 U
Aroclor-1248	12672-29-6	NC	0.040 U	0.045 U	0.038 U	0.041 U	0.057 U	0.040 U	0.046 U	0.044 U	0.038 U
Aroclor-1254	11097-69-1	NC	0.040 U	0.045 U	0.038 U	0.041 U	0.057 U	0.040 U	0.046 U	0.044 U	0.038 U
Aroclor-1260	11096-82-5	NC	0.040 U	0.045 U	0.038 U	0.041 U	0.057 U	0.040 U	0.046 U	0.044 U	0.038 U
PCB-1262	37324-23-5	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	1336-36-3	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9D - Subsurface Soil Results Compared to Unrestricted SCOs
PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	TP-152
		Sample ID	TP-152-2.5-3-012916
		Sample Date	1/29/2016
		Unit	mg/kg
		Lab SDG	R1600810
		Start Depth	2.5
		End Depth	3
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]	
PCBs			
Aroclor 1268	11100-14-4	NC	0.042 U
Aroclor-1016	12674-11-2	NC	0.042 U
Aroclor-1221	11104-28-2	NC	0.085 U
Aroclor-1232	11141-16-5	NC	0.042 U
Aroclor-1242	53469-21-9	NC	0.042 U
Aroclor-1248	12672-29-6	NC	0.042 U
Aroclor-1254	11097-69-1	NC	0.042 U
Aroclor-1260	11096-82-5	NC	0.042 U
PCB-1262	37324-23-5	NC	NA
Total PCBs	1336-36-3	0.1	ND

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample

T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9E - Subsurface Soil Results Compared to Unrestricted SCOs
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	OVR-100	OVR-107	OVR-108	OVR-109	OVR-109	OVR-116	OVR-117	OVR-118
	Sample ID	OVR-100-6-7-04222016	OVR-107-10-11-041216	OVR-108-4.1-5.4-041316	DUP-004-041116	OVR-109-10-11.8-041116	OVR-116-10-11.9-040116	OVR-117-7-7.6-040716	OVR-118-0.5-1-041316
	Sample Date	4/22/2016	4/12/2016	4/13/2016	4/11/2016	4/11/2016	4/1/2016	4/7/2016	4/13/2016
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	R1603557	R1603190	R1603557	R1603190	R1603190	R1603031	R1603190	R1603557
	Start Depth	6	10	4.1	10	10	10	7	0.5
	End Depth	7	11	5.4	11.8	11.8	11.9	7.6	1
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]							
Inorganics									
Aluminum	7429-90-5	NC	8,060 J	8,080	14,900 J	5,630	6,760	6,330	12,900	6,950 J
Antimony	7440-36-0	NC	7.8 UJ	7.3 UJ	7.8 UJ	7.6 UJ	7.2 UJ	7.1 U	6.7 UJ	0.614 J
Arsenic	7440-38-2	13	12.2 J	5.8	6.3	7	4.9	4.6	46.6	12 J
Barium	7440-39-3	350	110	49.8	135	36.1	39.8	43.6	55.7	51.9
Beryllium	7440-41-7	7.2	0.689	0.374	0.828	0.28 J	0.347 J	0.331 J	0.156 J	0.58
Cadmium	7440-43-9	2.5	0.442 J	0.29 J	0.686	0.191 J	0.359 J	0.591 U	0.111 J	1.2
Calcium	7440-70-2	NC	15,400 J	4,970	3,290	1,350	1,960	1,960	1,280	41,200 J
Chromium	7440-47-3	1*	14.5	13.6	20.7	9.7	11.7	9.9	9.8	7
Cobalt	7440-48-4	NC	9.4	8.8	10.8	5.6 J	8.9	7.7	2.6 J	32.7
Copper	7440-50-8	50	55.9 J	16.7	14.9 J	10.7	14.9	11.7	6.6	88.2 J
Cyanide	57-12-5	27	0.12 U	0.04 J	0.13 U	0.02 J	0.1 U	0.11 U	0.083 J	0.11 U
Iron	7439-89-6	NC	23,200	21,200	34,800	16,200	17,800	15,400	13,200	17,600
Lead	7439-92-1	63	114 J	9.8	13.9 J	6.5	9.2	8.9	36.8	147 J
Magnesium	7439-95-4	NC	6,850	4,320	4,070	1,990	2,470	2,590	1,030	19,100
Manganese	7439-96-5	1,600	253 J	173	183 J	188	404	150	85.7	358
Mercury	7439-97-6	0.18	0.768	0.01 J	0.032 J+	0.007 J	0.014 J	0.013 J	0.131	0.362 J+
Nickel	7440-02-0	30	20.4	18	24.5	14.4	18.4	15.7	1.1 J	54.7
Potassium	7440-09-7	NC	1,350 J	936	1,060 J	731	801	809	3,350	785 J
Selenium	7782-49-2	3.9	1.4 J	1.2 U	1.3 UJ	1.3 U	1.2 U	1.2 U	1.1 U	0.888 J
Silver	7440-22-4	2	0.208 J	1.2 U	1.3 U	1.3 U	1.2 U	1.2 U	1.1 U	0.262 J
Sodium	7440-23-5	NC	162	121 U	40.3 J	33.8 J	36.4 J	33.8 J	69.8 J	99 J
Thallium	7440-28-0	NC	1.3 U	1.2 U	1.3 U	1.3 U	1.2 U	1.2 U	1.1 U	1.1 U
Vanadium	7440-62-2	NC	21.1	13.3	29.3	10.2	12.3	14.6	13.3	12.7
Zinc	7440-66-6	109	125 J	54.2	60.6 J	40.8	47.7	42.9	24.4	366 J

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
*- Chromium criteria is haxavalent chromium to be conservative. Results are Total Chromium.
[BB] = Sample locations where "bone black" or "activated carbon" type material was analyzed.
Exceeds Unrestricted SCO listed in Part 375.

Table 9E - Subsurface Soil Results Compared to Unrestricted SC
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SB-100	SB-101	SB-103	SB-104	SB-105	SB-106	SB-107	SB-108
	Sample ID	SB-100-9-10-031016	SB-101-12.5-14-031016	SB-103-4.8-5.8-030416	SB-104-12-13-030316	SB-105-11-12-031016	SB-106-5-6-030316	SB-107-6-7-030316	SB-108-5.8-6.4-030316
	Sample Date	3/10/2016	3/10/2016	3/4/2016	3/3/2016	3/10/2016	3/3/2016	3/3/2016	3/3/2016
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	R1602058	R1602058	R1601955	R1601955	R1602058	R1601955	R1601955	R1601955
	Start Depth	9	12.5	4.8	12	11	5	6	5.8
	End Depth	10	14	5.8	13	12	6	7	6.4
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]							
Inorganics									
Aluminum	7429-90-5	NC	6,270	6,740	7,650	5,170	13,600	7,170	6,670	6,880
Antimony	7440-36-0	NC	8.9 UJ	7.9 UJ	7.6 UJ	7.3 UJ	10.2 UJ	7.4 UJ	7.2 UJ	7.5 UJ
Arsenic	7440-38-2	13	12.5	3.8	58.3	3.5	85.4	8.9	3	5.1
Barium	7440-39-3	350	138	50.1	130	31.7	87.5	49.8	48	49.2
Beryllium	7440-41-7	7.2	0.665	0.324 J	0.758	0.257 J	0.69	0.356 J	0.25 J	0.326 J
Cadmium	7440-43-9	2.5	0.744 U	0.658 U	0.467 J	0.11 J	0.755 J	0.27 J	0.072 J	0.188 J
Calcium	7440-70-2	NC	17,600	35,300	12,700	1,250	25,600	56,300	2,520	14,600
Chromium	7440-47-3	1*	12.8	9.8	21.8	7.5	20.5	14.3	9.6	8.8
Cobalt	7440-48-4	NC	7 J	5.4 J	17.2	5.2 J	24.3	4 J	3.5 J	5.8 J
Copper	7440-50-8	50	50.8	10.1	107	12.3	41.5	25.8	12.1	13.1
Cyanide	57-12-5	27	0.13 U	0.08 J	0.22	0.11 U	0.11 J	0.19	0.04 J	0.08 J
Iron	7439-89-6	NC	10,400	18,000	40,200	14,700	91,100	14,000	13,500	16,200
Lead	7439-92-1	63	685	23.5	120 J	7.2 J	8.5 U	31.3 J	9.5 J	29.9 J
Magnesium	7439-95-4	NC	7,100	4,080	6,920	1,630	6,450	13,300	1,740	7,560
Manganese	7439-96-5	1,600	201	180	244	129	547	291	82.6	222
Mercury	7439-97-6	0.18	1.2	0.073	0.31	0.038 U	0.069	2.4	0.014 J	0.495
Nickel	7440-02-0	30	15.9	11.7	25.6	13.6	6.8 U	9.4	8.3	10.8
Potassium	7440-09-7	NC	754	921	1190 J	780 J	1,820	1080 J	1030 J	822 J
Selenium	7782-49-2	3.9	5.1	1.3 U	1.4	1.2 U	17 U	1.2 U	1.2 U	1.3 U
Silver	7440-22-4	2	2.8	13 U	0.24 J	1.2 U	1.7 U	0.172 J	0.06 J	0.088 J
Sodium	7440-23-5	NC	219	95.3 J	209	40.2 J	132 J	213	58.4 J	52.5 J
Thallium	7440-28-0	NC	1.5 U	1.3 U	1.3 U	1.2 U	16.9 U	0.859 J	1.2 U	1.3 U
Vanadium	7440-62-2	NC	23.6	11.9	27.4	10.5	27.6	20.3	14.6	13.7
Zinc	7440-66-6	109	430	52.5	120 J	33.7 J	89.6	61.2 J	39.3 J	70.5 J

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
*- Chromium criteria is haxavalent chromium to be conservative. Results are Total Chromium.
[BB] = Sample locations where "bone black" or "activated carbon" type material was a
Exceeds Unrestricted SCO listed in Part 375.

Table 9E - Subsurface Soil Results Compared to Unrestricted SC
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SB-109	SB-111	SB-112	SB-113	SB-113[BB]	SB-113	SB-114	SB-115
	Sample ID	SB-109-8-9-030216	SB-111-6-7-031016	SB-112-0.5-2.0-082217	DUP-002-031416	SB-113-1-2-031416	SB-113-4.5-6.5-031416	SB-114-2-2.5-030216	SB-115-5.6-6.7-030216
	Sample Date	3/2/2016	3/10/2016	8/22/2017	3/14/2016	3/14/2016	3/14/2016	3/2/2016	3/2/2016
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	R1601741	R1602058	R1707777	R1602239	R1602239	R1602239	R1601741	R1601741
	Start Depth	8	6	0.5	4.5	1	4.5	2	5.6
	End Depth	9	7	2	6.5	2	6.5	2.5	6.7
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]							
Inorganics									
Aluminum	7429-90-5	NC	7,480	2,340	13,400	13,300	17,200	27,600	5,670	4,160
Antimony	7440-36-0	NC	7.4 UJ	6.6 UN	7.5 U	7.5 UJ	7.3 UJ	10.1 UJ	6.8 UJ	7.4 UJ
Arsenic	7440-38-2	13	8	7.9	11.1	6.9	5.2	46.7	113	8.1
Barium	7440-39-3	350	50.1	31	168	88.8	117	22.4	60.8	80.5
Beryllium	7440-41-7	7.2	0.405	0.139 J	0.673	0.603	0.617	1.2	0.296 J	0.135 J
Cadmium	7440-43-9	2.5	0.27 J	0.554 U	0.623 U	0.201 U	0.605 U	1.1	0.513 J	0.135 J
Calcium	7440-70-2	NC	7,410	25,700	2,800	17400 J	6020 J	18,500 J	3,750	18,300
Chromium	7440-47-3	1*	11.6	4.6	16.7	18.5	22	58.8	13.4	7
Cobalt	7440-48-4	NC	8.5	2.5 J	11.1	9.3	10	12.8	5.1 J	2.5 J
Copper	7440-50-8	50	20.9	4.8	19.1	11.4	13.1	30	30.6	20.2
Cyanide	57-12-5	27	0.03 J	0.097 U	0.06 J	0.05 J	0.05 J	0.71	0.067 J	0.42
Iron	7439-89-6	NC	19,900	8,210	29,700	24,400	28,600	33,300	29,000	9,670
Lead	7439-92-1	63	52.7	55 U	54.9	10.4	9.8	17.2	18.6	47.9
Magnesium	7439-95-4	NC	4,880	8,680	4,030	5,560	5,150 J	25,100 J	2,500	2,450
Manganese	7439-96-5	1,600	412	163	605	333 J	272 J	2,680 N	70.2	116
Mercury	7439-97-6	0.18	0.039	0.004 J	0.046	0.01 J	0.021 J	0.006 J	0.042	0.67
Nickel	7440-02-0	30	20.2	44 U	24.1	19	22.1	29.2	11.9	6
Potassium	7440-09-7	NC	742	497	1,450	1,790	1,700	2,970	804	729
Selenium	7782-49-2	3.9	1.2 U	1.1 U	1.1 J	1.3 U	1.2 U	1.7 U	0.533 J	1.2 U
Silver	7440-22-4	2	0.111 J	0.629 J	1.3 U	0.101 J	0.073 J	0.185 J	0.091 J	0.086 J
Sodium	7440-23-5	NC	38.2 J	113	226	105 J	85.3 J	548	65.3 J	56.8 J
Thallium	7440-28-0	NC	1.2 U	1.1 U	1.3 U	1.3 U	1.2 U	1.7 U	1.1 U	1.2 U
Vanadium	7440-62-2	NC	14.1	8	22.5	26.5	29.8	54.9	18.6	10.5
Zinc	7440-66-6	109	66.1	18.5	88.2	45.7	48.4	135	59.8	84.6

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
*- Chromium criteria is haxavalent chromium to be conservative. Results are Total Chromium.
[BB] = Sample locations where "bone black" or "activated carbon" type material was ai
Exceeds Unrestricted SCO listed in Part 375.

Table 9E - Subsurface Soil Results Compared to Unrestricted SC
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SB-116	SB-117	SB-117	SB-119	SB-121	SB-122	SB-123	SB-125
	Sample ID	SB-116-5.7-6.5-030216	DUP-003-030216	SB-117-5.9-7-030216	SB-119-4.5-6-031116	SB-121-2-2.5-031416	SB-122-7-8-022916	SB-123-6-7-031416	SB-125-5-7-031416
	Sample Date	3/2/2016	3/2/2016	3/2/2016	3/11/2016	3/14/2016	2/29/2016	3/14/2016	3/14/2016
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	R1601741	R1601741	R1601741	R1602239	R1602239	R1601741	R1602239	R1602239
	Start Depth	5.7	5.9	5.9	4.5	2	7	6	5
	End Depth	6.5	7	7	6	2.5	8	7	7
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]							
Inorganics									
Aluminum	7429-90-5	NC	8,420	9,010	8,420	11,600	5,530	8,920	5,590	10,300
Antimony	7440-36-0	NC	8 UJ	8.1 UJ	7.8 UJ	7.1 UJ	7.1 UJ	7.1 UJ	7.1 UJ	7.4 UJ
Arsenic	7440-38-2	13	8.6	6.4	4.4	3.1	19.7	9.3	3.1	8.5
Barium	7440-39-3	350	87	60.4	62	65	67.4	50.6	48.7	80.9
Beryllium	7440-41-7	7.2	0.268 J	0.47	0.429	0.536	0.662	0.473	0.273 J	0.556
Cadmium	7440-43-9	2.5	0.161 J	0.228 J	0.182 J	0.595 U	0.591 U	0.249 J	0.593 U	0.617 U
Calcium	7440-70-2	NC	1,890	4,130	3,950	2470 J	8,480 J	1,560	1,450	1,740 J
Chromium	7440-47-3	1*	12.6	11.6	10.6	16.6	11	13.2	9.2	15.2
Cobalt	7440-48-4	NC	4.8 J	5.1 J	4.9 J	8.7	9.1	8.3	5.7 J	9.4
Copper	7440-50-8	50	12.5	10.7	9.5	17.1	43.3	15.6	10	16.3
Cyanide	57-12-5	27	0.22	0.07 J	0.06 J	0.04 J	0.08 J	0.03 J	0.03 J	0.05 J
Iron	7439-89-6	NC	19,400	14,500	14,200	22,000	51,500	23,900	15,200	26,500
Lead	7439-92-1	63	16.5	13.2	12.1	10.2	82.2	10.6	7.5	12.1
Magnesium	7439-95-4	NC	2,650	3,230	3,040	4,090 J	3,670 J	2,970	2,070	3,320
Manganese	7439-96-5	1,600	144	179	246	218 N	274 N	255	136	188 J
Mercury	7439-97-6	0.18	0.035 J	0.06	0.105	0.015 J	0.14	0.017 J	0.005 J	0.021 J
Nickel	7440-02-0	30	12.3	13.7	12.6	25.1	19.5	20.9	15	21.8
Potassium	7440-09-7	NC	1,050	1,190	952	1,020	759	912	752	973
Selenium	7782-49-2	3.9	0.434 J	1.3 U	1.3 U	1.2 U	1.2 J	1.2 U	1.2 U	1.2 U
Silver	7440-22-4	2	0.094 J	0.067 J	1.3 U	0.071 J	0.224 J	0.083 J	1.2 U	1.2 U
Sodium	7440-23-5	NC	50.5 J	56.3 J	52.9 J	43.2 J	115 J	35 J	48.6 J	46.7 J
Thallium	7440-28-0	NC	1.3 U	1.3 U	1.3 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Vanadium	7440-62-2	NC	18.5	14.5	13.3	16.2	15.6	16.7	11.7	18.3
Zinc	7440-66-6	109	37.1	49.5	44.2	68.3	69.8	47.8	37.7	57.5

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
*- Chromium criteria is haxavalent chromium to be conservative. Results are Total Chromium.
[BB] = Sample locations where "bone black" or "activated carbon" type material was a
Exceeds Unrestricted SCO listed in Part 375.

Table 9E - Subsurface Soil Results Compared to Unrestricted SC
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SB-126	SB-127	SB-129	SB-131	SB-132	SB-133	SB-134	SB-135
	Sample ID	SB-126-1.5-2-031516	SB-127-10-11-031116	SB-129-4.6-6.6-031516	SB-131-8-10-031116	SB-132-4.5-5-041516	SB-133-4.5-5-041416	SB-134-10-11-031516	SB-135-8-9-041516
	Sample Date	3/15/2016	3/11/2016	3/15/2016	3/11/2016	4/15/2016	4/14/2016	3/15/2016	4/15/2016
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	R1602333	R1602239	R1602333	R1602239	R1603557	R1603557	R1602333	R1603557
	Start Depth	1.5	10	4.6	8	4.5	4.5	10	8
	End Depth	2	11	6.6	10	5	5	11	9
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]							
Inorganics									
Aluminum	7429-90-5	NC	5,740	5,620	10,500	7,400	9,050 J	7,360 J	6,510	4,990 J
Antimony	7440-36-0	NC	7.3 UJ	8 UJ	7.4 UJ	7.2 UJ	0.28 J	2 J	7.3 UJ	2.4 J
Arsenic	7440-38-2	13	11.8	3.7	4.9	6.6	7.8 J	377 J	5.5	135 J
Barium	7440-39-3	350	79.7	25.1	82.5	42.5	62.5	174	37.5	159
Beryllium	7440-41-7	7.2	0.402	0.268 J	0.594	0.381	0.462	0.437 J	0.337 J	0.422
Cadmium	7440-43-9	2.5	0.608 U	0.67 U	0.62 U	0.596 U	0.341 J	0.918	0.611 U	0.49 J
Calcium	7440-70-2	NC	37,000 J	5,230 J	9,570 J	3,640 J	7250 J	20,700 J	1440 J	22,500 J
Chromium	7440-47-3	1*	12.1	8.6	15.3	13.9	12.3	21.8	10	13.5
Cobalt	7440-48-4	NC	4.8 J	6 J	9.8	10.5	8.8	12.8	6.9	5.1 J
Copper	7440-50-8	50	31.6	11.8	14.9	16.2	14.3 J	11,300 J	17	161 J
Cyanide	57-12-5	27	0.04 J	0.03 J	0.04 J	0.03 J	0.12 U	0.23	0.02 J	0.11 U
Iron	7439-89-6	NC	15,700	14,600	18,100	23,800	20,200	42,800	16,800	19,000
Lead	7439-92-1	63	127	6.8	29.7	9.6	14.1 J	376 J	8.6	1,080 J
Magnesium	7439-95-4	NC	17,200	4,180 J	3,930	3,270 J	2,900	6,100	2,350	5,680
Manganese	7439-96-5	1,600	246 J	112 N	236 J	581 N	410 J	545 J	237 J	301 J
Mercury	7439-97-6	0.18	0.537	0.045 U	0.016 J	0.012 J	0.019 J	2.6 J+	0.01 J	1.8
Nickel	7440-02-0	30	12.2	14.4	20.1	22	17.9	17.5 U	16.6	10.2
Potassium	7440-09-7	NC	831	813	1,290	834	813 J	923 J	753	625 J
Selenium	7782-49-2	3.9	1.2 U	1.3 U	1.2 U	1.2 U	1.2 UJ	2.2 J	1.2 U	5.7
Silver	7440-22-4	2	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U	0.612 J	1.2 U	0.436 J
Sodium	7440-23-5	NC	110 J	39.6 J	93.9 J	36.6 J	53.1 J	120 J	54.2 J	169
Thallium	7440-28-0	NC	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U	1.5 U	1.2 U	1.4 U
Vanadium	7440-62-2	NC	15.2	10.7	20.2	13.7	16.1	19.4	13.6	18.6
Zinc	7440-66-6	109	181	39.7	88	48.5	64.5 J	226 J	47.7	203 J

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
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U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
*- Chromium criteria is haxavalent chromium to be conservative. Results are Total Chromium.
[BB] = Sample locations where "bone black" or "activated carbon" type material was a
Exceeds Unrestricted SCO listed in Part 375.

Table 9E - Subsurface Soil Results Compared to Unrestricted SC
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-136	SB-137	SB-138	SB-141	SB-142	SB-143[BB]	SB-144	SB-145
		Sample ID	SB-136-5-7-031116	SB-137-6-8-031116	SB-138-4-4.8-030116	SB-141-7-8-030116	SB-142-11-12-030116	SB-143-3-4-030116	SB-144-1-1.8-030116	SB-145-25.4-26.1-030916
		Sample Date	3/11/2016	3/11/2016	3/1/2016	3/1/2016	3/1/2016	3/1/2016	3/1/2016	3/9/2016
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Lab SDG	R1602239	R1602239	R1601741	R1601741	R1601741	R1601741	R1601741	R1602058
		Start Depth	5	6	4	7	11	3	1	25.4
		End Depth	7	8	4.8	8	12	4	1.8	26.1
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]								
Inorganics										
Aluminum	7429-90-5	NC	12,000	9,220	4,370	7,440	8,660	25,600	7,430	3,350
Antimony	7440-36-0	NC	7.1 UJ	7.4 UJ	8 UJ	8.1 UJ	7.4 UJ	8 UJ	7.1 UJ	7.2 UJ
Arsenic	7440-38-2	13	6.3	6.4	4.8	4.5	5	26.7	5.1	8.1
Barium	7440-39-3	350	98.9	49.4	28.4	61.2	58.9	59.3	52.1	13.3
Beryllium	7440-41-7	7.2	0.627	0.456	0.24 J	0.338 J	0.383	1.4	0.389	0.218 J
Cadmium	7440-43-9	2.5	0.591 U	0.616 U	0.507 J	0.189 J	0.222 J	1.4	0.224 J	0.601 U
Calcium	7440-70-2	NC	2,260 J	2,920 J	97,700	28,100	1,640	59,300	3,730	18,500
Chromium	7440-47-3	1*	17.6	13.8	6.6	10.1	12.5	70.2	129	5
Cobalt	7440-48-4	NC	10.3	9.6	4.3 J	4.7 J	17.7	4.7 J	6.4	4.7 J
Copper	7440-50-8	50	16.6	17.5	11.6	11.9	10.7	7.8	22.1	6
Cyanide	57-12-5	27	0.05 J	0.05 J	0.02 J	0.08 J	0.02 J	0.27	0.05 J	0.12 U
Iron	7439-89-6	NC	29,700	22,800	13,200	14,400	23,400	16,800	16,300	9,640
Lead	7439-92-1	63	11.6	11	20.9	9	8.7	16.3	59	6
Magnesium	7439-95-4	NC	3,700 J	3,530 J	48,800	7,760	2,580	25,300	2,490	12,300
Manganese	7439-96-5	1,600	317 N	424 N	689	390	834	365	228	151
Mercury	7439-97-6	0.18	0.019 J	0.012 J	0.023 J	0.028 J	0.012 J	0.017 J	2.6	0.008 J
Nickel	7440-02-0	30	25.1	23.6	8.2	11.8	19.8	14.5	12.8	9.2
Potassium	7440-09-7	NC	858	909	766	1,170	953	3,090	936	629
Selenium	7782-49-2	3.9	1.2 U	1.2 U	0.723 J	1.4 U	0.49 J	0.391 J	1.2 U	1.2 U
Silver	7440-22-4	2	0.083 J	1.2 U	0.24 J	0.068 J	0.062 J	0.24 J	0.118 J	12 U
Sodium	7440-23-5	NC	52.2 J	60 J	193	90.1 J	26 J	638	40.7 J	56 J
Thallium	7440-28-0	NC	1.2 U	1.2 U	13.3 U	1.4 U	12.4 U	1.3 U	1.2 U	1.2 U
Vanadium	7440-62-2	NC	19.4	15.1	11.3	15.8	15.1	61.3	16.8	9.1
Zinc	7440-66-6	109	64.3	58.7	112	41.7	51.3	58.1	69	30.1

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
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[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
*- Chromium criteria is haxavalent chromium to be conservative. Results are Total Chromium.
[BB] = Sample locations where "bone black" or "activated carbon" type material was a
Exceeds Unrestricted SCO listed in Part 375.

Table 9E - Subsurface Soil Results Compared to Unrestricted SC
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SB-146	SB-147	SB-148	SB-149	SB-149[BB]	SB-150	SB-151	SB-152
	Sample ID	SB-146-6-8-030216	SB-147-10-11.4-042216	SB-148-8-9.2-040716	SB-149-10-11-040616	SB-149-4-5-040616	SB-150-3-4-022916	SB-151-16.6-17.2-030316	SB-152-6-7-030316
	Sample Date	3/2/2016	4/22/2016	4/7/2016	4/6/2016	4/6/2016	2/29/2016	3/3/2016	3/3/2016
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	R1601741	R1603557	R1603190	R1603190	R1603190	R1601741	R1601955	R1601955
	Start Depth	6	10	8	10	4	3	16.6	6
	End Depth	8	11	9.2	11	5	4	17.2	7
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]							
Inorganics									
Aluminum	7429-90-5	NC	8,100	5170 J	5,640	8,150	22,600	5,270	2,610	6,590
Antimony	7440-36-0	NC	7.3 UJ	8 UJ	7.4 UJ	7.2 UJ	10 UJ	7.4 UJ	6.7 UJ	8 UJ
Arsenic	7440-38-2	13	7	7.2 J	5	8.9	32.1	15	3	40.2
Barium	7440-39-3	350	42.5	17.8	37.8	46.2	34.2	155	22.5	151
Beryllium	7440-41-7	7.2	0.471	0.254 J	0.335 J	0.408	0.837	0.447	0.1 J	0.398
Cadmium	7440-43-9	2.5	0.193 J	0.267 J	0.186 J	0.18 J	1.2	0.484 J	0.045 J	0.199 J
Calcium	7440-70-2	NC	1,910	1,030 J	1,190	1,320	49,700	12,300	56,200	11,500
Chromium	7440-47-3	1*	12.4	8.6	10.2	17.4	54.7	23.2	3.8	11.8
Cobalt	7440-48-4	NC	6.6	8.2	6.1 J	5.5 J	2.7 J	5.3 J	2.3 J	5 J
Copper	7440-50-8	50	8.7	9.5 J	12.7	16.2	9.8	49.4	6.6	20.7
Cyanide	57-12-5	27	0.03 J	0.11 U	0.07 J	0.1 J	0.33	0.042 J	0.03 J	0.15
Iron	7439-89-6	NC	23,600	12,100	17,000	22,100	14,700	22,000	7,060	28,800
Lead	7439-92-1	63	10.7	7.6 J	9.6	5.9 J	17.1	484	4.5 J	42.7 J
Magnesium	7439-95-4	NC	2,720	2,090	1,970	2,570	28,500	5,160	17,800	3,610
Manganese	7439-96-5	1,600	390	86.8 J	89.5	248	126	221	285	330
Mercury	7439-97-6	0.18	0.011 J	0.044 U	0.006 J	0.035 J	0.018 J	0.791	0.037 U	0.141
Nickel	7440-02-0	30	18.1	16.8	15.5	18	12.7	13.1	3.4 J	14.9
Potassium	7440-09-7	NC	919	853 J	671	592	2,920	1,030	579 J	528 J
Selenium	7782-49-2	3.9	1.2 U	1.3 UJ	1.2 U	1.2 U	1.1 J	0.358 J	0.759 J	1.3 U
Silver	7440-22-4	2	1.2 U	1.3 U	1.2 U	1.2 U	1.7 U	0.186 J	0.1 J	0.146 J
Sodium	7440-23-5	NC	36.5 J	51 J	34.3 J	39.4 J	770	98.9 J	152	101 J
Thallium	7440-28-0	NC	1.2 U	1.3 U	1.2 U	1.2 U	1.7 U	1.2 U	0.848 J	1.3 U
Vanadium	7440-62-2	NC	16.9	11	12.4	20	53.2	29.7	8.6	17.2
Zinc	7440-66-6	109	48.8	40.3 J	42.8	47	48.9	650	16.2 J	141 J

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
*- Chromium criteria is haxavalent chromium to be conservative. Results are Total Chromium.
[BB] = Sample locations where "bone black" or "activated carbon" type material was a
Exceeds Unrestricted SCO listed in Part 375.

Table 9E - Subsurface Soil Results Compared to Unrestricted SC
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	SB-154	SB-156	SB-157	SB-158	SB-159	SB-160	SB-161	SB-162
		Sample ID	SB-154-15-17-030316	SB-156-16-17-030916	SB-157-20.5-21.5-030916	SB-158-16-17.5-030816	SB-159-17-18-030916	SB-160-4-5-030916	SB-161-24-26-030816	SB-162-19-20-030816
		Sample Date	3/3/2016	3/9/2016	3/9/2016	3/8/2016	3/9/2016	3/9/2016	3/8/2016	3/8/2016
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Lab SDG	R1601955	R1602058	R1602058	R1602058	R1602058	R1602058	R1602058	R1602058
		Start Depth	15	16	20.5	16	17	4	24	19
		End Depth	17	17	21.5	17.5	18	5	26	20
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]								
Inorganics										
Aluminum	7429-90-5	NC	7,280	2,370	7,460	3,580	15,400	3,340	1,880	5,170
Antimony	7440-36-0	NC	7.8 UJ	6.4 UJ	7.4 UJ	6.6 UJ	8 UJ	6.9 UJ	6.8 UJ	7.6 UJ
Arsenic	7440-38-2	13	6.8	1.7	5.5	2.7	2.2	3.1	0.857 J	15.4
Barium	7440-39-3	350	45.7	14.5	53.7	11.2	145	19	11.9	18.9
Beryllium	7440-41-7	7.2	0.404	0.157 J	0.397	0.192 J	0.824	0.188 J	0.107 J	0.298 J
Cadmium	7440-43-9	2.5	0.13 J	0.536 U	0.619 U	0.549 U	0.662 U	0.572 U	0.564 U	0.631 U
Calcium	7440-70-2	NC	1,290	79,600	2,790	74,700	74,600	17,400	38,300	4,310
Chromium	7440-47-3	1*	9.4	5.3	10.7	5.9	25.9	5.2	3.8	8.3
Cobalt	7440-48-4	NC	7.5	2.2 J	7.9	4.9 J	12.2	3.2 J	1.8 J	7.7
Copper	7440-50-8	50	12.8	6	9.3	7.8	20.4	7.2	5.3	9.1
Cyanide	57-12-5	27	0.03 J	0.093 U	0.03 J	0.1 U	0.13 U	0.04 J	0.098 U	0.03 J
Iron	7439-89-6	NC	20,000	9,770	20,700	10,800	29,600	9,670	7,160	17,700
Lead	7439-92-1	63	10.4 J	5.4 U	9.7	5.5 U	9.2	57 U	56 U	9.4
Magnesium	7439-95-4	NC	2,150	21,300	3,670	26,100	15,700	5,480	12,200	4,310
Manganese	7439-96-5	1,600	251	339	311	401	762	250	424	210
Mercury	7439-97-6	0.18	0.005 J	0.036 U	0.011 J	0.008 J	0.022 J	0.013 J	0.036 U	0.008 J
Nickel	7440-02-0	30	16.8	4.3 U	16.7	4.4 U	26.2	6.1	45 U	16.1
Potassium	7440-09-7	NC	741 J	727	687	588	3,690	577	432	881
Selenium	7782-49-2	3.9	1.3 U	1.1 U	1.2 U	1.1 U	13 U	1.1 U	1.1 U	1.3 U
Silver	7440-22-4	2	1.3 U	1.1 U	12 U	1.1 U	13 U	11 U	1.1 U	1.3 U
Sodium	7440-23-5	NC	31.4 J	124	30.9 J	96.9 J	279	56.1 J	92.3 J	39 J
Thallium	7440-28-0	NC	1.3 U	1.1 U	1.2 U	1.1 U	13.2 U	1.1 U	11.3 U	1.3 U
Vanadium	7440-62-2	NC	13.4	10.3	13.6	8.7	31	10	7.8	11.3
Zinc	7440-66-6	109	45 J	40.2	42.5	59.5	55	20	13.2	45.5

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
*- Chromium criteria is haxavalent chromium to be conservative. Results are Total Chromium.
[BB] = Sample locations where "bone black" or "activated carbon" type material was a
Exceeds Unrestricted SCO listed in Part 375.

Table 9E - Subsurface Soil Results Compared to Unrestricted SC
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SB-163	SB-164	SB-165	SB-166	SB-168	SB-169	SB-170	SB-171
	Sample ID	SB-163-13.5-16-030816	SB-164-4-5.9-030716	SB-165-22-23-030716	SB-166-13-15-030816	SB-168-16-17-030816	SB-169-16-17-030716	SB-170-16-16.8-022916	SB-171-15-16-022916
	Sample Date	3/8/2016	3/7/2016	3/7/2016	3/8/2016	3/8/2016	3/7/2016	2/29/2016	2/29/2016
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	R1602058	R1601955	R1601955	R1602058	R1602058	R1601955	R1601741	R1601741
	Start Depth	13.5	4	22	13	16	16	16	15
	End Depth	16	5.9	23	15	17	17	16.8	16
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]							
Inorganics									
Aluminum	7429-90-5	NC	6,890	3,940	5,220	10,800	6,310	7,690	6,880	12,800
Antimony	7440-36-0	NC	7.1 UJ	6.7 UJ	7.4 UJ	7.5 UJ	7.5 UJ	7.2 UJ	7.6 UJ	7.3 UJ
Arsenic	7440-38-2	13	5	2.2	6.3	9	7.6	6.9	5	9
Barium	7440-39-3	350	41.3	25.3	20.4	67.4	32.3	44.8	35.8	74.6
Beryllium	7440-41-7	7.2	0.372	0.157 J	0.248 J	0.576	0.368 J	0.445	0.365 J	0.666
Cadmium	7440-43-9	2.5	0.592 U	0.067 J	0.136 J	0.622 U	0.623 U	0.168 J	0.239 J	0.363 J
Calcium	7440-70-2	NC	1,540	21,400	18,100	1,670	1,370	710	1,330	1,200
Chromium	7440-47-3	1*	10.3	5	7.1	17.2	10.3	10.9	11	17.4
Cobalt	7440-48-4	NC	6.6	3.2 J	6 J	10.3	11.1	7.2	7.5	11.7
Copper	7440-50-8	50	13.3	7.6	10.2	24.6	15.8	19.8	13.1	23.3
Cyanide	57-12-5	27	0.11 U	0.11 U	0.12 U	0.02 J	0.02 J	0.02 J	0.02 J	0.03 J
Iron	7439-89-6	NC	17,700	4,840	12,200	29,700	19,800	20,400	16,300	29,300
Lead	7439-92-1	63	8	2.9 J	6.7 J	13.3	10.1	10.8 J	9.3	12.7
Magnesium	7439-95-4	NC	2,640	5,510	11,200	4,180	2,340	2,300	2,450	4,200
Manganese	7439-96-5	1,600	333	255	122	593	996	191	161	528
Mercury	7439-97-6	0.18	0.012 J	0.037 U	0.04 U	0.01 J	0.011 J	0.005 J	0.013 J	0.011 J
Nickel	7440-02-0	30	18.3	5.6	12.6	27.4	19.2	18.1	17.9	27.7
Potassium	7440-09-7	NC	833	696 J	872 J	997	851	883 J	902	908
Selenium	7782-49-2	3.9	12 U	1.1 U	1.2 U	12 U	12 U	1.2 U	1.3 U	1.2 U
Silver	7440-22-4	2	12 U	1.1 U	0.074 J	12 U	12 U	0.06 J	1.3 U	0.085 J
Sodium	7440-23-5	NC	30.8 J	108 J	49.5 J	30 J	27 J	36.4 J	47.4 J	62.2 J
Thallium	7440-28-0	NC	1.2 U	1.1 U	1.2 U	12.4 U	12.5 U	1.2 U	1.3 U	12.1 U
Vanadium	7440-62-2	NC	12.3	9.7	10.8	18.5	12.4	15.6	14	20.4
Zinc	7440-66-6	109	47.7	23.9 J	48.7 J	72.3	48.4	43 J	44.5	64.6

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
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[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
*- Chromium criteria is haxavalent chromium to be conservative. Results are Total Chromium.
[BB] = Sample locations where "bone black" or "activated carbon" type material was a
Exceeds Unrestricted SCO listed in Part 375.

Table 9E - Subsurface Soil Results Compared to Unrestricted SC
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SB-172	SB-173	SB-174	SB-175	SB-176	SB-177	SB-178	SB-179
	Sample ID	SB-172-8.8-9.6-082217	SB-173-12-15-082117	SB-174-12.5-15-082117	SB-175-21-21.4-030716	SB-176-6-7-041216	SB-177-5.5-6.5-031416	SB-178-1.5-2-031416	SB-179-6.2-7-030416
	Sample Date	8/22/2017	8/21/2017	8/21/2017	3/7/2016	4/12/2016	3/14/2016	3/14/2016	3/4/2016
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	R1707777	R1707777	R1707777	R1601955	R1603190	R1602239	R1602239	R1601955
	Start Depth	8.8	12	12.5	21	6	5.5	1.5	6.2
	End Depth	9.6	15	15	21.4	7	6.5	2	7
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]							
Inorganics									
Aluminum	7429-90-5	NC	4330	8650	12100	1,100	5,150	7,970	8,920	7,300
Antimony	7440-36-0	NC	6.6 U	7.4 U	7.8 U	6.5 UJ	7.2 UJ	7.2 UJ	6.9 UJ	7.7 UJ
Arsenic	7440-38-2	13	2.7	8.1	9.2	1.9	3	5	4.2	6
Barium	7440-39-3	350	23.8	69.7	98.6	7.6	103	58.6	78.1	53.3
Beryllium	7440-41-7	7.2	0.186 J	0.397	0.622	0.022 J	0.302 J	0.408	0.438	0.395
Cadmium	7440-43-9	2.5	0.885	0.62 U	0.648 U	0.119 J	0.157 J	0.599 U	0.577 U	0.242 J
Calcium	7440-70-2	NC	70800	1990	2930	176,000	12,600	5,550 J	43,400 J	3,640
Chromium	7440-47-3	1*	6.2	12.4	16.3	1.1 U	16.6	11.8	11.8	10.1
Cobalt	7440-48-4	NC	2.7 J	10.6	9.5	1.4 J	5 J	8.2	5.6 J	7.3
Copper	7440-50-8	50	10.5	16.7	18.9	3.9	6	14	16.8	17.2
Cyanide	57-12-5	27	0.098 U	0.03 J	0.05 J	0.11 U	0.06 J	0.04 J	0.02 J	0.06 J
Iron	7439-89-6	NC	9770	22300	27300	4,120	25,700	20,600	16,700	17,200
Lead	7439-92-1	63	9.8	9.9	12	7.5 J	10.1	12.5	13	23.9 J
Magnesium	7439-95-4	NC	39900	3080	4100	100,000	2,540	2,910 J	20,500 J	2,670
Manganese	7439-96-5	1,600	155	1030	432	323	132	532 N	779 N	148
Mercury	7439-97-6	0.18	0.181	0.039 U	0.036 J	0.036 U	0.032 J	0.025 J	0.043	0.054
Nickel	7440-02-0	30	8.6	23.7	25.7	4.3 UE	7.4	18.3	12.4	15.8
Potassium	7440-09-7	NC	749	817	1320	442 J	686	859	1,490	1,140 J
Selenium	7782-49-2	3.9	1.1 U	0.881 J	0.777 J	2.9	0.749 J	1.2 U	0.854 J	1.3 U
Silver	7440-22-4	2	1.1 U	1.2 U	1.3 U	0.314 J	1.2 U	0.096 J	0.081 J	0.077 J
Sodium	7440-23-5	NC	164	108 J	189	208	54.2 J	49.4 J	88.9 J	54.1 J
Thallium	7440-28-0	NC	1.5	1.2 U	1.3 U	4.4	1.2 U	1.2 U	1.2 U	1.3 U
Vanadium	7440-62-2	NC	8.2	16.5	20.7	3.6 J	8.8	14.7	16.4	14.8
Zinc	7440-66-6	109	327	58.2	66.5 E	12.7 J	41.5	69	66.1	62.8 J

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
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[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
*- Chromium criteria is haxavalent chromium to be conservative. Results are Total Chromium.
[BB] = Sample locations where "bone black" or "activated carbon" type material was a
Exceeds Unrestricted SCO listed in Part 375.

Table 9E - Subsurface Soil Results Compared to Unrestricted SC
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SB-180	SB-TP-131	SB-TP-139[BB]	SB-TP-139[BB]	SB-TP-147	TP-100	TP-102	TP-103	TP-103
	Sample ID	SB-180-14-14.7-030416	SB-TP-131-5-7-031516	DUP-001-030716	SB-TP-139-12-14-030716	SB-TP-147-16-18-031016	TP-100-2-4-012116	TP-102-1-3-012216	DUP-008-012116	TP-103-0-2-012116
	Sample Date	3/4/2016	3/15/2016	3/7/2016	3/7/2016	3/10/2016	1/21/2016	1/22/2016	1/21/2016	1/21/2016
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	R1601955	R1602333	R1601955	R1601955	R1602058	R1600468	R1600468	R1600468	R1600468
	Start Depth	14	5	12	12	16	2	1	0	0
	End Depth	14.7	7	14	14	18	4	3	2	2
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]								
Inorganics										
Aluminum	7429-90-5	NC	8,090	5,680	4,700	5,320	3,090	21,200	25,100	4,140	3,150
Antimony	7440-36-0	NC	7.2 UJ	7.9 UJ	7.2 UJ	7.2 UJ	6.7 UJ	0.27 J	0.921 J	6.6 U	0.409 J
Arsenic	7440-38-2	13	6.2	12	3.1	2.7	6	33.4	41.2	5.1	3.6
Barium	7440-39-3	350	42.3	102	25.7	31.5	20.9	73.8	50.6	28.8	25.5
Beryllium	7440-41-7	7.2	0.385	0.677	0.192 J	0.215 J	0.16 J	1.4	1.2	0.33 U	0.33 U
Cadmium	7440-43-9	2.5	0.084 J	0.655 U	0.048 J	0.083 J	0.556 U	0.674 U	0.191 J	0.552 U	0.552 U
Calcium	7440-70-2	NC	1,170	9,410 J	NA	31,000	72,900	14,700	24,300	86,800	33,900
Chromium	7440-47-3	1*	11.3	12.4	6.3	7.3	7.3	57.6	65.4	6.8	5
Cobalt	7440-48-4	NC	6.6	5.9 J	3.3 J	4 J	5 J	6.5 J	4.3 J	3.1 J	2.5 J
Copper	7440-50-8	50	15.8	34.2	8.8	9.2	7.1	32.5	13.3	56.1	58.3
Cyanide	57-12-5	27	0.11 U	0.25	0.12 U	0.06 J	0.1 U	0.36	0.38	0.32	0.11 U
Iron	7439-89-6	NC	19,400	15,200	9,460	11,700	12,300	20,600	19,600	12,800	9,460
Lead	7439-92-1	63	6.8 J	87.2	4.9 J	4 J	54 U	53.4	24.6	52.8	60.8
Magnesium	7439-95-4	NC	2,820	3,940	8,070	7,940	32,100	22,100	29,900	23,900	9,190
Manganese	7439-96-5	1,600	292	104 J	281	285	468	227	131	305	232
Mercury	7439-97-6	0.18	0.009 J	1.6	0.038 U	0.038 U	0.035 U	0.149	0.027 J	0.158	0.179
Nickel	7440-02-0	30	17.6	12.1	5.7	7.4	7.9	17.1	20.8	7.6	5.7
Potassium	7440-09-7	NC	848 J	715	870 J	1,060 J	943	3,460 J	3,630 J	805 J	596 J
Selenium	7782-49-2	3.9	1.2 U	1.3 U	0.768 J	1.2 U	11 U	1.4 U	1.4 U	1.1 U	1.1 U
Silver	7440-22-4	2	0.06 J	1.3 U	0.084 J	0.072 J	11 U	1.3 U	1.4 U	1.1 U	1.1 U
Sodium	7440-23-5	NC	44.4 J	159	147	142	125	575	733	115	59.7 J
Thallium	7440-28-0	NC	1.2 U	1.3 U	1.2 U	1.2 U	1.1 U	1.4 U	1.4 U	1.1 U	1.1 U
Vanadium	7440-62-2	NC	13.1	19.4	11.4	13.8	13.8	50.4	60.5	11.9	9.3
Zinc	7440-66-6	109	45.6 J	90.7	26.8 J	28.3 J	46.4	96.8	68.1	135	103

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
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[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
*- Chromium criteria is haxavalent chromium to be conservative. Results are Total Chromium.
[BB] = Sample locations where "bone black" or "activated carbon" type material was a
Exceeds Unrestricted SCO listed in Part 375.

Table 9E - Subsurface Soil Results Compared to Unrestricted SC
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	TP-104	TP-105	TP-106	TP-107	TP-108	TP-110	TP-111	TP-112
	Sample ID	TP-104-0-2-012216	TP-105-4.5-6.5-012216	TP-106-1.5-4-012216	TP-107-0-2-012216	TP-108-0-1.5-012516	TP-110-1.5-2-012516	SB-TP-111-0-0.6-082117	TP-112-3.5-4-012516
	Sample Date	1/22/2016	1/22/2016	1/22/2016	1/22/2016	1/25/2016	1/25/2016	8/21/2017	1/25/2016
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	R1600468	R1600468	R1600468	R1600468	R1600634	R1600634	R1707777	R1600634
	Start Depth	0	4.5	1.5	0	0	1.5	0	3.5
	End Depth	2	6.5	4	2	1.5	2	0.6	4
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]							
Inorganics									
Aluminum	7429-90-5	NC	5,230	14,600	21,900	5,930	4,040	8,290	3,840	7,580
Antimony	7440-36-0	NC	1 J	8.1 U	7.5 U	0.406 J	9.4	8.6 U	6.3 U	7.5 U
Arsenic	7440-38-2	13	9.3	97.2	94.5	11.8	20.1	8.2	3.6	15.5
Barium	7440-39-3	350	129	230	57.3	106	96.3	79.3	29.4	54
Beryllium	7440-41-7	7.2	0.508	2.9	1.8	0.436	0.745	0.507	0.2 J	0.537
Cadmium	7440-43-9	2.5	0.611 U	2	0.106 J	0.198 J	0.633 U	0.713 U	0.527 U	0.628 U
Calcium	7440-70-2	NC	30,100	8,350	6,180	68,200	15,300	8,910	98,500	13,600
Chromium	7440-47-3	1*	10.8	36.6	78.6	16.2	13.3 J	15.6 J	6.6	16.9 J
Cobalt	7440-48-4	NC	4.9 J	64.1	8	6 J	8.7	6.7 J	2.8 J	4.7 J
Copper	7440-50-8	50	45.5	178	46.5	59.6	102	29.2	19.4	14.7
Cyanide	57-12-5	27	0.56	0.3	0.39	0.12 U	0.33	0.26	0.018 J	0.08 J
Iron	7439-89-6	NC	13,200	99,900	57,800	17,400	44,200	21,900	11,000	14,600
Lead	7439-92-1	63	268	159	14.5	308	234	78.6	55.7	18.6
Magnesium	7439-95-4	NC	10,900	3,670	19,500	23,800	7,730	4,630	46,600	9,740
Manganese	7439-96-5	1,600	410	1,630	109	319	405	477	316	235
Mercury	7439-97-6	0.18	0.114	0.263	0.006 J	0.328	0.189	0.139	0.133	0.076
Nickel	7440-02-0	30	11.1	75.8	18.3	15.6	20.2	15	6.7	11.8
Potassium	7440-09-7	NC	1,000 J	1,710 J	2,700 J	1,120 J	675 J	1,300 J	1,050	1,260 J
Selenium	7782-49-2	3.9	1.2 U	3.5	1.5	1.3 U	1.7	1.6	1.1 U	1.3 U
Silver	7440-22-4	2	1.2 U	1.4 U	1.3 U	0.322 J	1.3 U	1.4 U	0.168 J	1.3 U
Sodium	7440-23-5	NC	153	174	496	153	102 J	82.4 J	145	216
Thallium	7440-28-0	NC	1.2 U	4.1 U	0.541 J	1.3 U	1.3 U	1.4 U	2	1.3 U
Vanadium	7440-62-2	NC	20.4	17.3	65.1	17.3	16.4	19.9	11.6	19.8
Zinc	7440-66-6	109	257	364	91.3	1,780	104	187	87.8	108

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
*- Chromium criteria is haxavalent chromium to be conservative. Results are Total Chromium.
[BB] = Sample locations where "bone black" or "activated carbon" type material was a
Exceeds Unrestricted SCO listed in Part 375.

Table 9E - Subsurface Soil Results Compared to Unrestricted SC
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	TP-113	TP-114	TP-115	TP-116	TP-118	TP-120	TP-120	TP-123	TP-125
	Sample ID	TP-113-1.5-2-012516	TP-114-4-5-012616	TP-115-4-5-012616	TP-116-7-8-011516	TP-118-3.5-4-011516	DUP-009-012616	TP-120-4-4.5-012616	TP-123-4.5-5-012616	TP-125-3-4-012716
	Sample Date	1/25/2016	1/26/2016	1/26/2016	1/15/2016	1/15/2016	1/26/2016	1/26/2016	1/26/2016	1/27/2016
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	R1600634	R1600634	R1600634	R1600468	R1600468	R1600634	R1600634	R1600634	R1600634
	Start Depth	1.5	4	4	7	3.5	4	4	4.5	3
	End Depth	2	5	5	8	4	4.5	4.5	5	4
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]								
Inorganics										
Aluminum	7429-90-5	NC	5,000	20,600	8,730	8,060	12,500	10,900	11,100	8,940	2,260
Antimony	7440-36-0	NC	6.5 U	0.171 UJ	1.5 J	7.2 U	1.8 J	0.264 J	0.145 UJ	0.146 UJ	0.909 J
Arsenic	7440-38-2	13	2.7	7.9	11	7.6	21.2	7.9	9.6	7.8	510
Barium	7440-39-3	350	27	144	184	47.4	97	81.5	86.2	46.1	58
Beryllium	7440-41-7	7.2	0.327 U	1.2	0.634	0.49	0.894	0.607	0.716	0.502	0.167 J
Cadmium	7440-43-9	2.5	0.545 U	0.713 U	0.024 U	0.601 U	0.694 U	0.617 U	0.02 U	0.021 U	7.6
Calcium	7440-70-2	NC	127,000	5,270	8,490	1,710	22,500	11,000	7,540	1,800	2,630
Chromium	7440-47-3	1*	9.3 J	21.5	15.1	12.8	31.7	17.2	16.4	13.4	19.7
Cobalt	7440-48-4	NC	3.5 J	7.5	10.4	8.3	7.7	8.9	11	8.3	1.6 J
Copper	7440-50-8	50	17.3	35.9	157	17.3	28.3	20	18	16.6	18.9
Cyanide	57-12-5	27	0.097 U	0.24	0.17	0.11 U	0.63	0.11 U	0.06 J	0.02 J	0.09 J
Iron	7439-89-6	NC	11,300	24,700	13,300	24,400	24,100	23,300	24,200	21,900	156,000
Lead	7439-92-1	63	7.2	13.9	524	9.6	114	56.2	35.6	9.8	16.3
Magnesium	7439-95-4	NC	44,900	4,340	3,800	3,080	11,100	7,960	5,940	3,060	1,170
Manganese	7439-96-5	1,600	430	130	239	247	238	306	336	249	19.4
Mercury	7439-97-6	0.18	0.053	0.061	44.2	0.014 J	0.51	0.079	0.06	0.007 J	0.024 J
Nickel	7440-02-0	30	9.2	23.9	22.6	21.2	16.5	20.8	26.6	18.6	3.4 J
Potassium	7440-09-7	NC	1,740 J	1,900	962	796 J	1710 J	1,580	1,670	936	655
Selenium	7782-49-2	3.9	1.1 U	1.6	1.4 U	1.2 U	2.4	1.2 U	1.2 U	0.221 U	3.8
Silver	7440-22-4	2	1.1 U	1.4 U	1.3 J	1.2 U	1.4 U	1.2 U	0.073 U	0.074 U	0.077 U
Sodium	7440-23-5	NC	140	190	200	34 J	418	68.8 J	56.1 J	56 J	38.1 J
Thallium	7440-28-0	NC	1.1 U	1.4 U	0.39 U	1.2 U	1.4 U	1.2 U	0.327 U	0.329 U	2.6 J
Vanadium	7440-62-2	NC	9.8	27.3	23.3	15.1	33.9	22.9	20.9	17.1	35.3
Zinc	7440-66-6	109	29.5	96.4	241	59.5	420	231	166 J	54.1	55.6

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
*- Chromium criteria is haxavalent chromium to be conservative. Results are Total Chromium.
[BB] = Sample locations where "bone black" or "activated carbon" type material was a
Exceeds Unrestricted SCO listed in Part 375.

Table 9E - Subsurface Soil Results Compared to Unrestricted SC
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	TP-126	TP-127	TP-130	TP-132	TP-133	TP-134	TP-135	TP-137
		Sample ID	TP-126-2-3-012716	TP-127-8-8.5-012716	TP-130-9.5-10-012816	TP-132-3-3.5-012816	TP-133-6.5-7-012716	TP-134-5-6-012816	TP-135-2-3-012916	TP-137-9.5-10-012916
		Sample Date	1/27/2016	1/27/2016	1/28/2016	1/28/2016	1/27/2016	1/28/2016	1/29/2016	1/29/2016
		Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		Lab SDG	R1600634	R1600634	R1600810	R1600810	R1600634	R1600810	R1600810	R1600810
		Start Depth	2	8	9.5	3	6.5	5	2	9.5
		End Depth	3	8.5	10	3.5	7	6	3	10
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]								
Inorganics										
Aluminum	7429-90-5	NC	6,560	11,100	5,300	5,100	12,600	9,000	7,270	6,650
Antimony	7440-36-0	NC	1.1 J	0.614 J	7.9 UJ	7.3 UJ	0.208 J	0.198 UJ	0.202 UJ	7.3 UJ
Arsenic	7440-38-2	13	17.3	31.4	14.2	18	7.2	6.2	3.5	7.6
Barium	7440-39-3	350	172	118	86.7 J	103	85.6	52.4	35.1	38.3
Beryllium	7440-41-7	7.2	1.2	0.688	0.565	0.403	0.691	0.423	0.384	0.35 J
Cadmium	7440-43-9	2.5	0.726 U	0.851 U	0.655 U	1.1	0.567 U	0.585 U	0.605 U	0.605 U
Calcium	7440-70-2	NC	9,640	26,500	29,100	32,000	3,780	1,790	13,200	1,050
Chromium	7440-47-3	1*	10.1	17.7	12.7	16.2	18.2	13.2	11	9.8
Cobalt	7440-48-4	NC	9.2	8.3 J	6.5 U	6.2	12	8.7	9.7	7.6
Copper	7440-50-8	50	40.9	48.7	37.7	56.4	15	14.8	18.9	16.1
Cyanide	57-12-5	27	0.38	1.04	0.16	0.11	0.06 J	0.05 J	0.02 J	0.12 U
Iron	7439-89-6	NC	29,400	36,400	19,300	23,900	27,000	23,300	16,800	19,100
Lead	7439-92-1	63	92.2	199	279 J	308 J	15.3	10.1 J	6.1 U	9.2 J
Magnesium	7439-95-4	NC	3,380	5,420	10,700	11,500	4,080	3,070	4,490	2,030
Manganese	7439-96-5	1,600	177	229	271	321	311	251	200	331
Mercury	7439-97-6	0.18	0.554	0.044 J	2.9	1.6	0.214	0.021 J	0.01 J	0.012 J
Nickel	7440-02-0	30	19.9	19.1	10.9	23.9	23.4	19.2	19.4	17.4
Potassium	7440-09-7	NC	844	1,640	838 J	858	1,620	907	1,300	914
Selenium	7782-49-2	3.9	1.5	1.7 U	1.2 J	1.2 J	1.1 U	1.2 U	3	1.2 U
Silver	7440-22-4	2	1.5 U	1.7 U	0.21 J	0.293 J	0.068 U	1.2 U	1.2 U	1.2 U
Sodium	7440-23-5	NC	173	179	106 J	102 J	135	182	62 J	121 U
Thallium	7440-28-0	NC	1.5 U	1.7 U	1.3 U	1.2 U	1.1 U	1.2 U	1.2 U	1.2 U
Vanadium	7440-62-2	NC	19.4	21	18.4	17.7	21.9	16.1	18.7	13.4
Zinc	7440-66-6	109	57	137	113 J	301	102	49.4	45.8	43.2

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
*- Chromium criteria is haxavalent chromium to be conservative. Results are Total Chromium.
[BB] = Sample locations where "bone black" or "activated carbon" type material was a
Exceeds Unrestricted SCO listed in Part 375.

Table 9E - Subsurface Soil Results Compared to Unrestricted SC
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	TP-140[BB]	TP-141	TP-142	TP-143	TP-146	TP-148	TP-149[BB]	TP-150[BB]	TP-151
	Sample ID	TP-140-2.5-3-011416	TP-141-4-5-011416	TP-142-0-1-011516	TP-143-4-6.5-011416	TP-146-6-8-011316	TP-148-2-2.5-012516	TP-149-6-8-011416	TP-150-4-6-011316	TP-151-2-4-011316
	Sample Date	1/14/2016	1/14/2016	1/15/2016	1/14/2016	1/13/2016	1/25/2016	1/14/2016	1/13/2016	1/13/2016
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Lab SDG	R1600423	R1600423	R1600468	R1600423	R1600375	R1600634	R1600423	R1600375	R1600375
	Start Depth	2.5	4	0	4	6	2	6	4	2
	End Depth	3	5	1	6.5	8	2.5	8	6	4
Chemical Name	CAS #	NY Part 375 Unrestricted SCO[1]								
Inorganics										
Aluminum	7429-90-5	NC	14,500	4,170	2,670	22,600	6,950	6,160	21,100	21,200	5,070
Antimony	7440-36-0	NC	1.3 J	0.702 J	7.1 U	1.3 J	12.2 U	7.3 U	0.876 J	13.2 U	11.2 U
Arsenic	7440-38-2	13	28.4 J	22.8 J	24.5	48.5 J	9.3	8.2	38.2 J	82.2	8.2
Barium	7440-39-3	350	73.8	130	281	131	62	105	245	28.2	62.9
Beryllium	7440-41-7	7.2	0.772	0.453	0.782	1.6	0.476	0.364	0.72	0.711	0.403
Cadmium	7440-43-9	2.5	0.677 U	0.566 U	0.591 U	4.8	0.61 U	0.871	0.733	0.908	0.578 U
Calcium	7440-70-2	NC	42,600 J	25,600 J	2,740	13,600 J	68,000 J	2,880	31,600 J	36,100 J	5,260 J
Chromium	7440-47-3	1*	43.7 J	29.4 J	7.3	78.1	7.7 J	10.2 J	53.9 J	52.4	8.5 J
Cobalt	7440-48-4	NC	6.8 U	5.7 U	7.5	8.5 U	6.1 U	6.9	6.8 U	4.9 U	6.6
Copper	7440-50-8	50	25.9 J	58.8 J	24.2	20.4 J	17.6 J	32.4	9.7 J	6.8 J	16.7 J
Cyanide	57-12-5	27	0.12 U	0.57	0.11 U	0.29	0.09 J	0.03 J	1.06	0.42	0.1 J
Iron	7439-89-6	NC	13,000	18,100	20,900	26,500	12,900	22,500	30,200	34,900	14,900
Lead	7439-92-1	63	82.7 J	52.6 J	6.3	45.8 J	44 J	9.5	21 J	15.7 J	20.7 J
Magnesium	7439-95-4	NC	19,100 J	4,190 J	779	22,900 J	34,300 J	2,980	29,100 J	28,700 J	2,670 J
Manganese	7439-96-5	1,600	223 J	171 J	78.2	209 J	414 J	146	2,550 J	172 J	252 J
Mercury	7439-97-6	0.18	0.303	1.6	0.132	0.083	0.69	1.4	0.032 J	0.006 J	0.099
Nickel	7440-02-0	30	9.9 J	9.3 J	17.7	28.3 J	9.3 J	17.7	16.2 J	17.7	18.1
Potassium	7440-09-7	NC	1,790	583	622 J	3,390	777	836 J	3,210	3,300	593
Selenium	7782-49-2	3.9	1.4 U	1.1 U	1.4	1.7 U	0.721 U	1.2 U	2.4	1.3 U	1.1 U
Silver	7440-22-4	2	1.4 U	1.1 U	1.2 U	1.7 U	0.054 U	1.2 U	1.4 U	1.3 U	1.1 U
Sodium	7440-23-5	NC	701	221	93 J	672	199	31.7 J	775	698	110 J
Thallium	7440-28-0	NC	1.4 U	1.1 U	0.922 J	1.7 U	0.33 U	1.2 U	6.9 U	1.3 U	1.1 U
Vanadium	7440-62-2	NC	50.7	20.4	19.1	65.8	14.3	11.9	63.6	62.6	14.5
Zinc	7440-66-6	109	705 J	305 J	39	2580 J	159 J	613	62.2 J	51.2 J	71.3 J

Notes:
NC - No criteria exists, NA - Not Available
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
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[1] 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, December 14, 2006.
*- Chromium criteria is haxavalent chromium to be conservative. Results are Total Chromium.
[BB] = Sample locations where "bone black" or "activated carbon" type material was a
Exceeds Unrestricted SCO listed in Part 375.

Table 10A - Groundwater Results - VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	BED1-100	BED1-100	BED1-101	BED1-101	BED1-102
		Sample ID	BED1-100-082316	BED1-100-121316	BED1-101-082416	BED1-101-121216	BED1-102-081516
		Sample Date	8/23/2016	12/13/2016	8/24/2016	12/12/2016	8/15/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1608915	R1613018	R1608915	R1613018	R1608604
Chemical Name	CAS #	NYS GW CLASS GA[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	79-00-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	75-34-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	75-35-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	95-63-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
1,2-Dibromoethane	106-93-4	0.0006	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	95-50-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	107-06-2	0.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	78-87-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	108-67-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichlorobenzene	541-73-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	106-46-7	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dioxane	123-91-1	NC	< 40 R	< 40 R	< 40 R	< 40 R	< 40 R
2-Butanone	78-93-3	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Hexanone	591-78-6	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
4-Isopropyltoluene	99-87-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-Pentanone	108-10-1	NC	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	67-64-1	50	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 J
Benzene	71-43-2	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromochloromethane	74-97-5	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	75-27-4	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	75-25-2	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	74-83-9	5	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U
Carbon disulfide	75-15-0	60	0.37 J	< 1.0 U	< 1.0 U	< 1.0 U	0.42 J
Carbon Tetrachloride	56-23-5	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U
Chlorobenzene	108-90-7	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	75-00-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroform	67-66-3	7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	74-87-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.21 J
cis-1,2-Dichloroethene	156-59-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	110-82-7	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromochloromethane	124-48-1	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane	75-71-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Ethane, 1,1,2-trichloro-1,2,2-trifluoro	76-13-1	5	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylene	XYLMP	5	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methyl Acetate	79-20-9	NC	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methylcyclohexane	108-87-2	NC	< 1.0 U	< 1.0 U	< 1.0 U	0.32 J	0.33 J
Methylene Chloride	75-09-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	< 1.0 U	< 1.0 U	0.61 J	0.59 J	< 1.0 U
n-Butylbenzene	104-51-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Propylbenzene	103-65-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	95-47-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
sec-Butylbenzene	135-98-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	100-42-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tert-Butylbenzene	98-06-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tetrachloroethene	127-18-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	108-88-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	156-60-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichloroethene	79-01-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlorofluoromethane	75-69-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlortrifluoroethane	26523-64-8	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl Chloride	75-01-4	2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Xylenes (total)	1330-20-7	5	0	0	0	0	0
TOTAL VOC TICs	NA	NC	50	7.7	NT	NT	20

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total Xylene calculated using o-xylene and m,p-xylene values.
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 10A - Groundwater Results - VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	BED1-102	BED1-103	BED1-103	BED1-104	BED1-104
		Sample ID	BED1-102-120516	BED1-103-081916	BED1-103-120916	BED1-104-081816	BED1-104-120816
		Sample Date	12/5/2016	8/19/2016	12/9/2016	8/18/2016	12/8/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1612714	R1608824	R1612845	R1608824	R1612845
Chemical Name	CAS #	NYS GW CLASS GA[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
1,1,2-Trichloroethane	79-00-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
1,1-Dichloroethane	75-34-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
1,1-Dichloroethene	75-35-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
1,2,4-Trimethylbenzene	95-63-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ	< 2.0 UJ
1,2-Dibromoethane	106-93-4	0.0006	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
1,2-Dichlorobenzene	95-50-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
1,2-Dichloroethane	107-06-2	0.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
1,2-Dichloropropane	78-87-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
1,3,5-Trimethylbenzene	108-67-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
1,3-Dichlorobenzene	541-73-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
1,4-Dichlorobenzene	106-46-7	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
1,4-Dioxane	123-91-1	NC	< 40 R	< 40 R	< 40 R	< 40 R	< 40 R
2-Butanone	78-93-3	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U
2-Hexanone	591-78-6	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U
4-Isopropyltoluene	99-87-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
4-Methyl-2-Pentanone	108-10-1	NC	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U
Acetone	67-64-1	50	8.2 J	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ
Benzene	71-43-2	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Bromochloromethane	74-97-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Bromodichloromethane	75-27-4	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Bromoform	75-25-2	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Bromomethane	74-83-9	5	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U
Carbon disulfide	75-15-0	60	0.63 J	< 1.0 U	< 1.0 U	< 1.0 UJ	0.31 J
Carbon Tetrachloride	56-23-5	5	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U
Chlorobenzene	108-90-7	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Chloroethane	75-00-3	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
Chloroform	67-66-3	7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Chloromethane	74-87-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
cis-1,2-Dichloroethene	156-59-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Cyclohexane	110-82-7	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Dibromochloromethane	124-48-1	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Dichlorodifluoromethane	75-71-8	5	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U
Ethane, 1,1,2-trichloro-1,2,2-trifluoro	76-13-1	5	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
m,p-Xylene	XYLMP	5	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ	< 2.0 U
Methyl Acetate	79-20-9	NC	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ	< 2.0 U
Methylcyclohexane	108-87-2	NC	0.36 J	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Methylene Chloride	75-09-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
n-Butylbenzene	104-51-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
n-Propylbenzene	103-65-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
o-Xylene	95-47-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
sec-Butylbenzene	135-98-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Styrene	100-42-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Tert-Butylbenzene	98-06-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Tetrachloroethene	127-18-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Toluene	108-88-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
trans-1,2-Dichloroethene	156-60-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Trichloroethene	79-01-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Trichlorofluoromethane	75-69-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Trichlortrifluoroethane	26523-64-8	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Vinyl Chloride	75-01-4	2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Xylenes (total)	1330-20-7	5	0	0	0	0	0
TOTAL VOC TICs	NA	NC	NT	NT	NT	NT	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total Xylene calculated using o-xylene and m,p-xylene values.
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 10A - Groundwater Results - VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	GW-101	GW-102	GW-103	GW-103	GW-104
		Sample ID	42969.58333	42969.62153	42969	42969.5875	42969.42014
		Sample Date	GW-101-082217	GW-102-082217	DUP-013-082217	GW-103-082217	GW-104-082217
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1707811	R1707811	R1707811	R1707811	R1707811
Chemical Name	CAS #	NYS GW CLASS GA[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	5	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	79-34-5	5	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	79-00-5	1	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	75-34-3	5	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	75-35-4	5	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	87-61-6	5	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	120-82-1	5	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	95-63-6	5	0.24 J	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	2 U	2 U	2 U	2 U	2 U
1,2-Dibromoethane	106-93-4	0.0006	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	95-50-1	3	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	107-06-2	0.6	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	78-87-5	1	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	108-67-8	5	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	541-73-1	3	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	106-46-7	3	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	123-91-1	NC	40 R	40 R	40 R	40 R	40 R
2-Butanone	78-93-3	50	1.4 J	1.5 J	5 U	5 U	5 U
2-Hexanone	591-78-6	50	5 U	5 U	5 U	5 U	5 U
4-Isopropyltoluene	99-87-6	5	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-Pentanone	108-10-1	NC	5 U	5 U	5 U	5 U	5 U
Acetone	67-64-1	50	5.7 U	6.6	5 U	5 U	5 U
Benzene	71-43-2	1	1.2	1 U	1 U	1 U	1 U
Bromochloromethane	74-97-5	5	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	75-27-4	50	1 U	1 U	1 U	1 U	1 U
Bromoform	75-25-2	50	1 U	1 U	1 U	1 U	1 U
Bromomethane	74-83-9	5	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	75-15-0	60	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	56-23-5	5	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	108-90-7	5	1 U	1 U	1 U	1 U	1 U
Chloroethane	75-00-3	5	1 U	1 U	1 U	1 U	1 U
Chloroform	67-66-3	7	1 U	1 U	1 U	1 U	1 U
Chloromethane	74-87-3	5	0.23 J	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	156-59-2	5	1 U	1 U	1 U	1 U	1 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	1 U	1 U	1 U	1 U	1 U
Cyclohexane	110-82-7	NC	0.6 J	1 U	1 U	1 U	1 U
Dibromochloromethane	124-48-1	50	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	75-71-8	5	1 U	1 U	1 U	1 U	1 U
Ethane, 1,1,2-trichloro-1,2,2-trifluoro	76-13-1	5	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	98-82-8	5	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	XYLMP	5	0.85 J	2 U	2 U	2 U	2 U
Methyl Acetate	79-20-9	NC	2 U	2 U	2 U	2 U	2 U
Methylcyclohexane	108-87-2	NC	0.54 J	1 U	1 U	1 U	1 U
Methylene Chloride	75-09-2	5	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	104-51-8	5	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	103-65-1	5	1 U	1 U	1 U	1 U	1 U
o-Xylene	95-47-6	5	0.33 J	1 U	1 U	1 U	1 U
sec-Butylbenzene	135-98-8	5	1 U	1 U	1 U	1 U	1 U
Styrene	100-42-5	5	1 U	1 U	1 U	1 U	1 U
Tert-Butylbenzene	98-06-6	5	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	127-18-4	5	1 U	1 U	1 U	1 U	1 U
Toluene	108-88-3	5	1.7	0.25 J	1 U	1 U	1 U
trans-1,2-Dichloroethene	156-60-5	5	1 U	1 U	1 U	1 U	1 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	1 U	1 U	1 U	1 U	1 U
Trichloroethene	79-01-6	5	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	75-69-4	5	1 U	1 U	1 U	1 U	1 U
Trichlortrifluoroethane	26523-64-8	NC	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	75-01-4	2	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	1330-20-7	5	1.18	0	0	0	0
TOTAL VOC TICs	NA	NC	NT	NT	NT	NT	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total Xylene calculated using o-xylene and m,p-xylene values.
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 10A - Groundwater Results - VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	GW-105	GW-106	GW-107	GW-108	MW-3
		Sample ID	42969.40625	42969.39236	42969.38403	42969.36458	MW-3-082316
		Sample Date	GW-105-082217	GW-106-082217	GW-107-082217	GW-108-082217	8/23/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1707811	R1707811	R1707811	R1707811	R1608915
Chemical Name	CAS #	NYS GW CLASS GA[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	5	1 U	1 U	1 U	1 U	< 1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	1 U	1 U	1 U	1 U	< 1.0 U
1,1,2-Trichloroethane	79-00-5	1	1 U	1 U	1 U	1 U	< 1.0 U
1,1-Dichloroethane	75-34-3	5	1 U	1 U	1 U	1 U	< 1.0 U
1,1-Dichloroethene	75-35-4	5	1 U	1 U	1 U	1 U	< 1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	1 U	1 U	1 U	1 U	< 1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	1 U	1 U	1 U	1 U	< 1.0 U
1,2,4-Trimethylbenzene	95-63-6	5	1 U	1 U	1 U	0.32 J	< 1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	2 U	2 U	2 U	2 U	< 2.0 U
1,2-Dibromoethane	106-93-4	0.0006	1 U	1 U	1 U	1 U	< 1.0 U
1,2-Dichlorobenzene	95-50-1	3	1 U	1 U	1 U	1 U	< 1.0 U
1,2-Dichloroethane	107-06-2	0.6	1 U	1 U	1 U	1 U	< 1.0 U
1,2-Dichloropropane	78-87-5	1	1 U	1 U	1 U	1 U	< 1.0 U
1,3,5-Trimethylbenzene	108-67-8	5	1 U	1 U	1 U	1 U	< 1.0 U
1,3-Dichlorobenzene	541-73-1	3	1 U	1 U	1 U	1 U	< 1.0 U
1,4-Dichlorobenzene	106-46-7	3	1 U	1 U	1 U	1 U	< 1.0 U
1,4-Dioxane	123-91-1	NC	40 R	40 R	40 R	40 R	< 40 R
2-Butanone	78-93-3	50	5 U	5 U	5 U	5 U	< 5.0 U
2-Hexanone	591-78-6	50	5 U	5 U	5 U	5 U	< 5.0 U
4-Isopropyltoluene	99-87-6	5	1 U	1 U	1 U	1 U	< 1.0 U
4-Methyl-2-Pentanone	108-10-1	NC	5 U	5 U	5 U	5 U	< 5.0 U
Acetone	67-64-1	50	5 U	5 U	5 U	5 U	< 5.0 UJ
Benzene	71-43-2	1	1 U	1 U	1 U	0.72 J	< 1.0 U
Bromochloromethane	74-97-5	5	1 U	1 U	1 U	1 U	< 1.0 U
Bromodichloromethane	75-27-4	50	1 U	1 U	1 U	1 U	< 1.0 U
Bromoform	75-25-2	50	1 U	1 U	1 U	1 U	< 1.0 U
Bromomethane	74-83-9	5	1 U	1 U	1 U	1 U	< 1.0 UJ
Carbon disulfide	75-15-0	60	1 U	1 U	1 U	1 U	< 1.0 U
Carbon Tetrachloride	56-23-5	5	1 U	1 U	1 U	1 U	< 1.0 U
Chlorobenzene	108-90-7	5	1 U	1 U	1 U	1 U	< 1.0 U
Chloroethane	75-00-3	5	1 U	1 U	1 U	1 U	< 1.0 U
Chloroform	67-66-3	7	1 U	1 U	1 U	1 U	< 1.0 U
Chloromethane	74-87-3	5	1 U	1 U	1 U	1 U	< 1.0 U
cis-1,2-Dichloroethene	156-59-2	5	1 U	1 U	1 U	1 U	< 1.0 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	1 U	1 U	1 U	1 U	< 1.0 U
Cyclohexane	110-82-7	NC	1 U	1 U	1 U	0.71 J	< 1.0 U
Dibromochloromethane	124-48-1	50	1 U	1 U	1 U	1 U	< 1.0 U
Dichlorodifluoromethane	75-71-8	5	1 U	1 U	1 U	1 U	< 1.0 U
Ethane, 1,1,2-trichloro-1,2,2-trifluoro	76-13-1	5	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	1 U	1 U	1 U	1 U	< 1.0 U
Isopropylbenzene	98-82-8	5	1 U	1 U	1 U	1 U	< 1.0 U
m,p-Xylene	XYLMP	5	2 U	2 U	2 U	0.77 J	< 2.0 U
Methyl Acetate	79-20-9	NC	2 U	2 U	2 U	2 U	< 2.0 U
Methylcyclohexane	108-87-2	NC	1 U	1 U	1 U	0.87 J	< 1.0 U
Methylene Chloride	75-09-2	5	1 U	1 U	1 U	1 U	< 1.0 U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	1 U	1 U	1 U	1 U	< 1.0 U
n-Butylbenzene	104-51-8	5	1 U	1 U	1 U	1 U	< 1.0 U
n-Propylbenzene	103-65-1	5	1 U	1 U	1 U	1 U	< 1.0 U
o-Xylene	95-47-6	5	1 U	1 U	1 U	0.25 J	< 1.0 U
sec-Butylbenzene	135-98-8	5	1 U	1 U	1 U	1 U	< 1.0 U
Styrene	100-42-5	5	1 U	1 U	1 U	1 U	< 1.0 U
Tert-Butylbenzene	98-06-6	5	1 U	1 U	1 U	1 U	< 1.0 U
Tetrachloroethene	127-18-4	5	1 U	1 U	1 U	1 U	< 1.0 U
Toluene	108-88-3	5	1 U	1 U	1 U	0.95 J	< 1.0 U
trans-1,2-Dichloroethene	156-60-5	5	1 U	1 U	1 U	1 U	< 1.0 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	1 U	1 U	1 U	1 U	< 1.0 U
Trichloroethene	79-01-6	5	1 U	1 U	1 U	1 U	< 1.0 U
Trichlorofluoromethane	75-69-4	5	1 U	1 U	1 U	1 U	< 1.0 U
Trichlortrifluoroethane	26523-64-8	NC	1 U	1 U	1 U	1 U	< 1.0 U
Vinyl Chloride	75-01-4	2	1 U	1 U	1 U	1 U	< 1.0 U
Xylenes (total)	1330-20-7	5	0	0	0	1.02	0
TOTAL VOC TICs	NA	NC	NT	NT	NT	NT	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total Xylene calculated using o-xylene and m,p-xylene values.
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 10A - Groundwater Results - VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	MW-3	OVR-100	OVR-100	OVR-101	OVR-101
		Sample ID	MW-3-120916	OVR-100-082316	OVR-100-121316	OVR-101-082416	OVR-101-121316
		Sample Date	12/9/2016	8/23/2016	12/13/2016	8/24/2016	12/13/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1612845	R1608915	R1613018	R1608915	R1613018
Chemical Name	CAS #	NYS GW CLASS GA[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	79-00-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	75-34-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	75-35-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	95-63-6	5	< 1.0 U	3.3	1.5	0.34 J	0.60 J
1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
1,2-Dibromoethane	106-93-4	0.0006	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	95-50-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	107-06-2	0.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	78-87-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	108-67-8	5	< 1.0 U	2.0	0.60 J	0.22 J	0.36 J
1,3-Dichlorobenzene	541-73-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	106-46-7	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dioxane	123-91-1	NC	< 40 R	< 40 R	< 40 R	< 40 R	< 40 R
2-Butanone	78-93-3	50	< 5.0 U	< 5.0 U	< 5.0 U	2.9 J	< 5.0 U
2-Hexanone	591-78-6	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
4-Isopropyltoluene	99-87-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-Pentanone	108-10-1	NC	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	67-64-1	50	< 5.0 UJ	< 5.0 UJ	2.0 J	14 J	2.6 J
Benzene	71-43-2	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromochloromethane	74-97-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	75-27-4	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	75-25-2	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	74-83-9	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Carbon disulfide	75-15-0	60	< 1.0 U	< 1.0 U	< 1.0 U	0.36 J	< 1.0 U
Carbon Tetrachloride	56-23-5	5	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 UJ
Chlorobenzene	108-90-7	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	75-00-3	5	< 1.0 U	< 1.0 U	< 1.0 U	0.58 J	< 1.0 U
Chloroform	67-66-3	7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	74-87-3	5	< 1.0 U	< 1.0 U	< 1.0 U	0.81 J	< 1.0 U
cis-1,2-Dichloroethene	156-59-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	110-82-7	NC	< 1.0 U	5.9	1.2	7.3	12
Dibromochloromethane	124-48-1	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane	75-71-8	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Ethane, 1,1,2-trichloro-1,2,2-trifluoro	76-13-1	5	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 U	0.25 J	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylene	XYLMP	5	< 2.0 U	< 2.0 U	< 2.0 U	0.33 J	< 2.0 U
Methyl Acetate	79-20-9	NC	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methylcyclohexane	108-87-2	NC	< 1.0 U	17	3.0	10	19
Methylene Chloride	75-09-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Butylbenzene	104-51-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Propylbenzene	103-65-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	95-47-6	5	< 1.0 U	< 1.0 U	< 1.0 U	0.34 J	0.37 J
sec-Butylbenzene	135-98-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.36 J
Styrene	100-42-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tert-Butylbenzene	98-06-6	5	< 1.0 U	0.28 J	< 1.0 U	0.25 J	0.55 J
Tetrachloroethene	127-18-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	108-88-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	156-60-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichloroethene	79-01-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlorofluoromethane	75-69-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlortrifluoroethane	26523-64-8	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl Chloride	75-01-4	2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Xylenes (total)	1330-20-7	5	0	0	0	0.67	0.37
TOTAL VOC TICs	NA	NC	NT	NT	NT	6.5	63.9

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total Xylene calculated using o-xylene and m,p-xylene values.
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 10A - Groundwater Results - VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-102	OVR-102	OVR-103	OVR-103	OVR-104
		Sample ID	OVR-102-081516	OVR-102-120516	OVR-103-082216	OVR-103-120916	OVR-104-081816
		Sample Date	8/15/2016	12/5/2016	8/22/2016	12/9/2016	8/18/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1608604	R1612714	R1608824	R1612845	R1608824
Chemical Name	CAS #	NYS GW CLASS GA[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
1,1,2,2-Tetrachloroethane	79-34-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
1,1,2-Trichloroethane	79-00-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
1,1-Dichloroethane	75-34-3	5	< 1.0 U	< 1.0 U	1.1	2.2	< 1.0 UJ
1,1-Dichloroethene	75-35-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
1,2,4-Trimethylbenzene	95-63-6	5	< 1.0 U	< 1.0 U	0.25 J	0.35 J	< 1.0 UJ
1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ
1,2-Dibromoethane	106-93-4	0.0006	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
1,2-Dichlorobenzene	95-50-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
1,2-Dichloroethane	107-06-2	0.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
1,2-Dichloropropane	78-87-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
1,3,5-Trimethylbenzene	108-67-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
1,3-Dichlorobenzene	541-73-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
1,4-Dichlorobenzene	106-46-7	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
1,4-Dioxane	123-91-1	NC	< 40 R	< 40 R	< 40 R	< 40 R	< 40 R
2-Butanone	78-93-3	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ
2-Hexanone	591-78-6	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ
4-Isopropyltoluene	99-87-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
4-Methyl-2-Pentanone	108-10-1	NC	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ
Acetone	67-64-1	50	< 5.0 U	< 5.0 UJ	< 5.0 UJ	3.3 J	< 5.0 UJ
Benzene	71-43-2	1	< 1.0 U	< 1.0 U	0.97 J	0.35 J	< 1.0 UJ
Bromochloromethane	74-97-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Bromodichloromethane	75-27-4	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Bromoform	75-25-2	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Bromomethane	74-83-9	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ
Carbon disulfide	75-15-0	60	< 1.0 U	< 1.0 U	< 1.0 U	0.38 J	< 1.0 UJ
Carbon Tetrachloride	56-23-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
Chlorobenzene	108-90-7	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Chloroethane	75-00-3	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ
Chloroform	67-66-3	7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Chloromethane	74-87-3	5	0.32 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
cis-1,2-Dichloroethene	156-59-2	5	< 1.0 U	< 1.0 U	0.42 J	0.69 J	< 1.0 UJ
Cis-1,3-Dichloropropene	10061-01-5	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Cyclohexane	110-82-7	NC	< 1.0 U	< 1.0 U	< 1.0 UJ	0.38 J	< 1.0 UJ
Dibromochloromethane	124-48-1	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Dichlorodifluoromethane	75-71-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro	76-13-1	5	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Isopropylbenzene	98-82-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
m,p-Xylene	XYLMP	5	< 2.0 U	< 2.0 U	0.43 J	0.48 J	< 2.0 UJ
Methyl Acetate	79-20-9	NC	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ
Methylcyclohexane	108-87-2	NC	< 1.0 U	1.2	0.45 J	0.44 J	0.28 J
Methylene Chloride	75-09-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Methyl tert-butyl ether (MTBE)	1634-04-4	10	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
n-Butylbenzene	104-51-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
n-Propylbenzene	103-65-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
o-Xylene	95-47-6	5	< 1.0 U	< 1.0 U	0.27 J	0.33 J	< 1.0 UJ
sec-Butylbenzene	135-98-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Styrene	100-42-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Tert-Butylbenzene	98-06-6	5	0.21 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Tetrachloroethene	127-18-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Toluene	108-88-3	5	< 1.0 U	< 1.0 U	0.22 J	0.37 J	< 1.0 UJ
trans-1,2-Dichloroethene	156-60-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Trans-1,3-Dichloropropene	10061-02-6	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Trichloroethene	79-01-6	5	< 1.0 U	< 1.0 U	3.0	2.1	< 1.0 UJ
Trichlorofluoromethane	75-69-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Trichlortrifluoroethane	26523-64-8	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Vinyl Chloride	75-01-4	2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Xylenes (total)	1330-20-7	5	0	0	0.7	0.81	0
TOTAL VOC TICs	NA	NC	6.1	NT	NT	NT	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total Xylene calculated using o-xylene and m,p-xylene values.
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 10A - Groundwater Results - VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-104	OVR-105	OVR-105	OVR-106	OVR-106
		Sample ID	OVR-104-120816	OVR-105-081516	OVR-105-120516	OVR-106-082216	OVR-106-121216
		Sample Date	12/8/2016	8/15/2016	12/5/2016	8/22/2016	12/12/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1612845	R1608604	R1612714	R1608915	R1613018
Chemical Name	CAS #	NYS GW CLASS GA[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.66 J
1,1,2,2-Tetrachloroethane	79-34-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	79-00-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	75-34-3	5	< 1.0 U	< 1.0 U	< 1.0 U	1.5	1.8
1,1-Dichloroethene	75-35-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	95-63-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
1,2-Dibromoethane	106-93-4	0.0006	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	95-50-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	107-06-2	0.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	78-87-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	108-67-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichlorobenzene	541-73-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	106-46-7	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dioxane	123-91-1	NC	< 40 R	< 40 R	< 40 R	< 40 R	< 40 R
2-Butanone	78-93-3	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Hexanone	591-78-6	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
4-Isopropyltoluene	99-87-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-Pentanone	108-10-1	NC	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	67-64-1	50	1.4 J	7.4 J	2.0 J	< 5.0 UJ	2.0 J
Benzene	71-43-2	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromochloromethane	74-97-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	75-27-4	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	75-25-2	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	74-83-9	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Carbon disulfide	75-15-0	60	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Carbon Tetrachloride	56-23-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Chlorobenzene	108-90-7	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	75-00-3	5	< 1.0 UJ	< 1.0 U	< 1.0 UJ	1.9	2.2
Chloroform	67-66-3	7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	74-87-3	5	< 1.0 U	< 1.0 U	< 1.0 U	0.21 J	< 1.0 U
cis-1,2-Dichloroethene	156-59-2	5	< 1.0 U	< 1.0 U	< 1.0 U	0.33 J	< 1.0 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	110-82-7	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromochloromethane	124-48-1	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane	75-71-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Ethane, 1,1,2-trichloro-1,2,2-trifluoro	76-13-1	5	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylene	XYLMP	5	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methyl Acetate	79-20-9	NC	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methylcyclohexane	108-87-2	NC	< 1.0 U	< 1.0 U	0.60 J	< 1.0 U	< 1.0 U
Methylene Chloride	75-09-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	< 1.0 U	< 1.0 U	< 1.0 U	0.48 J	0.74 J
n-Butylbenzene	104-51-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Propylbenzene	103-65-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	95-47-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
sec-Butylbenzene	135-98-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	100-42-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tert-Butylbenzene	98-06-6	5	< 1.0 U	0.58 J	0.49 J	0.22 J	0.44 J
Tetrachloroethene	127-18-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	108-88-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	156-60-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichloroethene	79-01-6	5	< 1.0 U	< 1.0 U	< 1.0 U	1.1	0.80 J
Trichlorofluoromethane	75-69-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlortrifluoroethane	26523-64-8	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl Chloride	75-01-4	2	< 1.0 U	< 1.0 U	< 1.0 U	0.50 J	0.36 J
Xylenes (total)	1330-20-7	5	0	0	0	0	0
TOTAL VOC TICs	NA	NC	NT	NT	NT	NT	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total Xylene calculated using o-xylene and m,p-xylene values.
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 10A - Groundwater Results - VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-107	OVR-107	OVR-108	OVR-108	OVR-109
		Sample ID	OVR-107-082316	OVR-107-121216	OVR-108-082216	OVR-108-121216	OVR-109-082216
		Sample Date	8/23/2016	12/12/2016	8/22/2016	12/12/2016	8/22/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1608915	R1613018	R1608824	R1613018	R1608824
Chemical Name	CAS #	NYS GW CLASS GA[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.84 J
1,1,2,2-Tetrachloroethane	79-34-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	79-00-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	75-34-3	5	< 1.0 U	< 1.0 U	2.1	< 1.0 U	1.9
1,1-Dichloroethene	75-35-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	95-63-6	5	0.78 J	2.5	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
1,2-Dibromoethane	106-93-4	0.0006	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	95-50-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	107-06-2	0.6	0.43 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	78-87-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	108-67-8	5	0.39 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichlorobenzene	541-73-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	106-46-7	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dioxane	123-91-1	NC	< 40 R	< 40 R	< 40 R	< 40 R	< 40 R
2-Butanone	78-93-3	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Hexanone	591-78-6	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
4-Isopropyltoluene	99-87-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-Pentanone	108-10-1	NC	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	67-64-1	50	11 J	3.2 J	< 5.0 UJ	1.4 J	< 5.0 UJ
Benzene	71-43-2	1	7.7	1.0	< 1.0 U	< 1.0 U	< 1.0 U
Bromochloromethane	74-97-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	75-27-4	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	75-25-2	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	74-83-9	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Carbon disulfide	75-15-0	60	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Carbon Tetrachloride	56-23-5	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U
Chlorobenzene	108-90-7	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	75-00-3	5	54	11	5.4	< 1.0 U	0.57 J
Chloroform	67-66-3	7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	74-87-3	5	0.29 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
cis-1,2-Dichloroethene	156-59-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	2.8
Cis-1,3-Dichloropropene	10061-01-5	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	110-82-7	NC	6.2	1.1	< 1.0 UJ	< 1.0 U	< 1.0 UJ
Dibromochloromethane	124-48-1	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane	75-71-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Ethane, 1,1,2-trichloro-1,2,2-trifluoro	76-13-1	5	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylene	XYLMP	5	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methyl Acetate	79-20-9	NC	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methylcyclohexane	108-87-2	NC	2.1	0.42 J	< 1.0 U	< 1.0 U	0.94 J
Methylene Chloride	75-09-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Butylbenzene	104-51-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Propylbenzene	103-65-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	95-47-6	5	0.25 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
sec-Butylbenzene	135-98-8	5	< 1.0 U	0.29 J	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	100-42-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tert-Butylbenzene	98-06-6	5	1.1	0.40 J	0.28 J	< 1.0 U	< 1.0 U
Tetrachloroethene	127-18-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	108-88-3	5	0.28 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	156-60-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichloroethene	79-01-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	7.3
Trichlorofluoromethane	75-69-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlortrifluoroethane	26523-64-8	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl Chloride	75-01-4	2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	1.1
Xylenes (total)	1330-20-7	5	0.25	0	0	0	0
TOTAL VOC TICs	NA	NC	34.5	NT	NT	NT	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total Xylene calculated using o-xylene and m,p-xylene values.
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 10A - Groundwater Results - VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-109	OVR-110	OVR-110	OVR-111	OVR-111
		Sample ID	OVR-109-121216	OVR-110-081616	OVR-110-120516	OVR-111-082216	OVR-111-120916
		Sample Date	12/12/2016	8/15/2016	12/5/2016	8/22/2016	12/9/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1613018	R1608604	R1612714	R1608824	R1612845
Chemical Name	CAS #	NYS GW CLASS GA[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	5	0.39 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	79-00-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	75-34-3	5	1.2	< 1.0 U	< 1.0 U	0.46 J	0.93 J
1,1-Dichloroethene	75-35-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	95-63-6	5	< 1.0 U	3.0	1.0	< 1.0 U	< 1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
1,2-Dibromoethane	106-93-4	0.0006	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	95-50-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	107-06-2	0.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	78-87-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	108-67-8	5	< 1.0 U	1.9	0.62 J	< 1.0 U	< 1.0 U
1,3-Dichlorobenzene	541-73-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	106-46-7	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dioxane	123-91-1	NC	< 40 R	< 40 R	< 40 R	< 40 R	< 40 R
2-Butanone	78-93-3	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Hexanone	591-78-6	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
4-Isopropyltoluene	99-87-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-Pentanone	108-10-1	NC	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	67-64-1	50	1.4 J	7.1 J	3.0 J	< 5.0 UJ	< 5.0 UJ
Benzene	71-43-2	1	< 1.0 U	1.2	0.60 J	< 1.0 U	< 1.0 U
Bromochloromethane	74-97-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	75-27-4	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	75-25-2	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	74-83-9	5	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 U
Carbon disulfide	75-15-0	60	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Carbon Tetrachloride	56-23-5	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Chlorobenzene	108-90-7	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	75-00-3	5	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U
Chloroform	67-66-3	7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	74-87-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
cis-1,2-Dichloroethene	156-59-2	5	1.3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	110-82-7	NC	< 1.0 U	12	5.1	< 1.0 U	< 1.0 U
Dibromochloromethane	124-48-1	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane	75-71-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Ethane, 1,1,2-trichloro-1,2,2-trifluoro	76-13-1	5	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	< 1.0 U	0.24 J	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 U	0.35 J	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylene	XYLMP	5	< 2.0 U	3.2	1.3 J	< 2.0 U	< 2.0 U
Methyl Acetate	79-20-9	NC	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methylcyclohexane	108-87-2	NC	< 1.0 U	19	7.9	< 1.0 U	< 1.0 U
Methylene Chloride	75-09-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Butylbenzene	104-51-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Propylbenzene	103-65-1	5	< 1.0 U	0.21 J	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	95-47-6	5	< 1.0 U	0.79 J	0.38 J	< 1.0 U	< 1.0 U
sec-Butylbenzene	135-98-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	100-42-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tert-Butylbenzene	98-06-6	5	< 1.0 U	0.33 J	< 1.0 U	< 1.0 U	< 1.0 U
Tetrachloroethene	127-18-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	108-88-3	5	< 1.0 U	0.28 J	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	156-60-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichloroethene	79-01-6	5	4.0	< 1.0 U	< 1.0 U	0.44 J	0.45 J
Trichlorofluoromethane	75-69-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlortrifluoroethane	26523-64-8	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl Chloride	75-01-4	2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Xylenes (total)	1330-20-7	5	0	3.99	1.68	0	0
TOTAL VOC TICs	NA	NC	NT	25.1	NT	NT	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total Xylene calculated using o-xylene and m,p-xylene values.
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 10A - Groundwater Results - VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-112	OVR-112	OVR-113	OVR-113	OVR-114
		Sample ID	OVR-112-081916	OVR-112-120816	OVR-113-081916	OVR-113-120816	OVR-114-081616
		Sample Date	8/19/2016	12/8/2016	8/19/2016	12/8/2016	8/15/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1608824	R1612845	R1608824	R1612845	R1608604
Chemical Name	CAS #	NYS GW CLASS GA[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	79-00-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	75-34-3	5	< 1.0 U	< 1.0 U	1.7	1.4	< 1.0 U
1,1-Dichloroethene	75-35-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	95-63-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 2.0 U	< 2.0 UJ	< 2.0 U	< 2.0 UJ	< 2.0 U
1,2-Dibromoethane	106-93-4	0.0006	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	95-50-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	107-06-2	0.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	78-87-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	108-67-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichlorobenzene	541-73-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	106-46-7	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dioxane	123-91-1	NC	< 40 R	< 40 R	< 40 R	< 40 R	< 40 R
2-Butanone	78-93-3	50	2.1 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Hexanone	591-78-6	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
4-Isopropyltoluene	99-87-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-Pentanone	108-10-1	NC	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	67-64-1	50	6.3	1.9 J	< 5.0 UJ	1.3 J	< 5.0 UJ
Benzene	71-43-2	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromochloromethane	74-97-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	75-27-4	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	75-25-2	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	74-83-9	5	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U
Carbon disulfide	75-15-0	60	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Carbon Tetrachloride	56-23-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorobenzene	108-90-7	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	75-00-3	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U
Chloroform	67-66-3	7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	74-87-3	5	0.22 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
cis-1,2-Dichloroethene	156-59-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	110-82-7	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromochloromethane	124-48-1	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane	75-71-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Ethane, 1,1,2-trichloro-1,2,2-trifluoro	76-13-1	5	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylene	XYLMP	5	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methyl Acetate	79-20-9	NC	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methylcyclohexane	108-87-2	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methylene Chloride	75-09-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Butylbenzene	104-51-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Propylbenzene	103-65-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	95-47-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
sec-Butylbenzene	135-98-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	100-42-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tert-Butylbenzene	98-06-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tetrachloroethene	127-18-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	108-88-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	156-60-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichloroethene	79-01-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlorofluoromethane	75-69-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlortrifluoroethane	26523-64-8	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl Chloride	75-01-4	2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Xylenes (total)	1330-20-7	5	0	0	0	0	0
TOTAL VOC TICs	NA	NC	NT	NT	NT	NT	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total Xylene calculated using o-xylene and m,p-xylene values.
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 10A - Groundwater Results - VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-114	OVR-115	OVR-115	OVR-116	OVR-116
		Sample ID	OVR-114-120516	OVR-115-081616	OVR-115-120616	DUP-011-081616	OVR-116-081616
		Sample Date	12/5/2016	8/15/2016	12/6/2016	8/15/2016	8/16/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1612714	R1608604	R1612714	R1608604	R1608604
Chemical Name	CAS #	NYS GW CLASS GA[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	79-00-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	75-34-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	75-35-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	95-63-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
1,2-Dibromoethane	106-93-4	0.0006	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	95-50-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	107-06-2	0.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	78-87-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	108-67-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichlorobenzene	541-73-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	106-46-7	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dioxane	123-91-1	NC	< 40 R	< 40 R	< 40 R	< 40 R	< 40 R
2-Butanone	78-93-3	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Hexanone	591-78-6	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
4-Isopropyltoluene	99-87-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-Pentanone	108-10-1	NC	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	67-64-1	50	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ
Benzene	71-43-2	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromochloromethane	74-97-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	75-27-4	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	75-25-2	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	74-83-9	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Carbon disulfide	75-15-0	60	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Carbon Tetrachloride	56-23-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorobenzene	108-90-7	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	75-00-3	5	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U
Chloroform	67-66-3	7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	74-87-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
cis-1,2-Dichloroethene	156-59-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	110-82-7	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromochloromethane	124-48-1	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane	75-71-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Ethane, 1,1,2-trichloro-1,2,2-trifluoro	76-13-1	5	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylene	XYLMP	5	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methyl Acetate	79-20-9	NC	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methylcyclohexane	108-87-2	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methylene Chloride	75-09-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Butylbenzene	104-51-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Propylbenzene	103-65-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	95-47-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
sec-Butylbenzene	135-98-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	100-42-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tert-Butylbenzene	98-06-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tetrachloroethene	127-18-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	108-88-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	156-60-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichloroethene	79-01-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlorofluoromethane	75-69-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlortrifluoroethane	26523-64-8	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl Chloride	75-01-4	2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Xylenes (total)	1330-20-7	5	0	0	0	0	0
TOTAL VOC TICs	NA	NC	NT	NT	NT	NT	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total Xylene calculated using o-xylene and m,p-xylene values.
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 10A - Groundwater Results - VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-116	OVR-117	OVR-117	OVR-118	OVR-118
		Sample ID	OVR-116-120616	OVR-117-082416	OVR-117-121316	OVR-118-081816	OVR-118-120716
		Sample Date	12/6/2016	8/24/2016	12/13/2016	8/18/2016	12/7/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1612714	R1608915	R1613018	R1608688	R1612845
Chemical Name	CAS #	NYS GW CLASS GA[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	5	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	79-00-5	1	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	75-34-3	5	< 1.0 U	< 1.0 U	< 5.0 U	0.31 J	< 1.0 U
1,1-Dichloroethene	75-35-4	5	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	95-63-6	5	< 1.0 U	8.7	3.0 J	< 1.0 U	< 1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 2.0 U	< 2.0 U	< 10 U	< 2.0 U	< 2.0 UJ
1,2-Dibromoethane	106-93-4	0.0006	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	95-50-1	3	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	107-06-2	0.6	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	78-87-5	1	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	108-67-8	5	< 1.0 U	11	3.1 J	< 1.0 U	< 1.0 U
1,3-Dichlorobenzene	541-73-1	3	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	106-46-7	3	< 1.0 U	< 1.0 U	< 5.0 U	0.74 J	1.3
1,4-Dioxane	123-91-1	NC	< 40 R	< 40 R	< 200 R	< 40 R	< 40 R
2-Butanone	78-93-3	50	< 5.0 U	150	36	< 5.0 U	< 5.0 U
2-Hexanone	591-78-6	50	< 5.0 U	87	< 25 U	< 5.0 U	< 5.0 U
4-Isopropyltoluene	99-87-6	5	< 1.0 U	0.33 J	< 5.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-Pentanone	108-10-1	NC	< 5.0 U	15	< 25 U	< 5.0 U	< 5.0 U
Acetone	67-64-1	50	< 5.0 UJ	170 J	54 J	< 5.0 UJ	< 5.0 UJ
Benzene	71-43-2	1	< 1.0 U	4.9	< 5.0 U	< 1.0 U	< 1.0 U
Bromochloromethane	74-97-5	5	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	75-27-4	50	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Bromoform	75-25-2	50	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Bromomethane	74-83-9	5	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Carbon disulfide	75-15-0	60	< 1.0 U	9.4	1.3 J	< 1.0 U	< 1.0 U
Carbon Tetrachloride	56-23-5	5	< 1.0 U	< 1.0 U	< 5.0 UJ	< 1.0 U	< 1.0 U
Chlorobenzene	108-90-7	5	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Chloroethane	75-00-3	5	< 1.0 UJ	0.62 J	1.9 J	< 1.0 U	< 1.0 UJ
Chloroform	67-66-3	7	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Chloromethane	74-87-3	5	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
cis-1,2-Dichloroethene	156-59-2	5	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Cyclohexane	110-82-7	NC	< 1.0 U	1.6	< 5.0 U	< 1.0 U	< 1.0 U
Dibromochloromethane	124-48-1	50	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane	75-71-8	5	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Ethane, 1,1,2-trichloro-1,2,2-trifluoro	76-13-1	5	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	< 1.0 U	8.5	2.2 J	< 1.0 U	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 U	0.99 J	< 5.0 U	< 1.0 U	< 1.0 U
m,p-Xylene	XYLMP	5	< 2.0 U	26	5.8 J	< 2.0 U	< 2.0 U
Methyl Acetate	79-20-9	NC	< 2.0 U	< 2.0 U	< 10 U	< 2.0 U	< 2.0 U
Methylcyclohexane	108-87-2	NC	< 1.0 U	4.9	3.0 J	< 1.0 U	< 1.0 U
Methylene Chloride	75-09-2	5	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
n-Butylbenzene	104-51-8	5	< 1.0 U	0.40 J	< 5.0 U	< 1.0 U	< 1.0 U
n-Propylbenzene	103-65-1	5	< 1.0 U	1.5	< 5.0 U	< 1.0 U	< 1.0 U
o-Xylene	95-47-6	5	< 1.0 U	7.2	< 5.0 U	< 1.0 U	< 1.0 U
sec-Butylbenzene	135-98-8	5	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Styrene	100-42-5	5	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Tert-Butylbenzene	98-06-6	5	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Tetrachloroethene	127-18-4	5	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Toluene	108-88-3	5	< 1.0 U	22	2.3 J	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	156-60-5	5	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Trichloroethene	79-01-6	5	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Trichlorofluoromethane	75-69-4	5	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Trichlortrifluoroethane	26523-64-8	NC	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Vinyl Chloride	75-01-4	2	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 1.0 U
Xylenes (total)	1330-20-7	5	0	33.2	5.8	0	0
TOTAL VOC TICs	NA	NC	NT	438	NT	NT	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total Xylene calculated using o-xylene and m,p-xylene values.
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 10A - Groundwater Results - VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-119	OVR-119	OVR-120	OVR-120	OVR-121
		Sample ID	OVR-119-081916	OVR-119-120816	OVR-120-081816	OVR-120-120816	OVR-121-081616
		Sample Date	8/19/2016	12/8/2016	8/18/2016	12/8/2016	8/16/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1608824	R1612845	R1608688	R1612845	R1608688
Chemical Name	CAS #	NYS GW CLASS GA[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	79-00-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	75-34-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	75-35-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	95-63-6	5	0.21 J	0.21 J	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 2.0 U	< 2.0 UJ	< 2.0 U	< 2.0 UJ	< 2.0 U
1,2-Dibromoethane	106-93-4	0.0006	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	95-50-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	107-06-2	0.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	78-87-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	108-67-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichlorobenzene	541-73-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	106-46-7	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dioxane	123-91-1	NC	< 40 R	< 40 R	< 40 R	< 40 R	< 40 R
2-Butanone	78-93-3	50	0.93 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Hexanone	591-78-6	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
4-Isopropyltoluene	99-87-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-Pentanone	108-10-1	NC	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	67-64-1	50	< 5.0 UJ	5.1 J	< 5.0 U	< 5.0 UJ	< 5.0 U
Benzene	71-43-2	1	0.73 J	0.71 J	< 1.0 U	< 1.0 U	< 1.0 U
Bromochloromethane	74-97-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	75-27-4	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	75-25-2	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	74-83-9	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ
Carbon disulfide	75-15-0	60	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.73 J
Carbon Tetrachloride	56-23-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorobenzene	108-90-7	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	75-00-3	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U
Chloroform	67-66-3	7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	74-87-3	5	< 1.0 U	0.29 J	< 1.0 U	< 1.0 U	< 1.0 UJ
cis-1,2-Dichloroethene	156-59-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	110-82-7	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromochloromethane	124-48-1	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane	75-71-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Ethane, 1,1,2-trichloro-1,2,2-trifluoro	76-13-1	5	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	0.33 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylene	XYLMP	5	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methyl Acetate	79-20-9	NC	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methylcyclohexane	108-87-2	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methylene Chloride	75-09-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Butylbenzene	104-51-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Propylbenzene	103-65-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	95-47-6	5	< 1.0 U	0.27 J	< 1.0 U	< 1.0 U	< 1.0 U
sec-Butylbenzene	135-98-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	100-42-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tert-Butylbenzene	98-06-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tetrachloroethene	127-18-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	108-88-3	5	< 1.0 U	0.26 J	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	156-60-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichloroethene	79-01-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlorofluoromethane	75-69-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlortrifluoroethane	26523-64-8	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl Chloride	75-01-4	2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Xylenes (total)	1330-20-7	5	0	0.27	0	0	0
TOTAL VOC TICs	NA	NC	NT	NT	NT	NT	12

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total Xylene calculated using o-xylene and m,p-xylene values.
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 10A - Groundwater Results - VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-121	OVR-122	OVR-122	OVR-123	OVR-123
		Sample ID	OVR-121-120616	OVR-122-081816	OVR-122-120716	OVR-123-081816	OVR-123-120716
		Sample Date	12/6/2016	8/18/2016	12/7/2016	8/18/2016	12/7/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1612714	R1608688	R1612845	R1608688	R1612845
Chemical Name	CAS #	NYS GW CLASS GA[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	79-00-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	75-34-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	75-35-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	95-63-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 2.0 U	< 2.0 U	< 2.0 UJ	< 2.0 U	< 2.0 UJ
1,2-Dibromoethane	106-93-4	0.0006	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	95-50-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	107-06-2	0.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	78-87-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	108-67-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichlorobenzene	541-73-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	106-46-7	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dioxane	123-91-1	NC	< 40 R	< 40 R	< 40 R	< 40 R	< 40 R
2-Butanone	78-93-3	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Hexanone	591-78-6	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
4-Isopropyltoluene	99-87-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-Pentanone	108-10-1	NC	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	67-64-1	50	1.9 J	< 5.0 U	< 5.0 UJ	< 5.0 U	3.7 J
Benzene	71-43-2	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromochloromethane	74-97-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	75-27-4	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	75-25-2	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	74-83-9	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Carbon disulfide	75-15-0	60	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Carbon Tetrachloride	56-23-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorobenzene	108-90-7	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	75-00-3	5	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 UJ
Chloroform	67-66-3	7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	74-87-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
cis-1,2-Dichloroethene	156-59-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	110-82-7	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromochloromethane	124-48-1	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane	75-71-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Ethane, 1,1,2-trichloro-1,2,2-trifluoro	76-13-1	5	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylene	XYLMP	5	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methyl Acetate	79-20-9	NC	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methylcyclohexane	108-87-2	NC	< 1.0 U	< 1.0 U	< 1.0 U	0.41 J	< 1.0 U
Methylene Chloride	75-09-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Butylbenzene	104-51-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Propylbenzene	103-65-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	95-47-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
sec-Butylbenzene	135-98-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	100-42-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tert-Butylbenzene	98-06-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tetrachloroethene	127-18-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	108-88-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	156-60-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichloroethene	79-01-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlorofluoromethane	75-69-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlortrifluoroethane	26523-64-8	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl Chloride	75-01-4	2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Xylenes (total)	1330-20-7	5	0	0	0	0	0
TOTAL VOC TICs	NA	NC	NT	NT	NT	NT	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total Xylene calculated using o-xylene and m,p-xylene values.
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 10A - Groundwater Results - VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-124	OVR-124	OVR-124	OVR-125	OVR-125
		Sample ID	OVR-124-081716	DUP-015-120716	OVR-124-120716	OVR-125-081716	OVR-125-120616
		Sample Date	8/17/2016	12/7/2016	12/7/2016	8/17/2016	12/6/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1608688	R1612845	R1612845	R1608688	R1612714
Chemical Name	CAS #	NYS GW CLASS GA[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	79-00-5	1	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	75-34-3	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	75-35-4	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	95-63-6	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 U	< 2.0 U
1,2-Dibromoethane	106-93-4	0.0006	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	95-50-1	3	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	107-06-2	0.6	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	78-87-5	1	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	108-67-8	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichlorobenzene	541-73-1	3	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	106-46-7	3	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dioxane	123-91-1	NC	< 40 R	< 40 R	< 40 R	< 40 R	< 40 R
2-Butanone	78-93-3	50	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Hexanone	591-78-6	50	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
4-Isopropyltoluene	99-87-6	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-Pentanone	108-10-1	NC	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	67-64-1	50	< 5.0 UJ	1.6 J	2.0 J	< 5.0 U	< 5.0 UJ
Benzene	71-43-2	1	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromochloromethane	74-97-5	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	75-27-4	50	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	75-25-2	50	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	74-83-9	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Carbon disulfide	75-15-0	60	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Carbon Tetrachloride	56-23-5	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorobenzene	108-90-7	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	75-00-3	5	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 UJ
Chloroform	67-66-3	7	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	74-87-3	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
cis-1,2-Dichloroethene	156-59-2	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	110-82-7	NC	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromochloromethane	124-48-1	50	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane	75-71-8	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Ethane, 1,1,2-trichloro-1,2,2-trifluoro	76-13-1	5	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylene	XYLMP	5	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methyl Acetate	79-20-9	NC	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methylcyclohexane	108-87-2	NC	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methylene Chloride	75-09-2	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Butylbenzene	104-51-8	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Propylbenzene	103-65-1	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	95-47-6	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
sec-Butylbenzene	135-98-8	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	100-42-5	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tert-Butylbenzene	98-06-6	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tetrachloroethene	127-18-4	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	108-88-3	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	156-60-5	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichloroethene	79-01-6	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlorofluoromethane	75-69-4	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlortrifluoroethane	26523-64-8	NC	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl Chloride	75-01-4	2	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Xylenes (total)	1330-20-7	5	0	0	0	0	0
TOTAL VOC TICs	NA	NC	NT	NT	NT	12.6	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total Xylene calculated using o-xylene and m,p-xylene values.
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 10A - Groundwater Results - VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-126	OVR-126	OVR-127	OVR-127	OVR-128
		Sample ID	OVR-126-081716	OVR-126-120616	OVR-127-081716	OVR-127-120616	OVR-128-081716
		Sample Date	8/17/2016	12/6/2016	8/17/2016	12/6/2016	8/17/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1608688	R1612714	R1608688	R1612714	R1608688
Chemical Name	CAS #	NYS GW CLASS GA[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	79-00-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	75-34-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	75-35-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	95-63-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
1,2-Dibromoethane	106-93-4	0.0006	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	95-50-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	107-06-2	0.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	78-87-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	108-67-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichlorobenzene	541-73-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	106-46-7	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dioxane	123-91-1	NC	< 40 R	< 40 R	< 40 R	< 40 R	< 40 R
2-Butanone	78-93-3	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Hexanone	591-78-6	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
4-Isopropyltoluene	99-87-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-Pentanone	108-10-1	NC	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	67-64-1	50	< 5.0 U	1.6 J	< 5.0 U	2.4 J	< 5.0 U
Benzene	71-43-2	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromochloromethane	74-97-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	75-27-4	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	75-25-2	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	74-83-9	5	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 UJ
Carbon disulfide	75-15-0	60	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Carbon Tetrachloride	56-23-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chlorobenzene	108-90-7	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	75-00-3	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U
Chloroform	67-66-3	7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	74-87-3	5	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 UJ
cis-1,2-Dichloroethene	156-59-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	110-82-7	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dibromochloromethane	124-48-1	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane	75-71-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Ethane, 1,1,2-trichloro-1,2,2-trifluoro	76-13-1	5	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylene	XYLMP	5	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methyl Acetate	79-20-9	NC	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methylcyclohexane	108-87-2	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methylene Chloride	75-09-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Butylbenzene	104-51-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Propylbenzene	103-65-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	95-47-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
sec-Butylbenzene	135-98-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	100-42-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tert-Butylbenzene	98-06-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tetrachloroethene	127-18-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	108-88-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	156-60-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichloroethene	79-01-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlorofluoromethane	75-69-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlortrifluoroethane	26523-64-8	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl Chloride	75-01-4	2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Xylenes (total)	1330-20-7	5	0	0	0	0	0
TOTAL VOC TICs	NA	NC	NT	NT	NT	NT	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total Xylene calculated using o-xylene and m,p-xylene values.
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 10A - Groundwater Results - VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-128	OVR-129	OVR-129	OVR-130	OVR-130
		Sample ID	OVR-128-120716	OVR-129-081716	OVR-129-120716	OVR-130-082316	DUP-016-121316
		Sample Date	12/7/2016	8/17/2016	12/7/2016	8/23/2016	12/13/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1612845	R1608688	R1612845	R1608915	R1613018
Chemical Name	CAS #	NYS GW CLASS GA[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	79-00-5	1	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	75-34-3	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethene	75-35-4	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	95-63-6	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 U	< 2.0 U
1,2-Dibromoethane	106-93-4	0.0006	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	95-50-1	3	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	107-06-2	0.6	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloropropane	78-87-5	1	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	108-67-8	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichlorobenzene	541-73-1	3	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	106-46-7	3	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dioxane	123-91-1	NC	< 40 R	< 40 R	< 40 R	< 40 R	< 40 R
2-Butanone	78-93-3	50	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U
2-Hexanone	591-78-6	50	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U
4-Isopropyltoluene	99-87-6	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-Pentanone	108-10-1	NC	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	67-64-1	50	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ
Benzene	71-43-2	1	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Bromochloromethane	74-97-5	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	75-27-4	50	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	75-25-2	50	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	74-83-9	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U
Carbon disulfide	75-15-0	60	< 1.0 U	< 1.0 UJ	< 1.0 U	0.45 J	< 1.0 U
Carbon Tetrachloride	56-23-5	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ
Chlorobenzene	108-90-7	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	75-00-3	5	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 U
Chloroform	67-66-3	7	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	74-87-3	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
cis-1,2-Dichloroethene	156-59-2	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	110-82-7	NC	< 1.0 U	< 1.0 UJ	< 1.0 U	1.3	1.1
Dibromochloromethane	124-48-1	50	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane	75-71-8	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Ethane, 1,1,2-trichloro-1,2,2-trifluoro	76-13-1	5	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylene	XYLMP	5	< 2.0 U	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U
Methyl Acetate	79-20-9	NC	< 2.0 U	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U
Methylcyclohexane	108-87-2	NC	< 1.0 U	< 1.0 UJ	< 1.0 U	0.46 J	0.36 J
Methylene Chloride	75-09-2	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
n-Butylbenzene	104-51-8	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
n-Propylbenzene	103-65-1	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	95-47-6	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
sec-Butylbenzene	135-98-8	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Styrene	100-42-5	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Tert-Butylbenzene	98-06-6	5	< 1.0 U	< 1.0 UJ	< 1.0 U	0.55 J	0.82 J
Tetrachloroethene	127-18-4	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	108-88-3	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	156-60-5	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Trichloroethene	79-01-6	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Trichlorofluoromethane	75-69-4	5	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Trichlortrifluoroethane	26523-64-8	NC	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl Chloride	75-01-4	2	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Xylenes (total)	1330-20-7	5	0	0	0	0	0
TOTAL VOC TICs	NA	NC	NT	NT	NT	26	15.7

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total Xylene calculated using o-xylene and m,p-xylene values.
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 10A - Groundwater Results - VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-130	OVR-131	OVR-131	OVR-131	OVR-132
		Sample ID	OVR-130-121316	DUP-012-082316	OVR-131-082316	OVR-131-121316	OVR-132-082316
		Sample Date	12/13/2016	8/23/2016	8/23/2016	12/13/2016	8/23/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1613018	R1608915	R1608915	R1613018	R1608915
Chemical Name	CAS #	NYS GW CLASS GA[1]					
VOCs							
1,1,1-Trichloroethane	71-55-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1,2-Trichloroethane	79-00-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,1-Dichloroethane	75-34-3	5	< 1.0 U	0.24 J	0.27 J	< 1.0 U	77
1,1-Dichloroethene	75-35-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.67 J
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2,4-Trimethylbenzene	95-63-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
1,2-Dibromoethane	106-93-4	0.0006	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichlorobenzene	95-50-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,2-Dichloroethane	107-06-2	0.6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.44 J
1,2-Dichloropropane	78-87-5	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3,5-Trimethylbenzene	108-67-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,3-Dichlorobenzene	541-73-1	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dichlorobenzene	106-46-7	3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
1,4-Dioxane	123-91-1	NC	< 40 R	< 40 R	< 40 R	< 40 R	< 40 R
2-Butanone	78-93-3	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
2-Hexanone	591-78-6	50	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
4-Isopropyltoluene	99-87-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
4-Methyl-2-Pentanone	108-10-1	NC	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Acetone	67-64-1	50	4.7 J	< 5.0 UJ	< 5.0 UJ	1.5 J	< 5.0 UJ
Benzene	71-43-2	1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	1.4
Bromochloromethane	74-97-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromodichloromethane	75-27-4	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromoform	75-25-2	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Bromomethane	74-83-9	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Carbon disulfide	75-15-0	60	< 1.0 U	0.40 J	< 1.0 U	< 1.0 U	< 1.0 U
Carbon Tetrachloride	56-23-5	5	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U
Chlorobenzene	108-90-7	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloroethane	75-00-3	5	< 1.0 U	0.25 J	< 1.0 U	< 1.0 U	12
Chloroform	67-66-3	7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Chloromethane	74-87-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.44 J
cis-1,2-Dichloroethene	156-59-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	2.8
Cis-1,3-Dichloropropene	10061-01-5	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cyclohexane	110-82-7	NC	1.2	< 1.0 U	< 1.0 U	< 1.0 U	0.83 J
Dibromochloromethane	124-48-1	50	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Dichlorodifluoromethane	75-71-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Ethane, 1,1,2-trichloro-1,2,2-trifluoro	76-13-1	5	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
m,p-Xylene	XYLMP	5	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methyl Acetate	79-20-9	NC	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Methylcyclohexane	108-87-2	NC	0.38 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methylene Chloride	75-09-2	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Butylbenzene	104-51-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
n-Propylbenzene	103-65-1	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
o-Xylene	95-47-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
sec-Butylbenzene	135-98-8	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.35 J
Styrene	100-42-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Tert-Butylbenzene	98-06-6	5	0.70 J	< 1.0 U	< 1.0 U	< 1.0 U	0.75 J
Tetrachloroethene	127-18-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Toluene	108-88-3	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
trans-1,2-Dichloroethene	156-60-5	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichloroethene	79-01-6	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	3.1
Trichlorofluoromethane	75-69-4	5	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Trichlortrifluoroethane	26523-64-8	NC	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vinyl Chloride	75-01-4	2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	2.1
Xylenes (total)	1330-20-7	5	0	0	0	0	0
TOTAL VOC TICs	NA	NC	17	NT	17	8.8	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total Xylene calculated using o-xylene and m,p-xylene values.
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 10A - Groundwater Results - VOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-132
		Sample ID	OVR-132-121216
		Sample Date	12/12/2016
		Unit	µg/L
		Lab SDG	R1613018
Chemical Name	CAS #	NYS GW CLASS GA[1]	
VOCs			
1,1,1-Trichloroethane	71-55-6	5	< 1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	< 1.0 U
1,1,2-Trichloroethane	79-00-5	1	< 1.0 U
1,1-Dichloroethane	75-34-3	5	26
1,1-Dichloroethene	75-35-4	5	< 1.0 U
1,2,3-Trichlorobenzene	87-61-6	5	< 1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	< 1.0 U
1,2,4-Trimethylbenzene	95-63-6	5	0.23 J
1,2-Dibromo-3-chloropropane	96-12-8	0.04	< 2.0 U
1,2-Dibromoethane	106-93-4	0.0006	< 1.0 U
1,2-Dichlorobenzene	95-50-1	3	< 1.0 U
1,2-Dichloroethane	107-06-2	0.6	< 1.0 U
1,2-Dichloropropane	78-87-5	1	< 1.0 U
1,3,5-Trimethylbenzene	108-67-8	5	< 1.0 U
1,3-Dichlorobenzene	541-73-1	3	< 1.0 U
1,4-Dichlorobenzene	106-46-7	3	< 1.0 U
1,4-Dioxane	123-91-1	NC	< 40 R
2-Butanone	78-93-3	50	< 5.0 U
2-Hexanone	591-78-6	50	< 5.0 U
4-Isopropyltoluene	99-87-6	5	< 1.0 U
4-Methyl-2-Pentanone	108-10-1	NC	< 5.0 U
Acetone	67-64-1	50	2.0 J
Benzene	71-43-2	1	0.87 J
Bromochloromethane	74-97-5	5	< 1.0 U
Bromodichloromethane	75-27-4	50	< 1.0 U
Bromoform	75-25-2	50	< 1.0 U
Bromomethane	74-83-9	5	< 1.0 U
Carbon disulfide	75-15-0	60	< 1.0 U
Carbon Tetrachloride	56-23-5	5	< 1.0 UJ
Chlorobenzene	108-90-7	5	< 1.0 U
Chloroethane	75-00-3	5	16
Chloroform	67-66-3	7	< 1.0 U
Chloromethane	74-87-3	5	< 1.0 U
cis-1,2-Dichloroethene	156-59-2	5	1.3
Cis-1,3-Dichloropropene	10061-01-5	0.4	< 1.0 U
Cyclohexane	110-82-7	NC	0.29 J
Dibromochloromethane	124-48-1	50	< 1.0 U
Dichlorodifluoromethane	75-71-8	5	< 1.0 U
Ethane, 1,1,2-trichloro-1,2,2-trifluoro	76-13-1	5	NA
Ethylbenzene	100-41-4	5	< 1.0 U
Isopropylbenzene	98-82-8	5	< 1.0 U
m,p-Xylene	XYLMP	5	< 2.0 U
Methyl Acetate	79-20-9	NC	< 2.0 U
Methylcyclohexane	108-87-2	NC	< 1.0 U
Methylene Chloride	75-09-2	5	< 1.0 U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	< 1.0 U
n-Butylbenzene	104-51-8	5	< 1.0 U
n-Propylbenzene	103-65-1	5	< 1.0 U
o-Xylene	95-47-6	5	< 1.0 U
sec-Butylbenzene	135-98-8	5	0.32 J
Styrene	100-42-5	5	< 1.0 U
Tert-Butylbenzene	98-06-6	5	0.53 J
Tetrachloroethene	127-18-4	5	< 1.0 U
Toluene	108-88-3	5	< 1.0 U
trans-1,2-Dichloroethene	156-60-5	5	< 1.0 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	< 1.0 U
Trichloroethene	79-01-6	5	1.4
Trichlorofluoromethane	75-69-4	5	< 1.0 U
Trichlortrifluoroethane	26523-64-8	NC	< 1.0 U
Vinyl Chloride	75-01-4	2	1.4
Xylenes (total)	1330-20-7	5	0
TOTAL VOC TICs	NA	NC	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total Xylene calculated using o-xylene and m,p-xylene values.
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 10B - Groundwater Results - SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	BED1-100	BED1-100	BED1-101	BED1-101	BED1-102	BED1-102
		Sample ID	BED1-100-082316	BED1-100-121316	BED1-101-082416	BED1-101-121216	BED1-102-081516	BED1-102-120516
		Sample Date	8/23/2016	12/13/2016	8/24/2016	12/12/2016	8/15/2016	12/5/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	2170212	R1613018	2170212	R1613018	2168497	R1612714
Chemical Name	CAS #	NYS GW CLASS GA[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
1,2,4,5-Tetrachlorobenzene	95-94-3	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
2,4,5-Trichlorophenol	95-95-4	1	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
2,4,6-Trichlorophenol	88-06-2	NC	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
2,4-Dichlorophenol	120-83-2	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
2,4-Dimethylphenol	105-67-9	50	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
2,4-Dinitrophenol	51-28-5	10	< 5.6 U	< 47 U	< 5.7 U	< 47 U	< 6.2 U	< 47 U
2,4-Dinitrotoluene	121-14-2	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 UJ
2,6-Dinitrotoluene	606-20-2	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
2-Chloronaphthalene	91-58-7	10	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
2-Chlorophenol	95-57-8	1	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
2-Methylnaphthalene	91-57-6	NC	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U
2-Methylphenol	95-48-7	1	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
2-Nitroaniline	88-74-4	5	< 2.8 U	< 47 U	< 2.9 U	< 47 U	< 3.1 U	< 47 U
2-Nitrophenol	88-75-5	1	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
3- AND 4- Methylphenol (TOTAL)	106-44-5	NC	NA	< 9.4 UJ	NA	< 9.4 UJ	NA	< 9.4 U
3,3-Dichlorobenzidine	91-94-1	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
3-Nitroaniline	99-09-2	5	< 2.8 U	< 47 U	< 2.9 U	< 47 U	< 3.1 U	< 47 U
4,6-Dinitro-2-methylphenol	534-52-1	1	< 5.6 U	< 47 U	< 5.7 U	< 47 U	< 6.2 U	< 47 U
4-Bromophenyl-phenylether	101-55-3	NC	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
4-Chloro-3-methylphenol	59-50-7	1	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
4-Chloroaniline	106-47-8	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
4-Chlorophenyl-phenylether	7005-72-3	NC	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
4-Nitroaniline	100-01-6	5	< 2.8 U	< 47 U	< 2.9 U	< 47 U	< 3.1 U	< 47 U
4-Nitrophenol	100-02-7	1	< 2.8 U	< 47 UJ	< 2.9 U	< 47 UJ	< 3.1 U	< 47 U
Acenaphthene	83-32-9	NC	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U
Acenaphthylene	208-96-8	NC	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U
Acetophenone	98-86-2	NC	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
Anthracene	120-12-7	50	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U
Atrazine	1912-24-9	7.5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
Benzaldehyde	100-52-7	NC	< 2.8 U	< 47 UJ	< 2.9 U	< 47 UJ	< 3.1 U	< 47 U
Benzidine	92-87-5	5	< 7.5 U	< 94 U	< 7.7 U	< 94 U	< 8.2 U	< 94 U
Benzo[a]anthracene	56-55-3	0.002	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U
Benzo[a]pyrene	50-32-8	0	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U
Benzo[b]fluoranthene	205-99-2	0.002	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U
Benzo[g,h,i]perylene	191-24-2	NC	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U
Benzo[k]fluoranthene	207-08-9	0.002	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U
Bis(2-Chloroethoxy)methane	111-91-1	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
Bis(2-Chloroethyl)Ether	111-44-4	1	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
Bis(2-Chloroisopropyl)ether	108-60-1	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
Bis(2-Ethylhexyl)phthalate	117-81-7	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
Butylbenzylphthalate	85-68-7	50	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
Caprolactam	105-60-2	NC	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
Carbazole	86-74-8	NC	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
Chrysene	218-01-9	0.002	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U
Dibenzo[a,h]Anthracene	53-70-3	NC	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U
Dibenzofuran	132-64-9	NC	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
Diethylphthalate	84-66-2	50	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
Dimethylphthalate	131-11-3	50	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
Di-n-butylphthalate	84-74-2	50	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
Di-n-octylphthalate	117-84-0	50	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
Fluoranthene	206-44-0	50	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U
Fluorene	86-73-7	50	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U
Hexachlorobenzene	118-74-1	0.04	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
Hexachlorobutadiene	87-68-3	0.5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
Hexachlorocyclopentadiene	77-47-4	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 UJ
Hexachloroethane	67-72-1	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
Indeno[1,2,3-cd]pyrene	193-39-5	0.002	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U
Isophorone	78-59-1	50	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
m-Cresol & p-Cresol	MEPH1314	NC	< 2.8 U	NA	< 2.9 U	NA	< 3.1 U	NA
Naphthalene	91-20-3	10	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U
Nitrobenzene	98-95-3	0.4	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
N-Nitrosodiphenylamine	86-30-6	50	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 3.1 U	< 9.4 U
Pentachlorophenol	87-86-5	NC	< 5.6 U	< 47 U	< 5.7 U	< 47 U	< 6.2 U	< 47 U
Phenanthrene	85-01-8	50	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U
Phenol	108-95-2	NC	< 7.5 U	< 9.4 UJ	< 7.7 U	< 9.4 UJ	< 8.2 U	< 9.4 U
Pyrene	129-00-0	50	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U
Pyridine	110-86-1	50	< 2.8 U	< 47 UJ	< 2.9 U	< 47 UJ	< 3.1 U	< 47 U
Total SVOCs TICs	NA	NC	34.7	NT	NT	NT	90.8	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10B - Groundwater Results - SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	BED1-103	BED1-103	BED1-104	BED1-104	MW-3	MW-3
		Sample ID	BED1-103-081916	BED1-103-120916	BED1-104-081816	BED1-104-120816	MW-3-082316	MW-3-120916
		Sample Date	8/19/2016	12/9/2016	8/18/2016	12/8/2016	8/23/2016	12/9/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	2169456	R1612845	2169456	R1612845	2170212	R1612845
Chemical Name	CAS #	NYS GW CLASS GA[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	5	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
1,2,4,5-Tetrachlorobenzene	95-94-3	5	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
2,4,5-Trichlorophenol	95-95-4	1	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
2,4,6-Trichlorophenol	88-06-2	NC	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
2,4-Dichlorophenol	120-83-2	5	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
2,4-Dimethylphenol	105-67-9	50	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
2,4-Dinitrophenol	51-28-5	10	< 5.9 U	< 47 U	< 5.6 UJ	< 47 U	< 5.6 U	< 47 U
2,4-Dinitrotoluene	121-14-2	5	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
2,6-Dinitrotoluene	606-20-2	5	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
2-Chloronaphthalene	91-58-7	10	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
2-Chlorophenol	95-57-8	1	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
2-Methylnaphthalene	91-57-6	NC	< 1.5 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.4 U	< 9.4 U
2-Methylphenol	95-48-7	1	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
2-Nitroaniline	88-74-4	5	< 3.0 U	< 47 U	< 2.8 UJ	< 47 U	< 2.8 U	< 47 U
2-Nitrophenol	88-75-5	1	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
3- AND 4- Methylphenol (TOTAL)	106-44-5	NC	NA	< 9.4 U	NA	< 9.4 U	NA	< 9.4 U
3,3-Dichlorobenzidine	91-94-1	5	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
3-Nitroaniline	99-09-2	5	< 3.0 U	< 47 U	< 2.8 UJ	< 47 U	< 2.8 U	< 47 U
4,6-Dinitro-2-methylphenol	534-52-1	1	< 5.9 U	< 47 U	< 5.6 UJ	< 47 U	< 5.6 U	< 47 U
4-Bromophenyl-phenylether	101-55-3	NC	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
4-Chloro-3-methylphenol	59-50-7	1	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
4-Chloroaniline	106-47-8	5	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
4-Chlorophenyl-phenylether	7005-72-3	NC	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
4-Nitroaniline	100-01-6	5	< 3.0 U	< 47 U	< 2.8 UJ	< 47 U	< 2.8 U	< 47 U
4-Nitrophenol	100-02-7	1	< 3.0 U	< 47 U	< 2.8 UJ	< 47 U	< 2.8 U	< 47 U
Acenaphthene	83-32-9	NC	< 1.5 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.4 U	< 9.4 U
Acenaphthylene	208-96-8	NC	< 1.5 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.4 U	< 9.4 U
Acetophenone	98-86-2	NC	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
Anthracene	120-12-7	50	< 1.5 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.4 U	< 9.4 U
Atrazine	1912-24-9	7.5	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
Benzaldehyde	100-52-7	NC	< 3.0 U	< 47 U	< 2.8 UJ	< 47 U	< 2.8 U	< 47 U
Benzidine	92-87-5	5	< 7.9 U	< 94 U	< 7.4 UJ	< 94 U	< 7.5 U	< 94 U
Benzo[a]anthracene	56-55-3	0.002	< 1.5 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[a]pyrene	50-32-8	0	< 1.5 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[b]fluoranthene	205-99-2	0.002	< 1.5 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[g,h,i]perylene	191-24-2	NC	< 1.5 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[k]fluoranthene	207-08-9	0.002	< 1.5 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.4 U	< 9.4 U
Bis(2-Chloroethoxy)methane	111-91-1	5	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
Bis(2-Chloroethyl)Ether	111-44-4	1	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
Bis(2-Chloroisopropyl)ether	108-60-1	5	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
Bis(2-Ethylhexyl)phthalate	117-81-7	5	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
Butylbenzylphthalate	85-68-7	50	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
Caprolactam	105-60-2	NC	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
Carbazole	86-74-8	NC	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
Chrysene	218-01-9	0.002	< 1.5 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.4 U	< 9.4 U
Dibenzo[a,h]Anthracene	53-70-3	NC	< 1.5 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.4 U	< 9.4 U
Dibenzofuran	132-64-9	NC	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
Diethylphthalate	84-66-2	50	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
Dimethylphthalate	131-11-3	50	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
Di-n-butylphthalate	84-74-2	50	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
Di-n-octylphthalate	117-84-0	50	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
Fluoranthene	206-44-0	50	< 1.5 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.4 U	< 9.4 U
Fluorene	86-73-7	50	< 1.5 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.4 U	< 9.4 U
Hexachlorobenzene	118-74-1	0.04	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
Hexachlorobutadiene	87-68-3	0.5	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
Hexachlorocyclopentadiene	77-47-4	5	< 3.0 U	< 9.4 UJ	< 2.8 UJ	< 9.4 UJ	< 2.8 U	< 9.4 UJ
Hexachloroethane	67-72-1	5	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
Indeno[1,2,3-cd]pyrene	193-39-5	0.002	< 1.5 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.4 U	< 9.4 U
Isophorone	78-59-1	50	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
m-Cresol & p-Cresol	MEPH1314	NC	< 3.0 U	NA	< 2.8 UJ	NA	< 2.8 U	NA
Naphthalene	91-20-3	10	< 1.5 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.4 U	< 9.4 U
Nitrobenzene	98-95-3	0.4	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
N-Nitrosodiphenylamine	86-30-6	50	< 3.0 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U
Pentachlorophenol	87-86-5	NC	< 5.9 U	< 47 U	< 5.6 UJ	< 47 U	< 5.6 U	< 47 U
Phenanthrene	85-01-8	50	< 1.5 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.4 U	< 9.4 U
Phenol	108-95-2	NC	< 7.9 U	< 9.4 U	< 7.4 UJ	< 9.4 U	< 7.5 U	< 9.4 U
Pyrene	129-00-0	50	< 1.5 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.4 U	< 9.4 U
Pyridine	110-86-1	50	< 3.0 U	< 47 U	< 2.8 UJ	< 47 U	< 2.8 U	< 47 U
Total SVOCs TICs	NA	NC	NT	NT	NT	NT	9	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10B - Groundwater Results - SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-100	OVR-100	OVR-101	OVR-101	OVR-102	OVR-102
		Sample ID	OVR-100-082316	OVR-100-121316	OVR-101-082416	OVR-101-121316	OVR-102-081516	OVR-102-120516
		Sample Date	8/23/2016	12/13/2016	8/24/2016	12/13/2016	8/15/2016	12/5/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	2170212	R1613018	2170212	R1613018	2168497	R1612714
Chemical Name	CAS #	NYS GW CLASS GA[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	5	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
1,2,4,5-Tetrachlorobenzene	95-94-3	5	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
2,4,5-Trichlorophenol	95-95-4	1	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
2,4,6-Trichlorophenol	88-06-2	NC	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
2,4-Dichlorophenol	120-83-2	5	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
2,4-Dimethylphenol	105-67-9	50	< 3.0 U	< 9.4 U	0.56 J	< 9.4 U	< 2.8 U	< 9.4 U
2,4-Dinitrophenol	51-28-5	10	< 5.9 U	< 47 U	< 5.6 U	< 47 U	< 5.6 U	< 47 U
2,4-Dinitrotoluene	121-14-2	5	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 UJ
2,6-Dinitrotoluene	606-20-2	5	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
2-Chloronaphthalene	91-58-7	10	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
2-Chlorophenol	95-57-8	1	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
2-Methylnaphthalene	91-57-6	NC	< 1.5 U	< 9.4 U	0.24 J	< 9.4 U	< 1.4 U	< 9.4 U
2-Methylphenol	95-48-7	1	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
2-Nitroaniline	88-74-4	5	< 3.0 U	< 47 U	< 2.8 U	< 47 U	< 2.8 U	< 47 U
2-Nitrophenol	88-75-5	1	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
3- AND 4- Methylphenol (TOTAL)	106-44-5	NC	NA	< 9.4 U	NA	< 9.4 U	NA	< 9.4 U
3,3-Dichlorobenzidine	91-94-1	5	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
3-Nitroaniline	99-09-2	5	< 3.0 U	< 47 U	< 2.8 U	< 47 U	< 2.8 U	< 47 U
4,6-Dinitro-2-methylphenol	534-52-1	1	< 5.9 U	< 47 U	< 5.6 U	< 47 U	< 5.6 U	< 47 U
4-Bromophenyl-phenylether	101-55-3	NC	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
4-Chloro-3-methylphenol	59-50-7	1	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
4-Chloroaniline	106-47-8	5	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
4-Chlorophenyl-phenylether	7005-72-3	NC	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
4-Nitroaniline	100-01-6	5	< 3.0 U	< 47 U	< 2.8 U	< 47 U	< 2.8 U	< 47 U
4-Nitrophenol	100-02-7	1	< 3.0 U	< 47 U	< 2.8 U	< 47 U	< 2.8 U	< 47 U
Acenaphthene	83-32-9	NC	< 1.5 U	< 9.4 U	2.3	2.4 J	< 1.4 U	< 9.4 U
Acenaphthylene	208-96-8	NC	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Acetophenone	98-86-2	NC	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Anthracene	120-12-7	50	< 1.5 U	< 9.4 U	0.64 J	< 9.4 U	< 1.4 U	< 9.4 U
Atrazine	1912-24-9	7.5	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Benzaldehyde	100-52-7	NC	< 3.0 U	< 47 U	< 2.8 U	< 47 U	< 2.8 U	< 47 U
Benzidine	92-87-5	5	< 7.9 U	< 94 U	< 7.5 R	< 94 U	< 7.5 U	< 94 U
Benzo[a]anthracene	56-55-3	0.002	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[a]pyrene	50-32-8	0	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[b]fluoranthene	205-99-2	0.002	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[g,h,i]perylene	191-24-2	NC	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[k]fluoranthene	207-08-9	0.002	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Bis(2-Chloroethoxy)methane	111-91-1	5	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Bis(2-Chloroethyl)Ether	111-44-4	1	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Bis(2-Chloroisopropyl)ether	108-60-1	5	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Bis(2-Ethylhexyl)phthalate	117-81-7	5	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	1.5 J
Butylbenzylphthalate	85-68-7	50	0.12 J	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Caprolactam	105-60-2	NC	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Carbazole	86-74-8	NC	< 3.0 U	< 9.4 U	2.3 J	1.2 J	< 2.8 U	< 9.4 U
Chrysene	218-01-9	0.002	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Dibenzo[a,h]Anthracene	53-70-3	NC	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Dibenzofuran	132-64-9	NC	< 3.0 U	< 9.4 U	1.7 J	1.5 J	< 2.8 U	< 9.4 U
Diethylphthalate	84-66-2	50	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Dimethylphthalate	131-11-3	50	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Di-n-butylphthalate	84-74-2	50	< 3.0 U	< 9.4 U	0.15 J	< 9.4 U	< 2.8 U	< 9.4 U
Di-n-octylphthalate	117-84-0	50	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Fluoranthene	206-44-0	50	< 1.5 U	< 9.4 U	0.63 J	1.0 J	< 1.4 U	< 9.4 U
Fluorene	86-73-7	50	< 1.5 U	< 9.4 U	2.5	2.3 J	< 1.4 U	< 9.4 U
Hexachlorobenzene	118-74-1	0.04	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Hexachlorobutadiene	87-68-3	0.5	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Hexachlorocyclopentadiene	77-47-4	5	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 UJ
Hexachloroethane	67-72-1	5	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Indeno[1,2,3-cd]pyrene	193-39-5	0.002	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Isophorone	78-59-1	50	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
m-Cresol & p-Cresol	MEPH1314	NC	< 3.0 U	NA	< 2.8 U	NA	0.60 J	NA
Naphthalene	91-20-3	10	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Nitrobenzene	98-95-3	0.4	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
N-Nitrosodiphenylamine	86-30-6	50	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Pentachlorophenol	87-86-5	NC	< 5.9 U	< 47 U	< 5.6 U	< 47 U	< 5.6 U	< 47 U
Phenanthrene	85-01-8	50	< 1.5 U	< 9.4 U	1.3 J	2.9 J	< 1.4 U	< 9.4 U
Phenol	108-95-2	NC	< 7.9 U	< 9.4 U	< 7.5 U	< 9.4 U	< 7.5 U	< 9.4 U
Pyrene	129-00-0	50	< 1.5 U	< 9.4 U	0.40 J	< 9.4 U	< 1.4 U	< 9.4 U
Pyridine	110-86-1	50	< 3.0 U	< 47 U	< 2.8 U	< 47 U	< 2.8 U	< 47 U
Total SVOCs TICs	NA	NC	NT	NT	60	NT	16.8	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10B - Groundwater Results - SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-103	OVR-103	OVR-104	OVR-104	OVR-105	OVR-105
		Sample ID	OVR-103-082216	OVR-103-120916	OVR-104-081816	OVR-104-120816	OVR-105-081516	OVR-105-081516
		Sample Date	8/22/2016	12/9/2016	8/18/2016	12/8/2016	8/15/2016	8/15/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	2169456	R1612845	2169456	R1612845	2168497	2170212
Chemical Name	CAS #	NYS GW CLASS GA[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	5	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
1,2,4,5-Tetrachlorobenzene	95-94-3	5	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
2,4,5-Trichlorophenol	95-95-4	1	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
2,4,6-Trichlorophenol	88-06-2	NC	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
2,4-Dichlorophenol	120-83-2	5	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
2,4-Dimethylphenol	105-67-9	50	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
2,4-Dinitrophenol	51-28-5	10	< 5.6 U	< 47 U	< 5.6 UJ	< 47 U	< 5.8 U	< 5.8 U
2,4-Dinitrotoluene	121-14-2	5	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
2,6-Dinitrotoluene	606-20-2	5	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
2-Chloronaphthalene	91-58-7	10	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
2-Chlorophenol	95-57-8	1	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
2-Methylnaphthalene	91-57-6	NC	< 1.4 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.5 U	< 1.4 U
2-Methylphenol	95-48-7	1	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
2-Nitroaniline	88-74-4	5	< 2.8 U	< 47 U	< 2.8 UJ	< 47 U	< 2.9 U	< 2.9 U
2-Nitrophenol	88-75-5	1	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
3- AND 4- Methylphenol (TOTAL)	106-44-5	NC	NA	< 9.4 U	NA	< 9.4 U	NA	NA
3,3-Dichlorobenzidine	91-94-1	5	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
3-Nitroaniline	99-09-2	5	< 2.8 U	< 47 U	< 2.8 UJ	< 47 U	< 2.9 U	< 2.9 U
4,6-Dinitro-2-methylphenol	534-52-1	1	< 5.6 U	< 47 U	< 5.6 UJ	< 47 U	< 5.8 U	< 5.8 U
4-Bromophenyl-phenylether	101-55-3	NC	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
4-Chloro-3-methylphenol	59-50-7	1	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
4-Chloroaniline	106-47-8	5	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
4-Chlorophenyl-phenylether	7005-72-3	NC	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
4-Nitroaniline	100-01-6	5	< 2.8 U	< 47 U	< 2.8 UJ	< 47 U	< 2.9 U	< 2.9 U
4-Nitrophenol	100-02-7	1	< 2.8 U	< 47 U	< 2.8 UJ	< 47 U	< 2.9 U	< 2.9 U
Acenaphthene	83-32-9	NC	< 1.4 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.5 U	< 1.4 U
Acenaphthylene	208-96-8	NC	< 1.4 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.5 U	< 1.4 U
Acetophenone	98-86-2	NC	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
Anthracene	120-12-7	50	< 1.4 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.5 U	< 1.4 U
Atrazine	1912-24-9	7.5	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
Benzaldehyde	100-52-7	NC	< 2.8 U	< 47 U	< 2.8 UJ	< 47 U	< 2.9 U	< 2.9 U
Benzidine	92-87-5	5	< 7.5 U	< 94 U	< 7.4 UJ	< 94 U	< 7.8 U	< 7.7 U
Benzo[a]anthracene	56-55-3	0.002	< 1.4 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.5 U	< 1.4 U
Benzo[a]pyrene	50-32-8	0	< 1.4 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.5 U	< 1.4 U
Benzo[b]fluoranthene	205-99-2	0.002	< 1.4 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.5 U	< 1.4 U
Benzo[g,h,i]perylene	191-24-2	NC	< 1.4 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.5 U	< 1.4 U
Benzo[k]fluoranthene	207-08-9	0.002	< 1.4 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.5 U	< 1.4 U
Bis(2-Chloroethoxy)methane	111-91-1	5	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
Bis(2-Chloroethyl)Ether	111-44-4	1	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
Bis(2-Chloroisopropyl)ether	108-60-1	5	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
Bis(2-Ethylhexyl)phthalate	117-81-7	5	< 2.8 U	1.8 J	< 2.8 UJ	< 9.4 U	0.25 J	< 2.9 U
Butylbenzylphthalate	85-68-7	50	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
Caprolactam	105-60-2	NC	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
Carbazole	86-74-8	NC	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
Chrysene	218-01-9	0.002	< 1.4 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.5 U	< 1.4 U
Dibenzo[a,h]Anthracene	53-70-3	NC	< 1.4 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.5 U	< 1.4 U
Dibenzofuran	132-64-9	NC	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
Diethylphthalate	84-66-2	50	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	0.29 J	0.18 J
Dimethylphthalate	131-11-3	50	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
Di-n-butylphthalate	84-74-2	50	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	0.15 J	< 2.9 U
Di-n-octylphthalate	117-84-0	50	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
Fluoranthene	206-44-0	50	< 1.4 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.5 U	< 1.4 U
Fluorene	86-73-7	50	< 1.4 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.5 U	< 1.4 U
Hexachlorobenzene	118-74-1	0.04	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
Hexachlorobutadiene	87-68-3	0.5	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
Hexachlorocyclopentadiene	77-47-4	5	< 2.8 U	< 9.4 UJ	< 2.8 UJ	< 9.4 UJ	< 2.9 U	< 2.9 U
Hexachloroethane	67-72-1	5	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
Indeno[1,2,3-cd]pyrene	193-39-5	0.002	< 1.4 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.5 U	< 1.4 U
Isophorone	78-59-1	50	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	0.62 J
m-Cresol & p-Cresol	MEPH1314	NC	< 2.8 U	NA	< 2.8 UJ	NA	0.77 J	0.60 J
Naphthalene	91-20-3	10	0.15 J	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.5 U	< 1.4 U
Nitrobenzene	98-95-3	0.4	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
N-Nitrosodiphenylamine	86-30-6	50	< 2.8 U	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.9 U	< 2.9 U
Pentachlorophenol	87-86-5	NC	< 5.6 U	< 47 U	< 5.6 UJ	< 47 U	< 5.8 U	1.2 J
Phenanthrene	85-01-8	50	< 1.4 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.5 U	< 1.4 U
Phenol	108-95-2	NC	< 7.5 U	< 9.4 U	< 7.4 UJ	< 9.4 U	< 7.8 U	< 7.7 U
Pyrene	129-00-0	50	< 1.4 U	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.5 U	< 1.4 U
Pyridine	110-86-1	50	< 2.8 U	< 47 U	< 2.8 UJ	< 47 U	< 2.9 U	< 2.9 U
Total SVOCs TICs	NA	NC	4.8	NT	4.5	NT	5	5

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10B - Groundwater Results - SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-105	OVR-106	OVR-106	OVR-107	OVR-107	OVR-108
		Sample ID	OVR-105-120516	OVR-106-082216	OVR-106-121216	OVR-107-082316	OVR-107-121216	OVR-108-082216
		Sample Date	12/5/2016	8/22/2016	12/12/2016	8/23/2016	12/12/2016	8/22/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1612714	2170212	R1613018	2170212	R1613018	2169456
Chemical Name	CAS #	NYS GW CLASS GA[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
1,2,4,5-Tetrachlorobenzene	95-94-3	5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2,4,5-Trichlorophenol	95-95-4	1	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2,4,6-Trichlorophenol	88-06-2	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2,4-Dichlorophenol	120-83-2	5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2,4-Dimethylphenol	105-67-9	50	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2,4-Dinitrophenol	51-28-5	10	< 47 U	< 5.7 U	< 47 U	< 5.7 U	< 47 U	< 5.6 U
2,4-Dinitrotoluene	121-14-2	5	< 9.4 UJ	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2,6-Dinitrotoluene	606-20-2	5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2-Chloronaphthalene	91-58-7	10	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2-Chlorophenol	95-57-8	1	< 9.4 U	0.43 J	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2-Methylnaphthalene	91-57-6	NC	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
2-Methylphenol	95-48-7	1	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2-Nitroaniline	88-74-4	5	< 47 U	< 2.8 U	< 47 U	< 2.8 U	< 47 U	< 2.8 U
2-Nitrophenol	88-75-5	1	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
3- AND 4- Methylphenol (TOTAL)	106-44-5	NC	< 9.4 U	NA	< 9.4 U	NA	< 9.4 UJ	NA
3,3-Dichlorobenzidine	91-94-1	5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
3-Nitroaniline	99-09-2	5	< 47 U	< 2.8 U	< 47 U	< 2.8 U	< 47 U	< 2.8 U
4,6-Dinitro-2-methylphenol	534-52-1	1	< 47 U	< 5.7 U	< 47 U	< 5.7 U	< 47 U	< 5.6 U
4-Bromophenyl-phenylether	101-55-3	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
4-Chloro-3-methylphenol	59-50-7	1	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
4-Chloroaniline	106-47-8	5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
4-Chlorophenyl-phenylether	7005-72-3	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
4-Nitroaniline	100-01-6	5	< 47 U	< 2.8 UJ	< 47 U	< 2.8 UJ	< 47 U	< 2.8 U
4-Nitrophenol	100-02-7	1	< 47 U	< 2.8 U	< 47 U	< 2.8 U	< 47 UJ	< 2.8 U
Acenaphthene	83-32-9	NC	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Acenaphthylene	208-96-8	NC	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Acetophenone	98-86-2	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Anthracene	120-12-7	50	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Atrazine	1912-24-9	7.5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Benzaldehyde	100-52-7	NC	< 47 U	< 2.8 U	< 47 U	< 2.8 U	< 47 UJ	< 2.8 U
Benzidine	92-87-5	5	< 94 U	< 7.5 U	< 94 U	< 7.5 U	< 94 U	< 7.4 U
Benzo[a]anthracene	56-55-3	0.002	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Benzo[a]pyrene	50-32-8	0	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Benzo[b]fluoranthene	205-99-2	0.002	< 9.4 U	< 1.4 UJ	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Benzo[g,h,i]perylene	191-24-2	NC	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Benzo[k]fluoranthene	207-08-9	0.002	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Bis(2-Chloroethoxy)methane	111-91-1	5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Bis(2-Chloroethyl)Ether	111-44-4	1	< 9.4 U	0.25 J	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Bis(2-Chloroisopropyl)ether	108-60-1	5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Bis(2-Ethylhexyl)phthalate	117-81-7	5	1.7 J	< 2.8 U	< 9.4 U	0.48 J	< 9.4 U	< 2.8 U
Butylbenzylphthalate	85-68-7	50	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Caprolactam	105-60-2	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Carbazole	86-74-8	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Chrysene	218-01-9	0.002	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Dibenzo[a,h]Anthracene	53-70-3	NC	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Dibenzofuran	132-64-9	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Diethylphthalate	84-66-2	50	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Dimethylphthalate	131-11-3	50	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Di-n-butylphthalate	84-74-2	50	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Di-n-octylphthalate	117-84-0	50	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Fluoranthene	206-44-0	50	< 9.4 U	0.20 J	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Fluorene	86-73-7	50	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Hexachlorobenzene	118-74-1	0.04	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Hexachlorobutadiene	87-68-3	0.5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Hexachlorocyclopentadiene	77-47-4	5	< 9.4 UJ	< 2.8 UJ	< 9.4 UJ	< 2.8 UJ	< 9.4 U	< 2.8 U
Hexachloroethane	67-72-1	5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Indeno[1,2,3-cd]pyrene	193-39-5	0.002	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Isophorone	78-59-1	50	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
m-Cresol & p-Cresol	MEPH1314	NC	NA	< 2.8 U	NA	< 2.8 U	NA	< 2.8 U
Naphthalene	91-20-3	10	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Nitrobenzene	98-95-3	0.4	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
N-Nitrosodiphenylamine	86-30-6	50	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Pentachlorophenol	87-86-5	NC	< 47 U	< 5.7 U	< 47 U	< 5.7 U	< 47 U	< 5.6 U
Phenanthrene	85-01-8	50	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Phenol	108-95-2	NC	< 9.4 U	< 7.5 U	< 9.4 U	< 7.5 U	< 9.4 UJ	< 7.4 U
Pyrene	129-00-0	50	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Pyridine	110-86-1	50	< 47 U	< 2.8 U	< 47 U	< 2.8 U	< 47 UJ	< 2.8 U
Total SVOCs TICs	NA	NC	NT	157.2	NT	123.7	NT	33.2

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10B - Groundwater Results - SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-108	OVR-109	OVR-109	OVR-110	OVR-110	OVR-111
		Sample ID	OVR-108-121216	OVR-109-082216	OVR-109-121216	OVR-110-081616	OVR-110-120516	OVR-111-082216
		Sample Date	12/12/2016	8/22/2016	12/12/2016	8/15/2016	12/5/2016	8/22/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1613018	2169456	R1613018	2168497	R1612714	2169456
Chemical Name	CAS #	NYS GW CLASS GA[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	5	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
1,2,4,5-Tetrachlorobenzene	95-94-3	5	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2,4,5-Trichlorophenol	95-95-4	1	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2,4,6-Trichlorophenol	88-06-2	NC	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2,4-Dichlorophenol	120-83-2	5	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2,4-Dimethylphenol	105-67-9	50	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2,4-Dinitrophenol	51-28-5	10	< 47 U	< 5.9 U	< 47 U	< 5.6 U	< 47 U	< 5.6 U
2,4-Dinitrotoluene	121-14-2	5	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 UJ	< 2.8 U
2,6-Dinitrotoluene	606-20-2	5	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2-Chloronaphthalene	91-58-7	10	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2-Chlorophenol	95-57-8	1	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2-Methylnaphthalene	91-57-6	NC	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
2-Methylphenol	95-48-7	1	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
2-Nitroaniline	88-74-4	5	< 47 U	< 3.0 U	< 47 U	< 2.8 U	< 47 U	< 2.8 U
2-Nitrophenol	88-75-5	1	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
3- AND 4- Methylphenol (TOTAL)	106-44-5	NC	< 9.4 UJ	NA	< 9.4 U	NA	< 9.4 U	NA
3,3-Dichlorobenzidine	91-94-1	5	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
3-Nitroaniline	99-09-2	5	< 47 U	< 3.0 U	< 47 U	< 2.8 U	< 47 U	< 2.8 U
4,6-Dinitro-2-methylphenol	534-52-1	1	< 47 U	< 5.9 U	< 47 U	< 5.6 U	< 47 U	< 5.6 U
4-Bromophenyl-phenylether	101-55-3	NC	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
4-Chloro-3-methylphenol	59-50-7	1	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
4-Chloroaniline	106-47-8	5	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
4-Chlorophenyl-phenylether	7005-72-3	NC	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
4-Nitroaniline	100-01-6	5	< 47 U	< 3.0 U	< 47 U	< 2.8 U	< 47 U	< 2.8 U
4-Nitrophenol	100-02-7	1	< 47 UJ	< 3.0 U	< 47 U	< 2.8 U	< 47 U	< 2.8 U
Acenaphthene	83-32-9	NC	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Acenaphthylene	208-96-8	NC	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Acetophenone	98-86-2	NC	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Anthracene	120-12-7	50	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Atrazine	1912-24-9	7.5	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Benzaldehyde	100-52-7	NC	< 47 UJ	< 3.0 U	< 47 U	< 2.8 U	< 47 U	< 2.8 U
Benzidine	92-87-5	5	< 94 U	< 7.9 U	< 94 U	< 7.5 U	< 94 U	< 7.4 U
Benzo[a]anthracene	56-55-3	0.002	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Benzo[a]pyrene	50-32-8	0	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Benzo[b]fluoranthene	205-99-2	0.002	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Benzo[g,h,i]perylene	191-24-2	NC	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Benzo[k]fluoranthene	207-08-9	0.002	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Bis(2-Chloroethoxy)methane	111-91-1	5	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Bis(2-Chloroethyl)Ether	111-44-4	1	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Bis(2-Chloroisopropyl)ether	108-60-1	5	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Bis(2-Ethylhexyl)phthalate	117-81-7	5	< 9.4 U	< 3.0 U	< 9.4 U	0.24 J	< 9.4 U	< 2.8 U
Butylbenzylphthalate	85-68-7	50	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Caprolactam	105-60-2	NC	< 9.4 U	< 3.0 U	4.7 J	< 2.8 U	< 9.4 U	< 2.8 U
Carbazole	86-74-8	NC	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Chrysene	218-01-9	0.002	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Dibenzo[a,h]Anthracene	53-70-3	NC	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Dibenzofuran	132-64-9	NC	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Diethylphthalate	84-66-2	50	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Dimethylphthalate	131-11-3	50	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Di-n-butylphthalate	84-74-2	50	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Di-n-octylphthalate	117-84-0	50	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Fluoranthene	206-44-0	50	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Fluorene	86-73-7	50	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Hexachlorobenzene	118-74-1	0.04	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Hexachlorobutadiene	87-68-3	0.5	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Hexachlorocyclopentadiene	77-47-4	5	< 9.4 U	< 3.0 U	< 9.4 UJ	< 2.8 U	< 9.4 UJ	< 2.8 U
Hexachloroethane	67-72-1	5	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Indeno[1,2,3-cd]pyrene	193-39-5	0.002	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Isophorone	78-59-1	50	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
m-Cresol & p-Cresol	MEPH1314	NC	NA	< 3.0 U	NA	< 2.8 U	NA	< 2.8 U
Naphthalene	91-20-3	10	< 9.4 U	< 1.5 U	< 9.4 U	0.15 J	< 9.4 U	< 1.4 U
Nitrobenzene	98-95-3	0.4	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
N-Nitrosodiphenylamine	86-30-6	50	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U
Pentachlorophenol	87-86-5	NC	< 47 U	< 5.9 U	< 47 U	< 5.6 U	< 47 U	< 5.6 U
Phenanthrene	85-01-8	50	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Phenol	108-95-2	NC	< 9.4 UJ	< 7.9 U	< 9.4 U	< 7.5 U	< 9.4 U	< 7.4 U
Pyrene	129-00-0	50	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Pyridine	110-86-1	50	< 47 UJ	< 3.0 U	< 47 U	< 2.8 U	< 47 U	< 2.8 U
Total SVOCs TICs	NA	NC	NT	NT	NT	18.4	NT	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10B - Groundwater Results - SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-111	OVR-112	OVR-112	OVR-113	OVR-114	OVR-114
		Sample ID	OVR-111-120916	OVR-112-081916	OVR-112-120816	OVR-113-120816	OVR-114-081616	OVR-114-120516
		Sample Date	12/9/2016	8/19/2016	12/8/2016	12/8/2016	8/15/2016	12/5/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1612845	2169456	R1612845	R1612845	2168497	R1612714
Chemical Name	CAS #	NYS GW CLASS GA[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	5	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
1,2,4,5-Tetrachlorobenzene	95-94-3	5	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
2,4,5-Trichlorophenol	95-95-4	1	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
2,4,6-Trichlorophenol	88-06-2	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
2,4-Dichlorophenol	120-83-2	5	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
2,4-Dimethylphenol	105-67-9	50	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
2,4-Dinitrophenol	51-28-5	10	< 47 U	< 5.6 U	< 47 U	< 47 U	< 5.7 U	< 47 U
2,4-Dinitrotoluene	121-14-2	5	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 UJ
2,6-Dinitrotoluene	606-20-2	5	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
2-Chloronaphthalene	91-58-7	10	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
2-Chlorophenol	95-57-8	1	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
2-Methylnaphthalene	91-57-6	NC	< 9.4 U	< 1.4 U	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
2-Methylphenol	95-48-7	1	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
2-Nitroaniline	88-74-4	5	< 47 U	< 2.8 U	< 47 U	< 47 U	< 2.8 U	< 47 U
2-Nitrophenol	88-75-5	1	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
3- AND 4- Methylphenol (TOTAL)	106-44-5	NC	< 9.4 U	NA	< 9.4 U	< 9.4 U	NA	< 9.4 U
3,3-Dichlorobenzidine	91-94-1	5	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
3-Nitroaniline	99-09-2	5	< 47 U	< 2.8 U	< 47 U	< 47 U	< 2.8 U	< 47 U
4,6-Dinitro-2-methylphenol	534-52-1	1	< 47 U	< 5.6 U	< 47 U	< 47 U	< 5.7 U	< 47 U
4-Bromophenyl-phenylether	101-55-3	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
4-Chloro-3-methylphenol	59-50-7	1	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
4-Chloroaniline	106-47-8	5	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
4-Chlorophenyl-phenylether	7005-72-3	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
4-Nitroaniline	100-01-6	5	< 47 U	< 2.8 U	< 47 U	< 47 U	< 2.8 U	< 47 U
4-Nitrophenol	100-02-7	1	< 47 U	< 2.8 U	< 47 U	< 47 U	< 2.8 U	< 47 U
Acenaphthene	83-32-9	NC	< 9.4 U	< 1.4 U	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Acenaphthylene	208-96-8	NC	< 9.4 U	< 1.4 U	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Acetophenone	98-86-2	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
Anthracene	120-12-7	50	< 9.4 U	< 1.4 U	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Atrazine	1912-24-9	7.5	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
Benzaldehyde	100-52-7	NC	< 47 U	< 2.8 U	< 47 U	< 47 U	< 2.8 U	< 47 U
Benzidine	92-87-5	5	< 94 U	< 7.5 U	< 94 U	< 94 U	< 7.5 U	< 94 U
Benzo[a]anthracene	56-55-3	0.002	< 9.4 U	< 1.4 U	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[a]pyrene	50-32-8	0	< 9.4 U	< 1.4 U	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[b]fluoranthene	205-99-2	0.002	< 9.4 U	< 1.4 U	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[g,h,i]perylene	191-24-2	NC	< 9.4 U	< 1.4 U	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[k]fluoranthene	207-08-9	0.002	< 9.4 U	< 1.4 U	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Bis(2-Chloroethoxy)methane	111-91-1	5	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
Bis(2-Chloroethyl)Ether	111-44-4	1	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
Bis(2-Chloroisopropyl)ether	108-60-1	5	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
Bis(2-Ethylhexyl)phthalate	117-81-7	5	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
Butylbenzylphthalate	85-68-7	50	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
Caprolactam	105-60-2	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
Carbazole	86-74-8	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
Chrysene	218-01-9	0.002	< 9.4 U	< 1.4 U	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Dibenzo[a,h]Anthracene	53-70-3	NC	< 9.4 U	< 1.4 U	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Dibenzofuran	132-64-9	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
Diethylphthalate	84-66-2	50	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
Dimethylphthalate	131-11-3	50	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
Di-n-butylphthalate	84-74-2	50	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
Di-n-octylphthalate	117-84-0	50	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
Fluoranthene	206-44-0	50	< 9.4 U	< 1.4 U	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Fluorene	86-73-7	50	< 9.4 U	< 1.4 U	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Hexachlorobenzene	118-74-1	0.04	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
Hexachlorobutadiene	87-68-3	0.5	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
Hexachlorocyclopentadiene	77-47-4	5	< 9.4 UJ	< 2.8 U	< 9.4 UJ	< 9.4 UJ	< 2.8 U	< 9.4 UJ
Hexachloroethane	67-72-1	5	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
Indeno[1,2,3-cd]pyrene	193-39-5	0.002	< 9.4 U	< 1.4 U	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Isophorone	78-59-1	50	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
m-Cresol & p-Cresol	MEPH1314	NC	NA	< 2.8 U	NA	NA	< 2.8 U	NA
Naphthalene	91-20-3	10	< 9.4 U	< 1.4 U	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Nitrobenzene	98-95-3	0.4	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
N-Nitrosodiphenylamine	86-30-6	50	< 9.4 U	< 2.8 U	< 9.4 U	< 9.4 U	< 2.8 U	< 9.4 U
Pentachlorophenol	87-86-5	NC	< 47 U	< 5.6 U	< 47 U	< 47 U	< 5.7 U	< 47 U
Phenanthrene	85-01-8	50	< 9.4 U	< 1.4 U	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Phenol	108-95-2	NC	< 9.4 U	< 7.5 U	< 9.4 U	< 9.4 U	< 7.5 U	< 9.4 U
Pyrene	129-00-0	50	< 9.4 U	< 1.4 U	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Pyridine	110-86-1	50	< 47 U	< 2.8 U	< 47 U	< 47 U	< 2.8 U	< 47 U
Total SVOCs TICs	NA	NC	NT	4.3	NT	NT	10.4	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10B - Groundwater Results - SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-115	OVR-115	OVR-116	OVR-116	OVR-116	OVR-117
		Sample ID	OVR-115-081616	OVR-115-120616	DUP-011-081616	OVR-116-081616	OVR-116-120616	OVR-117-082416
		Sample Date	8/15/2016	12/6/2016	8/15/2016	8/15/2016	12/6/2016	8/24/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	2168497	R1612714	2168497	2168497	R1612714	2170212
Chemical Name	CAS #	NYS GW CLASS GA[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	5	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	0.64 J
1,2,4,5-Tetrachlorobenzene	95-94-3	5	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
2,4,5-Trichlorophenol	95-95-4	1	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
2,4,6-Trichlorophenol	88-06-2	NC	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
2,4-Dichlorophenol	120-83-2	5	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
2,4-Dimethylphenol	105-67-9	50	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
2,4-Dinitrophenol	51-28-5	10	< 5.6 U	< 47 U	< 5.6 U	< 5.7 U	< 47 U	< 5.6 U
2,4-Dinitrotoluene	121-14-2	5	< 2.8 U	< 9.4 UJ	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
2,6-Dinitrotoluene	606-20-2	5	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
2-Chloronaphthalene	91-58-7	10	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
2-Chlorophenol	95-57-8	1	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
2-Methylnaphthalene	91-57-6	NC	< 1.4 U	< 9.4 U	< 1.4 U	< 1.4 U	< 9.4 U	0.96 J
2-Methylphenol	95-48-7	1	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
2-Nitroaniline	88-74-4	5	< 2.8 U	< 47 U	< 2.8 U	< 2.9 U	< 47 U	< 2.8 U
2-Nitrophenol	88-75-5	1	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
3- AND 4- Methylphenol (TOTAL)	106-44-5	NC	NA	< 9.4 U	NA	NA	< 9.4 U	NA
3,3-Dichlorobenzidine	91-94-1	5	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
3-Nitroaniline	99-09-2	5	< 2.8 U	< 47 U	< 2.8 U	< 2.9 U	< 47 U	< 2.8 U
4,6-Dinitro-2-methylphenol	534-52-1	1	< 5.6 U	< 47 U	< 5.6 U	< 5.7 U	< 47 U	< 5.6 U
4-Bromophenyl-phenylether	101-55-3	NC	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
4-Chloro-3-methylphenol	59-50-7	1	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
4-Chloroaniline	106-47-8	5	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
4-Chlorophenyl-phenylether	7005-72-3	NC	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
4-Nitroaniline	100-01-6	5	< 2.8 U	< 47 U	< 2.8 U	< 2.9 U	< 47 U	< 2.8 U
4-Nitrophenol	100-02-7	1	< 2.8 U	< 47 U	< 2.8 U	< 2.9 U	< 47 U	< 2.8 U
Acenaphthene	83-32-9	NC	< 1.4 U	< 9.4 U	< 1.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Acenaphthylene	208-96-8	NC	< 1.4 U	< 9.4 U	< 1.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Acetophenone	98-86-2	NC	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
Anthracene	120-12-7	50	< 1.4 U	< 9.4 U	< 1.4 U	< 1.4 U	< 9.4 U	0.17 J
Atrazine	1912-24-9	7.5	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
Benzaldehyde	100-52-7	NC	< 2.8 U	< 47 U	< 2.8 U	< 2.9 U	< 47 U	< 2.8 U
Benzidine	92-87-5	5	< 7.5 U	< 94 U	< 7.4 U	< 7.6 U	< 94 U	< 7.5 U
Benzo[a]anthracene	56-55-3	0.002	< 1.4 U	< 9.4 U	< 1.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Benzo[a]pyrene	50-32-8	0	< 1.4 U	< 9.4 U	< 1.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Benzo[b]fluoranthene	205-99-2	0.002	< 1.4 U	< 9.4 U	< 1.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Benzo[g,h,i]perylene	191-24-2	NC	< 1.4 U	< 9.4 U	< 1.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Benzo[k]fluoranthene	207-08-9	0.002	< 1.4 U	< 9.4 U	< 1.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Bis(2-Chloroethoxy)methane	111-91-1	5	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
Bis(2-Chloroethyl)Ether	111-44-4	1	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
Bis(2-Chloroisopropyl)ether	108-60-1	5	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
Bis(2-Ethylhexyl)phthalate	117-81-7	5	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	1.3 J	< 2.8 U
Butylbenzylphthalate	85-68-7	50	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
Caprolactam	105-60-2	NC	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
Carbazole	86-74-8	NC	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
Chrysene	218-01-9	0.002	< 1.4 U	< 9.4 U	< 1.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Dibenzo[a,h]Anthracene	53-70-3	NC	< 1.4 U	< 9.4 U	< 1.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Dibenzofuran	132-64-9	NC	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
Diethylphthalate	84-66-2	50	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
Dimethylphthalate	131-11-3	50	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
Di-n-butylphthalate	84-74-2	50	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	0.20 J
Di-n-octylphthalate	117-84-0	50	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
Fluoranthene	206-44-0	50	< 1.4 U	< 9.4 U	< 1.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Fluorene	86-73-7	50	< 1.4 U	< 9.4 U	< 1.4 U	< 1.4 U	< 9.4 U	0.22 J
Hexachlorobenzene	118-74-1	0.04	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
Hexachlorobutadiene	87-68-3	0.5	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
Hexachlorocyclopentadiene	77-47-4	5	< 2.8 U	< 9.4 UJ	< 2.8 U	< 2.9 U	< 9.4 UJ	< 2.8 U
Hexachloroethane	67-72-1	5	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
Indeno[1,2,3-cd]pyrene	193-39-5	0.002	< 1.4 U	< 9.4 U	< 1.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Isophorone	78-59-1	50	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
m-Cresol & p-Cresol	MEPH1314	NC	< 2.8 U	NA	0.60 J	0.46 J	NA	< 2.8 U
Naphthalene	91-20-3	10	< 1.4 U	< 9.4 U	< 1.4 U	< 1.4 U	< 9.4 U	13.6
Nitrobenzene	98-95-3	0.4	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
N-Nitrosodiphenylamine	86-30-6	50	< 2.8 U	< 9.4 U	< 2.8 U	< 2.9 U	< 9.4 U	< 2.8 U
Pentachlorophenol	87-86-5	NC	< 5.6 U	< 47 U	< 5.6 U	< 5.7 U	< 47 U	< 5.6 U
Phenanthrene	85-01-8	50	< 1.4 U	< 9.4 U	< 1.4 U	< 1.4 U	< 9.4 U	0.37 J
Phenol	108-95-2	NC	< 7.5 U	< 9.4 U	< 7.4 U	< 7.6 U	< 9.4 U	< 7.5 U
Pyrene	129-00-0	50	< 1.4 U	< 9.4 U	< 1.4 U	< 1.4 U	< 9.4 U	< 1.4 U
Pyridine	110-86-1	50	< 2.8 U	< 47 U	< 2.8 U	< 2.9 U	< 47 U	< 2.8 U
Total SVOCs TICs	NA	NC	NT	NT	33.3	NT	NT	1056.3

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10B - Groundwater Results - SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-117	OVR-118	OVR-118	OVR-119	OVR-119	OVR-120
		Sample ID	OVR-117-121316	OVR-118-081816	OVR-118-120716	OVR-119-081916	OVR-119-120816	OVR-120-081816
		Sample Date	12/13/2016	8/18/2016	12/7/2016	8/19/2016	12/8/2016	8/18/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1613018	2168907	R1612845	2169456	R1612845	2168907
Chemical Name	CAS #	NYS GW CLASS GA[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	5	< 9.4 U	< 2.8 U	< 9.4 U	0.40 J	< 9.4 U	< 2.9 U
1,2,4,5-Tetrachlorobenzene	95-94-3	5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
2,4,5-Trichlorophenol	95-95-4	1	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
2,4,6-Trichlorophenol	88-06-2	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
2,4-Dichlorophenol	120-83-2	5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
2,4-Dimethylphenol	105-67-9	50	< 9.4 U	< 2.8 U	< 9.4 U	1.3 J	< 9.4 U	< 2.9 U
2,4-Dinitrophenol	51-28-5	10	< 47 U	< 5.6 U	< 47 U	< 5.6 U	< 47 U	< 5.7 U
2,4-Dinitrotoluene	121-14-2	5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
2,6-Dinitrotoluene	606-20-2	5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
2-Chloronaphthalene	91-58-7	10	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
2-Chlorophenol	95-57-8	1	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
2-Methylnaphthalene	91-57-6	NC	< 9.4 U	< 1.4 U	< 9.4 U	0.49 J	< 9.4 U	< 1.4 U
2-Methylphenol	95-48-7	1	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
2-Nitroaniline	88-74-4	5	< 47 U	< 2.8 U	< 47 U	< 2.8 U	< 47 U	< 2.9 U
2-Nitrophenol	88-75-5	1	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
3- AND 4- Methylphenol (TOTAL)	106-44-5	NC	< 9.4 UJ	NA	< 9.4 U	NA	< 9.4 U	NA
3,3-Dichlorobenzidine	91-94-1	5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
3-Nitroaniline	99-09-2	5	< 47 U	< 2.8 U	< 47 U	< 2.8 U	< 47 U	< 2.9 U
4,6-Dinitro-2-methylphenol	534-52-1	1	< 47 U	< 5.6 U	< 47 U	< 5.6 U	< 47 U	< 5.7 U
4-Bromophenyl-phenylether	101-55-3	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
4-Chloro-3-methylphenol	59-50-7	1	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
4-Chloroaniline	106-47-8	5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
4-Chlorophenyl-phenylether	7005-72-3	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
4-Nitroaniline	100-01-6	5	< 47 U	< 2.8 U	< 47 U	< 2.8 U	< 47 U	< 2.9 U
4-Nitrophenol	100-02-7	1	< 47 UJ	< 2.8 U	< 47 U	< 2.8 U	< 47 U	< 2.9 U
Acenaphthene	83-32-9	NC	< 9.4 U	< 1.4 U	< 9.4 U	2.2	3.4 J	< 1.4 U
Acenaphthylene	208-96-8	NC	< 9.4 U	< 1.4 U	< 9.4 U	0.74 J	1.3 J	< 1.4 U
Acetophenone	98-86-2	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
Anthracene	120-12-7	50	< 9.4 U	< 1.4 U	< 9.4 U	0.95 J	1.8 J	< 1.4 U
Atrazine	1912-24-9	7.5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
Benzaldehyde	100-52-7	NC	< 47 UJ	< 2.8 U	< 47 U	< 2.8 U	< 47 U	< 2.9 U
Benzidine	92-87-5	5	< 94 U	< 7.4 U	< 94 U	< 7.4 U	< 94 U	< 7.7 U
Benzo[a]anthracene	56-55-3	0.002	< 9.4 U	< 1.4 U	< 9.4 U	1.1 J	2.2 J	< 1.4 U
Benzo[a]pyrene	50-32-8	0	< 9.4 U	< 1.4 U	< 9.4 U	1.0 J	2.1 J	< 1.4 U
Benzo[b]fluoranthene	205-99-2	0.002	< 9.4 U	< 1.4 U	< 9.4 U	1.1 J	2.1 J	< 1.4 U
Benzo[g,h,i]perylene	191-24-2	NC	< 9.4 U	< 1.4 U	< 9.4 U	0.64 J	< 9.4 U	< 1.4 U
Benzo[k]fluoranthene	207-08-9	0.002	< 9.4 U	< 1.4 U	< 9.4 U	0.48 J	< 9.4 U	< 1.4 U
Bis(2-Chloroethoxy)methane	111-91-1	5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
Bis(2-Chloroethyl)Ether	111-44-4	1	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
Bis(2-Chloroisopropyl)ether	108-60-1	5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
Bis(2-Ethylhexyl)phthalate	117-81-7	5	< 9.4 U	0.41 J	< 9.4 U	0.30 J	< 9.4 U	< 2.9 U
Butylbenzylphthalate	85-68-7	50	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
Caprolactam	105-60-2	NC	< 9.4 U	< 2.8 UJ	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 UJ
Carbazole	86-74-8	NC	< 9.4 U	< 2.8 U	< 9.4 U	2.3 J	6.8 J	< 2.9 U
Chrysene	218-01-9	0.002	< 9.4 U	< 1.4 U	< 9.4 U	1.2 J	2.2 J	< 1.4 U
Dibenzo[a,h]Anthracene	53-70-3	NC	< 9.4 U	< 1.4 U	< 9.4 U	0.20 J	< 9.4 U	< 1.4 U
Dibenzofuran	132-64-9	NC	< 9.4 U	< 2.8 U	< 9.4 U	1.8 J	2.6 J	< 2.9 U
Diethylphthalate	84-66-2	50	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
Dimethylphthalate	131-11-3	50	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
Di-n-butylphthalate	84-74-2	50	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
Di-n-octylphthalate	117-84-0	50	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
Fluoranthene	206-44-0	50	< 9.4 U	< 1.4 U	< 9.4 U	2.7	5.8 J	< 1.4 U
Fluorene	86-73-7	50	< 9.4 U	< 1.4 U	< 9.4 U	2.8	3.8 J	< 1.4 U
Hexachlorobenzene	118-74-1	0.04	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
Hexachlorobutadiene	87-68-3	0.5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
Hexachlorocyclopentadiene	77-47-4	5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 UJ	< 2.9 U
Hexachloroethane	67-72-1	5	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
Indeno[1,2,3-cd]pyrene	193-39-5	0.002	< 9.4 U	< 1.4 U	< 9.4 U	0.66 J	1.5 J	< 1.4 U
Isophorone	78-59-1	50	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
m-Cresol & p-Cresol	MEPH1314	NC	NA	< 2.8 U	NA	< 2.8 U	NA	< 2.9 U
Naphthalene	91-20-3	10	4.8 J	< 1.4 U	< 9.4 U	< 1.4 U	5.3 J	< 1.4 U
Nitrobenzene	98-95-3	0.4	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
N-Nitrosodiphenylamine	86-30-6	50	< 9.4 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U	< 2.9 U
Pentachlorophenol	87-86-5	NC	< 47 U	< 5.6 U	< 47 U	< 5.6 U	< 47 U	< 5.7 U
Phenanthrene	85-01-8	50	< 9.4 U	< 1.4 U	< 9.4 U	4.6	9.6	< 1.4 U
Phenol	108-95-2	NC	< 9.4 UJ	< 7.4 U	< 9.4 U	< 7.4 U	< 9.4 U	< 7.7 U
Pyrene	129-00-0	50	< 9.4 U	0.15 J	< 9.4 U	2.5	5.3 J	< 1.4 U
Pyridine	110-86-1	50	< 47 UJ	< 2.8 U	< 47 UJ	< 2.8 U	< 47 U	< 2.9 U
Total SVOCs TICs	NA	NC	NT	5.7	NT	NT	NT	14.2

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10B - Groundwater Results - SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-120	OVR-121	OVR-121	OVR-122	OVR-122	OVR-123
		Sample ID	OVR-120-120816	OVR-121-081616	OVR-121-120616	OVR-122-081816	OVR-122-120716	OVR-123-081816
		Sample Date	12/8/2016	8/16/2016	12/6/2016	8/18/2016	12/7/2016	8/18/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1612845	2168907	R1612714	2168907	R1612845	2168907
Chemical Name	CAS #	NYS GW CLASS GA[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	5	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
1,2,4,5-Tetrachlorobenzene	95-94-3	5	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
2,4,5-Trichlorophenol	95-95-4	1	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
2,4,6-Trichlorophenol	88-06-2	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
2,4-Dichlorophenol	120-83-2	5	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
2,4-Dimethylphenol	105-67-9	50	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
2,4-Dinitrophenol	51-28-5	10	< 47 U	< 5.6 U	< 47 U	< 12.0 U	< 47 U	< 11.2 U
2,4-Dinitrotoluene	121-14-2	5	< 9.4 U	< 2.8 U	< 9.4 UJ	< 6.0 U	< 9.4 U	< 5.6 U
2,6-Dinitrotoluene	606-20-2	5	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
2-Chloronaphthalene	91-58-7	10	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
2-Chlorophenol	95-57-8	1	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
2-Methylnaphthalene	91-57-6	NC	< 9.4 U	< 1.4 U	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U
2-Methylphenol	95-48-7	1	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
2-Nitroaniline	88-74-4	5	< 47 U	< 2.8 U	< 47 U	< 6.0 U	< 47 U	< 5.6 U
2-Nitrophenol	88-75-5	1	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
3- AND 4- Methylphenol (TOTAL)	106-44-5	NC	< 9.4 U	NA	< 9.4 U	NA	< 9.4 U	NA
3,3-Dichlorobenzidine	91-94-1	5	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
3-Nitroaniline	99-09-2	5	< 47 U	< 2.8 U	< 47 U	< 6.0 U	< 47 U	< 5.6 U
4,6-Dinitro-2-methylphenol	534-52-1	1	< 47 U	< 5.6 U	< 47 U	< 12.0 U	< 47 U	< 11.2 U
4-Bromophenyl-phenylether	101-55-3	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
4-Chloro-3-methylphenol	59-50-7	1	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
4-Chloroaniline	106-47-8	5	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
4-Chlorophenyl-phenylether	7005-72-3	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
4-Nitroaniline	100-01-6	5	< 47 U	< 2.8 U	< 47 U	< 6.0 U	< 47 U	< 5.6 U
4-Nitrophenol	100-02-7	1	< 47 U	< 2.8 U	< 47 U	< 6.0 U	< 47 U	< 5.6 U
Acenaphthene	83-32-9	NC	< 9.4 U	< 1.4 U	< 9.4 U	0.34 J	< 9.4 U	< 2.8 U
Acenaphthylene	208-96-8	NC	< 9.4 U	< 1.4 U	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U
Acetophenone	98-86-2	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
Anthracene	120-12-7	50	< 9.4 U	< 1.4 U	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U
Atrazine	1912-24-9	7.5	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
Benzaldehyde	100-52-7	NC	< 47 U	< 2.8 U	< 47 U	< 6.0 U	< 47 U	< 5.6 U
Benzidine	92-87-5	5	< 94 U	< 7.5 U	< 94 U	< 16.0 U	< 94 U	< 15.0 U
Benzo[a]anthracene	56-55-3	0.002	< 9.4 U	< 1.4 U	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U
Benzo[a]pyrene	50-32-8	0	< 9.4 U	< 1.4 U	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U
Benzo[b]fluoranthene	205-99-2	0.002	< 9.4 U	< 1.4 U	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U
Benzo[g,h,i]perylene	191-24-2	NC	< 9.4 U	< 1.4 U	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U
Benzo[k]fluoranthene	207-08-9	0.002	< 9.4 U	< 1.4 U	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U
Bis(2-Chloroethoxy)methane	111-91-1	5	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
Bis(2-Chloroethyl)Ether	111-44-4	1	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
Bis(2-Chloroisopropyl)ether	108-60-1	5	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
Bis(2-Ethylhexyl)phthalate	117-81-7	5	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
Butylbenzylphthalate	85-68-7	50	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
Caprolactam	105-60-2	NC	< 9.4 U	< 2.8 UJ	< 9.4 U	< 6.0 UJ	< 9.4 U	< 5.6 UJ
Carbazole	86-74-8	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
Chrysene	218-01-9	0.002	< 9.4 U	< 1.4 U	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U
Dibenzo[a,h]Anthracene	53-70-3	NC	< 9.4 U	< 1.4 U	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U
Dibenzofuran	132-64-9	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
Diethylphthalate	84-66-2	50	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
Dimethylphthalate	131-11-3	50	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
Di-n-butylphthalate	84-74-2	50	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	0.42 J
Di-n-octylphthalate	117-84-0	50	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
Fluoranthene	206-44-0	50	< 9.4 U	< 1.4 U	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U
Fluorene	86-73-7	50	< 9.4 U	< 1.4 U	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U
Hexachlorobenzene	118-74-1	0.04	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
Hexachlorobutadiene	87-68-3	0.5	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
Hexachlorocyclopentadiene	77-47-4	5	< 9.4 UJ	< 2.8 U	< 9.4 UJ	< 6.0 U	< 9.4 U	< 5.6 U
Hexachloroethane	67-72-1	5	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
Indeno[1,2,3-cd]pyrene	193-39-5	0.002	< 9.4 U	< 1.4 U	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U
Isophorone	78-59-1	50	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
m-Cresol & p-Cresol	MEPH1314	NC	NA	< 2.8 U	NA	< 6.0 U	NA	< 5.6 U
Naphthalene	91-20-3	10	< 9.4 U	< 1.4 U	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U
Nitrobenzene	98-95-3	0.4	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
N-Nitrosodiphenylamine	86-30-6	50	< 9.4 U	< 2.8 U	< 9.4 U	< 6.0 U	< 9.4 U	< 5.6 U
Pentachlorophenol	87-86-5	NC	< 47 U	< 5.6 U	< 47 U	< 12.0 U	< 47 U	< 11.2 U
Phenanthrene	85-01-8	50	< 9.4 U	< 1.4 U	< 9.4 U	0.32 J	< 9.4 U	< 2.8 U
Phenol	108-95-2	NC	< 9.4 U	< 7.5 U	< 9.4 U	< 16.0 U	< 9.4 U	< 15.0 U
Pyrene	129-00-0	50	< 9.4 U	< 1.4 U	< 9.4 U	< 3.0 U	< 9.4 U	< 2.8 U
Pyridine	110-86-1	50	< 47 U	< 2.8 U	< 47 U	< 6.0 U	< 47 UJ	< 5.6 U
Total SVOCs TICs	NA	NC	NT	NT	NT	NT	NT	175.7

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10B - Groundwater Results - SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-123	OVR-124	OVR-124	OVR-124	OVR-125	OVR-125
		Sample ID	OVR-123-120716	OVR-124-081716	DUP-015-120716	OVR-124-120716	OVR-125-081716	OVR-125-120616
		Sample Date	12/7/2016	8/17/2016	12/7/2016	12/7/2016	8/17/2016	12/6/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1612845	2168907	R1612845	R1612845	2168907	R1612714
Chemical Name	CAS #	NYS GW CLASS GA[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	5	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
1,2,4,5-Tetrachlorobenzene	95-94-3	5	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
2,4,5-Trichlorophenol	95-95-4	1	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
2,4,6-Trichlorophenol	88-06-2	NC	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
2,4-Dichlorophenol	120-83-2	5	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
2,4-Dimethylphenol	105-67-9	50	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
2,4-Dinitrophenol	51-28-5	10	< 47 U	< 5.9 UJ	< 47 U	< 47 U	< 5.7 U	< 47 U
2,4-Dinitrotoluene	121-14-2	5	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 UJ
2,6-Dinitrotoluene	606-20-2	5	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
2-Chloronaphthalene	91-58-7	10	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
2-Chlorophenol	95-57-8	1	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
2-Methylnaphthalene	91-57-6	NC	< 9.4 U	< 1.5 UJ	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
2-Methylphenol	95-48-7	1	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
2-Nitroaniline	88-74-4	5	< 47 U	< 2.9 UJ	< 47 U	< 47 U	< 2.9 U	< 47 U
2-Nitrophenol	88-75-5	1	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
3- AND 4- Methylphenol (TOTAL)	106-44-5	NC	< 9.4 U	NA	< 9.4 U	< 9.4 U	NA	< 9.4 U
3,3-Dichlorobenzidine	91-94-1	5	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
3-Nitroaniline	99-09-2	5	< 47 U	< 2.9 UJ	< 47 U	< 47 U	< 2.9 U	< 47 U
4,6-Dinitro-2-methylphenol	534-52-1	1	< 47 U	< 5.9 UJ	< 47 U	< 47 U	< 5.7 U	< 47 U
4-Bromophenyl-phenylether	101-55-3	NC	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
4-Chloro-3-methylphenol	59-50-7	1	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
4-Chloroaniline	106-47-8	5	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
4-Chlorophenyl-phenylether	7005-72-3	NC	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
4-Nitroaniline	100-01-6	5	< 47 U	< 2.9 UJ	< 47 U	< 47 U	< 2.9 U	< 47 U
4-Nitrophenol	100-02-7	1	< 47 U	< 2.9 UJ	< 47 U	< 47 U	< 2.9 U	< 47 U
Acenaphthene	83-32-9	NC	< 9.4 U	< 1.5 UJ	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Acenaphthylene	208-96-8	NC	< 9.4 U	< 1.5 UJ	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Acetophenone	98-86-2	NC	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
Anthracene	120-12-7	50	< 9.4 U	< 1.5 UJ	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Atrazine	1912-24-9	7.5	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
Benzaldehyde	100-52-7	NC	< 47 U	< 2.9 UJ	< 47 U	< 47 U	< 2.9 U	< 47 U
Benzidine	92-87-5	5	< 94 U	< 7.8 UJ	< 94 U	< 94 U	< 7.6 U	< 94 U
Benzo[a]anthracene	56-55-3	0.002	< 9.4 U	< 1.5 UJ	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[a]pyrene	50-32-8	0	< 9.4 U	< 1.5 UJ	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[b]fluoranthene	205-99-2	0.002	< 9.4 U	< 1.5 UJ	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[g,h,i]perylene	191-24-2	NC	< 9.4 U	< 1.5 UJ	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[k]fluoranthene	207-08-9	0.002	< 9.4 U	< 1.5 UJ	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Bis(2-Chloroethoxy)methane	111-91-1	5	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
Bis(2-Chloroethyl)Ether	111-44-4	1	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
Bis(2-Chloroisopropyl)ether	108-60-1	5	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
Bis(2-Ethylhexyl)phthalate	117-81-7	5	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
Butylbenzylphthalate	85-68-7	50	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
Caprolactam	105-60-2	NC	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 UJ	< 9.4 U
Carbazole	86-74-8	NC	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
Chrysene	218-01-9	0.002	< 9.4 U	< 1.5 UJ	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Dibenzo[a,h]Anthracene	53-70-3	NC	< 9.4 U	< 1.5 UJ	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Dibenzofuran	132-64-9	NC	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
Diethylphthalate	84-66-2	50	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
Dimethylphthalate	131-11-3	50	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
Di-n-butylphthalate	84-74-2	50	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
Di-n-octylphthalate	117-84-0	50	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
Fluoranthene	206-44-0	50	< 9.4 U	< 1.5 UJ	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Fluorene	86-73-7	50	< 9.4 U	< 1.5 UJ	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Hexachlorobenzene	118-74-1	0.04	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
Hexachlorobutadiene	87-68-3	0.5	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
Hexachlorocyclopentadiene	77-47-4	5	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 UJ
Hexachloroethane	67-72-1	5	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
Indeno[1,2,3-cd]pyrene	193-39-5	0.002	< 9.4 U	< 1.5 UJ	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Isophorone	78-59-1	50	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
m-Cresol & p-Cresol	MEPH1314	NC	NA	< 2.9 UJ	NA	NA	< 2.9 U	NA
Naphthalene	91-20-3	10	< 9.4 U	< 1.5 UJ	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Nitrobenzene	98-95-3	0.4	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
N-Nitrosodiphenylamine	86-30-6	50	< 9.4 U	< 2.9 UJ	< 9.4 U	< 9.4 U	< 2.9 U	< 9.4 U
Pentachlorophenol	87-86-5	NC	< 47 U	< 5.9 UJ	< 47 U	< 47 U	< 5.7 U	< 47 U
Phenanthrene	85-01-8	50	< 9.4 U	< 1.5 UJ	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Phenol	108-95-2	NC	< 9.4 U	< 7.8 UJ	< 9.4 U	< 9.4 U	< 7.6 U	< 9.4 U
Pyrene	129-00-0	50	< 9.4 U	< 1.5 UJ	< 9.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Pyridine	110-86-1	50	< 47 UJ	< 2.9 UJ	< 47 UJ	< 47 UJ	< 2.9 U	< 47 U
Total SVOCs TICs	NA	NC	N/A	NT	NT	NT	NT	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10B - Groundwater Results - SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-126	OVR-126	OVR-127	OVR-127	OVR-128	OVR-128
		Sample ID	OVR-126-081716	OVR-126-120616	OVR-127-081716	OVR-127-120616	OVR-128-081716	OVR-128-120716
		Sample Date	8/17/2016	12/6/2016	8/17/2016	12/6/2016	8/17/2016	12/7/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	2168907	R1612714	2168907	R1612714	2168907	R1612845
Chemical Name	CAS #	NYS GW CLASS GA[1]						
SVOCs								
1,1'-Biphenyl	92-52-4	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
1,2,4,5-Tetrachlorobenzene	95-94-3	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
2,4,5-Trichlorophenol	95-95-4	1	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
2,4,6-Trichlorophenol	88-06-2	NC	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
2,4-Dichlorophenol	120-83-2	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
2,4-Dimethylphenol	105-67-9	50	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
2,4-Dinitrophenol	51-28-5	10	< 5.6 U	< 47 U	< 5.8 U	< 47 U	< 5.7 U	< 47 U
2,4-Dinitrotoluene	121-14-2	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 UJ	< 2.9 U	< 9.4 U
2,6-Dinitrotoluene	606-20-2	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
2-Chloronaphthalene	91-58-7	10	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
2-Chlorophenol	95-57-8	1	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
2-Methylnaphthalene	91-57-6	NC	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U
2-Methylphenol	95-48-7	1	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
2-Nitroaniline	88-74-4	5	< 2.8 U	< 47 U	< 2.9 U	< 47 U	< 2.9 U	< 47 U
2-Nitrophenol	88-75-5	1	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
3- AND 4- Methylphenol (TOTAL)	106-44-5	NC	NA	< 9.4 U	NA	< 9.4 U	NA	< 9.4 U
3,3-Dichlorobenzidine	91-94-1	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
3-Nitroaniline	99-09-2	5	< 2.8 U	< 47 U	< 2.9 U	< 47 U	< 2.9 U	< 47 U
4,6-Dinitro-2-methylphenol	534-52-1	1	< 5.6 U	< 47 U	< 5.8 U	< 47 U	< 5.7 U	< 47 U
4-Bromophenyl-phenylether	101-55-3	NC	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
4-Chloro-3-methylphenol	59-50-7	1	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
4-Chloroaniline	106-47-8	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
4-Chlorophenyl-phenylether	7005-72-3	NC	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
4-Nitroaniline	100-01-6	5	< 2.8 U	< 47 U	< 2.9 U	< 47 U	< 2.9 U	< 47 U
4-Nitrophenol	100-02-7	1	< 2.8 U	< 47 U	< 2.9 U	< 47 U	< 2.9 U	< 47 U
Acenaphthene	83-32-9	NC	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U
Acenaphthylene	208-96-8	NC	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U
Acetophenone	98-86-2	NC	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
Anthracene	120-12-7	50	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U
Atrazine	1912-24-9	7.5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
Benzaldehyde	100-52-7	NC	< 2.8 U	< 47 U	< 2.9 U	< 47 U	< 2.9 U	< 47 U
Benzidine	92-87-5	5	< 7.4 U	< 94 U	< 7.8 U	< 94 U	< 7.7 U	< 94 U
Benzo[a]anthracene	56-55-3	0.002	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[a]pyrene	50-32-8	0	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[b]fluoranthene	205-99-2	0.002	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[g,h,i]perylene	191-24-2	NC	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[k]fluoranthene	207-08-9	0.002	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U
Bis(2-Chloroethoxy)methane	111-91-1	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
Bis(2-Chloroethyl)Ether	111-44-4	1	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
Bis(2-Chloroisopropyl)ether	108-60-1	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
Bis(2-Ethylhexyl)phthalate	117-81-7	5	1.0 J	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
Butylbenzylphthalate	85-68-7	50	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
Caprolactam	105-60-2	NC	< 2.8 UJ	< 9.4 U	< 2.9 UJ	< 9.4 U	< 2.9 UJ	< 9.4 U
Carbazole	86-74-8	NC	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
Chrysene	218-01-9	0.002	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U
Dibenzo[a,h]Anthracene	53-70-3	NC	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U
Dibenzofuran	132-64-9	NC	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
Diethylphthalate	84-66-2	50	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
Dimethylphthalate	131-11-3	50	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
Di-n-butylphthalate	84-74-2	50	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
Di-n-octylphthalate	117-84-0	50	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
Fluoranthene	206-44-0	50	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U
Fluorene	86-73-7	50	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U
Hexachlorobenzene	118-74-1	0.04	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
Hexachlorobutadiene	87-68-3	0.5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
Hexachlorocyclopentadiene	77-47-4	5	< 2.8 U	< 9.4 UJ	< 2.9 U	< 9.4 UJ	< 2.9 U	< 9.4 U
Hexachloroethane	67-72-1	5	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
Indeno[1,2,3-cd]pyrene	193-39-5	0.002	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U
Isophorone	78-59-1	50	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
m-Cresol & p-Cresol	MEPH1314	NC	< 2.8 U	NA	< 2.9 U	NA	< 2.9 U	NA
Naphthalene	91-20-3	10	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U
Nitrobenzene	98-95-3	0.4	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
N-Nitrosodiphenylamine	86-30-6	50	< 2.8 U	< 9.4 U	< 2.9 U	< 9.4 U	< 2.9 U	< 9.4 U
Pentachlorophenol	87-86-5	NC	< 5.6 U	< 47 U	< 5.8 U	< 47 U	< 5.7 U	< 47 U
Phenanthrene	85-01-8	50	0.14 J	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U
Phenol	108-95-2	NC	< 7.4 U	< 9.4 U	< 7.8 U	< 9.4 U	< 7.7 U	< 9.4 U
Pyrene	129-00-0	50	< 1.4 U	< 9.4 U	< 1.5 U	< 9.4 U	< 1.4 U	< 9.4 U
Pyridine	110-86-1	50	< 2.8 U	< 47 U	< 2.9 U	< 47 U	< 2.9 U	< 47 UJ
Total SVOCs TICs	NA	NC	4.7	NT	NT	NT	NT	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10B - Groundwater Results - SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-129	OVR-129	OVR-130	OVR-130	OVR-130
		Sample ID	OVR-129-081716	OVR-129-120716	OVR-130-082316	DUP-016-121316	OVR-130-121316
		Sample Date	8/17/2016	12/7/2016	8/23/2016	12/13/2016	12/13/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	2168907	R1612845	2170212	R1613018	R1613018
Chemical Name	CAS #	NYS GW CLASS GA[1]					
SVOCs							
1,1'-Biphenyl	92-52-4	5	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
1,2,4,5-Tetrachlorobenzene	95-94-3	5	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
2,4,5-Trichlorophenol	95-95-4	1	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
2,4,6-Trichlorophenol	88-06-2	NC	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
2,4-Dichlorophenol	120-83-2	5	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
2,4-Dimethylphenol	105-67-9	50	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
2,4-Dinitrophenol	51-28-5	10	< 5.7 UJ	< 47 U	< 5.9 U	< 47 U	< 47 U
2,4-Dinitrotoluene	121-14-2	5	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
2,6-Dinitrotoluene	606-20-2	5	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
2-Chloronaphthalene	91-58-7	10	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
2-Chlorophenol	95-57-8	1	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
2-Methylnaphthalene	91-57-6	NC	< 1.4 UJ	< 9.4 U	< 1.5 U	< 9.4 U	< 9.4 U
2-Methylphenol	95-48-7	1	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
2-Nitroaniline	88-74-4	5	< 2.9 UJ	< 47 U	< 2.9 U	< 47 U	< 47 U
2-Nitrophenol	88-75-5	1	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
3- AND 4- Methylphenol (TOTAL)	106-44-5	NC	NA	< 9.4 U	NA	< 9.4 U	< 9.4 UJ
3,3-Dichlorobenzidine	91-94-1	5	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
3-Nitroaniline	99-09-2	5	< 2.9 UJ	< 47 U	< 2.9 U	< 47 U	< 47 U
4,6-Dinitro-2-methylphenol	534-52-1	1	< 5.7 UJ	< 47 U	< 5.9 U	< 47 U	< 47 U
4-Bromophenyl-phenylether	101-55-3	NC	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
4-Chloro-3-methylphenol	59-50-7	1	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
4-Chloroaniline	106-47-8	5	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
4-Chlorophenyl-phenylether	7005-72-3	NC	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
4-Nitroaniline	100-01-6	5	< 2.9 UJ	< 47 U	< 2.9 U	< 47 U	< 47 U
4-Nitrophenol	100-02-7	1	< 2.9 UJ	< 47 U	< 2.9 U	< 47 U	< 47 UJ
Acenaphthene	83-32-9	NC	< 1.4 UJ	< 9.4 U	0.57 J	< 9.4 U	< 9.4 U
Acenaphthylene	208-96-8	NC	< 1.4 UJ	< 9.4 U	< 1.5 U	< 9.4 U	< 9.4 U
Acetophenone	98-86-2	NC	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
Anthracene	120-12-7	50	< 1.4 UJ	< 9.4 U	< 1.5 U	< 9.4 U	< 9.4 U
Atrazine	1912-24-9	7.5	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
Benzaldehyde	100-52-7	NC	< 2.9 UJ	< 47 U	< 2.9 U	< 47 U	< 47 UJ
Benzidine	92-87-5	5	< 7.7 UJ	< 94 U	< 7.8 U	< 94 U	< 94 U
Benzo[a]anthracene	56-55-3	0.002	< 1.4 UJ	< 9.4 U	< 1.5 U	< 9.4 U	< 9.4 U
Benzo[a]pyrene	50-32-8	0	< 1.4 UJ	< 9.4 U	< 1.5 U	< 9.4 U	< 9.4 U
Benzo[b]fluoranthene	205-99-2	0.002	< 1.4 UJ	< 9.4 U	< 1.5 U	< 9.4 U	< 9.4 U
Benzo[g,h,i]perylene	191-24-2	NC	< 1.4 UJ	< 9.4 U	< 1.5 U	< 9.4 U	< 9.4 U
Benzo[k]fluoranthene	207-08-9	0.002	< 1.4 UJ	< 9.4 U	< 1.5 U	< 9.4 U	< 9.4 U
Bis(2-Chloroethoxy)methane	111-91-1	5	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
Bis(2-Chloroethyl)Ether	111-44-4	1	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
Bis(2-Chloroisopropyl)ether	108-60-1	5	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
Bis(2-Ethylhexyl)phthalate	117-81-7	5	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 UJ	29 J
Butylbenzylphthalate	85-68-7	50	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
Caprolactam	105-60-2	NC	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
Carbazole	86-74-8	NC	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
Chrysene	218-01-9	0.002	< 1.4 UJ	< 9.4 U	< 1.5 U	< 9.4 U	< 9.4 U
Dibenzo[a,h]Anthracene	53-70-3	NC	< 1.4 UJ	< 9.4 U	< 1.5 U	< 9.4 U	< 9.4 U
Dibenzofuran	132-64-9	NC	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
Diethylphthalate	84-66-2	50	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
Dimethylphthalate	131-11-3	50	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
Di-n-butylphthalate	84-74-2	50	< 2.9 UJ	< 9.4 U	0.22 J	< 9.4 U	< 9.4 U
Di-n-octylphthalate	117-84-0	50	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
Fluoranthene	206-44-0	50	< 1.4 UJ	< 9.4 U	0.22 J	< 9.4 U	< 9.4 U
Fluorene	86-73-7	50	< 1.4 UJ	< 9.4 U	< 1.5 U	< 9.4 U	< 9.4 U
Hexachlorobenzene	118-74-1	0.04	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
Hexachlorobutadiene	87-68-3	0.5	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
Hexachlorocyclopentadiene	77-47-4	5	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
Hexachloroethane	67-72-1	5	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
Indeno[1,2,3-cd]pyrene	193-39-5	0.002	< 1.4 UJ	< 9.4 U	< 1.5 U	< 9.4 U	< 9.4 U
Isophorone	78-59-1	50	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
m-Cresol & p-Cresol	MEPH1314	NC	< 2.9 UJ	NA	< 2.9 U	NA	NA
Naphthalene	91-20-3	10	< 1.4 UJ	< 9.4 U	< 1.5 U	< 9.4 U	< 9.4 U
Nitrobenzene	98-95-3	0.4	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
N-Nitrosodiphenylamine	86-30-6	50	< 2.9 UJ	< 9.4 U	< 2.9 U	< 9.4 U	< 9.4 U
Pentachlorophenol	87-86-5	NC	< 5.7 UJ	< 47 U	< 5.9 U	< 47 U	< 47 U
Phenanthrene	85-01-8	50	< 1.4 UJ	< 9.4 U	0.15 J	< 9.4 U	< 9.4 U
Phenol	108-95-2	NC	< 7.7 UJ	< 9.4 U	< 7.8 U	< 9.4 U	< 9.4 UJ
Pyrene	129-00-0	50	< 1.4 UJ	< 9.4 U	< 1.5 U	< 9.4 U	< 9.4 U
Pyridine	110-86-1	50	< 2.9 UJ	< 47 UJ	< 2.9 U	< 47 U	< 47 UJ
Total SVOCs TICs	NA	NC	NT	NT	47	NT	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10B - Groundwater Results - SVOCs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-131	OVR-131	OVR-131	OVR-132	OVR-132
		Sample ID	DUP-012-082316	OVR-131-082316	OVR-131-121316	OVR-132-082316	OVR-132-121216
		Sample Date	8/23/2016	8/23/2016	12/13/2016	8/23/2016	12/12/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	2170212	2170212	R1613018	2170212	R1613018
Chemical Name	CAS #	NYS GW CLASS GA[1]					
SVOCs							
1,1'-Biphenyl	92-52-4	5	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
1,2,4,5-Tetrachlorobenzene	95-94-3	5	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
2,3,4,6-Tetrachlorophenol	58-90-2	NC	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
2,4,5-Trichlorophenol	95-95-4	1	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
2,4,6-Trichlorophenol	88-06-2	NC	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
2,4-Dichlorophenol	120-83-2	5	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
2,4-Dimethylphenol	105-67-9	50	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
2,4-Dinitrophenol	51-28-5	10	< 5.9 U	< 5.6 U	< 47 U	< 5.6 U	< 47 U
2,4-Dinitrotoluene	121-14-2	5	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
2,6-Dinitrotoluene	606-20-2	5	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
2-Chloronaphthalene	91-58-7	10	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
2-Chlorophenol	95-57-8	1	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
2-Methylnaphthalene	91-57-6	NC	< 1.5 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
2-Methylphenol	95-48-7	1	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
2-Nitroaniline	88-74-4	5	< 3.0 U	< 2.8 U	< 47 U	< 2.8 U	< 47 U
2-Nitrophenol	88-75-5	1	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
3- AND 4- Methylphenol (TOTAL)	106-44-5	NC	NA	NA	< 9.4 U	NA	< 9.4 U
3,3-Dichlorobenzidine	91-94-1	5	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
3-Nitroaniline	99-09-2	5	< 3.0 U	< 2.8 U	< 47 U	< 2.8 U	< 47 U
4,6-Dinitro-2-methylphenol	534-52-1	1	< 5.9 U	< 5.6 U	< 47 U	< 5.6 U	< 47 U
4-Bromophenyl-phenylether	101-55-3	NC	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
4-Chloro-3-methylphenol	59-50-7	1	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
4-Chloroaniline	106-47-8	5	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
4-Chlorophenyl-phenylether	7005-72-3	NC	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
4-Nitroaniline	100-01-6	5	< 3.0 UJ	< 2.8 U	< 47 U	< 2.8 U	< 47 U
4-Nitrophenol	100-02-7	1	< 3.0 U	< 2.8 U	< 47 UJ	< 2.8 U	< 47 U
Acenaphthene	83-32-9	NC	< 1.5 U	< 1.4 U	< 9.4 U	0.20 J	< 9.4 U
Acenaphthylene	208-96-8	NC	< 1.5 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Acetophenone	98-86-2	NC	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Anthracene	120-12-7	50	< 1.5 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Atrazine	1912-24-9	7.5	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Benzaldehyde	100-52-7	NC	< 3.0 U	< 2.8 U	< 47 U	< 2.8 U	< 47 U
Benzidine	92-87-5	5	< 7.9 U	< 7.5 U	< 94 U	< 7.5 U	< 94 U
Benzo[a]anthracene	56-55-3	0.002	< 1.5 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[a]pyrene	50-32-8	0	< 1.5 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[b]fluoranthene	205-99-2	0.002	< 1.5 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[g,h,i]perylene	191-24-2	NC	< 1.5 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Benzo[k]fluoranthene	207-08-9	0.002	< 1.5 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Bis(2-Chloroethoxy)methane	111-91-1	5	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Bis(2-Chloroethyl)Ether	111-44-4	1	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Bis(2-Chloroisopropyl)ether	108-60-1	5	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Bis(2-Ethylhexyl)phthalate	117-81-7	5	< 3.0 U	< 2.8 U	< 9.4 U	0.23 J	< 9.4 U
Butylbenzylphthalate	85-68-7	50	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Caprolactam	105-60-2	NC	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Carbazole	86-74-8	NC	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Chrysene	218-01-9	0.002	< 1.5 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Dibenzo[a,h]Anthracene	53-70-3	NC	< 1.5 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Dibenzofuran	132-64-9	NC	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Diethylphthalate	84-66-2	50	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Dimethylphthalate	131-11-3	50	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Di-n-butylphthalate	84-74-2	50	< 3.0 U	< 2.8 U	< 9.4 U	0.14 J	< 9.4 U
Di-n-octylphthalate	117-84-0	50	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Fluoranthene	206-44-0	50	< 1.5 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Fluorene	86-73-7	50	< 1.5 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Hexachlorobenzene	118-74-1	0.04	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Hexachlorobutadiene	87-68-3	0.5	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Hexachlorocyclopentadiene	77-47-4	5	< 3.0 UJ	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 UJ
Hexachloroethane	67-72-1	5	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Indeno[1,2,3-cd]pyrene	193-39-5	0.002	< 1.5 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Isophorone	78-59-1	50	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
m-Cresol & p-Cresol	MEPH1314	NC	< 3.0 U	< 2.8 U	NA	< 2.8 U	NA
Naphthalene	91-20-3	10	< 1.5 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Nitrobenzene	98-95-3	0.4	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
N-Nitroso-Di-N-Propylamine	621-64-7	NC	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
N-Nitrosodiphenylamine	86-30-6	50	< 3.0 U	< 2.8 U	< 9.4 U	< 2.8 U	< 9.4 U
Pentachlorophenol	87-86-5	NC	< 5.9 U	< 5.6 U	< 47 U	< 5.6 U	< 47 U
Phenanthrene	85-01-8	50	< 1.5 UJ	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Phenol	108-95-2	NC	< 7.9 U	< 7.5 U	< 9.4 U	< 7.5 U	< 9.4 U
Pyrene	129-00-0	50	< 1.5 U	< 1.4 U	< 9.4 U	< 1.4 U	< 9.4 U
Pyridine	110-86-1	50	< 3.0 U	< 2.8 U	< 47 U	< 2.8 U	< 47 U
Total SVOCs TICs	NA	NC	32.4	NT	NT	88.9	NT

Notes:
All units in micrograms per liter (µg/L)
NT - No TICs identified
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10C - Groundwater Results - PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	BED1-100	BED1-100	BED1-101	BED1-101	BED1-102	BED1-102	BED1-103	BED1-103	BED1-104
		Sample ID	BED1-100-082316	BED1-100-121316	BED1-101-082416	BED1-101-121216	BED1-102-081516	BED1-102-120516	BED1-103-081916	BED1-103-120916	BED1-104-081816
		Sample Date	8/23/2016	12/13/2016	8/24/2016	12/12/2016	8/15/2016	12/5/2016	8/19/2016	12/9/2016	8/18/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	2170212	R1613018	2170212	R1613018	2168497	R1612714	2169456	R1612845	2169456
Chemical Name	CAS #	NYS GW CLASS GA[1]									
PCBs											
Aroclor 1268	11100-14-4	NC	< 0.046 U	< 0.24 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.048 UJ
Aroclor-1016	12674-11-2	0.09	< 0.046 U	< 0.24 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.048 UJ
Aroclor-1221	11104-28-2	0.09	< 0.046 U	< 0.24 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.048 UJ
Aroclor-1232	11141-16-5	0.09	< 0.046 U	< 0.24 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.048 UJ
Aroclor-1242	53469-21-9	0.09	< 0.046 U	< 0.24 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.048 UJ
Aroclor-1248	12672-29-6	0.09	< 0.046 U	< 0.24 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.048 UJ
Aroclor-1254	11097-69-1	0.09	< 0.046 U	< 0.24 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.048 UJ
Aroclor-1260	11096-82-5	0.09	< 0.046 U	< 0.24 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.048 UJ
PCB-1262	37324-23-5	NC	< 0.046 U	< 0.24 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.048 UJ
Total PCBs	1336-36-3	0.09	< 0.046 U	ND	< 0.046 U	ND	< 0.047 U	ND	< 0.047 U	ND	< 0.048 UJ

Notes:
All units in micrograms per liter (µg/L)
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total PCBs per analysis for August 2016 samples and calculated as a sum of the detected aroclors for December 2016 samples.
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10C - Groundwater Results - PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	BED1-104	MW-3	MW-3	OVR-100	OVR-100	OVR-101	OVR-101	OVR-102	OVR-103
		Sample ID	BED1-104-120816	MW-3-082316	MW-3-120916	OVR-100-082316	OVR-100-121316	OVR-101-082416	OVR-101-121316	OVR-102-120516	OVR-103-082216
		Sample Date	12/8/2016	8/23/2016	12/9/2016	8/23/2016	12/13/2016	8/24/2016	12/13/2016	12/5/2016	8/22/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1612845	2170212	R1612845	2170212	R1613018	2170212	R1613018	R1612714	2169456
Chemical Name	CAS #	NYS GW CLASS GA[1]									
PCBs											
Aroclor 1268	11100-14-4	NC	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U
Aroclor-1016	12674-11-2	0.09	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U
Aroclor-1221	11104-28-2	0.09	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U
Aroclor-1232	11141-16-5	0.09	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U
Aroclor-1242	53469-21-9	0.09	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U
Aroclor-1248	12672-29-6	0.09	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U	0.096 J	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U
Aroclor-1254	11097-69-1	0.09	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U	0.075 J	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U
Aroclor-1260	11096-82-5	0.09	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U
PCB-1262	37324-23-5	NC	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U
Total PCBs	1336-36-3	0.09	ND	< 0.046 U	ND	< 0.046 U	0.171	< 0.046 U	ND	ND	< 0.047 U

Notes:
All units in micrograms per liter (µg/L)
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total PCBs per analysis for August 2016 samples and calculated as a sum of the detec
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10C - Groundwater Results - PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-103	OVR-104	OVR-104	OVR-105	OVR-105	OVR-105	OVR-106	OVR-106	OVR-107
		Sample ID	OVR-103-120916	OVR-104-081816	OVR-104-120816	OVR-105-081516	OVR-105-081516	OVR-105-120516	OVR-106-082216	OVR-106-121216	OVR-107-082316
		Sample Date	12/9/2016	8/18/2016	12/8/2016	8/15/2016	8/15/2016	12/5/2016	8/22/2016	12/12/2016	8/23/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1612845	2169456	R1612845	2168497	2170212	R1612714	2170212	R1613018	2170212
Chemical Name	CAS #	NYS GW CLASS GA[1]									
PCBs											
Aroclor 1268	11100-14-4	NC	< 0.047 U	< 0.049 UJ	< 0.047 U	< 0.049 U	< 0.050 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U
Aroclor-1016	12674-11-2	0.09	< 0.047 U	< 0.049 UJ	< 0.047 U	< 0.049 U	< 0.050 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U
Aroclor-1221	11104-28-2	0.09	< 0.047 U	< 0.049 UJ	< 0.047 U	< 0.049 U	< 0.050 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U
Aroclor-1232	11141-16-5	0.09	< 0.047 U	< 0.049 UJ	< 0.047 U	< 0.049 U	< 0.050 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U
Aroclor-1242	53469-21-9	0.09	< 0.047 U	< 0.049 UJ	< 0.047 U	< 0.049 U	< 0.050 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U
Aroclor-1248	12672-29-6	0.09	< 0.047 U	< 0.049 UJ	< 0.047 U	< 0.049 U	< 0.050 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U
Aroclor-1254	11097-69-1	0.09	< 0.047 U	< 0.049 UJ	< 0.047 U	< 0.049 U	< 0.050 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U
Aroclor-1260	11096-82-5	0.09	< 0.047 U	< 0.049 UJ	< 0.047 U	< 0.049 U	< 0.050 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U
PCB-1262	37324-23-5	NC	< 0.047 U	< 0.049 UJ	< 0.047 U	< 0.049 U	< 0.050 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.046 U
Total PCBs	1336-36-3	0.09	ND	< 0.049 UJ	ND	< 0.049 U	ND	< 0.046 U	ND	< 0.046 U	ND

Notes:
All units in micrograms per liter (µg/L)
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total PCBs per analysis for August 2016 samples and calculated as a sum of the detec
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10C - Groundwater Results - PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-107	OVR-108	OVR-108	OVR-109	OVR-109	OVR-110	OVR-110	OVR-111	OVR-111
		Sample ID	OVR-107-121216	OVR-108-082216	OVR-108-121216	OVR-109-082216	OVR-109-121216	OVR-110-081616	OVR-110-120516	OVR-111-082216	OVR-111-120916
		Sample Date	12/12/2016	8/22/2016	12/12/2016	8/22/2016	12/12/2016	8/15/2016	12/5/2016	8/22/2016	12/9/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1613018	2169456	R1613018	2169456	R1613018	2168497	R1612714	2169456	R1612845
Chemical Name	CAS #	NYS GW CLASS GA[1]									
PCBs											
Aroclor 1268	11100-14-4	NC	< 0.047 U	< 0.047 U	< 0.047 U	< 0.050 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.053 U	< 0.047 U
Aroclor-1016	12674-11-2	0.09	< 0.047 U	< 0.047 U	< 0.047 U	< 0.050 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.053 U	< 0.047 U
Aroclor-1221	11104-28-2	0.09	< 0.047 U	< 0.047 U	< 0.047 U	< 0.050 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.053 U	< 0.047 U
Aroclor-1232	11141-16-5	0.09	< 0.047 U	< 0.047 U	< 0.047 U	< 0.050 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.053 U	< 0.047 U
Aroclor-1242	53469-21-9	0.09	< 0.047 U	< 0.047 U	< 0.047 U	< 0.050 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.053 U	< 0.047 U
Aroclor-1248	12672-29-6	0.09	< 0.047 U	< 0.047 U	< 0.047 U	< 0.050 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.053 U	< 0.047 U
Aroclor-1254	11097-69-1	0.09	< 0.047 U	< 0.047 U	< 0.047 U	< 0.050 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.053 U	< 0.047 U
Aroclor-1260	11096-82-5	0.09	< 0.047 U	< 0.047 U	< 0.047 U	< 0.050 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.053 U	< 0.047 U
PCB-1262	37324-23-5	NC	< 0.047 U	< 0.047 U	< 0.047 U	< 0.050 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.053 U	< 0.047 U
Total PCBs	1336-36-3	0.09	< 0.047 U	ND	< 0.050 U	ND	< 0.046 U	ND	< 0.053 U	ND	< 0.048 U

Notes:
All units in micrograms per liter (µg/L)
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total PCBs per analysis for August 2016 samples and calculated as a sum of the detec
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10C - Groundwater Results - PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-112	OVR-112	OVR-113	OVR-114	OVR-114	OVR-115	OVR-115	OVR-116	OVR-116
		Sample ID	OVR-112-081916	OVR-112-120816	OVR-113-120816	OVR-114-081616	OVR-114-120516	OVR-115-081616	OVR-115-120616	DUP-011-081616	OVR-116-081616
		Sample Date	8/19/2016	12/8/2016	12/8/2016	8/15/2016	12/5/2016	8/15/2016	12/6/2016	8/15/2016	8/15/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	2169456	R1612845	R1612845	2168497	R1612714	2168497	R1612714	2168497	2168497
Chemical Name	CAS #	NYS GW CLASS GA[1]									
PCBs											
Aroclor 1268	11100-14-4	NC	< 0.048 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.049 U	< 0.048 U
Aroclor-1016	12674-11-2	0.09	< 0.048 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.049 U	< 0.048 U
Aroclor-1221	11104-28-2	0.09	< 0.048 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.049 U	< 0.048 U
Aroclor-1232	11141-16-5	0.09	< 0.048 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.049 U	< 0.048 U
Aroclor-1242	53469-21-9	0.09	< 0.048 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.049 U	< 0.048 U
Aroclor-1248	12672-29-6	0.09	< 0.048 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.049 U	< 0.048 U
Aroclor-1254	11097-69-1	0.09	< 0.048 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.049 U	< 0.048 U
Aroclor-1260	11096-82-5	0.09	< 0.048 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.049 U	< 0.048 U
PCB-1262	37324-23-5	NC	< 0.048 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.049 U	< 0.048 U
Total PCBs	1336-36-3	0.09	ND	ND	< 0.047 U	ND	< 0.047 U	ND	< 0.049 U	< 0.048 U	ND

Notes:
All units in micrograms per liter (µg/L)
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total PCBs per analysis for August 2016 samples and calculated as a sum of the detec
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10C - Groundwater Results - PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-116	OVR-117	OVR-117	OVR-118	OVR-118	OVR-119	OVR-119	OVR-120	OVR-120
		Sample ID	OVR-116-120616	OVR-117-082416	OVR-117-121316	OVR-118-081816	OVR-118-120716	OVR-119-081916	OVR-119-120816	OVR-120-081816	OVR-120-120816
		Sample Date	12/6/2016	8/24/2016	12/13/2016	8/18/2016	12/7/2016	8/19/2016	12/8/2016	8/18/2016	12/8/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1612714	2170212	R1613018	2168907	R1612845	2169456	R1612845	2168907	R1612845
Chemical Name	CAS #	NYS GW CLASS GA[1]									
PCBs											
Aroclor 1268	11100-14-4	NC	< 0.047 U	< 0.046 U	< 0.047 U	< 0.048 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U
Aroclor-1016	12674-11-2	0.09	< 0.047 U	< 0.046 U	< 0.047 U	< 0.048 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U
Aroclor-1221	11104-28-2	0.09	< 0.047 U	< 0.046 U	< 0.047 U	< 0.048 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U
Aroclor-1232	11141-16-5	0.09	< 0.047 U	< 0.046 U	< 0.047 U	< 0.048 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U
Aroclor-1242	53469-21-9	0.09	< 0.047 U	< 0.046 U	< 0.047 U	< 0.048 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U
Aroclor-1248	12672-29-6	0.09	< 0.047 U	< 0.046 U	< 0.047 U	< 0.048 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U
Aroclor-1254	11097-69-1	0.09	< 0.047 U	< 0.046 U	< 0.047 U	< 0.048 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U
Aroclor-1260	11096-82-5	0.09	< 0.047 U	< 0.046 U	< 0.047 U	< 0.048 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U
PCB-1262	37324-23-5	NC	< 0.047 U	< 0.046 U	< 0.047 U	< 0.048 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U
Total PCBs	1336-36-3	0.09	< 0.046 U	ND	< 0.048 U	ND	< 0.047 U	ND	< 0.047 U	ND	< 0.049 U

Notes:
All units in micrograms per liter (µg/L)
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total PCBs per analysis for August 2016 samples and calculated as a sum of the detec
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10C - Groundwater Results - PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-121	OVR-121	OVR-122	OVR-122	OVR-123	OVR-123	OVR-124	OVR-124	OVR-124
		Sample ID	OVR-121-081616	OVR-121-120616	OVR-122-081816	OVR-122-120716	OVR-123-081816	OVR-123-120716	OVR-124-081716	DUP-015-120716	OVR-124-120716
		Sample Date	8/16/2016	12/6/2016	8/18/2016	12/7/2016	8/18/2016	12/7/2016	8/17/2016	12/7/2016	12/7/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	2168907	R1612714	2168907	R1612845	2168907	R1612845	2168907	R1612845	R1612845
Chemical Name	CAS #	NYS GW CLASS GA[1]									
PCBs											
Aroclor 1268	11100-14-4	NC	< 0.049 U	< 0.047 U	< 0.089 U	< 0.047 U	< 0.083 U	< 0.047 U	< 0.046 J	< 0.047 U	< 0.047 U
Aroclor-1016	12674-11-2	0.09	< 0.049 U	< 0.047 U	< 0.089 U	< 0.047 U	< 0.083 U	< 0.047 U	< 0.046 J	< 0.047 U	< 0.047 U
Aroclor-1221	11104-28-2	0.09	< 0.049 U	< 0.047 U	< 0.089 U	< 0.047 U	< 0.083 U	< 0.047 U	< 0.046 J	< 0.047 U	< 0.047 U
Aroclor-1232	11141-16-5	0.09	< 0.049 U	< 0.047 U	< 0.089 U	< 0.047 U	< 0.083 U	< 0.047 U	< 0.046 J	< 0.047 U	< 0.047 U
Aroclor-1242	53469-21-9	0.09	< 0.049 U	< 0.047 U	< 0.089 U	< 0.047 U	< 0.083 U	< 0.047 U	< 0.046 J	< 0.047 U	< 0.047 U
Aroclor-1248	12672-29-6	0.09	< 0.049 U	< 0.047 U	< 0.089 U	< 0.047 U	< 0.083 U	< 0.047 U	< 0.046 J	< 0.047 U	< 0.047 U
Aroclor-1254	11097-69-1	0.09	< 0.049 U	< 0.047 U	< 0.089 U	< 0.047 U	< 0.083 U	< 0.047 U	< 0.046 J	< 0.047 U	< 0.047 U
Aroclor-1260	11096-82-5	0.09	< 0.049 U	< 0.047 U	< 0.089 U	< 0.047 U	< 0.083 U	< 0.047 U	< 0.046 J	< 0.047 U	< 0.047 U
PCB-1262	37324-23-5	NC	< 0.049 U	< 0.047 U	< 0.089 U	< 0.047 U	< 0.083 U	< 0.047 U	< 0.046 J	< 0.047 U	< 0.047 U
Total PCBs	1336-36-3	0.09	ND	< 0.089 U	ND	< 0.083 U	ND	< 0.046 UJ	ND	ND	< 0.049 U

Notes:
All units in micrograms per liter (µg/L)
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total PCBs per analysis for August 2016 samples and calculated as a sum of the detec
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10C - Groundwater Results - PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-125	OVR-125	OVR-126	OVR-126	OVR-127	OVR-127	OVR-128	OVR-128	OVR-129
		Sample ID	OVR-125-081716	OVR-125-120616	OVR-126-081716	OVR-126-120616	OVR-127-081716	OVR-127-120616	OVR-128-081716	OVR-128-120716	OVR-129-081716
		Sample Date	8/17/2016	12/6/2016	8/17/2016	12/6/2016	8/17/2016	12/6/2016	8/17/2016	12/7/2016	8/17/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	2168907	R1612714	2168907	R1612714	2168907	R1612714	2168907	R1612845	2168907
Chemical Name	CAS #	NYS GW CLASS GA[1]									
PCBs											
Aroclor 1268	11100-14-4	NC	< 0.049 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 UJ
Aroclor-1016	12674-11-2	0.09	< 0.049 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 UJ
Aroclor-1221	11104-28-2	0.09	< 0.049 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 UJ
Aroclor-1232	11141-16-5	0.09	< 0.049 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 UJ
Aroclor-1242	53469-21-9	0.09	< 0.049 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 UJ
Aroclor-1248	12672-29-6	0.09	< 0.049 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 UJ
Aroclor-1254	11097-69-1	0.09	< 0.049 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 UJ
Aroclor-1260	11096-82-5	0.09	< 0.049 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 UJ
PCB-1262	37324-23-5	NC	< 0.049 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 UJ
Total PCBs	1336-36-3	0.09	ND	< 0.046 U	ND	< 0.047 U	ND	< 0.047 U	ND	< 0.047 UJ	ND

Notes:
All units in micrograms per liter (µg/L)
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total PCBs per analysis for August 2016 samples and calculated as a sum of the detec
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10C - Groundwater Results - PCBs
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-129	OVR-130	OVR-130	OVR-130	OVR-131	OVR-131	OVR-131	OVR-132	OVR-132
		Sample ID	OVR-129-120716	OVR-130-082316	DUP-016-121316	OVR-130-121316	DUP-012-082316	OVR-131-082316	OVR-131-121316	OVR-132-082316	OVR-132-121216
		Sample Date	12/7/2016	8/23/2016	12/13/2016	12/13/2016	8/23/2016	8/23/2016	12/13/2016	8/23/2016	12/12/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1612845	2170212	R1613018	R1613018	2170212	2170212	R1613018	2170212	R1613018
Chemical Name	CAS #	NYS GW CLASS GA[1]									
PCBs											
Aroclor 1268	11100-14-4	NC	< 0.047 U	< 0.050 U	< 0.24 U	< 0.24 U	< 0.046 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.083 U
Aroclor-1016	12674-11-2	0.09	< 0.047 U	< 0.050 U	< 0.24 U	< 0.24 U	< 0.046 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.083 U
Aroclor-1221	11104-28-2	0.09	< 0.047 U	< 0.050 U	< 0.24 U	< 0.24 U	< 0.046 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.083 U
Aroclor-1232	11141-16-5	0.09	< 0.047 U	< 0.050 U	< 0.24 U	< 0.24 U	< 0.046 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.083 U
Aroclor-1242	53469-21-9	0.09	< 0.047 U	< 0.050 U	< 0.24 U	< 0.24 U	< 0.046 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.083 U
Aroclor-1248	12672-29-6	0.09	< 0.047 U	< 0.050 U	< 0.24 U	< 0.24 U	< 0.046 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.083 U
Aroclor-1254	11097-69-1	0.09	< 0.047 U	< 0.050 U	< 0.24 U	< 0.24 U	< 0.046 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.083 U
Aroclor-1260	11096-82-5	0.09	< 0.047 U	< 0.050 U	< 0.24 U	< 0.24 U	< 0.046 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.083 U
PCB-1262	37324-23-5	NC	< 0.047 U	< 0.050 U	< 0.24 U	< 0.24 U	< 0.046 U	< 0.046 U	< 0.047 U	< 0.047 U	< 0.083 U
Total PCBs	1336-36-3	0.09	< 0.050 U	ND	ND	< 0.046 U	< 0.046 U	ND	< 0.047 U	ND	

Notes:
All units in micrograms per liter (µg/L)
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
Total PCBs per analysis for August 2016 samples and calculated as a sum of the detec
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10D - Groundwater Results
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	BED1-100	BED1-100	BED1-101	BED1-101	BED1-102	BED1-102	BED1-103	BED1-103	BED1-104
		Sample ID	BED1-100-082316	BED1-100-121316	BED1-101-082416	BED1-101-121216	BED1-102-081516	BED1-102-120516	BED1-103-081916	BED1-103-120916	BED1-104-081816
		Sample Date	8/23/2016	12/13/2016	8/24/2016	12/12/2016	8/15/2016	12/5/2016	8/19/2016	12/9/2016	8/18/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1608915	R1613018	R1608915	R1613018	R1608604	R1612714	R1608824	R1612845	R1608824
Chemical Name	CAS #	NYS GW CLASS GA[1]									
Inorganics											
Aluminum	7429-90-5	NC	< 100 U	51.3 J	< 100 U	39.3 J	< 100 U	< 100 U	< 100 U	34.1 J	< 100 UJ
Antimony	7440-36-0	3	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60.0 U	< 60 U	< 60 U	< 60 UJ
Arsenic	7440-38-2	25	< 10 U		< 10 U	< 10 U	< 10 U	< 10.0 U	< 10 U	< 10 U	< 10 UJ
Barium	7440-39-3	1,000	< 20 U	< 20 U	76.3	79.1	142	128	70.4	30.1	109 J
Beryllium	7440-41-7	3	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3.0 U	< 3 U	< 3 U	< 3 UJ
Cadmium	7440-43-9	5	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5.0 U	< 5 U	< 5 U	< 5 UJ
Calcium	7440-70-2	NC	330,000	225,000	92,500	92,000	126,000	160,000	189,000	144,000	140000 J
Chromium	7440-47-3	50	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10.0 U	< 10 U	< 10 U	< 10 UJ
Cobalt	7440-48-4	NC	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50.0 U	< 50 U	< 50 U	< 50 UJ
Copper	7440-50-8	200	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20.0 U	< 20 U	< 20 U	< 20 UJ
Cyanide	57-12-5	200	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 UJ
Iron	7439-89-6	300	< 100 U	50.3 J	273	566	2,720	2,670	169	< 100 U	< 100 UJ
Lead	7439-92-1	25	< 5 U	< 5 U	< 5 U	< 5 U	< 50 U	< 5.0 U	< 5 U	< 5 U	< 5 UJ
Magnesium	7439-95-4	35,000	110,000	89,400	52,600	52,900	41,000	51,900	75,900	58,300	58400 J
Manganese	7439-96-5	300	< 10 U	32	31.7	32.1	368	405	833	178	51.3 J
Mercury	7439-97-6	0.7	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	0.04 J	< 0.200 U	< 0.2 U	< 0.2 U	< 0.2 U
Nickel	7440-02-0	100	< 40 U	< 40 U	< 40 U	< 40 U	< 40 U	< 40.0 U	< 40 U	< 40 U	< 40 UJ
Potassium	7440-09-7	NC	6,230	5,510	2,270	2,340	3,850	4,070	5,270	9,210	6030 J
Potassium	9/7/7440	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	7782-49-2	10	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10.0 U	< 10 U	< 10 U	< 10 UJ
Silver	7440-22-4	50	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10.0 U	< 10 U	< 10 U	< 10 UJ
Sodium	7440-23-5	20,000	22,600	40,800	68,200	70,200	26,400 J	28,100	42,800	48,900	51000 J
Thallium	7440-28-0	0.5	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10.0 U	< 10 U	2.7 J	< 10 UJ
Vanadium	7440-62-2	NC	< 50 U	1 J	< 50 U	< 50 U	< 50 U	< 50.0 U	< 50 U	< 50 U	< 50 UJ
Zinc	7440-66-6	2,000	< 20 U	2.6 J	< 20 U	2.1 J	< 20 U	3.0 J	< 20 U	< 20 U	< 20 UJ

Notes:
All units in micrograms per liter (µg/L)
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10D - Groundwater Results
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	BED1-104	MW-3	MW-3	OVR-100	OVR-100	OVR-101	OVR-101	OVR-102	OVR-102
		Sample ID	BED1-104-120816	MW-3-082316	MW-3-120916	OVR-100-082316	OVR-100-121316	OVR-101-082416	OVR-101-121316	OVR-102-081516	OVR-102-120516
		Sample Date	12/8/2016	8/23/2016	12/9/2016	8/23/2016	12/13/2016	8/24/2016	12/13/2016	8/15/2016	12/5/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1612845	R1608915	R1612845	R1608915	R1613018	R1608915	R1613018	R1608604	R1612714
Chemical Name	CAS #	NYS GW CLASS GA[1]									
Inorganics											
Aluminum	7429-90-5	NC	40.2 J	< 100 U	118	< 100 U	232	< 100 U	491	< 100 U	212
Antimony	7440-36-0	3	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60.0 U
Arsenic	7440-38-2	25	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	62.1	67.6	19.5	28.3
Barium	7440-39-3	1,000	129	117	96.1	213	193	183	188	242	338
Beryllium	7440-41-7	3	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3.0 U
Cadmium	7440-43-9	5	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5.0 U
Calcium	7440-70-2	NC	126,000	234,000	215,000	132,000	186,000	145,000	153,000	183,000	183,000
Chromium	7440-47-3	50	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10.0 U
Cobalt	7440-48-4	NC	< 50 U	< 50 U	1.3 J	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50.0 U
Copper	7440-50-8	200	< 20 U	< 20 U	1 J	< 20 U	1.1 J	< 20 U	2.5 J	< 20 U	< 20.0 U
Cyanide	57-12-5	200	< 10 U	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 U	5 J	< 10 U	< 10 U
Iron	7439-89-6	300	< 100 U	< 100 U	183	4,040	7,590	2,490	2,330	15,900	23,300
Lead	7439-92-1	25	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	9.5	< 50 U	< 5.0 U
Magnesium	7439-95-4	35,000	52,400	71,600	68,400	109,000	92,000	41,600	42,500	73,400	90,300
Manganese	7439-96-5	300	53.8	238	113	442	418	719	900	796	1,190
Mercury	7439-97-6	0.7	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	0.065 J	< 0.2 U	< 0.200 U
Nickel	7440-02-0	100	< 40 U	< 40 U	< 40 U	< 40 U	< 40 U	< 40 U	< 40 U	< 40 U	< 40.0 U
Potassium	7440-09-7	NC	5,820	12,500	13,800	8,470	7,680	5,910	5,220	7,070	9,320
Potassium	9/7/7440	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	7782-49-2	10	< 10 U	3.5 J	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10.0 U
Silver	7440-22-4	50	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10.0 U
Sodium	7440-23-5	20,000	47,700	274,000	280,000	57,000	56,000	48,000	16,300	17100 J	25,500
Thallium	7440-28-0	0.5	< 10 U	< 10 U	6.2 J	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10.0 U
Vanadium	7440-62-2	NC	< 50 U	< 50 U	1.7 J	< 50 U	2.2 J	< 50 U	2.8 J	< 50 U	1.0 J
Zinc	7440-66-6	2,000	< 20 U	< 20 U	< 20 U	< 20 U	5.1 J	1.8 J	15.2 J	< 20 U	4.7 J

Notes:
All units in micrograms per liter (µg/L)
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10D - Groundwater Results
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-103	OVR-103	OVR-104	OVR-104	OVR-105	OVR-105	OVR-106	OVR-106	OVR-107
		Sample ID	OVR-103-082216	OVR-103-120916	OVR-104-081816	OVR-104-120816	OVR-105-081516	OVR-105-120516	OVR-106-082216	OVR-106-121216	OVR-107-082316
		Sample Date	8/22/2016	12/9/2016	8/18/2016	12/8/2016	8/15/2016	12/5/2016	8/22/2016	12/12/2016	8/23/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1608824	R1612845	R1608824	R1612845	R1608604	R1612714	R1608915	R1613018	R1608915
Chemical Name	CAS #	NYS GW CLASS GA[1]									
Inorganics											
Aluminum	7429-90-5	NC	7,630	10,400	3270 J	2,870	164	731	1910 N	494	576
Antimony	7440-36-0	3	< 60 U	< 60 U	< 60 UJ	< 60 U	< 60 U	< 60.0 U	< 60 U	< 60 U	< 60 U
Arsenic	7440-38-2	25	26.3	23.1	< 10 UJ	< 10 U	37.4	38.2	12.3	12.9	37.8
Barium	7440-39-3	1,000	180	179	56.3 J	60	317	306	377	348	108
Beryllium	7440-41-7	3	0.3 J	0.4 J	< 3 UJ	< 3 U	< 3 U	< 3.0 U	< 3 U	< 3 U	< 3 U
Cadmium	7440-43-9	5	< 5 U	< 5 U	< 5 UJ	< 5 U	< 5 U	< 5.0 U	< 5 U	< 5 U	< 5 U
Calcium	7440-70-2	NC	203,000	237,000	346000 J	331,000	225,000	183,000	212,000	184,000	159,000
Chromium	7440-47-3	50	7.6 J	11.6	< 10 UJ	< 10 U	< 10 U	< 10.0 U	< 10 U	< 10 U	< 10 U
Cobalt	7440-48-4	NC	6.4 J	9 J	2.2 J	1.5 J	< 50 U	< 50.0 U	< 50 U	< 50 U	< 50 U
Copper	7440-50-8	200	13.5 J	17.9 J	3.1 J	2.7 J	< 20 U	1.4 J	< 20 U	1.3 J	< 20 U
Cyanide	57-12-5	200	< 10 U	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Iron	7439-89-6	300	28,900	33,000	12700 J	12,300	18,300	13,400	20,400	15,100	23,400
Lead	7439-92-1	25	16.5	23	< 5 UJ	2.2 J	< 50 U	< 5.0 U	5.7	< 5 U	< 5 U
Magnesium	7439-95-4	35,000	71,400	76,500	95200 J	90,200	77,100	68,700	74,400	62,300	72,600
Manganese	7439-96-5	300	3,790	3,700	2300 J	2,110	3,900	3,550	3,140	2,320	761
Mercury	7439-97-6	0.7	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.200 U	< 0.2 U	< 0.2 U	< 0.2 U
Nickel	7440-02-0	100	10.3 J	< 40 U	< 40 UJ	< 40 U	< 40 U	< 40.0 U	< 40 U	< 40 U	< 40 U
Potassium	7440-09-7	NC	7,120	8,230	10100 J	10,600	7,680	8,810	16,600	17,200	< 2000 U
Potassium	9/7/7440	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	7782-49-2	10	< 10 U	< 10 U	3.9 J	< 10 U	5.4 J	< 10.0 U	3.9 J	< 10 U	< 10 U
Silver	7440-22-4	50	< 10 U	< 10 U	< 10 UJ	< 10 U	< 10 U	< 10.0 U	< 10 U	< 10 U	< 10 U
Sodium	7440-23-5	20,000	12,300	14,700	38900 J	33,300	41100 J	41,900	27,600	34,700	36,300
Thallium	7440-28-0	0.5	< 10 U	< 10 U	11.2 J	6.5 J	< 10 U	3.1 J	< 10 U	< 10 U	< 10 U
Vanadium	7440-62-2	NC	< 50 U	20.3 J	< 50 UJ	4.6 J	< 50 U	1.7 J	< 50 U	2.3 J	< 50 U
Zinc	7440-66-6	2,000	71.4	95.3	12.4 UJ	< 20 U	< 20 U	5.2 J	22.4	30.1	3.6 J

Notes:
All units in micrograms per liter (µg/L)
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10D - Groundwater Results
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-107	OVR-108	OVR-108	OVR-109	OVR-109	OVR-110	OVR-110	OVR-111	OVR-111
		Sample ID	OVR-107-121216	OVR-108-082216	OVR-108-121216	OVR-109-082216	OVR-109-121216	OVR-110-081616	OVR-110-120516	OVR-111-082216	OVR-111-120916
		Sample Date	12/12/2016	8/22/2016	12/12/2016	8/22/2016	12/12/2016	8/15/2016	12/5/2016	8/22/2016	12/9/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1613018	R1608824	R1613018	R1608824	R1613018	R1608604	R1612714	R1608824	R1612845
Chemical Name	CAS #	NYS GW CLASS GA[1]									
Inorganics											
Aluminum	7429-90-5	NC	431	4,540	448	478	553	110	317	511	2,880
Antimony	7440-36-0	3	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60.0 U	< 60 U	< 60 U
Arsenic	7440-38-2	25	14.8	20	< 10 U	< 10 U	< 10 U	37.3	23.8	6.6 J	7.2 J
Barium	7440-39-3	1,000	125	195	77.2	116	125	257	236	89.1	94.2
Beryllium	7440-41-7	3	< 3 U	0.2 J	< 3 U	< 3 U	< 3 U	< 3 U	< 3.0 U	< 3 U	< 3 U
Cadmium	7440-43-9	5	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5.0 U	< 5 U	< 5 U
Calcium	7440-70-2	NC	202,000	194,000	257,000	155,000	171,000	107,000	107,000	135,000	149,000
Chromium	7440-47-3	50	< 10 U	3.5 J	< 10 U	< 10 U	< 10 U	< 10 U	< 10.0 U	< 10 U	< 10 U
Cobalt	7440-48-4	NC	< 50 U	2.6 J	< 50 U	< 50 U	< 50 U	< 50 U	< 50.0 U	< 50 U	2.5 J
Copper	7440-50-8	200	1.3 J	6.8 J	2.3 J	0.9 J	1.2 J	< 20 U	< 20.0 U	0.9 J	4.2 J
Cyanide	57-12-5	200	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Iron	7439-89-6	300	6,840	26,600	1,500	6,480	5,770	6,520	6,810	9,080	11,500
Lead	7439-92-1	25	< 5 U	3.3 J	< 5 U	< 5 U	< 5 U	< 50 U	< 5.0 U	< 5 U	4 J
Magnesium	7439-95-4	35,000	60,700	61,500	60,100	54,800	54,100	60,300	62,800	47,000	44,100
Manganese	7439-96-5	300	662	1,290	409	3,280	2,910	731	849	3,970	4,080
Mercury	7439-97-6	0.7	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.200 U	< 0.2 U	< 0.2 U
Nickel	7440-02-0	100	< 40 U	5.2 J	< 40 U	< 40 U	< 40 U	< 40 U	< 40.0 U	< 40 U	< 40 U
Potassium	7440-09-7	NC	2,010	4,930	2,010	7,130	7,440	21,900	21,900	5,660	6,170
Potassium	9/7/7440	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	7782-49-2	10	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10.0 U	< 10 U	< 10 U
Silver	7440-22-4	50	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10.0 U	< 10 U	< 10 U
Sodium	7440-23-5	20,000	52,000	15,300	17,900	6,530	7,620	40,700 J	42,800	5,500	5,740
Thallium	7440-28-0	0.5	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10.0 U	< 10 U	< 10 U
Vanadium	7440-62-2	NC	3.4 J	< 50 U	2 J	< 50 U	2.2 J	< 50 U	< 50.0 U	< 50 U	6 J
Zinc	7440-66-6	2,000	6.3 J	19.2 J	10.1 J	10.4 J	13.6 J	< 20 U	3.9 J	5.9 J	27.9

Notes:
All units in micrograms per liter (µg/L)
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10D - Groundwater Results
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-112	OVR-112	OVR-113	OVR-113	OVR-114	OVR-114	OVR-115	OVR-115	OVR-116
		Sample ID	OVR-112-081916	OVR-112-120816	OVR-113-081916	OVR-113-120816	OVR-114-081616	OVR-114-120516	OVR-115-081616	OVR-115-120616	DUP-011-081616
		Sample Date	8/19/2016	12/8/2016	8/19/2016	12/8/2016	8/15/2016	12/5/2016	8/15/2016	12/6/2016	8/15/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1608824	R1612845	R1608824	R1612845	R1608604	R1612714	R1608604	R1612714	R1608604
Chemical Name	CAS #	NYS GW CLASS GA[1]									
Inorganics											
Aluminum	7429-90-5	NC	1,300	1,000	905	685	1,270	5,680	413	1,370	478
Antimony	7440-36-0	3	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60.0 U	< 60 U	< 60.0 U	< 60 U
Arsenic	7440-38-2	25	< 10 U	< 10 U	6.4 J	6.7 J	< 10 U	< 10.0 U	< 10 U	< 10.0 U	< 10 U
Barium	7440-39-3	1,000	44.7	37.5	198	179	139	136	282	426	204
Beryllium	7440-41-7	3	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3.0 U	< 3 U	< 3.0 U	< 3 U
Cadmium	7440-43-9	5	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5.0 U	< 5 U	< 5.0 U	< 5 U
Calcium	7440-70-2	NC	341,000	315,000	191,000	184,000	184,000	182,000	92,300	93,900	159,000
Chromium	7440-47-3	50	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	1.4 J	< 10 U	1.3 J	< 10 U
Cobalt	7440-48-4	NC	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	3.6 J	< 50 U	1.5 J	< 50 U
Copper	7440-50-8	200	1 J	0.9 J	2.1 J	0.9 J	< 20 U	5.4 J	< 20 U	0.800 J	< 20 U
Cyanide	57-12-5	200	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Iron	7439-89-6	300	10,200	5,070	14,300	14,600	2,610	6,470	3,700	4,970	4,600
Lead	7439-92-1	25	< 5 U	< 5 U	< 5 U	< 5 U	< 50 U	4.3 J	< 50 U	< 5.0 U	< 50 U
Magnesium	7439-95-4	35,000	162,000	150,000	69,000	60,400	61,700	62,300	35,500	38,100	54,300
Manganese	7439-96-5	300	6,970	5,420	2,190	1,910	12,300	13,400	661	608	6,500
Mercury	7439-97-6	0.7	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.2 U
Nickel	7440-02-0	100	< 40 U	< 40 U	< 40 U	< 40 U	< 40 U	3.9 J	< 40 U	< 40.0 U	< 40 U
Potassium	7440-09-7	NC	1400 J	1280 J	2,660	2,620	4,830	5,030	32,300	58,400	2,050
Potassium	9/7/7440	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	7782-49-2	10	7.1 J	< 10 U	< 10 U	< 10 U	7.4 J	4.2 J	< 10 U	< 10.0 U	4 J
Silver	7440-22-4	50	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10.0 U	< 10 U	< 10.0 U	< 10 U
Sodium	7440-23-5	20,000	36,800	38,700	13,000	11,500	30,800 J	38,500	47,300 J	53,400	15,300 J
Thallium	7440-28-0	0.5	10.3	7.7 J	< 10 U	< 10 U	< 10 U	< 10.0 U	< 10 U	< 10.0 U	< 10 U
Vanadium	7440-62-2	NC	< 50 U	2 J	< 50 U	1.8 J	< 50 U	10.1 J	< 50 U	2.1 J	< 50 U
Zinc	7440-66-6	2,000	3.6 J	< 20 U	15.2 J	< 20 U	< 20 U	24.3	< 20 U	5.6 J	< 20 U

Notes:
All units in micrograms per liter (µg/L)
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10D - Groundwater Results
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-116	OVR-116	OVR-117	OVR-117	OVR-118	OVR-118	OVR-119	OVR-119	OVR-120
		Sample ID	OVR-116-081616	OVR-116-120616	OVR-117-082416	OVR-117-121316	OVR-118-081816	OVR-118-120716	OVR-119-081916	OVR-119-120816	OVR-120-081816
		Sample Date	8/16/2016	12/6/2016	8/24/2016	12/13/2016	8/18/2016	12/7/2016	8/19/2016	12/8/2016	8/18/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1608604	R1612714	R1608915	R1613018	R1608688	R1612845	R1608824	R1612845	R1608688
Chemical Name	CAS #	NYS GW CLASS GA[1]									
Inorganics											
Aluminum	7429-90-5	NC	575	1,790	354 J	1,020	820	151	5,300	1,920	1,930
Antimony	7440-36-0	3	< 60 U	< 60.0 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
Arsenic	7440-38-2	25	6.9 J	< 10.0 U	10.1	15.7	6.9 J	< 10 U	22.6	23.6	< 10 U
Barium	7440-39-3	1,000	206	216	22.9	31.5	68.4	49.7	154	65.3	48.9
Beryllium	7440-41-7	3	< 3 U	< 3.0 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U
Cadmium	7440-43-9	5	< 5 U	< 5.0 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Calcium	7440-70-2	NC	165,000	163,000	652,000	682,000	114,000	124,000	668,000	745,000	212,000
Chromium	7440-47-3	50	< 10 U	< 10.0 U	< 10 U	< 10 U	< 10 U	< 10 U	13.7	< 10 U	< 10 U
Cobalt	7440-48-4	NC	< 50 U	1.5 J	< 50 U	1.9 J	< 50 U	2.3 J	2.6 J	1.3 J	< 50 U
Copper	7440-50-8	200	< 20 U	1.5 J	< 20 U	4.1 J	< 20 U	1.9 J	6.9 J	2.5 J	< 20 U
Cyanide	57-12-5	200	< 10 U	< 10 U	< 10 U	3 J	< 10 U	< 10 U	< 10 U	2 J	< 10 U
Iron	7439-89-6	300	4,940	6,720	40,000	41,800	3,300	1,710	16,800	20,200	5,680
Lead	7439-92-1	25	< 50 U	< 5.0 U	5.7	4.6 J	11	< 5 U	11.3	4.3 J	2.1 J
Magnesium	7439-95-4	35,000	56,300	59,100	121,000	101,000	41,100	35,500	173,000	145,000	55,000
Manganese	7439-96-5	300	6,720	5,680	1,830	1,780	1,290	955	1,960	1,850	592
Mercury	7439-97-6	0.7	< 0.2 U	< 0.200 U	< 0.2 U	0.045 J	0.115 J	< 0.2 U	0.085 J	< 0.2 U	0.109 J
Nickel	7440-02-0	100	< 40 U	< 40.0 U	< 40 U	< 40 U	< 40 U	< 40 U	2.2 J	< 40 U	< 40 U
Potassium	7440-09-7	NC	2,140	2,790	18,600	19,700	2,750	2,420	7,060	7,170	4,550
Potassium	9/7/7440	NC	NA	NA	NA	NA	2,750	NA	NA	NA	4,550
Selenium	7782-49-2	10	4.5 J	< 10.0 U	5.2 J	< 10 U	< 10 U	< 10 U	11.7	< 10 U	< 10 U
Silver	7440-22-4	50	< 10 U	< 10.0 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Sodium	7440-23-5	20,000	15,700 J	16,300	27,500	30,200	46,600	51,600	21,100	24,400	39,500
Thallium	7440-28-0	0.5	< 10 U	< 10.0 U	< 10 U	18.6	< 10 U	< 10 U	26.1	17.2	< 10 U
Vanadium	7440-62-2	NC	< 50 U	2.9 J	< 50 U	5.2 J	< 50 U	< 50 U	< 50 U	4.6 J	< 50 U
Zinc	7440-66-6	2,000	< 20 U	12.9 J	< 20 U	10.7 J	43	20.9	44.6	< 20 U	21.3

Notes:
All units in micrograms per liter (µg/L)
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U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10D - Groundwater Results
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-120	OVR-121	OVR-121	OVR-122	OVR-122	OVR-123	OVR-123	OVR-124	OVR-124
		Sample ID	OVR-120-120816	OVR-121-081616	OVR-121-120616	OVR-122-081816	OVR-122-120716	OVR-123-081816	OVR-123-120716	OVR-124-081716	DUP-015-120716
		Sample Date	12/8/2016	8/16/2016	12/6/2016	8/18/2016	12/7/2016	8/18/2016	12/7/2016	8/17/2016	12/7/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1612845	R1608688	R1612714	R1608688	R1612845	R1608688	R1612845	R1608688	R1612845
Chemical Name	CAS #	NYS GW CLASS GA[1]									
Inorganics											
Aluminum	7429-90-5	NC	1,280	4,320	1,480	1,040	761	3,130	2,410	1,970 J	508
Antimony	7440-36-0	3	< 60 U	< 60 U	< 60.0 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 UJ	< 60 U
Arsenic	7440-38-2	25	< 10 U	< 10 U	< 10.0 U	< 10 U	< 10 U	22.4	13	< 10 UJ	< 10 U
Barium	7440-39-3	1,000	45.1	332	320	115	96.2	96.3	43.5	156 J	126
Beryllium	7440-41-7	3	< 3 U	< 30 U	< 3.0 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 UJ	< 3 U
Cadmium	7440-43-9	5	< 5 U	< 5 U	< 5.0 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 UJ	< 5 U
Calcium	7440-70-2	NC	187,000	114,000	113,000	117,000	115,000	200,000	187,000	137,000 J	131,000
Chromium	7440-47-3	50	< 10 U	< 10 U	1.6 J	< 10 U	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 U
Cobalt	7440-48-4	NC	< 50 U	< 50 U	< 50.0 U	< 50 U	< 50 U	< 50 U	1.7 J	< 50 UJ	< 50 U
Copper	7440-50-8	200	2.3 J	< 20 U	0.700 J	< 20 U	0.7 J	< 20 U	2.4 J	< 20 UJ	< 20 U
Cyanide	57-12-5	200	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 U
Iron	7439-89-6	300	4,640	6,860	2,480	5,350	4,100	12,500	5,290	7,640 J	4,850
Lead	7439-92-1	25	< 5 U	< 5 U	< 5.0 U	< 5 U	< 5 U	< 5 U	< 5 U	3.4 J	< 5 U
Magnesium	7439-95-4	35,000	46,800	41,800	37,500	55,500	48,400	108,000	90,800	84,400 J	70,600
Manganese	7439-96-5	300	478	641	567	1,480	1,230	1,960	950	3,340 J	2,840
Mercury	7439-97-6	0.7	< 0.2 U	< 0.2 U	< 0.200 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Nickel	7440-02-0	100	< 40 U	< 40 U	< 40.0 U	< 40 U	< 40 U	< 40 U	< 40 U	< 40 UJ	< 40 U
Potassium	7440-09-7	NC	4,080	6,060	5,510	2,800	2,240	3,860	2,770	4,480 J	3,930
Potassium	9/7/7440	NC	NA	6,060	NA	2,800	NA	3,860	NA	4,480	NA
Selenium	7782-49-2	10	< 10 U	5.9 J	< 10.0 U	4.5 J	< 10 U	6.8 J	< 10 U	4.9 J	< 10 U
Silver	7440-22-4	50	< 10 U	< 10 U	< 10.0 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 UJ	< 10 U
Sodium	7440-23-5	20,000	37,600	39,800	41,300	27,900	27,600	36,100	15,000	18,700 J	21,700
Thallium	7440-28-0	0.5	< 10 U	< 10 U	< 10.0 U	< 10 U	< 10 U	< 10 U	2.5 J	< 10 UJ	< 10 U
Vanadium	7440-62-2	NC	3.2 J	< 50 U	2.5 J	< 50 U	1.7 J	< 50 U	7.3 J	< 50 UJ	1.3 J
Zinc	7440-66-6	2,000	< 20 U	22.1	6.8 J	6.3 J	< 20 U	19 J	< 20 U	18.8 J	< 20 U

Notes:
All units in micrograms per liter (µg/L)
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10D - Groundwater Results
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-124	OVR-125	OVR-125	OVR-126	OVR-126	OVR-127	OVR-127	OVR-128	OVR-128	OVR-129
		Sample ID	OVR-124-120716	OVR-125-081716	OVR-125-120616	OVR-126-081716	OVR-126-120616	OVR-127-081716	OVR-127-120616	OVR-128-081716	OVR-128-120716	OVR-129-081716
		Sample Date	12/7/2016	8/17/2016	12/6/2016	8/17/2016	12/6/2016	8/17/2016	12/6/2016	8/17/2016	12/7/2016	8/17/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1612845	R1608688	R1612714	R1608688	R1612714	R1608688	R1612714	R1608688	R1612845	R1608688
Chemical Name	CAS #	NYS GW CLASS GA[1]										
Inorganics												
Aluminum	7429-90-5	NC	512	2,390	1,090	370,000	6,950	1,310	1,880	2,300	3,840	115 J
Antimony	7440-36-0	3	< 60 U	< 60 U	< 60.0 U	< 60 U	< 60.0 U	< 60 U	< 60.0 U	< 60 U	< 60 U	< 60 UJ
Arsenic	7440-38-2	25	< 10 U	5.5 J	< 10.0 U	141	5.4 J	5.1 J	< 10.0 U	< 10 U	6.9 J	< 10 UJ
Barium	7440-39-3	1,000	132	102	91.3	1,890	258	43.1	41.4	201	188	109 J
Beryllium	7440-41-7	3	< 3 U	< 3 U	< 3.0 U	14.2	< 3.0 U	< 3 U	< 3.0 U	< 3 U	< 3 U	< 3 UJ
Cadmium	7440-43-9	5	< 5 U	< 5 U	< 5.0 U	10.5	< 5.0 U	< 5 U	< 5.0 U	< 5 U	< 5 U	< 5 UJ
Calcium	7440-70-2	NC	135,000	126,000	120,000	579,000	111,000	257,000	154,000	106,000	115,000	130,000 J
Chromium	7440-47-3	50	< 10 U	< 10 U	0.400 J	466	8.3 J	< 10 U	0.900 J	< 10 U	< 10 U	< 10 UJ
Cobalt	7440-48-4	NC	1.4 J	< 50 U	< 50.0 U	197	1.9 J	< 50 U	< 50.0 U	< 50 U	2.3 J	< 50 UJ
Copper	7440-50-8	200	1.2 J	< 20 U	1.3 J	484	6.3 J	< 20 U	1.8 J	< 20 U	6.6 J	< 20 UJ
Cyanide	57-12-5	200	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 UJ
Iron	7439-89-6	300	4,950	5,870	4,090	573,000	12,000	6,960	6,010	6,240	8,700	12,900 J
Lead	7439-92-1	25	< 5 U	< 5 U	< 5.0 U	335	3.7 J	< 5 U	3.1 J	6.4	13.9	12.4 J
Magnesium	7439-95-4	35,000	71,200	44,500	42,600	224,000	42,700	105,000	66,000	37,700	39,000	43,100 J
Manganese	7439-96-5	300	2,860	1,700	1,720	9,280	1,060	3,670	3,220	897	897	4,800 J
Mercury	7439-97-6	0.7	< 0.2 U	< 0.2 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.2 U	< 0.200 U	< 0.2 U	< 0.2 U	< 0.2 U
Nickel	7440-02-0	100	< 40 U	< 40 U	< 40.0 U	460	5.3 J	< 40 U	< 40.0 U	< 40 U	< 40 U	< 40 UJ
Potassium	7440-09-7	NC	4,040	2,440	2,110	70,300	5,550	4,470	4,070	3,920	4,010	2,780 J
Potassium	9/7/7440	NC	NA	2,440	NA	70,300	NA	4,470	NA	3,920	NA	2,780
Selenium	7782-49-2	10	< 10 U	4.8 J	< 10.0 U	23.6	< 10.0 U	7.8 J	< 10.0 U	4.2 J	< 10 U	4.7 J
Silver	7440-22-4	50	< 10 U	< 10 U	< 10.0 U	< 10 U	< 10.0 U	< 10 U	< 10.0 U	< 10 U	< 10 U	< 10 UJ
Sodium	7440-23-5	20,000	21,800	31,800	39,600	41,100	31,200	37,100	54,200	105,000	75,800	36,500 J
Thallium	7440-28-0	0.5	5.7 J	< 10 U	< 10.0 U	< 30 U	< 10.0 U	< 10 U	< 10.0 U	< 10 U	< 10 U	< 10 UJ
Vanadium	7440-62-2	NC	2.3 J	< 50 U	1.3 J	710	13.5 J	< 50 U	2.8 J	< 50 U	7.4 J	< 50 UJ
Zinc	7440-66-6	2,000	< 20 U	21.1	12.2 J	1,820	31.8	8.9 J	14.3 J	34.6	66.2	14.8 J

Notes:
All units in micrograms per liter (µg/L)
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 10D - Groundwater Results
Inorganics
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	OVR-129	OVR-130	OVR-130	OVR-130	OVR-131	OVR-131	OVR-131	OVR-132	OVR-132
		Sample ID	OVR-129-120716	OVR-130-082316	DUP-016-121316	OVR-130-121316	DUP-012-082316	OVR-131-082316	OVR-131-121316	OVR-132-082316	OVR-132-121216
		Sample Date	12/7/2016	8/23/2016	12/13/2016	12/13/2016	8/23/2016	8/23/2016	12/13/2016	8/23/2016	12/12/2016
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Lab SDG	R1612845	R1608915	R1613018	R1613018	R1608915	R1608915	R1613018	R1608915	R1613018
Chemical Name	CAS #	NYS GW CLASS GA[1]									
Inorganics											
Aluminum	7429-90-5	NC	491	1,050	244	213	341	383	805	14,900	6,180
Antimony	7440-36-0	3	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U	< 60 U
Arsenic	7440-38-2	25	< 10 U	408	347	333	< 10 U	< 10 U	5.2 J	24.6	18.6
Barium	7440-39-3	1,000	98.6	299	225	222	120	121	173	289	214
Beryllium	7440-41-7	3	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	0.3 J
Cadmium	7440-43-9	5	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Calcium	7440-70-2	NC	130,000	207,000	169,000	174,000	122,000	122,000	154,000	157,000	174,000
Chromium	7440-47-3	50	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	16.6	< 10 U
Cobalt	7440-48-4	NC	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	5.7 J
Copper	7440-50-8	200	4.1 J	< 20 U	1.1 J	1.1 J	< 20 U	< 20 U	3.4 J	< 20 U	7.8 J
Cyanide	57-12-5	200	< 10 U	20	16 J	15 J	< 10 U	< 10 U	< 10 UJ	< 10 U	< 10 U
Iron	7439-89-6	300	13,200	4,020	1,550	1,500	2,970	3,030	7,050	33,300	24,700
Lead	7439-92-1	25	37	21.7	< 5 U	< 5 U	3.9 J	3.9 J	5.1	13.2	2.9 J
Magnesium	7439-95-4	35,000	38,100	67,900	56,500	56,300	37,800	38,000	49,400	40,200	41,500
Manganese	7439-96-5	300	4,150	399	340	336	394	400	610	2,470	3,400
Mercury	7439-97-6	0.7	< 0.2 U	0.246	< 0.2 U	0.065 J	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Nickel	7440-02-0	100	< 40 U	< 40 U	< 40 U	< 40 U	< 40 U	< 40 U	< 40 U	< 40 U	< 40 U
Potassium	7440-09-7	NC	3,080	6,590	6,070	5,980	5,540	5,600	6,350	9,630	7,570
Potassium	9/7/7440	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	7782-49-2	10	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Silver	7440-22-4	50	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Sodium	7440-23-5	20,000	36,800	50,700	39,100	38,500	95,900	96,400	60,500	15,600	15,900
Thallium	7440-28-0	0.5	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U
Vanadium	7440-62-2	NC	1.4 J	< 50 U	1.7 J	1.7 J	< 50 U	< 50 U	3.3 J	< 50 U	13.3 J
Zinc	7440-66-6	2,000	41.7	49.4	11.9 J	10.6 J	9.8 J	10.6 J	27.6	79.5	35.1

Notes:
All units in micrograms per liter (µg/L)
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
B - Indicates the analyte is detected in the associated blank as well as in the sample
T - Indicates that a quality control parameter has exceeded laboratory limits
J - Estimated value
JN - Detection is tentative in identification and estimated in value
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
Exceeds NYS GW Class GA

Table 12A - Soil Vapor Analytical Results
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SV-100	SV-101	SV-102	SV-103	SV-104	SV-105	SV-106	SV-107	SV-107
	Sample ID	SV-100-081817	SV-101-081817	SV-102-081817	SV-103-081817	SV-104-081817	SV-105-081817	SV-106-081817	DUP-014-081817	SV-107-081817
	Sample Date	8/18/2017	8/18/2017	8/18/2017	8/18/2017	8/18/2017	8/18/2017	8/18/2017	8/18/2017	8/18/2017
	Unit	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3
chemical_name	cas_rn									
VOCs										
1,1,1-Trichloroethane	71-55-6	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	2.2	2.1
1,1,2,2-Tetrachloroethane	79-34-5	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
1,1,2-Trichloroethane	79-00-5	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
1,1-Dichloroethane	75-34-3	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
1,1-Dichloroethene	75-35-4	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
1,2,4-Trichlorobenzene	120-82-1	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
1,2,4-Trimethylbenzene	95-63-6	5.7	6.4	15	5.2	0.64 U	5.6	5.4	4.6	2.8
1,2-Dibromoethane	106-93-4	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
1,2-Dichlorobenzene	95-50-1	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
1,2-Dichloroethane	107-06-2	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
1,2-Dichloropropane	78-87-5	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
1,3,5-Trimethylbenzene	108-67-8	1.8	1.7	4.1	1.6	0.64 U	1.6	1.7	1.3	1
1,3-Butadiene	106-99-0	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
1,3-Dichlorobenzene	541-73-1	0.81 U	0.83 U		0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
1,4-Dichlorobenzene	106-46-7	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
1,4-Dioxane	123-91-1	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
2,2,4-Trimethylpentan	540-84-1	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
2-Butanone	78-93-3	8.1 U	8.3 U	7.5 U	7.6 U	6.4 U	7.9 U	7.8 U	8 U	7.7 U
2-Hexanone	591-78-6	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
3-Chloropropene	107-05-1	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
4-Ethyltoluene	622-96-8	1.2	1.4	2.1	1.2	0.64 U	1.2	1.2	1	0.86
4-Methyl-2-Pentanone	108-10-1	0.89	1.1	0.75 U	0.76 U	0.64 U	0.79 U	1.3	0.8 U	0.77 U
Acetone	67-64-1	13	8.3 U	13	7.6 U	21	7.9 U	9.7	11	7.7 U
Benzene	71-43-2	1.7	1	0.85	1.2	0.87	1.1	1.7	0.9	0.95
Bromodichloromethane	75-27-4	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
Bromoethene	593-60-2	0.81 U,X	0.83 U,X	0.75 U,X	0.76 U,X	0.64 U,X	0.79 U,X	0.78 U,X	0.8 U,X	0.77 U,X
Bromoform	75-25-2	1.6	1.2	1	1.4	0.64 U	1.5	1.4	1.1	1.1
Bromomethane	74-83-9	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
Carbon disulfide	75-15-0	8.1 U	8.3 U	45	7.6 U	8.7	7.9 U	7.8 U	8 U	7.7 U

Notes:
µg/m^3 - micrograms per cubic meter
X - Analytes are not included on the NELAP or DoD-ELAP accreditation.
U - Not detected at the detection limit shown
J - Estimated value
V - The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

Table 12A - Soil Vapor Analytical Results
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Location	SV-100	SV-101	SV-102	SV-103	SV-104	SV-105	SV-106	SV-107	SV-107
	Sample ID	SV-100-081817	SV-101-081817	SV-102-081817	SV-103-081817	SV-104-081817	SV-105-081817	SV-106-081817	DUP-014-081817	SV-107-081817
	Sample Date	8/18/2017	8/18/2017	8/18/2017	8/18/2017	8/18/2017	8/18/2017	8/18/2017	8/18/2017	8/18/2017
	Unit	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3
chemical_name	cas_rn									
VOCs										
Carbon Tetrachloride	56-23-5	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
Chlorobenzene	108-90-7	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
Chloroethane	75-00-3	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
Chloroform	67-66-3	0.81 U	0.83 U	0.98	1.2	0.64 U	4.1	0.78 U	5.3	5.4
Chloromethane	74-87-3	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
cis-1,2-Dichloroethene	156-59-2	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
Cis-1,3-Dichloropropene	10061-01-5	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
Cyclohexane	110-82-7	1.6 U	1.7 U	1.5 U	1.5 U	1.3 U	1.6 U	1.6 U	1.6 U	1.5 U
Dibromochloromethane	124-48-1	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
Dichlorodifluoromethane	75-71-8	2.2	2	1.8	1.9	1.9	3.3	2	2	2
Ethylbenzene	100-41-4	4.9	3.9	3.4	4.4	1.1	4.1	4.4	3.3	3.2
Freon-114	76-14-2	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
Heptane	142-82-5	2	0.88	0.75 U	0.97	0.66	1	1.8	0.93	0.88
Hexachlorobutadiene	87-68-3	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
Hexane	110-54-3	2.1	0.9	0.75 U	1.1	0.9	0.99	1.9	1	0.95
Isopropyl Alcohol	67-63-0	8.1 U	8.3 U	7.5 U	7.6 U	6.4 U	7.9 U	7.8 U	8 U	7.7 U
m,p-Xylene	XYLMP	11	9.3	8.4	10	1.5	9.6	11	7.9	7.6
Methylene Chloride	75-09-2	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
Methylmethacrylate	80-62-6	2.9	2.1	1.6	2.5	1.3	2.4	2.4	1.7	1.7
MTBE	1634-04-4	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
Naphthalene	91-20-3	2.3 V	1.7 V	3 V	2.4 V	0.64 U	2.5 V	1.9 V	2.1 V	0.77 U
o-Chlorotoluene	95-49-8	0.81 U,X	0.83 U,X	0.75 U,X	0.76 U,X	0.64 U,X	0.79 U,X	0.78 U,X	0.8 U,X	0.77 U,X
o-Xylene	95-47-6	5.8	4.7	4.1	5.2	0.64 U	4.9	5.5	4	3.8
Styrene	100-42-5	28	22	14	27	0.75	25	25	20	18
t-Butyl alcohol	75-65-0	1.6 U	1.7 U	1.5 U	1.5 U	1.3 U	1.6 U	1.6 U	1.6 U	1.5 U
Tetrachloroethene	127-18-4	1.8	1.3	1.9	1.3	1.5	1.3	1.4	1.2	1.2
Tetrahydrofuran	109-99-9	0.81 U	0.85	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
Toluene	108-88-3	33	26	19	30	12	27	31	21	21
trans-1,2-Dichloroethene	156-60-5	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
Trans-1,3-Dichloropropene	10061-02-6	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
Trichloroethene	79-01-6	0.16 U	0.17 U	0.15 U	0.15 U	0.47	0.16 U	0.18	0.22	0.22
Trichlorofluoromethane	75-69-4	2	1.2	1	1.2	1.1	1.4	1.3	1.3	1.3
Trichlorotrifluoroethane	26523-64-8	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U
Vinyl Chloride	75-01-4	0.81 U	0.83 U	0.75 U	0.76 U	0.64 U	0.79 U	0.78 U	0.8 U	0.77 U

Notes:

µg/m^3 - micrograms per cubic meter

X - Analytes are not included on the NELAP or DoD-ELAP accreditation.

U - Not detected at the detection limit shown

J - Estimated value

V - The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

Table 12B - Groundwater VOC Analytical Results - Soil Vapor Correlation
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	GW-101	GW-102	GW-103	GW-103	GW-104	GW-105	GW-106	GW-107	GW-108
		Sample ID	GW-101-082217	GW-102-082217	DUP-013-082217	GW-103-082217	GW-104-082217	GW-105-082217	GW-106-082217	GW-107-082217	GW-108-082217
		Sample Date	8/22/2017	8/22/2017	8/22/2017	8/22/2017	8/22/2017	8/22/2017	8/22/2017	8/22/2017	8/22/2017
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
CHEMICAL_NAME	CAS_RN	NYS GW CLASS GA[1]									
VOCs											
1,1,1-Trichloroethane	71-55-6	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	79-34-5	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	79-00-5	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	75-34-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	75-35-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	87-61-6	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	120-82-1	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	95-63-6	5	0.24 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 J
1,2-Dibromo-3-chloropropane	96-12-8	0.04	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dibromoethane	106-93-4	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	95-50-1	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	107-06-2	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	78-87-5	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	108-67-8	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	541-73-1	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	106-46-7	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	123-91-1	NC	40 R	40 R	40 R	40 R	40 R	40 R	40 R	40 R	40 R
2-Butanone	78-93-3	50	1.4 J	1.5 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	591-78-6	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Isopropyltoluene	99-87-6	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-Pentanone	108-10-1	NC	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	67-64-1	50	5.7 U	6.6	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	71-43-2	1	**1.2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.72 J
Bromochloromethane	74-97-5	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	75-27-4	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	75-25-2	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	74-83-9	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	75-15-0	60	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Notes:

All units in micrograms per liter (µg/L)

R - Result rejected during validation due to QA/QC excursion.

U - Not detected at the detection limit shown

J - Estimated value

[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 12B - Groundwater VOC Analytical Results - Soil Vapor Correlation
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

		Sample Location	GW-101	GW-102	GW-103	GW-103	GW-104	GW-105	GW-106	GW-107	GW-108
		Sample ID	GW-101-082217	GW-102-082217	DUP-013-082217	GW-103-082217	GW-104-082217	GW-105-082217	GW-106-082217	GW-107-082217	GW-108-082217
		Sample Date	8/22/2017	8/22/2017	8/22/2017	8/22/2017	8/22/2017	8/22/2017	8/22/2017	8/22/2017	8/22/2017
		Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
CHEMICAL_NAME	CAS_RN	NYS GW CLASS GA[1]									
VOCs											
Carbon Tetrachloride	56-23-5	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	108-90-7	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	75-00-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	67-66-3	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	74-87-3	5	0.23 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	156-59-2	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	110-82-7	NC	0.6 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.71 J
Dibromochloromethane	124-48-1	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	75-71-8	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	98-82-8	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	XYLMP	NC	0.85 J	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.77 J
Methyl Acetate	79-20-9	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Methylcyclohexane	108-87-2	NC	0.54 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.87 J
Methylene Chloride	75-09-2	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	104-51-8	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	103-65-1	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	95-47-6	5	0.33 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.25 J
sec-Butylbenzene	135-98-8	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	100-42-5	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tert-Butylbenzene	98-06-6	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	127-18-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	108-88-3	5	1.7	0.25 J	1 U	1 U	1 U	1 U	1 U	1 U	0.95 J
trans-1,2-Dichloroethene	156-60-5	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	79-01-6	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	75-69-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorotrifluoroethane	26523-64-8	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	75-01-4	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Notes:

All units in micrograms per liter (µg/L)

R - Result rejected during validation due to QA/QC excursion.

U - Not detected at the detection limit shown

J - Estimated value

[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.

Exceeds NYS GW Class GA

Table 12C - Subsurface Soil VOC Analytical Results - Soil Vapor Correlation
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

				Sample Location	SB-102	SB-112	SB-172	SB-173	SB-174
				Sample ID	SB-102-4.0-6.0-090717	SB-112-0.5-2.0-090717	SB-172-8.5-9.7-090717	SB-173-12-15-090717	SB-174-12.5-15-090717
				Sample Date	9/7/2017	9/7/2017	9/7/2017	9/7/2017	9/7/2017
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Start Depth	4	0.5	8.5	12	12.5
				End Depth	6	2	9.7	15	15
CHEMICAL_NAME	CAS_RN	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]	NY Part 375 Unrestricted SCO[1]					
VOCs									
1,1,1-Trichloroethane	71-55-6	100	100	0.68	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
1,1,2,2-Tetrachloroethane	79-34-5	35[CP]	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
1,1,2-Trichloroethane	79-00-5	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
1,1-Dichloroethane	75-34-3	19	26	0.27	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
1,1-Dichloroethene	75-35-4	100	100	0.33	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
1,2,3-Trichlorobenzene	87-61-6	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
1,2,4-Trichlorobenzene	120-82-1	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
1,2,4-Trimethylbenzene	95-63-6	47	52	3.6	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
1,2-Dibromo-3-chloropropane	96-12-8	NC	NC	NC	0.0036 UJ	0.0044 UJ	0.0042 UJ	0.0042 UJ	0.0042 UJ
1,2-Dibromoethane	106-93-4	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
1,2-Dichlorobenzene	95-50-1	100	100	1.1	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
1,2-Dichloroethane	107-06-2	2.3	3.1	0.02	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
1,2-Dichloropropane	78-87-5	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
1,3,5-Trimethylbenzene	108-67-8	47	52	8.4	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
1,3-Dichlorobenzene	541-73-1	17	49	2.4	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
1,4-Dichlorobenzene	106-46-7	9.8	13	1.8	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
1,4-Dioxane	123-91-1	9.8	13	0.1	0.073 R	0.088 R	0.084 R	0.084 R	0.084 R
2-Butanone (MEK)	78-93-3	100 100[CP]	100	0.12	0.0036 U	0.0044 U	0.0038 J	0.0042 U	0.0042 U
2-Hexanone	591-78-6	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
4-Isopropyltoluene	99-87-6	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
4-Methyl-2-Pentanone	108-10-1	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Acetone	67-64-1	100	100	0.05	0.0036 U	0.0044 U	0.024	0.0042 U	0.0042 U
Benzene	71-43-2	2.9	4.8	0.06	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Bromochloromethane	74-97-5	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Bromodichloromethane	75-27-4	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Bromoform	75-25-2	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
J - Estimated value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.
Exceeds Unrestricted SCO listed in Part 375.

Table 12C - Subsurface Soil VOC Analytical Results - Soil Vapor Correlation
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

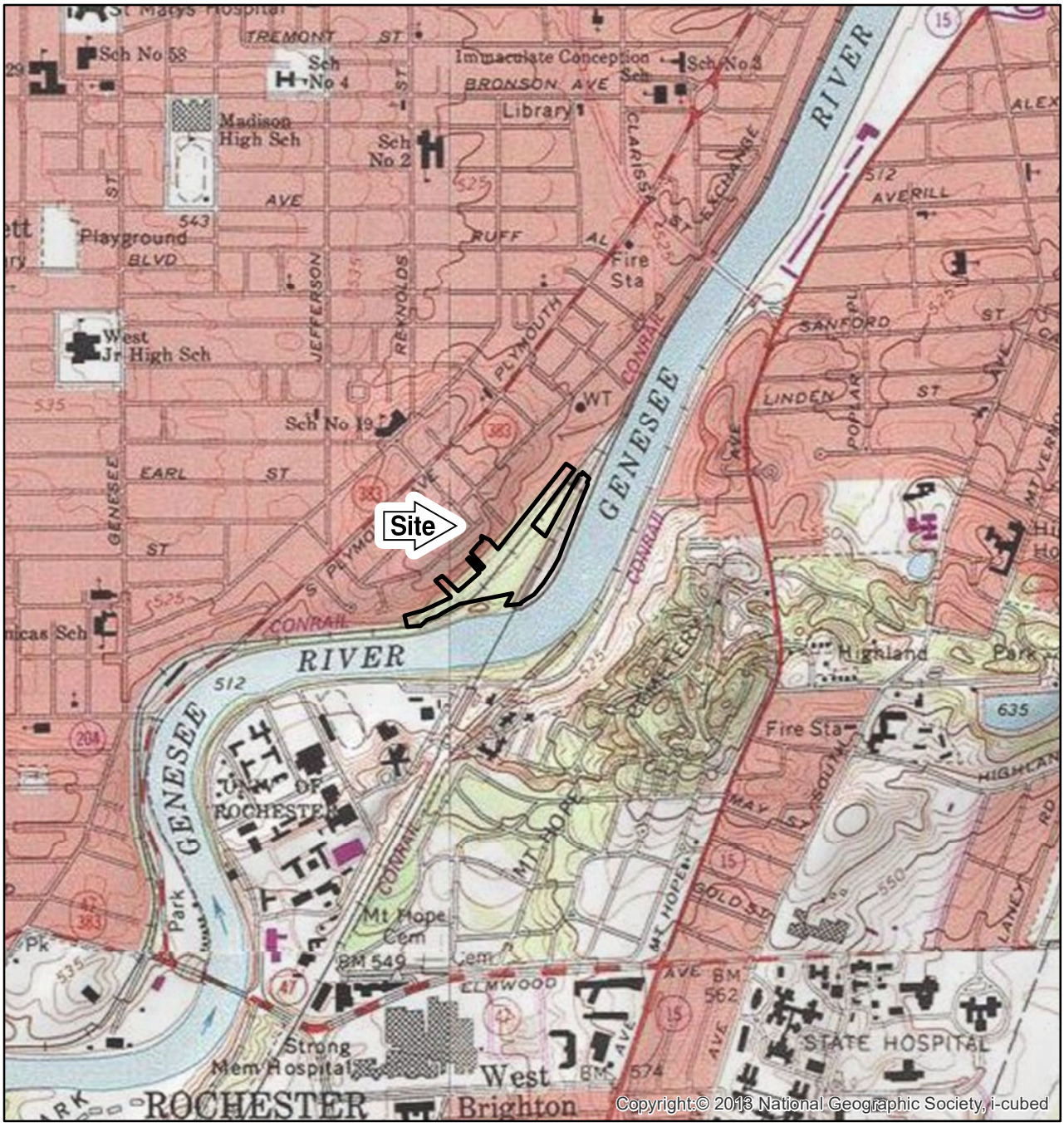
				Sample Location	SB-102	SB-112	SB-172	SB-173	SB-174
				Sample ID	SB-102-4.0-6.0-090717	SB-112-0.5-2.0-090717	SB-172-8.5-9.7-090717	SB-173-12-15-090717	SB-174-12.5-15-090717
				Sample Date	9/7/2017	9/7/2017	9/7/2017	9/7/2017	9/7/2017
				Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				Start Depth	4	0.5	8.5	12	12.5
				End Depth	6	2	9.7	15	15
CHEMICAL_NAME	CAS_RN	NY Part 375 Residential SCO[1]	NY Part 375 Restricted Residential SCO[1]	NY Part 375 Unrestricted SCO[1]					
VOCs									
Bromomethane	74-83-9	NC	NC	NC	0.0036 UJ	0.0044 UJ	0.0042 UJ	0.0042 UJ	0.0042 UJ
Carbon disulfide	75-15-0	100[CP]	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Carbon Tetrachloride	56-23-5	1.4	2.4	0.76	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Chlorobenzene	108-90-7	100	100	1.1	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Chloroethane	75-00-3	NC	NC	NC	0.0036 UJ	0.0044 UJ	0.0042 UJ	0.0042 UJ	0.0042 UJ
Chloroform	67-66-3	10	49	0.37	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Chloromethane	74-87-3	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
cis-1,2-Dichloroethene	156-59-2	59	100	0.25	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Cis-1,3-Dichloropropene	10061-01-5	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Cyclohexane	110-82-7	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Dibromochloromethane	124-48-1	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Dichlorodifluoromethane	75-71-8	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Ethylbenzene	100-41-4	30	41	1	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Isopropylbenzene	98-82-8	100[CP]	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
m,p-Xylene	XYLMP	NC	NC	NC	0.0073 U	0.0088 U	0.0084 U	0.0084 U	0.0084 U
Methyl Acetate	79-20-9	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Methylcyclohexane	108-87-2	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Methylene Chloride	75-09-2	51	100	0.05	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
MTBE	1634-04-4	62	100	0.93	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
n-Butylbenzene	104-51-8	100	100	12	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
n-Propylbenzene	103-65-1	100	100	3.9	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
o-Xylene	95-47-6	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
sec-Butylbenzene	135-98-8	100	100	11	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Styrene	100-42-5	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Tert-Butylbenzene	98-06-6	100	100	5.9	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Tetrachloroethene	127-18-4	5.5	19	1.3	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Toluene	108-88-3	100	100	0.7	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
trans-1,2-Dichloroethene	156-60-5	100	100	0.19	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Trans-1,3-Dichloropropene	10061-02-6	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Trichloroethene	79-01-6	10	21	0.47	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Trichlorofluoromethane	75-69-4	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Trichlorotrifluoroethane	26523-64-8	NC	NC	NC	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Vinyl Chloride	75-01-4	0.21	0.9	0.02	0.0036 U	0.0044 U	0.0042 U	0.0042 U	0.0042 U
Total VOC TICs	NA	NC	NC	NC	NT	NT	NT	NT	NT

Notes:
NC - No criteria exists, NA - Not Available
NT - No TICs identified
Sample Type Code: N-Normal, FD-Field Duplicate
START and END DEPTH - feet below ground surface
mg/kg - milligrams per kilogram
R - Result rejected during validation due to QA/QC excursion.
U - Not detected at the detection limit shown
J - Estimated value
[CP] - Residential criteria obtained from CP-51: Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, December 14, 2006.

Exceeds Residential Use SCO listed in Part 375 or CP-51
Concentration exceeds Part 375 Residential, Restricted Residential SCOs and CP-51 PCB Guidance values.
Exceeds Unrestricted SCO listed in Part 375.

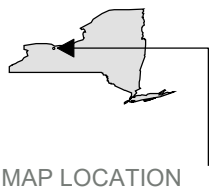
Figures

FIGURE 1



ADAPTED FROM: ROCHESTER EAST USGS QUADRANGLE

BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION
CITY OF ROCHESTER
PORTION OF FORMER VACUUM OIL REFINERY
ROCHESTER, NEW YORK



MAP LOCATION

N

SITE LOCATION

0 1,000 2,000 4,000
Feet

1:24,000

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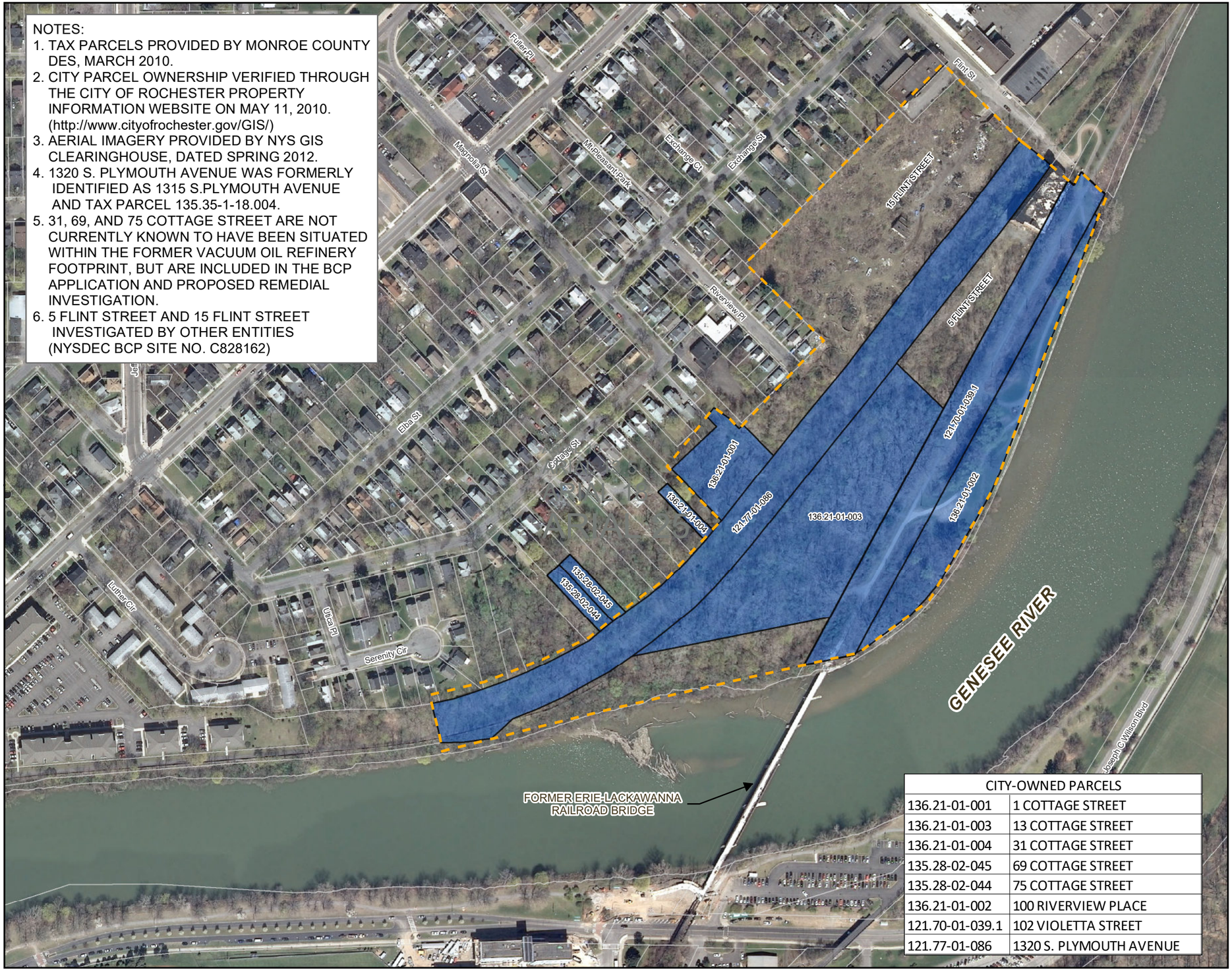
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I:\Rochester-C.11862\61157.Vacuum-Oil-Bcp\Docs\DWG\MXD\RIR_2017\Fig2-SITELayout-rev.mxd

NOTES:
1. TAX PARCELS PROVIDED BY MONROE COUNTY DES, MARCH 2010.
2. CITY PARCEL OWNERSHIP VERIFIED THROUGH THE CITY OF ROCHESTER PROPERTY INFORMATION WEBSITE ON MAY 11, 2010. (http://www.cityofrochester.gov/GIS/)
3. AERIAL IMAGERY PROVIDED BY NYS GIS CLEARINGHOUSE, DATED SPRING 2012.
4. 1320 S. PLYMOUTH AVENUE WAS FORMERLY IDENTIFIED AS 1315 S.PLYMOUTH AVENUE AND TAX PARCEL 135.35-1-18.004.
5. 31, 69, AND 75 COTTAGE STREET ARE NOT CURRENTLY KNOWN TO HAVE BEEN SITUATED WITHIN THE FORMER VACUUM OIL REFINERY FOOTPRINT, BUT ARE INCLUDED IN THE BCP APPLICATION AND PROPOSED REMEDIAL INVESTIGATION.
6. 5 FLINT STREET AND 15 FLINT STREET INVESTIGATED BY OTHER ENTITIES (NYSDEC BCP SITE NO. C828162)



CITY-OWNED PARCELS	
136.21-01-001	1 COTTAGE STREET
136.21-01-003	13 COTTAGE STREET
136.21-01-004	31 COTTAGE STREET
135.28-02-045	69 COTTAGE STREET
135.28-02-044	75 COTTAGE STREET
136.21-01-002	100 RIVERVIEW PLACE
121.70-01-039.1	102 VIOLETTA STREET
121.77-01-086	1320 S. PLYMOUTH AVENUE

N

LEGEND

FORMER VACUUM OIL REFINERY (APPROXIMATE)

BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)

BROWNFIELD CLEANUP PROGRAM REMEDIAL INVESTIGATION REPORT PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIIVERVIEW PLACE;
102 VIOLETTA STREET;
AND PORTION OF
1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

SITE DETAIL

0 125 250 500
Feet

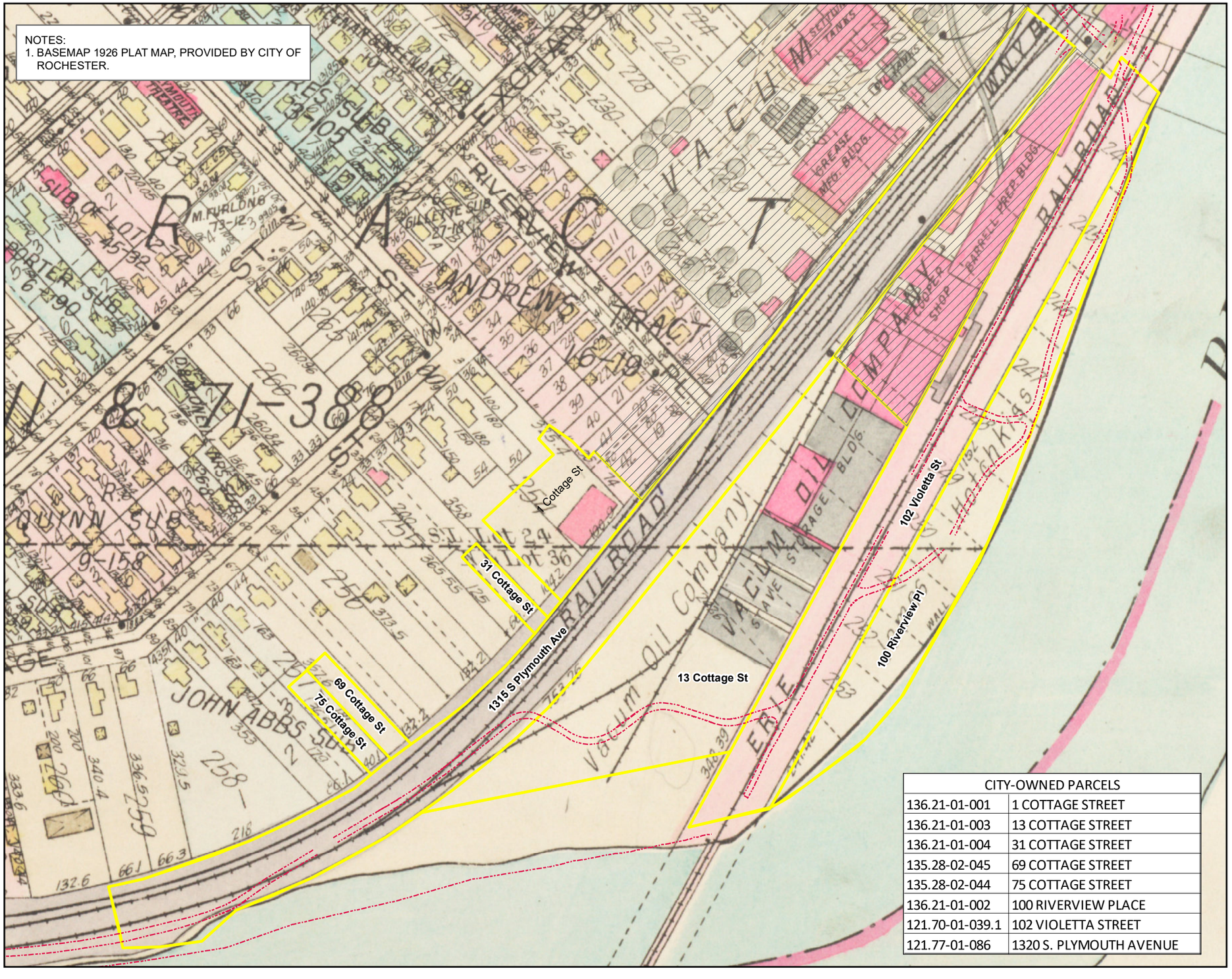
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O'BRIEN & GERE ENGINEERS, INC.

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I:\Rochester-C.11862\61157.Vacuum-Oil-Bcp\Docs\DWG\MXD\RIR_2017\FIG3-HISTORIC.mxd

NOTES:
1. BASEMAP 1926 PLAT MAP, PROVIDED BY CITY OF ROCHESTER.



CITY-OWNED PARCELS	
136.21-01-001	1 COTTAGE STREET
136.21-01-003	13 COTTAGE STREET
136.21-01-004	31 COTTAGE STREET
135.28-02-045	69 COTTAGE STREET
135.28-02-044	75 COTTAGE STREET
136.21-01-002	100 RIVERVIEW PLACE
121.70-01-039.1	102 VIOLETTA STREET
121.77-01-086	1320 S. PLYMOUTH AVENUE

N

LEGEND

- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)
- BIKE PATH
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS WERE INVESTIGATED BY OTHER ENTITIES.

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION
REPORT
PORTION OF FORMER VACUUM OIL
REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE;
102 VIOLETTA STREET; AND PORTION OF
1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

HISTORIC VACUUM OIL
OVERVIEW
(INCLUDING 1926 PLAT MAP)

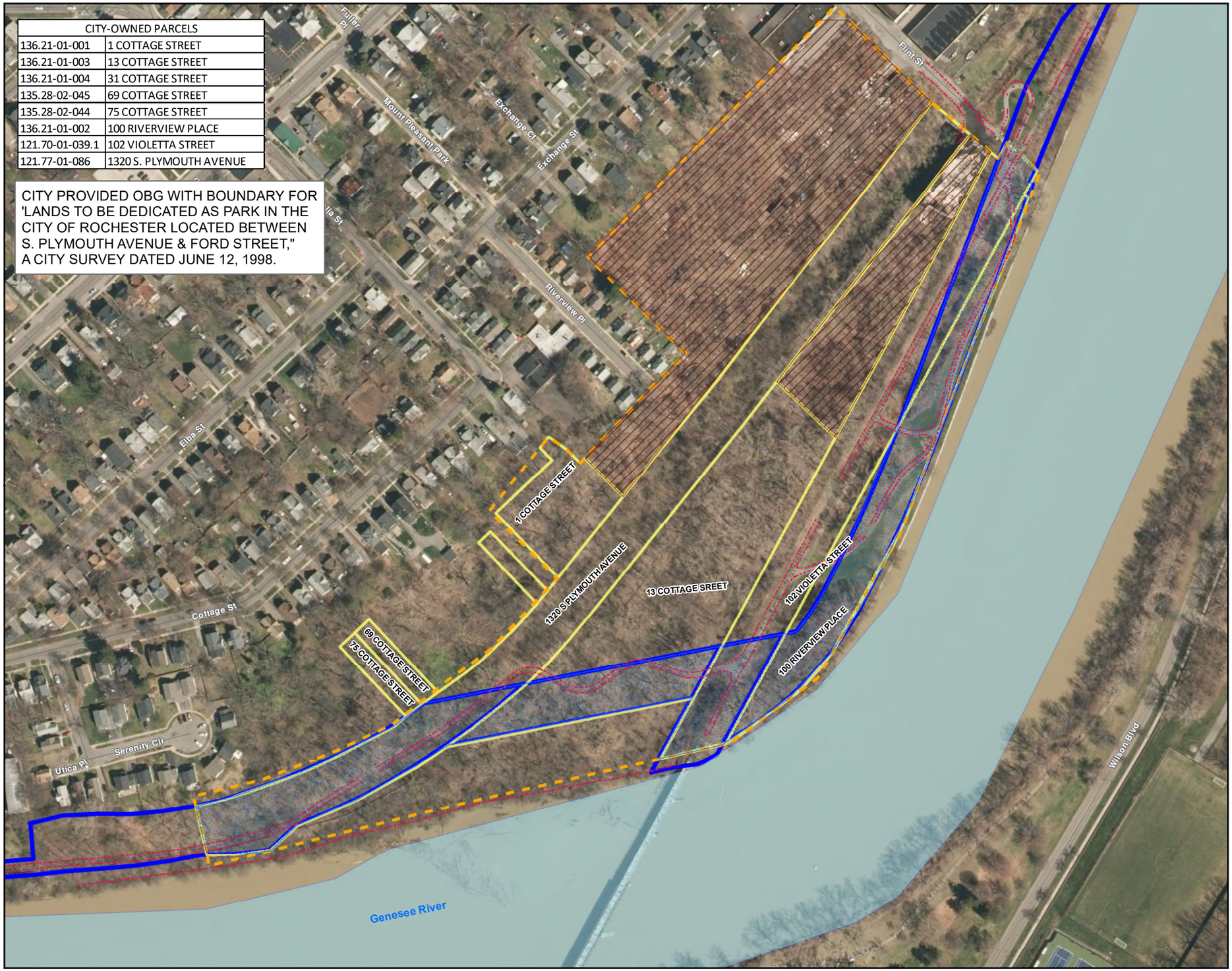
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N

LEGEND

- CHANGE IN USE AREA (7.7613 ACRES)
- CHANGE IN USE AREA (5.27 ACRES WITHIN BCP AREA)
- BIKE PATH
- 5 & 15 FLINT STREET ARE NOT PART OF CITY OF ROCHESTER BCP SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES UNDER NYSDEC BCP SITE No. C828162.
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- CITY BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES). NYSDEC BCP SITE No. C828190

CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM REMEDIAL INVESTIGATION REPORT PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET; 100 RIVERVIEW PLACE; 102 VIOLETTA STREET; AND PORTION OF 1320 S. PLYMOUTH AVENUE ROCHESTER, NEW YORK

PROPOSED PARKLAND

0 100 200 400
Feet

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OCTOBER 2019

O'BRIEN & GERE ENGINEERS, INC.

FIGURE 4

Location ID	Site Observations
1	Westernmost point of the Site along river bank. Miscellaneous trash. Overgrown vegetation.
2	Northwest portion of Site (backyards of Cottage Street properties visible).
3	Railroad timbers.
4	Automobile gas tank, crushed metal garbage can, 55-gallon drum.
5	Foundation walls. Former railroad bed foundation walls.
6	Railroad ties. Start of railroad bed. Foundation wall. Brick piles – approximately 50' L x 5' W.
7	Large foundation wall. Residential fuel oil tank. Tank is empty, no odors present, no signs of staining. Miscellaneous trash on top of property line.
8	Crushed metal drums. Scrap metal pile. Dark grey/black coal ash type debris.
9	Ravine facing river.
11	Culvert/drainage opening in ravine along river.
12	Two manholes, vent.
13	Former refinery building.
14	Crushed metal drums, debris in marsh area. Overgrown vegetation. Dozens of tires, concrete block.
15	Concrete rubble. Flagstone. Large culvert or pipe.
16	Metal piping. Fire hydrant #1.
17	Vehicle gasoline tank. Large crushed metal fuel oil tank.
18	Dozens of tires. Fire hydrant #2. Crushed metal Coca-Cola container. Concrete rubble/debris. Approximate 10'x10' area of cinder blocks (CMU). Rubble pile approximately 5' x 5'.
19	Scattered bricks throughout area. Metal tank approximately 5' diameter and 10' long. No odors or staining present. Few pieces of scrap metal.
20	Foundation wall. Concrete former sewage manhole (filled in). Second foundation wall. Approximately 2 dozen tires. Fire hydrant #3. Concrete rubble pile.
21	Concrete Wall.
22	Fire hydrant #4. Concrete wall.
23	Concrete wall. Secondary concrete wall parallel to first wall.
24	Tree and brush debris.
25	MCWA sanitary manhole.
27	Fire hydrant #5.
28	Metal well piping. Blue basin.
29	Stickup monitoring well. Concrete crescent shaped manhole. Concrete foundation.
30	Coal ash type debris pile.
31	Short fence.



LEGEND

SAMPLE LOCATION TYPE

- BED1-100 BEDROCK WELL
- OVR-106 OVERBURDEN MONITORING WELL
- TP-149 TEST PIT
- SB-100 SOIL BORING
- SS-100 SURFACE SOIL
- SV-100 SOIL VAPOR

SITE FEATURES

- MANHOLE COVER
- BIKE PATH
- DELINEATED WETLANDS (BY OTHERS)
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES.
- TANK CARCASS
- RETAINING WALL
- SLAG MOUND OR REEL-O-MATIC
- SHALLOW FLOOR PIT
- RUBBLE AND OR TIRE PILE
- MOLTEN PLASTIC
- SEWAGE PIPE
- CONCRETE BLOCKS
- MACHINERY
- FIRE HYDRANT
- FENCE POST
- 55 GALLON DRUM
- REMNANTS OF CIRCULAR FOOTINGS
- CULVERT
- WALL FOUNDATION
- PIPING
- DRAINAGE SWALE
- CONCRETE STRUCTURE
- WATER PIPE

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION REPORT
PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE;
102 VIOLETTA STREET; AND PORTION OF
1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

SAMPLE LOCATIONS, SITE OBSERVATIONS, AND GEOLOGIC CROSS-SECTION LOCATIONS

CITY-OWNED PARCELS	
136.21-01-001	1 COTTAGE STREET
136.21-01-003	13 COTTAGE STREET
136.21-01-004	31 COTTAGE STREET
135.28-02-045	69 COTTAGE STREET
135.28-02-044	75 COTTAGE STREET
136.21-01-002	100 RIVERVIEW PLACE
121.70-01-039.1	102 VIOLETTA STREET
121.77-01-086	1320 S. PLYMOUTH AVENUE

NOTES:
1. LOCATIONS OF PARCEL BOUNDARIES ARE APPROXIMATE AND PROVIDED BY THE CITY OF ROCHESTER.
2. SOME SHAPEFILES OBTAINED FROM LABELLA ASSOCIATES, P.C. IN 2008/2009.
3. INFORMATION SOURCES:
   - DATA SUMMARY PACKAGE, FORMER VACUUM OIL REFINERY SITE - 15 FLINT STREET, OCTOBER 2008, LABELLA ASSOCIATES, P.C.
   - SUBSURFACE INVESTIGATION SUMMARY REPORT, FORMER VACUUM OIL COMPANY REFINERY AREA, JANUARY 12, 2009, ROUX ASSOCIATES, INC.
   - PHASE I ENVIRONMENTAL SITE ASSESSMENTS 1, 13, 31, 69, AND 75 COTTAGE STREET; 100 RIVERVIEW PLACE; 102 VIOLETTA STREET; AND 1315 S. PLYMOUTH AVENUE; ROCHESTER, NEW YORK, DECEMBER 2012, OBG.
4. 2015 AERIAL IMAGERY OBTAINED FROM NYS GIS CLEARINGHOUSE.
5. EXISTING MULTI-USE TRAIL SHAPEFILE PROVIDED BY GENESEE TRANSPORTATION COUNCIL, LOCATED IN ROCHESTER, NEW YORK ON MAY 28, 2015.
6. SAMPLE LOCATION COORDINATES RECORDED USING A GPS UNIT.
7. RECOGNIZED ENVIRONMENTAL CONDITIONS ARE DETAILED IN THE DECEMBER 2012 OBG PHASE I ESA REPORT.

0 37.5 75 150
Feet

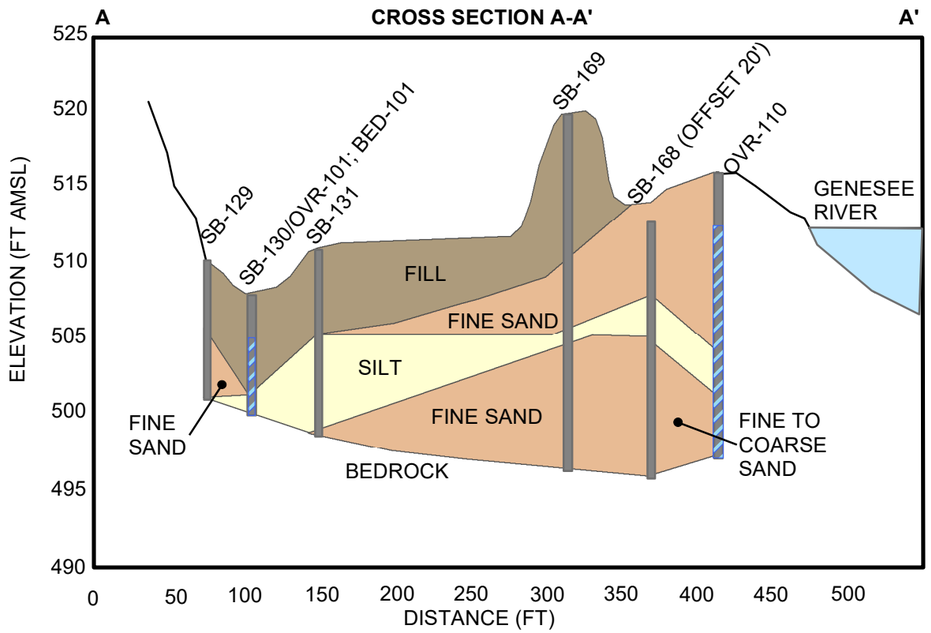
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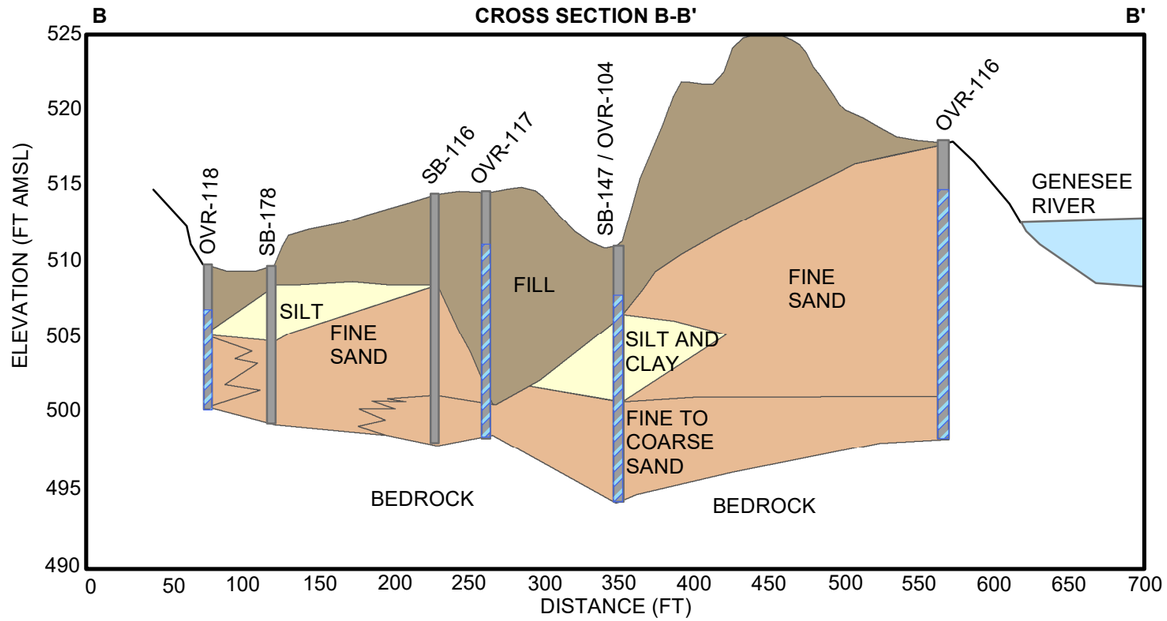
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LEGEND

- FILL
- SAND
- SILT AND/OR CLAY
- BORING OR TEST PIT
- WELL SCREENED INTERVAL

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION REPORT
PORTION OF FORMER VACUUM OIL REFINERY

NOTE: STRATIGRAPHIC LENSES LESS THAN 2 FEET THICK ARE NOT SHOWN.

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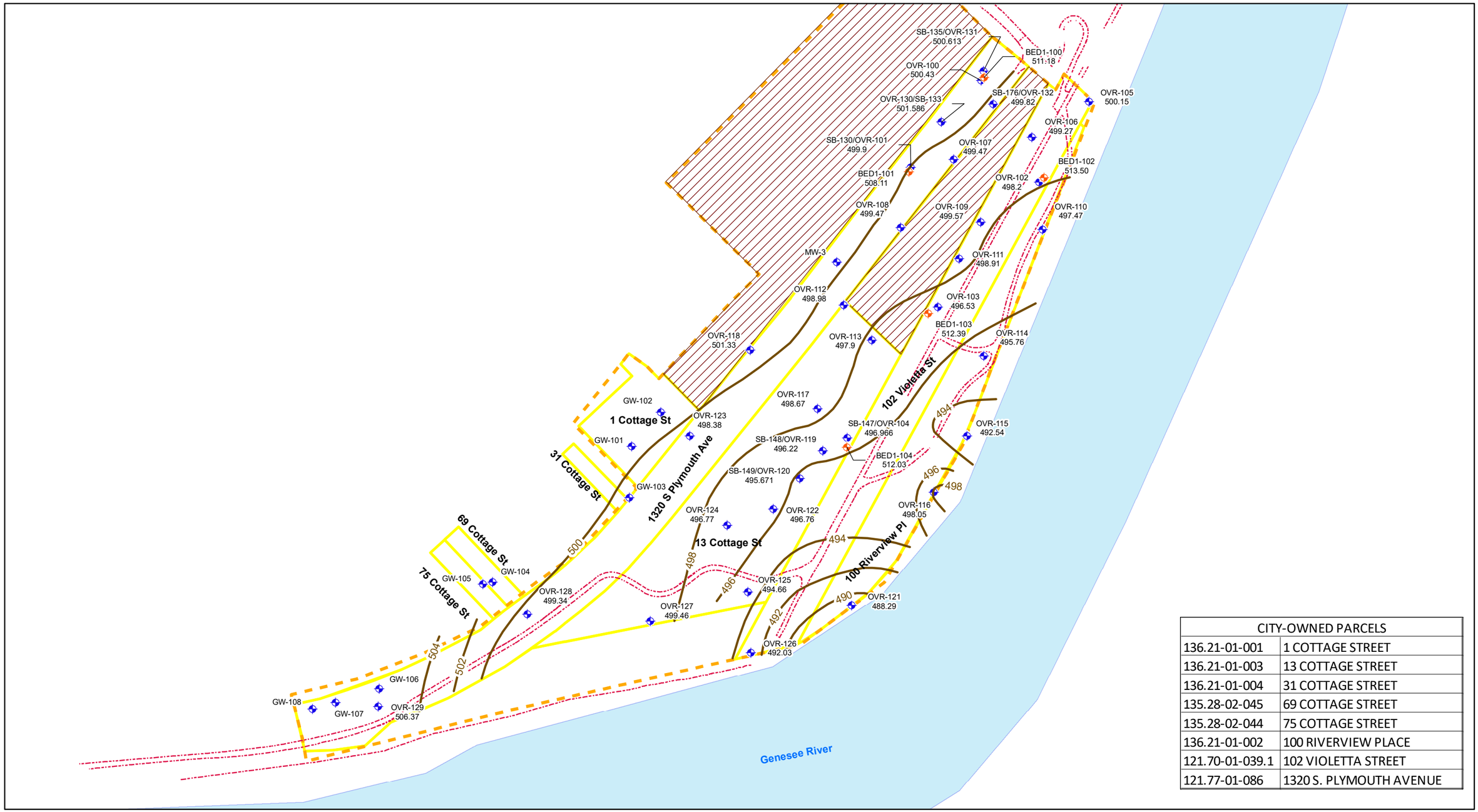
CROSS SECTIONS

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CITY-OWNED PARCELS	
136.21-01-001	1 COTTAGE STREET
136.21-01-003	13 COTTAGE STREET
136.21-01-004	31 COTTAGE STREET
135.28-02-045	69 COTTAGE STREET
135.28-02-044	75 COTTAGE STREET
136.21-01-002	100 RIVERVIEW PLACE
121.70-01-039.1	102 VIOLETTA STREET
121.77-01-086	1320 S. PLYMOUTH AVENUE

LEGEND

- BEDROCK WELL
- OVERBURDEN MONITORING WELL
- BEDROCK CONTOUR
- BIKE PATH
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES.
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)

CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION REPORT
PORTION OF FORMER VACUUM OIL REFINERY
1, 13, 31, 69 AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE; 102 VIOLETTA STREET;
AND PORTION OF 1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

0 100 200 400 600 800
Feet

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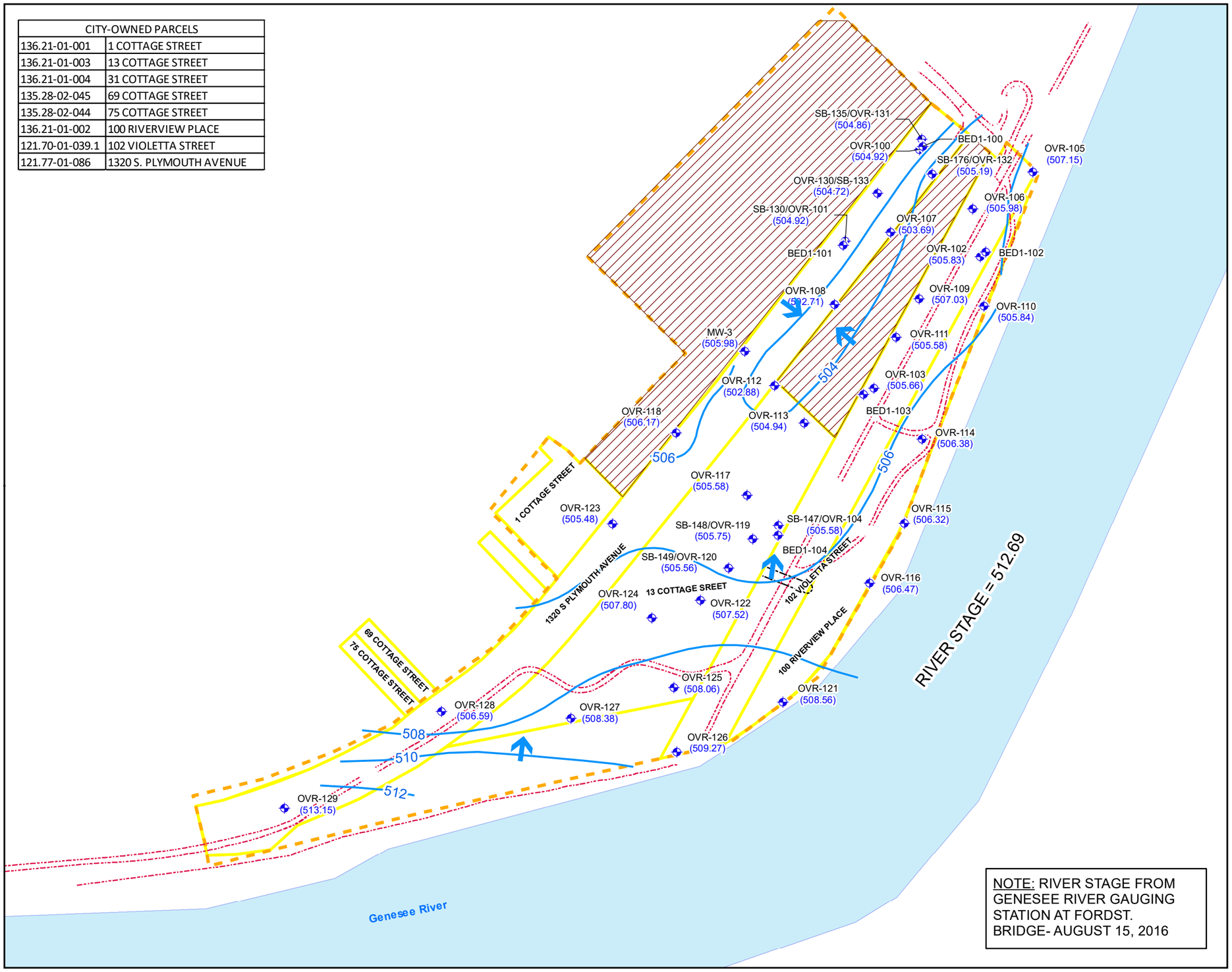
BEDROCK SURFACE ELEVATION

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CITY-OWNED PARCELS	
136.21-01-001	1 COTTAGE STREET
136.21-01-003	13 COTTAGE STREET
136.21-01-004	31 COTTAGE STREET
135.28-02-045	69 COTTAGE STREET
135.28-02-044	75 COTTAGE STREET
136.21-01-002	100 RIVERVIEW PLACE
121.70-01-039.1	102 VIOLETTA STREET
121.77-01-086	1320 S. PLYMOUTH AVENUE



NOTE: RIVER STAGE FROM GENESEE RIVER GAUGING STATION AT FORDST. BRIDGE- AUGUST 15, 2016

N

LEGEND

- MONITORING WELL
- GROUNDWATER CONTOUR
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- DRAINPIPE
- BIKE PATH
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION REPORT
PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE;
102 VIOLETTA STREET; AND PORTION OF
1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

OVERBURDEN GROUNDWATER ELEVATION CONTOURS - AUGUST 2016

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Feet

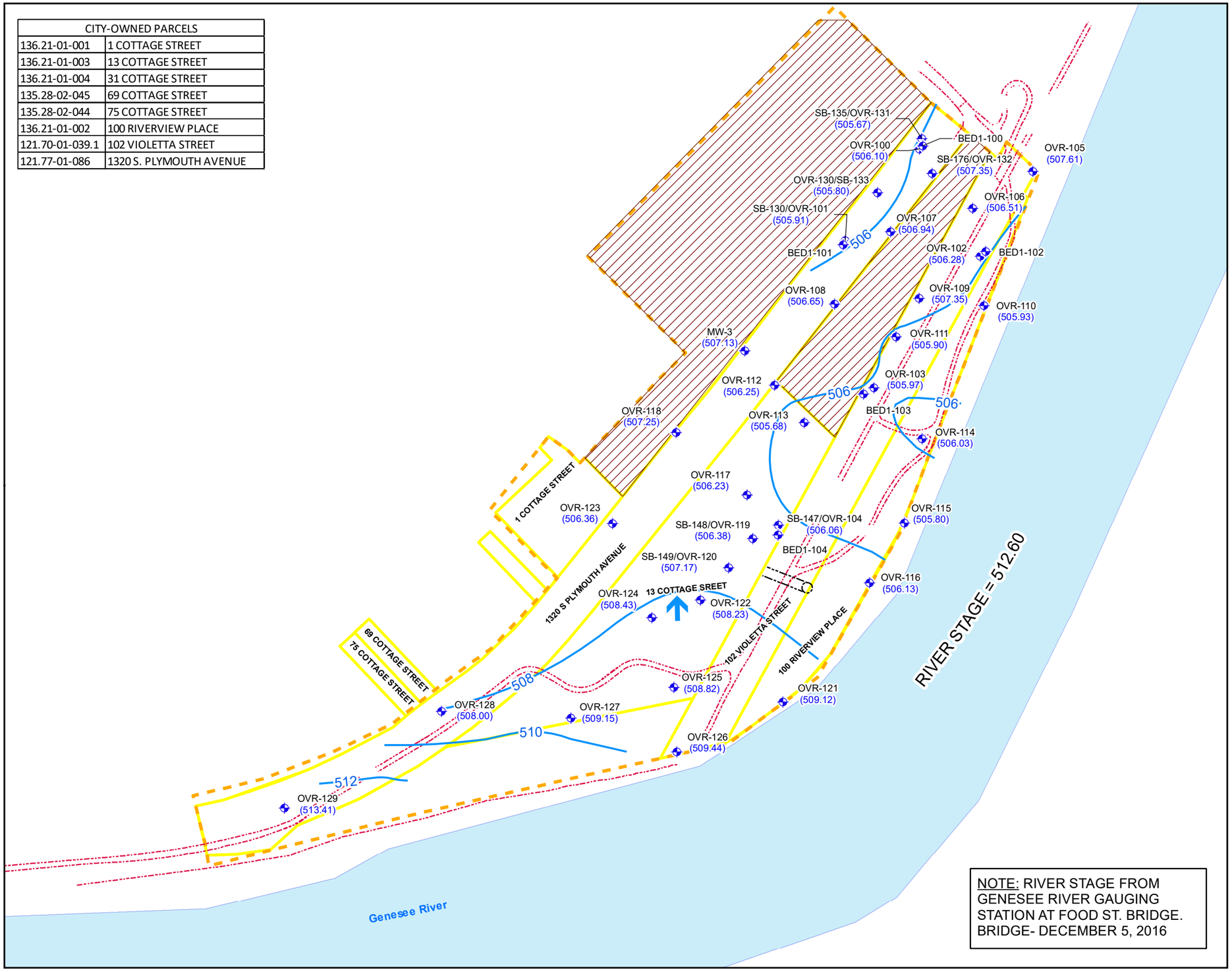
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CITY-OWNED PARCELS	
136.21-01-001	1 COTTAGE STREET
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136.21-01-002	100 RIVERVIEW PLACE
121.70-01-039.1	102 VIOLETTA STREET
121.77-01-086	1320 S. PLYMOUTH AVENUE



NOTE: RIVER STAGE FROM GENESEE RIVER GAUGING STATION AT FOOD ST. BRIDGE. BRIDGE- DECEMBER 5, 2016

N

LEGEND

- MONITORING WELL
- GROUNDWATER CONTOUR
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- DRAINPIPE
- BIKE PATH
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)

CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM REMEDIAL INVESTIGATION REPORT PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET; 100 RIVERVIEW PLACE; 102 VIOLETTA STREET; AND PORTION OF 1320 S. PLYMOUTH AVENUE ROCHESTER, NEW YORK

OVERBURDEN GROUNDWATER ELEVATION CONTOURS - DECEMBER 2016

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Feet

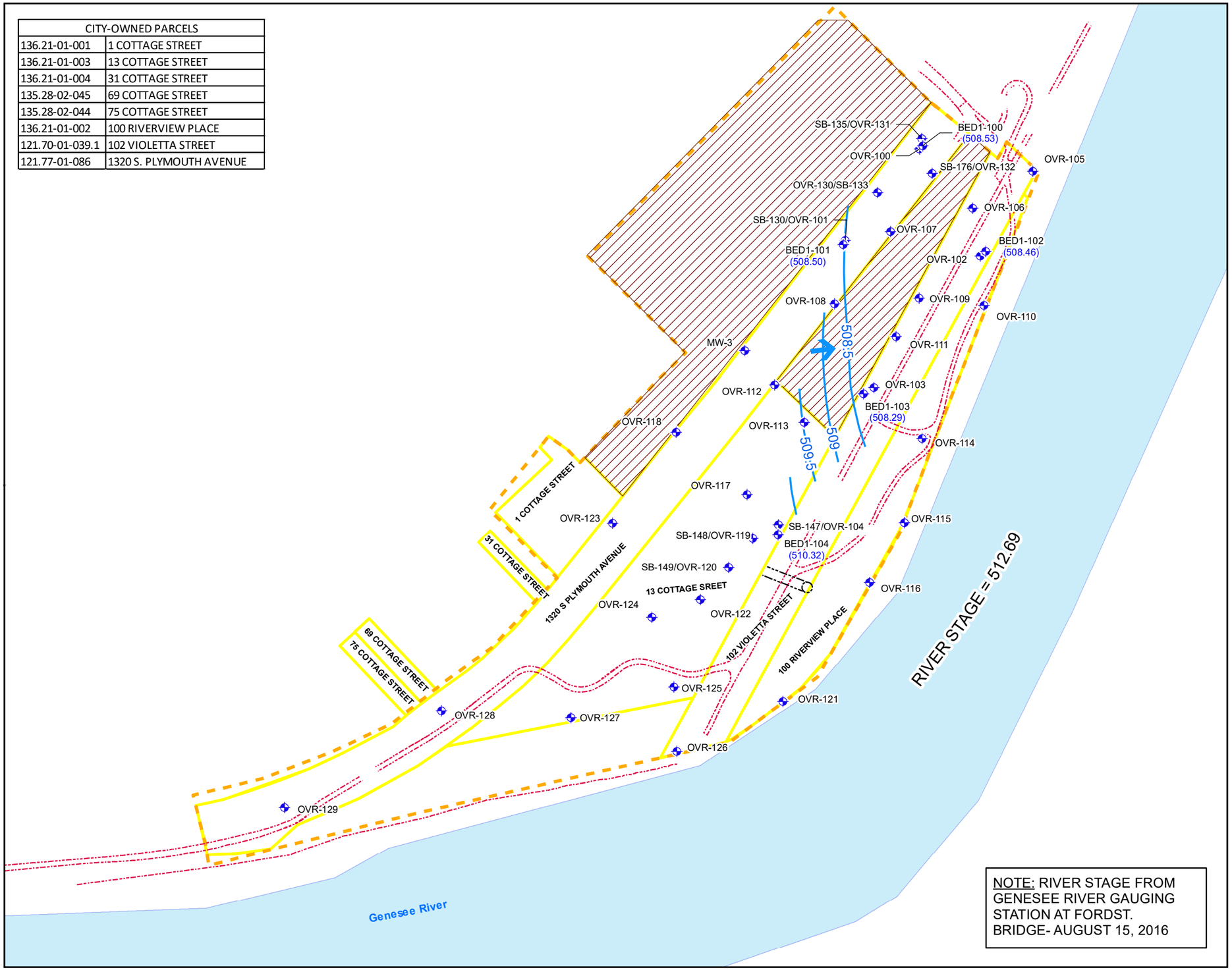
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CITY-OWNED PARCELS	
136.21-01-001	1 COTTAGE STREET
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135.28-02-044	75 COTTAGE STREET
136.21-01-002	100 RIVERVIEW PLACE
121.70-01-039.1	102 VIOLETTA STREET
121.77-01-086	1320 S. PLYMOUTH AVENUE



NOTE: RIVER STAGE FROM GENESEE RIVER GAUGING STATION AT FORDST. BRIDGE- AUGUST 15, 2016

N

LEGEND

- MONITORING WELL
- GROUNDWATER CONTOUR
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- DRAINPIPE
- BIKE PATH
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION REPORT
PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE;
102 VIOLETTA STREET; AND PORTION OF
1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

BEDROCK GROUNDWATER ELEVATION CONTOURS - AUGUST 2016

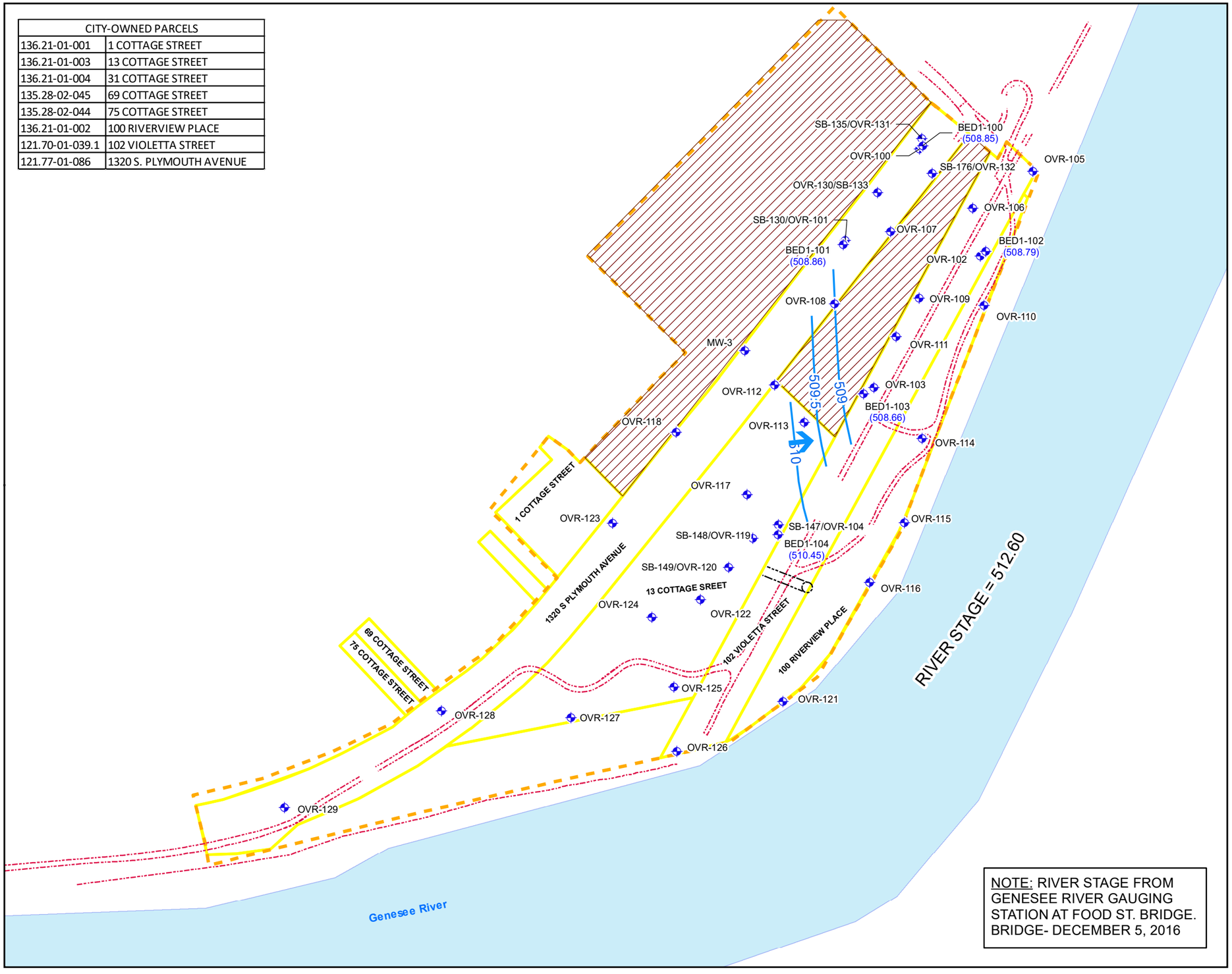
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OCTOBER 2019

O'BRIEN & GERE ENGINEERS, INC.

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CITY-OWNED PARCELS	
136.21-01-001	1 COTTAGE STREET
136.21-01-003	13 COTTAGE STREET
136.21-01-004	31 COTTAGE STREET
135.28-02-045	69 COTTAGE STREET
135.28-02-044	75 COTTAGE STREET
136.21-01-002	100 RIVERVIEW PLACE
121.70-01-039.1	102 VIOLETTA STREET
121.77-01-086	1320 S. PLYMOUTH AVENUE



NOTE: RIVER STAGE FROM GENESEE RIVER GAUGING STATION AT FOOD ST. BRIDGE. BRIDGE- DECEMBER 5, 2016

N

LEGEND

- MONITORING WELL
- GROUNDWATER CONTOUR
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- DRAINPIPE
- BIKE PATH
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)

CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM REMEDIAL INVESTIGATION REPORT PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET; 100 RIVERVIEW PLACE; 102 VIOLETTA STREET; AND PORTION OF 1320 S. PLYMOUTH AVENUE ROCHESTER, NEW YORK

BEDROCK GROUNDWATER ELEVATION CONTOURS - DECEMBER 2016

0 100 200 400
Feet

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OCTOBER 2019

O'BRIEN & GERE ENGINEERS, INC.

FIGURE 11A

NOTES:
1. SOME SHAPEFILES OBTAINED FROM LABELLA ASSOCIATES, P.C. IN 2008/2009.
2. INFORMATION SOURCES:
   - DATA SUMMARY PACKAGE, FORMER VACUUM OIL REFINERY SITE - 15 FLINT STREET, OCTOBER 2006, LABELLA ASSOCIATES, P.C.
   - SUBSURFACE INVESTIGATION SUMMARY REPORT, FORMER VACUUM OIL COMPANY REFINERY AREA, JANUARY 12, 2009, ROUX ASSOCIATES, INC.
   - PHASE I ENVIRONMENTAL SITE ASSESSMENTS 1, 13, 31, 69, AND 75 COTTAGE STREET; 100 RIVERVIEW PLACE; 102 VIOLETTA STREET; AND 1315 S. PLYMOUTH AVENUE; ROCHESTER, NEW YORK, DECEMBER 2012, OBG.
3. 2015 AERIAL IMAGERY OBTAINED FROM NYS GIS CLEARINGHOUSE.
4. EXISTING MULTI-USE TRAIL SHAPEFILE PROVIDED BY GENESEE TRANSPORTATION COUNCIL, LOCATED IN ROCHESTER, NEW YORK ON MAY 28, 2015.
5. SAMPLE LOCATION COORDINATES RECORDED USING A GPS UNIT.

CITY-OWNED PARCELS	
136.21-01-001	1 COTTAGE STREET
136.21-01-003	13 COTTAGE STREET
136.21-01-004	31 COTTAGE STREET
135.28-02-045	69 COTTAGE STREET
135.28-02-044	75 COTTAGE STREET
136.21-01-002	100 RIVERVIEW PLACE
121.70-01-039.1	102 VIOLETTA STREET
121.77-01-086	1320 S. PLYMOUTH AVENUE



N

LEGEND

SAMPLE LOCATION TYPE

- BED1-100 — BEDROCK WELL
- OVR-106 — OVERBURDEN MONITORING WELL
- TP-149 — TEST PIT
- SB-100 — SOIL BORING
- SS-100 — SURFACE SOIL
- SV-100 — SOIL VAPOR
- BIKE PATH
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES.

VOLATILE ORGANIC COMPOUNDS / SEMI-VOLATILE ORGANIC COMPOUNDS / SAMPLE POINT LOCATION / METALS / PESTICIDES/PCBs

- EXCEEDS NY PART 375 - COMMERCIAL
- EXCEEDS NY PART 375 - RESTRICED RESIDENTIAL
- EXCEEDS NY PART 375 - UNRESTRICTED
- DOES NOT EXCEED CRITERIA
- NOT SAMPLED

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION
REPORT
PORTION OF FORMER VACUUM OIL
REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE;
102 VIOLETTA STREET; AND PORTION OF
1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

SURFACE SOIL EXCEEDANCES

0 37.5 75 150
Feet

11862.61157
OCTOBER 2019

O'BRIEN & GERE ENGINEERS, INC.

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FIGURE 11B

NOTES:
1. SOME SHAPEFILES OBTAINED FROM LABELLA ASSOCIATES, P.C. IN 2008/2009.
2. INFORMATION SOURCES:
   - DATA SUMMARY PACKAGE, FORMER VACUUM OIL REFINERY SITE - 15 FLINT STREET, OCTOBER 2006, LABELLA ASSOCIATES, P.C.
   - SUBSURFACE INVESTIGATION SUMMARY REPORT, FORMER VACUUM OIL COMPANY REFINERY AREA, JANUARY 12, 2009, ROUX ASSOCIATES, INC.
   - PHASE I ENVIRONMENTAL SITE ASSESSMENTS 1, 13, 31, 69, AND 75 COTTAGE STREET; 100 RIVERVIEW PLACE; 102 VIOLETTA STREET; AND 1315 S. PLYMOUTH AVENUE; ROCHESTER, NEW YORK, DECEMBER 2012, OBG.
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135.28-02-045	69 COTTAGE STREET
135.28-02-044	75 COTTAGE STREET
136.21-01-002	100 RIVERVIEW PLACE
121.70-01-039.1	102 VIOLETTA STREET
121.77-01-086	1320 S. PLYMOUTH AVENUE



LEGEND

SAMPLE LOCATION TYPE

- BED1-100 — BEDROCK WELL
- OVR-106 — OVERBURDEN MONITORING WELL
- TP-149 — TEST PIT
- SB-100 — SOIL BORING
- SS-100 — SURFACE SOIL
- SV-100 — SOIL VAPOR
- BIKE PATH
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES.

VOLATILE ORGANIC COMPOUNDS / SEMI-VOLATILE ORGANIC COMPOUNDS / METALS / PESTICIDES/PCBs / SAMPLE POINT LOCATION

- EXCEEDS NY PART 375 - COMMERCIAL
- EXCEEDS NY PART 375 - RESTRICED RESIDENTIAL
- EXCEEDS NY PART 375 - UNRESTRICTED
- DOES NOT EXCEED CRITERIA
- NOT SAMPLED

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION REPORT
PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE;
102 VIOLETTA STREET; AND PORTION OF
1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

SURFACE COVER EXCEEDANCES

0 37.5 75 150
Feet

11862.61157
OCTOBER 2019

O'BRIEN & GERE ENGINEERS, INC.

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CITY-OWNED PARCELS	
136.21-01-001	1 COTTAGE STREET
136.21-01-003	13 COTTAGE STREET
136.21-01-004	31 COTTAGE STREET
135.28-02-045	69 COTTAGE STREET
135.28-02-044	75 COTTAGE STREET
136.21-01-002	100 RIVERVIEW PLACE
121.70-01-039.1	102 VIOLETTA STREET
121.77-01-086	1320 S. PLYMOUTH AVENUE

N

LEGEND

SAMPLE LOCATION TYPE

SURFACE SOIL

SVOC CONCENTRATION

- NON DETECT
- <1 PPM
- 1-10 PPM
- 10-100 PPM
- 100-250 PPM
- 250-500 PPM
- >500 PPM
- BIKE PATH
- DRAINPIPE
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES.
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION WORK PLAN
PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE; 102 VIOLETTA STREET;
AND PORTION OF 1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

TOTAL SVOCs
SURFACE SOIL

0 100 200 400
Feet

11862.61157
OCTOBER 2019

O'BRIEN & GERE ENGINEERS, INC.

FIGURE 13

NOTES:
1. SOME SHAPEFILES OBTAINED FROM LABELLA ASSOCIATES, P.C. IN 2008/2009.
2. INFORMATION SOURCES:
   - DATA SUMMARY PACKAGE, FORMER VACUUM OIL REFINERY SITE - 15 FLINT STREET, OCTOBER 2008, LABELLA ASSOCIATES, P.C.
   - SUBSURFACE INVESTIGATION SUMMARY REPORT, FORMER VACUUM OIL COMPANY REFINERY AREA, JANUARY 12, 2009, ROUX ASSOCIATES, INC.
   - PHASE I ENVIRONMENTAL SITE ASSESSMENTS 1, 13, 31, 69, AND 75 COTTAGE STREET; 100 RIVERVIEW PLACE; 102 VIOLETTA STREET; AND 1315 S. PLYMOUTH AVENUE; ROCHESTER, NEW YORK, DECEMBER 2012, OBG.
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135.28-02-045	69 COTTAGE STREET
135.28-02-044	75 COTTAGE STREET
136.21-01-002	100 RIVERVIEW PLACE
121.70-01-039.1	102 VIOLETTA STREET
121.77-01-086	1320 S. PLYMOUTH AVENUE



N

LEGEND

SAMPLE LOCATION TYPE

- BED1-100 — BEDROCK WELL
- OVR-106 — OVERBURDEN MONITORING WELL
- TP-149 — TEST PIT
- SB-100 — SOIL BORING
- SS-100 — SURFACE SOIL
- BIKE PATH
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES.

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION
REPORT
PORTION OF FORMER VACUUM OIL
REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE;
102 VIOLETTA STREET; AND PORTION OF
1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

SUBSURFACE SOIL EXCEEDANCES

0 37.5 75 150
Feet

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OCTOBER 2019

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CITY-OWNED PARCELS	
136.21-01-001	1 COTTAGE STREET
136.21-01-003	13 COTTAGE STREET
136.21-01-004	31 COTTAGE STREET
135.28-02-045	69 COTTAGE STREET
135.28-02-044	75 COTTAGE STREET
136.21-01-002	100 RIVERVIEW PLACE
121.70-01-039.1	102 VIOLETTA STREET
121.77-01-086	1320 S. PLYMOUTH AVENUE

N

LEGEND

SAMPLE LOCATION TYPE

- MONITORING WELL
- SOIL BORING
- TEST PIT

VOC CONCENTRATION

- NON DETECT
- <1 PPM
- 1 - 10 PPM
- 10 - 100 PPM
- 100 - 250 PPM
- 250 - 500 PPM
- >500 PPM
- BIKE PATH
- DRAINPIPE
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES.
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION REPORT
PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE; 102 VIOLETTA STREET;
AND PORTION OF 1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

TOTAL VOCs SUBSURFACE SOIL

0 100 200 400
Feet

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CITY-OWNED PARCELS	
136.21-01-001	1 COTTAGE STREET
136.21-01-003	13 COTTAGE STREET
136.21-01-004	31 COTTAGE STREET
135.28-02-045	69 COTTAGE STREET
135.28-02-044	75 COTTAGE STREET
136.21-01-002	100 RIVERVIEW PLACE
121.70-01-039.1	102 VIOLETTA STREET
121.77-01-086	1320 S. PLYMOUTH AVENUE

N

LEGEND

SAMPLE LOCATION TYPE

- MONITORING WELL
- SOIL BORING
- TEST PIT

SVOC CONCENTRATION

- NON DETECT
- <1 PPM
- 1-10 PPM
- 10-100 PPM
- 100-250 PPM
- 250-500 PPM
- >500 PPM
- BIKE PATH
- DRAINPIPE
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES.
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION WORK PLAN
PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE; 102 VIOLETTA STREET;
AND PORTION OF 1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

TOTAL SVOCs SUBSURFACE SOIL

0 100 200 400
Feet

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CITY-OWNED PARCELS	
136.21-01-001	1 COTTAGE STREET
136.21-01-003	13 COTTAGE STREET
136.21-01-004	31 COTTAGE STREET
135.28-02-045	69 COTTAGE STREET
135.28-02-044	75 COTTAGE STREET
136.21-01-002	100 RIVERVIEW PLACE
121.70-01-039.1	102 VIOLETTA STREET
121.77-01-086	1320 S. PLYMOUTH AVENUE

N

LEGEND

SUBSURFACE ODOR

- ODOR PRESENT 1ft - 7ft
- ODOR PRESENT 7ft - 10ft
- ODOR PRESENT 10ft - 16ft
- ODOR PRESENT >16ft
- SHEEN OR STAINING
- BIKE PATH
- DRAINPIPE
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES.
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION WORK PLAN
PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE; 102 VIOLETTA STREET;
AND PORTION OF 1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

FIELD OBSERVATIONS

0 100 200 400
Feet

11862.61157
OCTOBER 2019

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LEGEND

SAMPLE LOCATION TYPE

- BEDROCK WELL
- OVERBURDEN MONITORING WELL
- TEST PIT
- SOIL BORING
- SURFACE SOIL

MAX PID VALUE (ppm)

- < 10
- 10 < X < 50
- 50 < X < 100
- > 100; >100

- DRAINPIPE
- BIKE PATH
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS WERE INVESTIGATED BY OTHER ENTITIES.
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)

CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION REPORT
PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE; 102 VIOLETTA STREET;
AND PORTION OF 1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

N

0 50 100 200 300 400
Feet

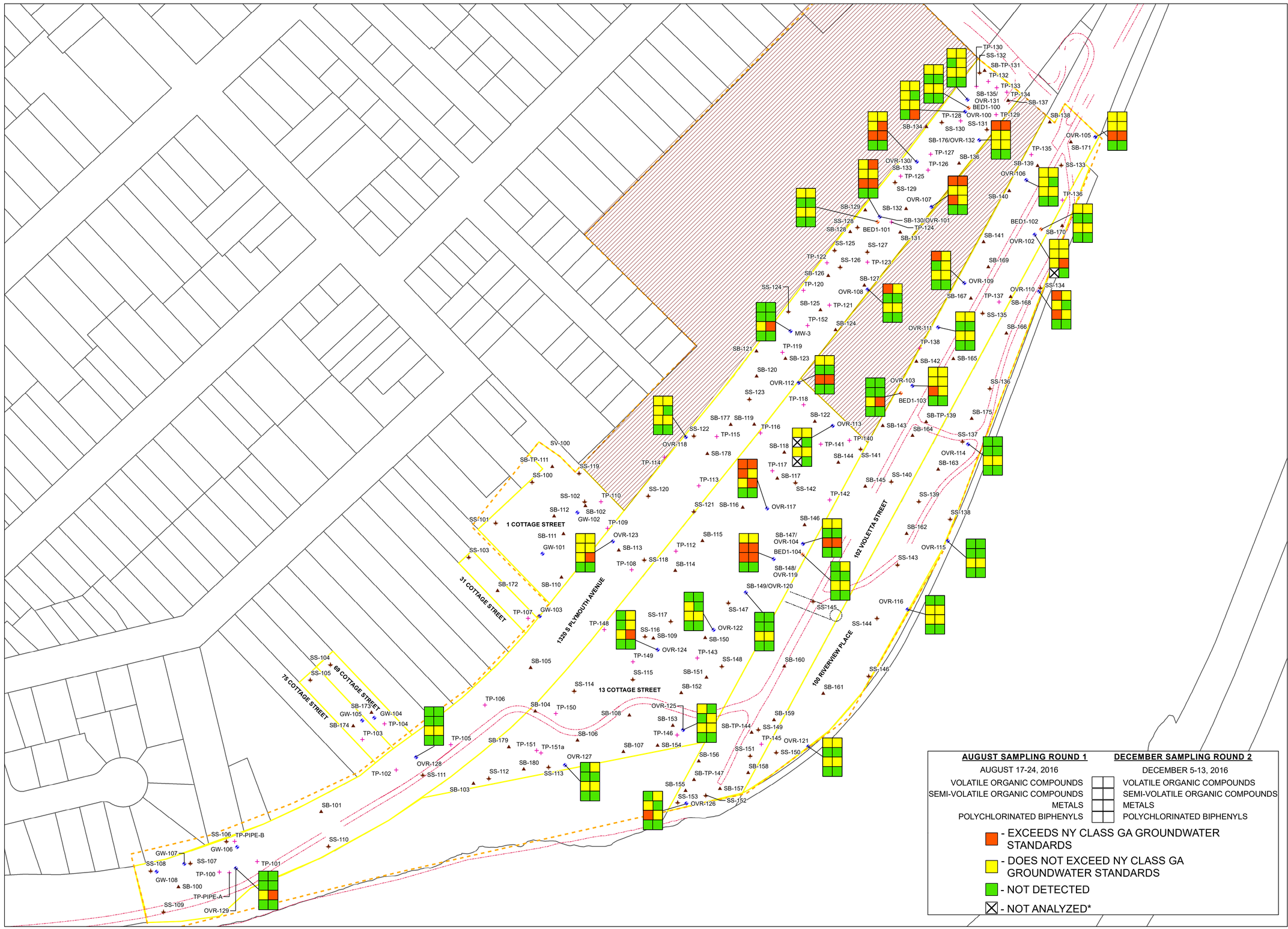
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OCTOBER 2019

O'BRIEN & GERE ENGINEERS, INC.

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LEGEND

SAMPLE LOCATION TYPE

- BEDROCK WELL
- OVERBURDEN MONITORING WELL
- TEST PIT
- SOIL BORING
- SURFACE SOIL
- DRAINPIPE
- BIKE PATH
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES.
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)
- MONROE COUNTY PARCEL BOUNDARY

NOTES:
-GW-101 THROUGH GW-108 ANALYTICAL RESULTS ARE NOT INCLUDED IN THIS FIGURE. PLEASE SEE RI REPORT FOR MORE INFORMATION.
-DATA DOES NOT INCLUDE VOC/SVOC TICKS.
-* DATA WAS NOT ANALYZED DUE TO BROKEN BOTTLEWARE.

AUGUST SAMPLING ROUND 1	**DECEMBER SAMPLING ROUND 2**
AUGUST 17-24, 2016	DECEMBER 5-13, 2016
VOLATILE ORGANIC COMPOUNDS	VOLATILE ORGANIC COMPOUNDS
SEMI-VOLATILE ORGANIC COMPOUNDS	SEMI-VOLATILE ORGANIC COMPOUNDS
METALS	METALS
POLYCHLORINATED BIPHENYLS	POLYCHLORINATED BIPHENYLS

- EXCEEDS NY CLASS GA GROUNDWATER STANDARDS
- DOES NOT EXCEED NY CLASS GA GROUNDWATER STANDARDS
- NOT DETECTED
- NOT ANALYZED*

0 37.5 75 150
Feet

11862.61157
OCTOBER 2019

O'BRIEN & GERE ENGINEERS, INC.

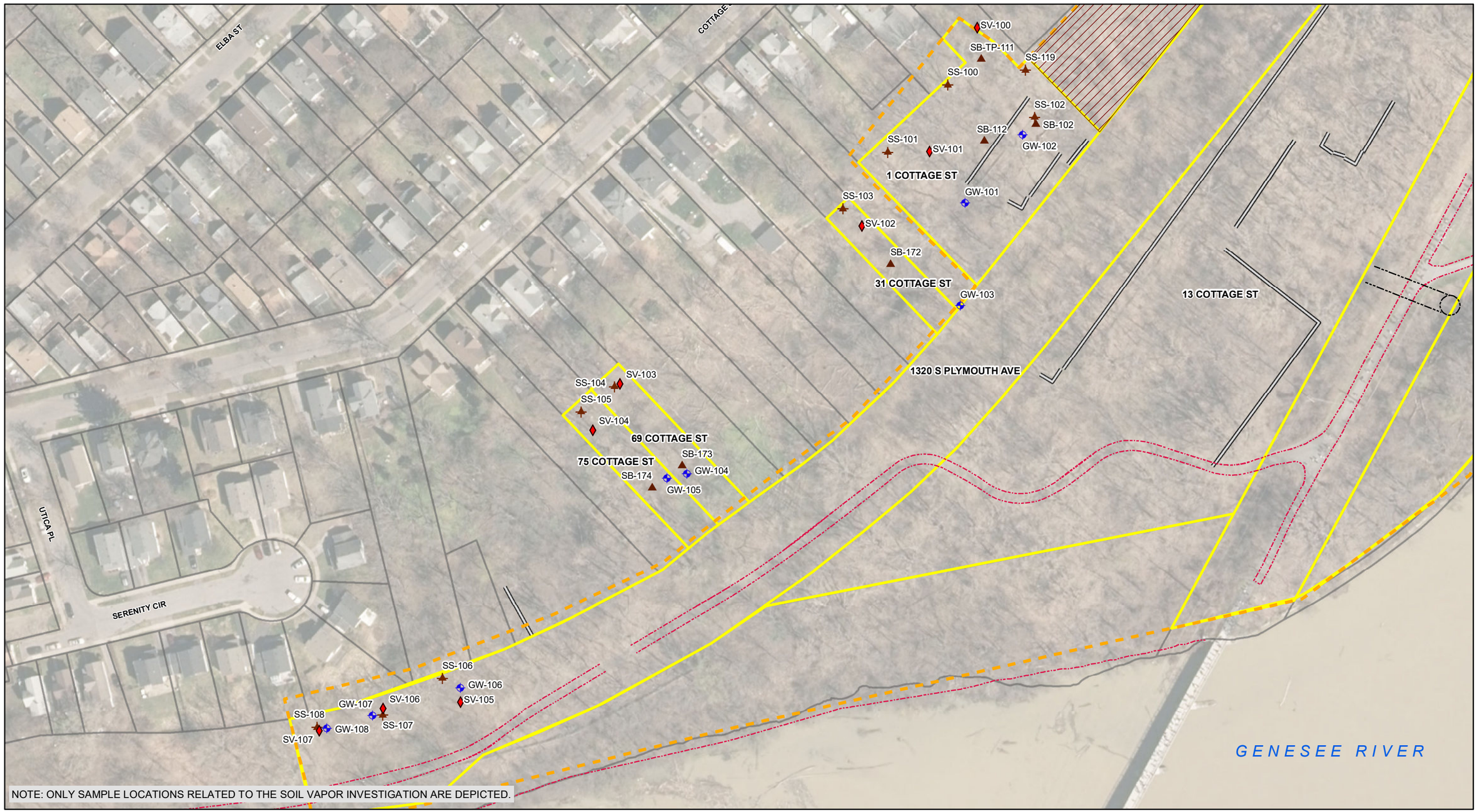
CITY OF ROCHESTER
BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION REPORT
PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET; 100 RIVERVIEW PLACE; 102 VIOLETTA STREET; AND PORTION OF 1320 S. PLYMOUTH AVENUE ROCHESTER, NEW YORK

GROUNDWATER EXCEEDANCES AUGUST 2016 AND DECEMBER 2016

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LEGEND

- OVERBURDEN MONITORING WELL
- SOIL BORING
- SURFACE SOIL
- SOIL VAPOR
- BIKE PATH
- WALL FOUNDATION
- CITY TAX PARCEL
- BROWNFIELD CLEANUP PROGRAM SITE LIMITS (APPROXIMATELY 15.4 ACRES)
- FORMER VACUUM OIL REFINERY SITE (APPROXIMATE)
- NOT PART OF CITY OF ROCHESTER BROWNFIELD CLEANUP PROGRAM SITE; HOWEVER, THESE PARCELS ARE BEING INVESTIGATED BY OTHER ENTITIES.

CITY OF ROCHESTER - BROWNFIELD CLEANUP PROGRAM
REMEDIAL INVESTIGATION REPORT - PORTION OF FORMER VACUUM OIL REFINERY

1, 13, 31, 69, AND 75 COTTAGE STREET;
100 RIVERVIEW PLACE;
102 VIOLETTA STREET; AND PORTION OF
1320 S. PLYMOUTH AVENUE
ROCHESTER, NEW YORK

0 50 100 200
Feet

N

SOIL VAPOR SAMPLE LOCATIONS

O'BRIEN & GERE ENGINEERS, INC.

11862.61157
OCTOBER 2019