**REPORT**

# Remedial Investigation

Environmental Restoration Project
24 Seneca Avenue
Rochester, New York
Site Number E-828132

O'Brien & Gere Project Number 41933

City Agreement Number 2007-317

**City of Rochester**
**Division of Environmental Quality**
**30 Church Street**
**Rochester, New York 14604**

**February 2011**

O'BRIEN & GERE

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## List of Acronyms/Abbreviations

| | |
|---|---|
| 1,2-DCE | 1,2-dichloroethene |
| ACM | Asbestos Containing Material |
| AEL | Anson Environmental Ltd. |
| amsl | above mean sea level |
| ASTs | aboveground storage tanks |
| bgs | below grade surface |
| BTEX | benzene, toluene, ethylbenzene and xylene (gasoline constituents) |
| CAMP | Community Air Monitoring Plan |
| City | City of Rochester |
| COCs | Constituents of Concern |
| DER | Division of Environmental Remediation |
| DER-10 | NYSDEC Draft *DER-10 Technical Guidance For Site Investigation And Remediation*, December 2002 |
| DEQ | Division of Environmental Quality |
| DNAPL | Dense Non-Aqueous Phase Liquids |
| DOT | Department of Transportation |
| DUSR | Data Usability Summary Report |
| EDV | Environmental Data Validation, Inc. |
| ELAP | Environmental Laboratory Analytical Program |
| EM | electromagnetic |
| ERP | Environmental Restoration Program |
| ESA | Environmental Site Assessment |
| FWIA | Fish and Wildlife Impact Analysis |
| GC | gas chromatograph |
| Geomatrix | Geomatrix Consultants, Inc. |
| GPR | ground penetrating radar |
| GPS | global positioning system |
| GZA | GZA GeoEnvironmental of New York |
| H&A | H&A of New York |
| HASP | Health and Safety Plan |
| ICR 56 | Industrial Code Rule 56 |
| ID | inside diameter |
| IDW | investigation derived waste |
| Larsen | Larsen Engineers |
| LNAPL | Light Non-Aqueous Phase Liquids |
| mg/kg | milligrams per kilogram (parts per million) |

## List of Acronyms/Abbreviations (continued)

| | |
|---|---|
| MS | matrix spike |
| MSD | matrix spike duplicate |
| MTBE | methyl tert butyl ether (gasoline constituent) |
| NAPL | Non-Aqueous Phase Liquid |
| NTUs | Nephelometric Turbidity Units |
| NYSASP | New York State Analytical Services Protocol |
| NYSDEC | New York State Department of Environmental Conservation |
| NYSDOH | New York State Department of Health |
| NYSDOL | New York State Department of Labor |
| OSHA | Occupational Safety and Health Administration |
| Parratt Wolff | Parratt Wolff Inc. |
| PCB | polychlorinated biphenyls |
| PCE | tetrachloroethene |
| PID | photo ionization detector |
| ppb | parts per billion |
| ppm | parts per million |
| PPE | personal protective equipment |
| PVC | polyvinyl chloride |
| QA/QC | quality assurance/quality control |
| RI | Remedial Investigation |
| RI/AA | Remedial Investigation/Alternatives Analysis |
| RSCOs | Recommended Soil Cleanup Objectives |
| SAC | State Assistance Contract |
| SCOs | Soil Cleanup Objectives |
| SCGs | Standards, Criteria and Guidance |
| Site | 24 Seneca Avenue, Rochester, New York |
| SGD | SGD Environmental Services |
| SVI | soil vapor intrusion |
| SVOCs | semi-volatile organic compounds |
| TAGM | Technical and Administrative Guidance Memorandum |
| TAL | target analyte list |
| Test America | TestAmerica, Inc. |
| TCE | trichloroethene |
| TCL | Target Compound List |
| TDEM | time domain electromagnetic |
| TICS | tentatively identified compounds |
| TOGS 1.1.1 | NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 document titled *Ambient Water Quality Standard and Guidance Values and Groundwater Effluent Limitations* |
| TREC | TREC Environmental Inc. |
| UFPO | Underground Facilities Protection Organization |
| ug/kg | micrograms per kilogram (parts per billion) |
| USDOL | United States Department of Labor |
| USCS | Unified Soil Classification System |
| USEPA | United States Environmental Protection Agency |
| UST | Underground Storage Tank |
| VCP | Voluntary Cleanup Program |
| VOCs | volatile organic compounds |

# 1. INTRODUCTION

## 1.1 PURPOSE OF REPORT

O'Brien & Gere has developed this Remedial Investigation (RI) Report for the City of Rochester (City) Division of Environmental Quality (DEQ) to summarize the findings of the Remedial Investigation (RI) that was recently completed by O'Brien & Gere at the 24 Seneca Avenue Site (referred to herein as "Site"). The City previously entered into a State Assistance Contract (SAC) with the New York State Department of Environmental Conservation (NYSDEC) to complete the RI/AA under the NYSDEC 1996 Clean Water/Clean Air Bond Act Environmental Restoration Program (ERP), ERP Site No. E-828132. Prior to completing the RI, O'Brien & Gere's subconsultant, SGD Environmental Services (SGD) of Cazenovia, New York completed a Phase I Environmental Site Assessment (ESA) at the Site on behalf of the City. The Phase I ESA was conducted as part of a tax foreclosure action to evaluate the potential liability to the City, should the City take ownership of the property. The results of the Phase I ESA were presented in the Phase I ESA Report, dated March 2007. This report was prepared in accordance with the NYSDEC Division of Environmental Remediation (DER) *Municipal Assistance For Environmental Restoration Projects, Procedures Handbook*, dated July 2004 and the DER *Draft DER-10 Technical Guidance For Site Investigation and Remediation*, dated December 2002 (DER-10). O'Brien & Gere understands that NYSDEC has recently released a *Final* DER-10, effective June, 18, 2010; however, at the time of completion of the RI activities discussed herein and the drafting of this report the Final DER-10 had not been released.

Data generated by sampling and testing at the Site during the RI was used to further assess the horizontal and vertical extent and concentration of contaminants in the soil and groundwater. Once the extent of contamination and hydrogeologic information was analyzed, potential environmental exposure pathways were examined. The identification of significant Site characteristics, extent of contamination, and exposure pathways provided a basis for developing remedial alternatives for the Site. Field activities associated with the RI were conducted in three phases, initiating with an asbestos survey, utility survey and geophysical survey completed in the spring of 2008 (May), followed by the collection of surface soil samples, PCB wipe samples, excavation of test pits, installation of soil borings and groundwater monitoring wells and collection of subsurface soil and groundwater samples in the fall of 2008 (September through October) and concluded with a subsequent round of groundwater sampling and soil vapor (soil gas) sampling completed in the winter of 2009 (January). In addition to summarizing the results of the RI, the AA portions of this report (Section 8 and Section 9) identify the remedial objectives for the Site, development of general response actions, the proposed remedial alternatives and an evaluation of these alternatives, to address the Site contaminants identified during the RI, on the basis of the City's anticipated future use of the Site.

## 1.2 REPORT ORGANIZATION

The report is organized into ten sections. Sections 1 through Section 7 pertain to the remedial investigation portion of the project and include a discussion of the Site description and history (Section 2), a description of the remedial investigation field activities (Section 3), a description of the physical characteristics of the Site (Section 4), a description of the results of the field activities and an interpretation of the data (Section 5), a qualitative exposure assessment based on the Sites current conditions and surrounding land use (Section 6) and a summary and conclusion which includes a conceptual Site model for the Site (Section 7). Section 8 and Section 9 pertain to

the remedial alternatives analysis portion of the project and includes a description of the identification and development of alternatives (Section 8) and an evaluation of the remedial alternatives (Section 9). Section 10 provides a list of references discussed within the report.

# 2. SITE BACKGROUND

## 2.1 SITE DESCRIPTION

The Site is located at 24 Seneca Avenue in the City of Rochester, Monroe County, New York. A Site Location Map is provided as Figure 1. The City completed a boundary and topographic survey of the Site on November 7, 2008. The Boundary and Topographic Survey Map is presented as Figure 2. As presented on this map, the Site consists of an L-Shaped parcel approximately 2.8 acres in size located north of Norton Street and bounded by Seneca Avenue to the west, Bremen Street to the east and a one story masonry building (occupied by Van Hook Service Company, Inc.) to the north. The primary on-Site structure consists of an approximately 121,000 square foot building (the Site building). The majority of the Site building is a brick and masonry one-floor structure with slab on grade construction. A second floor, that encompasses approximately 9,500 square feet, is located on the south end of the Site building. In addition to the Site building, a small-unoccupied shack, formerly used as a guard shack, is located on the southwest corner of the Site. A second parcel, identified as 574 Norton Street, is located on the northeast corner of Seneca Avenue and Norton Street. The area that this parcel encompasses, although not part of the 24 Seneca Avenue property, was included in the RI/AA.

### 2.1.1 Current Site Use

According to the City, the Site and surrounding area is currently zoned for manufacturing (M-1). The Site building is currently occupied by the following businesses:

- Extra Packaging (packaging supplier, no manufacturing)
- Dock Hardware (dock components manufacturer, also specializing in industrial equipment surplus sales)
- AWR Rigging (building equipment installation)
- Coin Services (high speed coin counting)
- Seneca Machine (machine shop), and
- a Church, referenced as the Bread of Life Church in the SGD Phase I ESA report (SGD, 2007).

O'Brien & Gere was not granted access to the interior of the church or Seneca Machine during the RI/AA investigation. These businesses are located in the narrow finger of the Site building on the southeast corner of the Site.

### 2.1.2 Surrounding Land Use

The Site is located in the northeast quadrant of the City of Rochester. Residential, commercial and industrial manufacturing properties surround the Site as described below and illustrated on the Historic Site Feature Map, provided as Figure 3.

Generally north of the Site:

Van Hook Service, specialist in industrial refrigeration and air conditioning, is located immediately to the north of the Site at 76 Seneca Avenue. The exterior walls of the Site's building and the Van Hook building are less than five feet apart. Several commercial properties are located beyond Van Hook, including Phoenix Machine (located at 191 Bremen Street).

Generally south of the Site:

Given the L-shape of the Site, a small part of the southern and western boundary is adjacent to a vacant parcel (574 Norton Street) bounded by Norton Street and Seneca Avenue. This paved lot appears to be used as a parking lot for tenants and patrons of 24 Seneca as it is not fenced. Norton Street is located to the south of the Site. A vacant gasoline station at 1143 Joseph Avenue, currently occupied by a check cashing business, exists to the southwest of the Site. The remainder of the parcels to the south of the Site consist of residential homes and a hair salon.

Generally west of the Site:

Commercial parcels exist primarily to the west of the Site. DuPont, located at 69 Seneca Avenue is located to the northwest of the Site. Excel Service & Towing is slightly farther north at 95 Seneca Avenue. A gasoline and auto service station is located at the corner of Seneca Avenue and Norton Street, at 556 Norton Street. A collision and transmission business is west of 556 Norton Street. Two residential properties are also present to the west at 45 and 53 Seneca Avenue.

Generally east of the Site:

A vacant lot and an automobile repair facility (location of a former gasoline station that operated circa 1925-1965 [SGD, 2007]) are located to the east of the Site at 608 Norton Street. Beyond the vacant lot, residential properties lie to the east of the Site.

## 2.2 SITE HISTORY

The approximate locations of the historic Site features discussed in this Section are depicted on the Historic Site Feature Map, provided as Figure 3.

### 2.2.1 Phase I Environmental Site Assessment

O'Brien & Gere's subconsultant, SGD, performed a Phase I ESA in accordance with the scope and limitations set forth in ASTM E1527-05. As part of the Phase I ESA, completed in February of 2007, SGD reviewed available historical documents (e.g., aerial photos, Sanborn fire insurance maps, newspaper articles and archives/documents retained by local municipalities) and conducted interviews with current and former building occupants.

On the basis of the Phase I ESA, SGD determined that the Site has been used for various commercial and industrial uses since the early 1920s. Prior to 1920 the Site was devoid of structures. Mapping from 1920 illustrates the planned construction of a foundry, machine shop, and mill for Sargent & Greenleaf (a lock manufacturer). Sargent & Greenleaf occupied the subject property until 1975, when operations were moved out-of-state. During Sargent & Greenleaf's occupancy, the following operations were documented:

- Manufacturing of non-ferrous castings (zinc, aluminum, and brass)
- Heat treating operations
- Welding and machining operations
- Coating processes
- Incineration activities
- Use of underground storage tanks (USTs) which reportedly contained gasoline and heating oil, and
- Numerous additions to the original 1920s building structure.

An abandoned undergroundwater storage tank (also referred to as a vault/cistern in prior Site investigations) is located beneath the concrete floor on the north end of the Site building. This tank reportedly served as a water cistern to supply process cooling water to Sargent & Greenleaf. Two bedrock wells, one supply and one return, were reportedly installed in 1957 to supply (and return to the subsurface) process cooling water used at the facility. Wells reportedly were installed to depths of 100 feet below grade.

A transformer room was depicted in an undated map secured by SGD. SGD could not confirm the location of the room and whether polychlorinated biphenyl (PCB) containing fluids were used in the transformers.

SGD also noted the presence of two 150 gallon aboveground storage tanks (ASTs) located in the Dock Hardware machine shop area adjacent to the loading dock on the east side of the building. The Site tenant reported that waste oil stored in these tanks is burned for heat in the machine shops furnace. Additional steel drums that reportedly contained waste oil, and staining associated with storage of these drums, was observed on floors and near floor drains.

SGD noted the presence of numerous floor drains and open grates throughout the interior and exterior of the Site. The terminus of these grates and drains was not identified.

The SGD Phase I ESA identified approximately twenty-five drums that were stored in the Former Ink room located on the south wall of the 1965 addition. These drums were reportedly left behind by a former building tenant (SGD, 2007).

Several historic gasoline stations were documented at properties formerly on or surrounding the Site. These stations included the following:

- 556 Norton Street, located near the southwest corner of the Site on the northwest corner of the Seneca Avenue and Norton Street intersection. This auto repair and gasoline station was reportedly established circa 1936 (SGD, 2007) and still operates today. Several generations of USTs used for gasoline, waste oil and fuel oil were present on this property and identified in historic documents reviewed by SGD. At least one prior closed spill and one open spill (No Further Action status) related to contamination, discovered during removal of USTs in 2003, was documented by SGD.

- 602 Norton Street, located on the current 24 Seneca Avenue parcel in the south parking lot. This gasoline station was identified in a 1936 Hopkins map. The tenure of the

gasoline station, as well as the number and fate of USTs associated with the station, could not be identified during the course of the SGD Phase I ESA.

- 608 Norton Street, located near the southeast corner of the Site on the northeast corner of the Norton Street and Bremen Street intersection. This historic auto repair and gas station was reportedly established circa 1925. Operation as a gasoline service station appears to have ceased in the mid 1960's. The shop has predominantly operated as a collision shop and auto repair shop and is still in operation at the present time. Several generations of USTs were present on this property and identified in historic documents reviewed by SGD; however it was unclear, from the documents reviewed by SGD, if the historic USTs have been removed from the property.

- 1143 Joseph Avenue, located near the southwest corner of the Site at the southwest corner of Seneca Avenue and Norton Street. This gas station was reportedly established circa 1946 and operated to approximately 1999. The parcel was vacant at the time SGD conducted the Phase I ESA; however, at the time of this report (August, 2010) it is occupied by a check cashing business. Several generations of USTs used for gasoline, waste oil and fuel oil were present on this property and identified in historic documents reviewed by SGD. At least two closed spills relating to contamination discovered during removal of USTs were documented by SGD. It was unclear, from the documents reviewed by SGD, if the historic USTs have been removed from the site.

Additional notable commercial and industrial properties identified by SGD that surround the Site include:

- 69 Seneca Avenue, located across the street on the west side of the Site. This parcel is currently occupied by DuPont, which has operated at the Site since the mid 1950's. The parcel was previously operated as a Pepsi-Cola facility with operations documented back to approximately the mid 1940's. Various storage tanks, the storage and use of chemicals and several spills were documented for this parcel in historic documents reviewed by SGD.

- 95 Seneca Avenue, located north of DuPont across the street from the Site to the Site's northwest. Currently occupied by Excel Towing, the parcel was previously occupied by an auto repair facility with documented operations dating back to at least the mid 1950's. Two closed petroleum spills were documented at this parcel in historic documents reviewed by SGD; however, the presence of USTs at this parcel is unknown.

SGD documented the presence of historic USTs at the Site. USTs documented by SGD included:

- Two USTs that reportedly formerly contained heating oil (a 10,000 gallon UST, which failed a leak test in 1988 and an adjacent 6,000 gallon UST) were reportedly abandoned in place by draining their contents and filling the tanks with concrete.

- In addition to the fuel oil USTs, a record of a permit for installation of a 1,000-gallon gasoline UST (1952) was located during the historic records search conducted by SGD.

- On the basis of interviews that SGD conducted with previous historic tenants at the Site, an additional UST, which was reportedly closed and filled with concrete, was located inside the building near the 24 Seneca Avenue loading dock on the west side of the Site.

Following the sale of the property by Sargent & Greenleaf in 1977, the more notable on-Site occupants at the Site include:

- W.P. Stein (metal stamping): 1977 – 1984 (assumed)
- Quality Packaging and Flexseal Packaging (manufacturing, including ink application): 1986 – 1997
- Monroe Window and Door (manufacturing/service): 1991-1995
- Motorcycle repair shop: 1995 – 1997
- Seneca Machine (machining): 1997 to present
- Phoenix Machine Repair (janitorial equipment): 1997 – unknown
- KLS Wood Products (manufacturing): 1998 – 2000
- Dock Hardware (dock component manufacturer and surplus warehousing and distribution of industrial equipment): 1999 – present
- Possibly: TCI Repair (1989-1990), 4 Fathoms (1990-1993), Systems Excellence (1992-1995), Great Northern Association (1997-unknown), Buckman Equipment (1997-unknown), and Seneca Washing Equipment Technologies (unknown).

SGD concluded that three Recognized Environmental Conditions were found at the Site including:

- historic and current on-Site operations that have resulted in known releases to the structure, ground, and groundwater at the Site
- lack of documentation/knowledge regarding the fate of onsite USTs and discharge points for grates and floor drains observed at the site
- documented releases and spills on properties upgradient of the Site (upgradient was reported by SGD as properties located to the south/southeast of the Site).

### 2.2.2 Previous Site Investigations

Since the late 1980's, numerous environmental assessments and investigations have been conducted at the Site. O'Brien & Gere has reviewed the documents associated with these investigations, which include the following:

- *Oil and Hazardous Materials Site Evaluation*, Haley & Aldrich of New York (H&A), Rochester, New York, July 1989
- *Analytical Data Report*, General Testing Corporation, Rochester, New York, February, 2 1993

- *Level 2 Environmental Site Assessment*, Rizzo Associates, Inc (Rizzo Associates), Enfield, Connecticut, April 13, 1993
- *Report on Environmental Investigations*, H&A, Rochester, New York, September 14, 1993
- *Groundwater Monitoring Well Sampling Results*, GZA GeoEnvironmental of New York (GZA), Rochester, New York, September 30, 1996
- *Bedrock Supply Well Sampling Results, GZA*, Rochester, New York, September 30, 1996
- *Phase II Environmental Investigation*, Anson Environmental Ltd. (AEL), Huntington, New York, October 1996
- *Voluntary Cleanup Program Investigation Report for July 1998 Field Work*, AEL, Huntington, New York, December 9, 1998
- *Concept Plan for Brownfield Redevelopment*, Larsen Engineers (Larsen), Rochester, New York, June 2002.

*Oil and Hazardous Materials Site Evaluation, 1989*

H&A conducted a limited Site assessment which included a historical review of available Site records, a visual inspection of the property (including an asbestos survey), installation of two soil borings (B101 and B102), installation of an overburden monitoring well (OW-101) and completion of a soil vapor study consisting of the installation of twenty-nine soil vapor points (QP-1 through QP-29). H&A identified the following items of potential environmental concern:

- Two volatile organic compounds (VOCs), 1,2-dichloroethene (1,2-DCE) and trichloroethene (TCE) were detected in the groundwater sample collected from the Site monitoring well (OW-101) at concentrations above the applicable NYSDEC groundwater criteria available at that time (i.e., NYSDEC *Ambient Water Quality Standards and Guidance Values*, 1 April 1987).
- VOCs, including TCE, 1,2-DCE and tetrachloroethene (PCE) were detected in soil samples collected at the Site (B101 and B102); however the detected concentrations were below the available soil criteria available from the United States Environmental Protection Agency (USEPA) at that time (i.e., *USEPA Health and Environmental Assessment*, Section 8, Interim Final, May 1989).
- VOCs, including vinyl chloride, methylene chloride, cic-1,2-dichloroethene, TCE, toluene, tetrachloroethene, ethyl benzene and xylenes were detected in five (QP-04, QP-15, QP-16, QP-22, QP-23) of the twenty-nine soil vapor points installed at the Site.
- Friable asbestos containing material (ACM) was identified at the Site.
- A 10,000 gallon UST, which failed a leak test in 1988, and an adjacent 6,000 gallon UST were reportedly drained of their contents (heating oil) and filled with concrete. The tanks were reportedly located on the west side of the Site along Seneca Avenue however the locations of the tanks were not illustrated in the report.
- Approximately 25 drums, which contained used hydraulic oil and used inks, were staged on the eastern loading dock at the time of the H&A assessment.

- The historic document review indicated the potential presence of an abandoned 1,000 gallon gasoline UST associated with Sargent & Greenleaf and an unknown quantity of gasoline USTs associated with the gas station formerly located on the southeast end of the Site. The specific locations of these USTs were not illustrated in the report.

*Analytical Data Report, February 1993*

The analytical data report from February 1993 contains a tabular summary of raw analytical data for a groundwater sample collected from the Site monitoring well (OW-101) in January of 1993. The sample was collected by a representative from Quality Packaging Corporation, a building occupant at that time. The sample was analyzed for Target Compound List (TCL) VOCs by USEPA method 8240. Vinyl chloride, TCE and 1,2-DCE were detected in groundwater collected from the well at concentrations of 50 parts per billion (ppb), 150 ppb and 860 ppb, respectively. No other VOCs were detected in the sample.

*Level 2 Environmental Site Assessment, April 1993*

Between January 19, 1993 and March 25,1993, Rizzo Associates (Rizzo) conducted a subsurface investigation at the Site which included a geophysical survey, installation of nine overburden monitoring wells (RIZ-1 through RIZ-9) and collection of soil samples (from the auger flights) during installation of the monitoring wells. The Rizzo report for the Environmental Site Assessment (April, 1993) also included a summary of findings for a Hazardous Materials Preliminary Site Assessment that Rizzo conducted in June of 1992. The findings that Rizzo identified from both studies include:

- Numerous floor drains and drywells with open steel grates at the surface were identified at the Site; however the subgrade connecting structures and discharge points were unknown.
- The results of the geophysical survey, which was conducted on the eastern portion of the Site's southwest parking lot, were inconclusive. Anomalies that might be indicative of USTs were not identified by the ground penetrating radar (GPR) which was used to conduct the survey; however the subsurface features in this area (e.g., silty clay and fill material) reportedly limited the effectiveness of the GPR.
- Petroleum hydrocarbons were detected in soil samples collected during installation of four of the Site monitoring wells (RIZ-3, RIZ-4, RIZ-5 and RIZ-7).
- Concentrations of TCE (10,000 ppb) and 1,2-DCE (2,500 ppb) were detected in groundwater collected at one of the Site's monitoring wells (RIZ-4).
- Specific VOCs, which are common gasoline constituents (e.g., benzene, toluene and xylenes) were detected in groundwater collected from four of the Site monitoring wells (RIZ-1, RIZ-3, RIZ-5 and RIZ-9).
- Total petroleum hydrocarbons (TPH) were detected in groundwater samples collected from five monitoring wells (RIZ-1, RIZ-3, RIZ-5, RIZ-7 and RIZ-9).
- Two metals (nickel and selenium) were detected at low concentrations (0.039 and 0.005 parts per million [ppm], respectively) at one of the Site monitoring wells (RIZ-9).

- Based on groundwater elevations recorded in Site monitoring wells, Rizzo concluded that local overburden groundwater flow beneath the Site is generally to the west.

*Report on Environmental Investigations, 1993*

H&A collected groundwater samples from five existing Site monitoring wells (OW-101, RIZ-2, RIZ-4, RIZ-7 and RIZ-9) in August of 1993. Groundwater samples were analyzed for Target Compound List (TCL) VOCs by USEPA Method 8240 and alcohol based solvents by USEPA Method 8015. TCE and 1,2-DCE were detected in groundwater collected at two of the wells (OW-101 and RIZ-4) at concentrations ranging from 94 to 8900 ppb. Vinyl chloride was detected at OW-101 at a concentration of 110 ppb. No other VOCs were detected in any of the other Site wells sampled during this sampling event.

On the basis of overburden groundwater elevations recorded during the H&A investigation, H&A reported that the northern portion of the Site has a local component of groundwater flow to the west and that the southern portion of the Site has a local component of flow to the north.

*Ground Water Monitoring Well Sampling Results and Bedrock Supply Well Sampling Results, September 1996*

GZA conducted a full round of groundwater sampling at the existing overburden Site monitoring wells (RIZ-1 through RIZ-9 and OW-101) and two on-Site bedrock supply wells (1BSW and 2BSW) in August of 1996. GZA was unable to collect a groundwater sample from RIZ-2 due to an obstruction encountered in the well casing. VOCs, including one or more of the following, TCE, tetrachloroethene, 1,1,1-trichloroethane and vinyl chloride were observed in three of the Site overburden wells (OW-101, RIZ-4, RIZ-8) and both of the bedrock supply wells (1 BSW and 2 BSW). The concentrations of all of these compounds, with the exception of 1,1,1-trichloroethane, exceeded the NYSDEC Class GA Ambient Water Quality Standards and Guidance Values.

*Phase II Environmental Investigation, October 1996*

AEL conducted a Phase II Environmental Investigation at the Site in September 1996, which included interior sediment sampling of building floor drains, sampling of water which had accumulated in the subgrade cistern/vault, sediment sampling in the two exterior dry wells, installation of fifteen soil borings (SB#1 through SB#15) and groundwater sampling at two of the Site's existing overburden wells (OW-101 and RIZ-4) and both bedrock supply wells (BSW#1 and BSW#2), referred to as 1 BSW and 2 BSW, respectively, in the 1996 GZA report. AEL identified the following items of potential environmental concern:

- AEL documented a spill of approximately 55 gallons of TCE in the storage/loading dock area of the Site by a previous building occupant, H.P. Stein. H.P. Stein reportedly occupied the Site between 1977 and 1986.
- AEL utilized a portable gas chromatograph (GC) to screen sediment samples from three of the interior floor drains. The GC detected a peak of approximately 20 ppb of TCE at one of the drains (FD#3). The floor drains were reportedly connected to the Monroe County Sewage System but it was not specified if this referred to the Monroe County storm water or sanitary sewer system. The locations of the floor drains were not illustrated on Figures provided in the report.

- A water sample collected from the subgrade cistern/vault contained 6 ppb of TCE.
- AEL utilized the GC to screen sediment samples collected from two of the Site dry wells (DW#1 and DW#2). The GC identified a peak of 65 ppb of TCE in one of the samples (DW#1). The dry wells are also reportedly connected to the Monroe County Sewage System.
- Analytical results from soil samples collected for laboratory analysis were compared to NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046 Recommended Soil Cleanup Objectives (RSCOs). Samples were analyzed for VOCs by USEPA Method 8260. VOCs, including the chlorinated solvents and gasoline constituents previously detected at the Site, were found in numerous soil borings however the detected concentrations of only two compounds (1,3,5-trimethylbenzene and 1,2,4-trimethylbenzene) exceeded the TAGM #4046 RSCOs in one of the borings (SB#8 0-4').
- The four groundwater samples collected at the Site (OW-101, RIZ-4, BSW#1 and BSW#2) were analyzed for VOCs by USEPA Method 8260. The results of the groundwater sampling were compared to the NYSDEC Class GA Groundwater Standards and Criteria. Numerous VOCs, including the gasoline constituents and chlorinated solvents previously detected at the Site, exceeded the NYSDEC Class GA Groundwater Standards and Criteria in samples collected from all four wells.

*Voluntary Cleanup Program Investigation Report for July 1998 Field Work, 1998*

Based on the soil and groundwater contamination detected in previous Site investigations, the Site tenants at the time formed a corporation, 24 Seneca Avenue, Inc., and enrolled the Site in the NYSDEC Voluntary Cleanup Program (VCP). A Voluntary Cleanup Agreement between NYSDEC and 24 Seneca Avenue Inc. (the volunteer) was signed in July of 1998. AEL was retained by the volunteer to complete a VCP Investigation Work Plan. The elements of the work plan were divided into four tasks as described below:

- Completion of a historic file search for relevant files pertaining to the surrounding properties and the Site itself
- Removal of the contents and abandonment of the subgrade cistern/vault
- Removal and disposal of the sediment material within drywell #1
- Installation of four bedrock monitoring wells and completion of a Site wide round of groundwater sampling in the newly installed wells and the existing Site monitoring wells.

The field work associated with the Work Plan was executed by AEL in July of 1998 and included the following:

- The remaining liquid contained in the vault/cistern was removed and disposed of off-Site. The steel access doors for the vault/cistern were welded shut.
- The bottom sediments of drywell #1 were removed and disposed of off-Site. The brick and mortar walls and concrete floor of the drywell were steam cleaned and the waste water was disposed of off-Site.

- Four new bedrock wells were installed (MW-1 through MW-4) and a Site-wide round of groundwater sampling was conducted. The groundwater samples were analyzed for VOCs by USEPA method 8260. The results of the groundwater sampling were consistent with previous sampling events and concluded that the Site overburden is contaminated with chlorinated solvents on the north end of the Site near the loading dock and storage area, and fuel oil constituents on the northwest corner of the Site near RIZ-7. The results of the bedrock sampling revealed the presence of chlorinated solvents in all four bedrock monitoring wells (MW-1 through MW-4).

After the completion of the VCP investigation fieldwork in July 1998 and completion of the investigation Work Plan in December 1998 no further action was taken at the Site due to lack of funding from the volunteer. The NYSDEC subsequently terminated the VCA in 2001.

# 3. REMEDIAL INVESTIGATION DESCRIPTION

The results of previous investigations performed at the Site indicate that soil, groundwater, and utility structure locations (e.g., dry wells and subgrade cistern/vault) at the Site exhibit elevated concentrations of chlorinated VOCs, semi-volatile organic compounds (SVOCs), metals and/or petroleum compounds. Based on this information, the objective of the RI was to evaluate the nature and extent of contamination (i.e., characterize the Site) so that a cost-effective remedial program could be developed. The following items were the primary components of the RI activities conducted by O'Brien & Gere:

- Site Utility Survey
- Asbestos Survey and collection of asbestos samples
- Geophysical Survey
- Collection of surface soil samples
- PCB Assessment and collection of wipe samples
- Test Trench investigation and collection of subsurface soil samples
- Geoprobe investigation and collection of subsurface soil samples
- Integrity assessment of existing monitoring wells
- Installation of bedrock monitoring wells
- Collection of two Site wide rounds of groundwater samples
- Soil Gas investigation
- Health and Safety and Community Air Monitoring, and
- Management and Handling of Investigation-Derived Waste

The remainder of Section 3 provides a description of the procedures and methods that O'Brien & Gere employed to implement the characterization of the Site.

## 3.1 REMEDIAL INVESTIGATION FIELD ACTIVITIES

### 3.1.1 Utility Survey

O'Brien & Gere initiated a utility survey at the Site on December 18, 2007. Two subsequent Site visits were conducted on May 1 and May 2, 2008 to document Site conditions and complete the survey. The purpose of the utility survey was to locate existing utilities present at the Site and further evaluate the floor drains and grates identified in the previous Site investigations. The survey was limited by the amount of materials stored within the buildings, which covered a large portion of floor space. In addition, the loading dock on the east side of the Site, accessed from Bremen Street, also contained a large volume of materials which obstructed the majority of the ground space in the paved dock area. O'Brien & Gere's approach to complete the utility survey is documented below.

Underground Facilities

O'Brien & Gere contacted the Underground Facilities Protection Organization (UFPO) to mark the location of underground facilities (e.g., gas, electric, fiber optic, water, storm and sanitary sewers) at the Site. The UFPO member companies marked the locations of these facilities within the right of ways surrounding the Site. UFPO member companies are not required to mark the locations of facilities within the boundaries of private property; however the locations of subsurface gas, water and electric were traced and marked to the exterior walls of the Site building. The locations of the Site's facilities, as identified by the UFPO mark-out, were recorded by O'Brien & Gere and are illustrated on the Historic Site Feature Map presented as Figure 3.

Floor Drains and Grates

The previous investigations conducted at the Site (by others) identified the presence of numerous floor drains and drywells with steel grates open to the surface. These structures were observed throughout the interior and exterior of the Site building. Sediments contained in three of the floor drains (FD#1, FD#2 and FD#3) and two of the drywells (DW#1 and DW#2) identified by AEL during the AEL Site investigation conducted in 1996 were screened using a portable gas chromatograph. TCE was detected in the sediments contained in one of the floor drains (FD#3) and one of the dry wells (DW#1). The sediments contained in DW#1 were reportedly removed during remedial activities conducted at the Site by AEL in 1998. The locations of the two drywells that AEL identified (DW#1 and DW#2) are illustrated on the Historic Site Feature Map presented on Figure 3. The locations of the floor drains were not illustrated on the figures provided in the AEL historic reports and subsequently could not be identified by O'Brien & Gere.

During the RI, O'Brien & Gere observed the grates associated with the two known dry wells identified by AEL (DW#1 and DW#2) and recorded their locations using a hand-held Global Positioning System (GPS) unit (i.e., Trimble GeoXH). In addition, the locations of two additional grates that were assumed to be dry well structures (OBG-DW#3 and OBG-DW#4), and five floor drains (OBG-FD#1 through OBG-FD#5) were observed during the RI activities conducted at the Site. The locations of these structures were recorded with the GPS and or a measuring wheel from a local GPS datum (for locations inside the building) and were subsequently recorded in the Site field book and on field sketches. Copies of these documents are retained in the project file and available upon the City's request. The locations of these drains and grates are presented on Figure 3.

O'Brien & Gere gauged the depths of the drywells and floor drains with a weighted steel tape and recorded the dimensions of the grate and structure, the condition of the structure, and noted if any contents were observed in the structures. This information was recorded in the Site field book and/or on field notes that were retained in the project file. This information is summarized below on Table 1. The presence of connecting structures for the floor drains and dry wells and the terminus of these connecting structures (if present) could not be determined without entering the structures and/or conducting further testing (e.g., dye trace testing, remote camera study).

**TABLE 1 – Summary of Site Dry Wells and Floor Drains**

| Drywell | Observations |
|---|---|
| DW#1 | Round grate approx. 28 inch diameter, depth was not gauged because of materials stored over grate. |
| DW#2 | Round grate approx. 28 inch diameter, dry well is approx. 48 inches deep with approx. 8 inches of water in bottom of structure. |
| OBG-DW#3 | Round grate approx. 28 inch diameter, dry well is approx. 48 inches deep. Structure was dry. This structure shown in an architect's Site plan (Myron E. Starks, Webster, New York) dated January 1965 (discussed later in this Section). According to the Starks drawing, the structure was initially an exterior catch basin that was raised to the interior floor level when the building addition was constructed over the basin circa. 1965. |
| OBG-DW#4 | Round grate approx. 22 inch diameter, structure is approx. 13 inches deep and was dry. |
| OBG-DW#5 | Dry well was not observed by O'Brien & Gere during the RI but was illustrated on the 1965 Starks architectural drawings for the 1965 building addition. |
| OBG-FD#1 | Grate approx. 5 inch diameter, 66 inches deep. |
| OBG-FD#2 | Grate approx. 3 inch diameter, drain is obstructed with debris approx. 3 inches below the surface. |
| OBG-FD#3 | Grate is approx. 4 inch diameter, 46 inches deep, no water detected. |
| OBG-FD#4 | Grate is approx. 4 inch diameter, appears to have been grouted or is obstructed with debris at the surface. |
| OBG-FD#5 | Grate is approx. 4 inch diameter, appears to have been grouted or is obstructed with debris at the surface. |

Building Foundation and Construction Type

The SGD Phase I ESA and historic Site documents identify three building additions added to the original Site structure built circa. 1920. These additions included a stand-alone structure constructed circa 1941, north of the initial 1920 structure; a second addition constructed circa 1965, that connected the 1920 and 1941 buildings; and a final addition constructed circa 1967, attached to the north side of the 1941 addition. The locations and approximate construction period for each of the additions are provided on the Historic Site Feature Map presented as Figure 3.

O'Brien & Gere interviewed two of the current Site tenants (Matt Nesbitt and Gary Rodgers) to document the existing HVAC system(s) currently present in the building. The presence of these HVAC systems, as well as the construction and foundation type of each of the building additions were observed and documented by O'Brien & Gere. The information gathered in the interviews with the Site tenants and O'Brien & Gere's observations are summarized in the table below:

**TABLE 2 – Building Construction Summary**

| Construction Date (approx.) | Construction Type | Foundation Type | HVAC System |
|---|---|---|---|
| 1920 | Concrete slab on grade, brick and mortar walls with wood roof | Could not be determined | Forced air furnaces (at least two) and space heaters suspended from the roof in occupied portions of the building. Air conditioning in second floor office area. |
| 1941 | Concrete slab on grade, some brick pavers for floor in some areas, concrete block walls with wood roof | Could not be determined | Space heaters suspended from the ceiling in occupied portions of the building, no air conditioning |
| 1965 | Concrete slab on grade, brick and mortar walls with steel deck roof | Concrete footer with concrete block foundation | Forced air furnace and space heaters suspended from the ceiling in occupied portions of the building, no air conditioning |
| 1967 | Concrete slab with concrete UST (water tank also referred to as cistern/vault) under portion of concrete floor | Concrete footer with poured concrete foundation | Space heaters suspended from the ceiling in occupied portions of the building, no air conditioning |

Review of Historic Engineering Drawings for Site Building

The City provided O'Brien & Gere with three drawing sets pertaining to construction of the 1965 and 1967 building additions. These drawings included the following:

- Architectural drawings for the 1965 building addition drawn by Myron E. Starks, Architect, Webster, New York, dated January 20, 1965 on behalf of Sargent & Greenleaf (6 sheets with 6 subsequent revision sheets)

- Building Permit drawings for the 1967 metal building addition provided by the buildings' manufacturer, Inland Steel Products Company, Milwaukee, Wisconsin, dated November 10, 1966 on behalf of Sargent & Greenleaf
- Architectural drawings for the 1967 metal building addition (4 sheets) drawn by Myron E. Starks, Architect, Webster, New York, dated November 28, 1966 on behalf of Sargent & Greenleaf.

Copies of these drawings were retained in the project file. The drawings provided O'Brien & Gere some additional information about the Site that was not discussed in previous investigations conducted at the Site. The additional information is summarized below:

- Two dry wells are illustrated on Sheet 1, Revision 1 of the Myron E. Starks (Starks) 1965 drawings. These catch basins are illustrated in the footprint of the future 1965 addition with instructions to raise the grates to floor level. The dry wells appear to be connected with an overflow pipe but no other drainage structures exiting the dry wells are illustrated. One of the dry wells was observed by O'Brien & Gere inside the building during the utility survey (OBG-DW#3); the other dry well (OBG-DW#5) was not observed but may be covered by materials stored in the building. The approximate locations of both dry wells are illustrated on Figure 3.
- A 5 inch drainage pipe connecting DW#1 to the existing City storm drain storm drain pipe (that runs down the center of Bremen Street) is illustrated in Sheet 1, Revision 1 of the 1965 Starks drawing. TCE was detected in the sediments contained in the dry well and reportedly was subsequently removed by AEL in 1998.
- An oil storage tank was illustrated on Sheet 1, Revision 1 of the 1965 Starks drawing. The tank is located in the area of the future loading dock on the east side of the building accessed from Bremen Street. The drawing indicates that the tank "is to be removed by owner" but the drawing does not specify the size of the tank or if the tank is an AST or UST. The tank was not mentioned in previous investigations conducted at the Site. The approximate location of the tank is illustrated on Figure 3. This UST was not encountered during installation of soil borings installed in the east loading dock area.
- Two "scale pits" are illustrated on Sheet 4, Revision 1 of the 1965 Stark Drawing. The locations of the scale pits are illustrated on the drawing as "approximate, exact location to be determined". The approximate location of the proposed scale pits are illustrated on Figure 3. The use or intention of the scale pits is unknown. O'Brien & Gere did not observe the scale pits during the RI.
- A 4 inch sanitary sewer line is illustrated exiting the existing 1941 foundry building on Sheet 1 of the 1965 Starks drawings. Sanitary sewers exiting the buildings were not located during the UFPO survey. The approximate location of this sewer line was added to Figure 3 for consideration during future drilling activities (if conducted).
- An existing well is illustrated inside the vault/cistern of the future 1967 building addition. This well is illustrated on Sheet A-2 of the Starks 1966 Drawings. Sheet A-3 of the same drawing set indicates that the cistern is 20,000 gallons and has two chambers. A "fluid bed" is illustrated on the north side of the cistern on the same drawing. Details and Cross Sections of these structures are provided as Sheet A-4 of the same drawing set. The approximate location of the cistern is illustrated on Figure 3. O'Brien & Gere did not enter the vault during the RI but did observe the two steel access hatches that had been

welded shut during previous remedial activities at the Site (AEL, 1998). The use and or presence of the well within the vault and the "fluid bed" are unknown and were not confirmed by O'Brien & Gere.

- Numerous floor drains are illustrated in the future 1967 building on Sheet A-3 of the Starks 1966 Drawings. It appears that the drains are all connected and exit the building to the west but it is not illustrated where the connection terminates. Some of these drains were observed by O'Brien & Gere during the RI but the termination of these structures could not confirmed by visual inspection.

The potential impacts of the structures discussed above on contaminant migration and impact on human receptors (if any) are discussed in Section 6.

### 3.1.2 Asbestos Survey

Purpose and Objectives

Visual observations noted in the previously conducted *Oil and Hazardous Materials Site Evaluation* report completed by H&A in July 1989, reported the presence of suspected ACM at the Site. In addition, the Phase I ESA completed by SGD in March 2007 identified possible ACM which included window caulk, pipe insulation, tile, and mastic. O'Brien & Gere conducted an Asbestos Survey of the Site building on April 30 through May 2, 2008. The survey was conducted by O'Brien & Gere personnel who are certified New York State Asbestos Building Inspectors, experienced in the identification of ACM. The survey was conducted in accordance with the New York State Department of Labor (NYSDOL) Industrial Code Rule 56 (ICR 56) to identify and quantify materials and debris considered to be suspect ACM. The scope of the asbestos survey was such that the information provided will fulfill state and federal requirements for a pre-demolition asbestos survey. However, O'Brien & Gere understands that at this time, demolition of the building likely will not be a selected option by the City.

Asbestos Survey Report

After completing the asbestos survey, O'Brien & Gere prepared an *Asbestos Survey Report* dated April 16, 2009. The report documents the inspection procedures that O'Brien & Gere employed to conduct the survey and collect bulk samples of suspect ACM, a discussion of the laboratory analysis that was requested for these bulk samples, a summary of the laboratory analytical results and inspection findings, and a discussion of the regulatory criteria that may apply to the Site. A copy of the complete report is provided as Appendix A.

### 3.1.3 Geophysical Survey

Purpose and Objectives

Based upon known Site history and information presented in the historic Site investigation reports, multiple generations of USTs may have existed at the Site. As previously discussed, the available information indicates that two USTs that formally contained heating oil (one [1] 10,000 gallon UST, which failed a leak test in 1988, and one [1] adjacent 6,000 gallon UST) were reportedly abandoned in place by draining their contents (heating oil) and filling the tanks with concrete (SGD, 2007). A former oil storage tank (not specified as an AST or UST) was illustrated

on a historic architectural drawing of the 1965 building addition (Starks, 1965). In addition to the two (2) fuel oil USTs, and the unknown oil storage tank, a record of a permit for installation of one (1) 1,000 gallon gasoline UST (1952) was located during the historic records search conducted by SGD (SGD, 2007). The location, tenure and fate of the 1,000 gallon UST was not confirmed in the documents that SGD reviewed.

The historic document review conducted by SGD suggested that a gasoline station was formally present on the south end of the Site. Documentation regarding the length of tenure of the gas station and the presence and/or closure of USTs was not available.

O'Brien & Gere conducted a geophysical assessment of subsurface conditions in the areas outside of the Site building to evaluate the possible presence of remaining orphaned USTs, and drywells that were not previously observed at the Site. A geophysical survey was performed by O'Brien & Gere's subcontractor, Geomatrix Consultants, Inc. (Geomatrix) on May 1 and 2, 2008 utilizing electromagnetic (EM) and GPR techniques.

The data from the geophysical assessment was used to focus subsequent subsurface investigations including test trench placement, Geoprobe boring locations, and groundwater monitoring well installation locations.

Methodology and Procedures

To complete the survey, a reference grid was installed to facilitate data acquisition along gridlines spaced three feet apart. The grid was marked with orange and white spray paint. After the grid was installed, the site was geophysically surveyed using the Geonics EM61. The EM61 unit is a high-sensitivity, high resolution time domain electromagnetic (TDEM) metal detector that can detect both ferrous and nonferrous metallic objects. It has an approximate investigation depth of 10 feet. Data collected from the EM61 were recorded digitally by a data logger at a rate of approximately 2 measurements per foot along the survey gridlines.

After the data from the EM survey was evaluated, GPR data was collected over EM anomalies to further characterize these objects. The ground penetrating radar survey was conducted by inducing high frequency radio waves into the subsurface and recording the energy that is reflected back from depth. The magnitude and character of the GPR reflections are dependent on the geometry of the reflecting interface.

Reporting and Results

A copy of the Geomatrix Geophysical Study Report which includes a colored contour map of the EM survey results is included as Exhibit A. Results of the EM/ GPR survey are discussed in Section 5.

### 3.1.4 Collection of Surface Soil Samples

Purpose and Objectives

Surface soil samples were collected at the Site to evaluate if the contaminants found at the Site during previous Site investigations are present in surface soils. If present, concentrations of

contaminants are typically evaluated to evaluate whether they present a potential exposure risk to Site workers and the public through contact with the surface soils at a given Site.

Methodology and Procedures

On September 15, 2008, O'Brien & Gere collected three surface soil samples (SS-01-091508, SS-02-091508 and SS-03-091508) from areas of the Site with exposed soil cover. These areas included two areas west of the Site building (in the grass strip located between the Site building and Seneca Avenue) and a third grass area south of the unpaved parking area on the south end of the Site. The locations of the samples are illustrated on the Sample Location Map presented as Figure 4.

New nitrile gloves were donned by field personnel prior to the collection of each surface soil sample. The samples were collected using a steel trowel that was decontaminated with a laboratory grade soapy water solution (i.e., Alconox) and rinsed with potable water prior to the collection of each sample. Decontamination wash water was containerized in 55-gallon steel Department of Transportation (DOT) drums for future characterization and disposal by the City. The samples were collected from a depth of 0-2 inches below grade surface (bgs), excluding vegetative cover, in accordance with the definition provided in Section 3.5.1 of the NYSDEC draft DER-10, dated December 2002.

Following the collection of surface soil samples, the location of each sample was recorded using the Trimble GeoXH GPS unit. The location of each of the sample locations is presented on Figure 4.

Laboratory Samples

The three samples were placed in a plastic cooler pre-chilled with ice and submitted under appropriate Chain of Custody protocols to TestAmerica, Inc. (Test America), located in Amherst New York. Test America holds a New York State Department of Health (NYSDOH) Environmental Laboratory Analytical Program (ELAP) certification. Copies of the chain of custody forms are provided as Appendix B. The samples were analyzed for the following analysis:

- TCL SVOCs by USEPA Method 8270 + 30 Tentatively Identified Compounds (TICS)
- Target Analyte List (TAL) metals by various USEPA Methods via SW846
- Pesticides analysis by USEPA Method 8081.

In addition to the analysis specified above, it is noted that Section 3.3.8.2 of the approved RI/AA Work Plan (O'Brien & Gere, 2008) also specified PCB analysis by USEPA Method 8082. The PCB analysis was inadvertently omitted on the chain of custody form for the surface samples and was not analyzed. At the discretion of the NYSDEC, additional surface samples for PCB analysis may be included in the scope of future investigation work, if additional investigation work is warranted at the Site.

Laboratory Quality Assurance/Quality Control (QA/QC) samples, consisting of Matrix Spike (MS), Matrix Spike Duplicate (MSD) and blind laboratory duplicate samples were not collected at the surface soil sample locations because a sufficient number of QA/QC samples were planned

for this media (i.e., soil) as part the test trench and soil boring sampling programs described below in Sections 3.1.6 and 3.1.7, respectively. One equipment blank was collected (EQPTBLANKSS-01-091508) by pouring laboratory supplied deionized water over the decontaminated trowel used to collect the surface soil sample(s) prior to the collection of the sample. The deionized water was collected in laboratory supplied containers and analyzed for the same analysis that was requested for the surface soil samples. A temperature control blank was included in the cooler shipped to the laboratory.

A summary of the surface soil samples and the QA/QC samples that were submitted to the laboratory, and the requested analysis for each of the samples, are presented on Table 3.

Reporting and Results

The laboratory provided a Category B (Level III) report package as described in the current New York State Analytical Services Protocol (NYSASP). A complete copy of the laboratory analysis report is included as Exhibit B.

Following receipt of the data packages, the data was provided to a data validator, Environmental Data Validation, Inc. (EDV) of Pittsburgh, Pennsylvania, for the purpose of review for completeness and conformity with the required analytical methods. Consistent with the NYSDEC guidelines, a Data Usability Summary Report (DUSR) was prepared summarizing the results of this review. A copy of the DUSR is provided as Exhibit C.

A discussion of the results of the surface soil sample investigation is discussed in Section 5.

### 3.1.5 PCB Assessment and Collection of Wipe Samples

Purpose and Objectives

Based upon the Site conditions documented in the previously performed Site investigations, the known historical use of the property, the presence of electrical and motorized equipment and the transformer room identified in the Phase I ESA, a PCB assessment was conducted at the Site by O'Brien & Gere on September 15 and 16, 2008.

Methodology and Procedures

Suspected locations of PCB containing media were identified by O'Brien & Gere during the assessment. These locations included:

- Locations housing transformers or other engine driven or electrical equipment
- Hydraulic lifts/cylinders
- Oil stained surfaces including loading docks, shop floors, and drum storage areas
- Oil drip pans
- Floor drains.

Based on an interview with the current Site tenant and a review of the historic Site maps, O'Brien & Gere was able to locate the former transformer room identified in the SGD Phase I ESA Report

(SGD, 2007). The transformer room, depicted on the undated drawing provided in the SGD Phase I ESA, is located on the east side of the Site building along Bremen Street and can only be accessed through a man door located on an exterior wall of the Site building. O'Brien & Gere could not gain access to the room because a key for the locked man door (and chain link gate directly in front of the door) could not be located by the current Site tenant. It appears that the transformer room has not been accessed in several years due to the presence of trees with trunk diameters of approximately 3 to 4 inches immediately in front of the locked door. A buzzing sound consistent with the sound of active transformers/electrical equipment was heard by O'Brien & Gere emanating from behind the locked door.

Laboratory Samples

Wipe samples of suspect residue material on floors, equipment and drainage structures were collected using laboratory prepared wipe sampling kits consisting of a gauze pad soaked with hexane contained in a 4 ounce glass jar. Each sample was collected from a 100 square centimeter ($cm^2$) surface area, following the instructions provided in the kit, using a template with a 10 cm by 10 cm "window". Samples were biased to stained areas observed by O'Brien & Gere. New nitrile gloves were donned by field personnel prior to the collection of each PCB wipe sample.

Five wipe samples were collected, placed in a pre-chilled plastic cooler and submitted to Test America, under appropriate chain of custody protocols, for PCB analysis using USEPA Method 8082. Copies of the chain of custody forms are provided as Appendix B. The sample locations were documented in the field notebook and field sketches that were retained in the project file. Copies of these documents are available upon the City's request. A summary of the location of each of the wipe samples and rationale for collection of each sample is provided in Table 4 below. The locations where the samples were collected are presented on the Sample Location Map provided as Figure 4.

**Table 4 – Summary of PCB Wipe Samples**

| Sample ID | Location | Rationale for Collection of Sample |
|---|---|---|
| PCB-01-091508 | Floor of machine shop located west of loading dock on east side of building | Staining on floor observed by waste oil tank (AST) located in Dock Hardware machine shop |
| PCB-02-091508 | Floor in storage area on south side of 1920 building | Staining on floor observed near furnace |
| PCB-03-091508 | Floor in 2nd machine shop area (contains drill presses and other machine tooling) located west of machine shop on east side of building (near east loading dock) | Staining on floor observed |
| PCB-04-091508 | Floor drain (OBG-FD#1). Drain located within machine shop located west of loading dock on east side of building | Staining was observed on the floor near (and in) the drain |
| PCB-05-091608 | Seneca Avenue loading dock cylinder | Sample collected on exposed cylinder for dock leveler in building constructed circa. 1965 |

Reporting and Results

Consistent with the approach discussed above for the surface soil samples, the laboratory provided a Category B (Level III) report package as described in the current NYSASP. A complete copy of the laboratory analysis report is included as Exhibit B.

Following receipt of the data packages, the data was provided to the data validator, EDV, for the purpose of review for completeness and conformity with the required analytical methods. Consistent with the approach for the surface soil samples, a DUSR was prepared summarizing the results of this review. A copy of the DUSR is provided as Exhibit C.

A discussion of the results of the PCB Assessment is presented in Section 5.

### 3.1.6 Test Trench Investigation and Collection of Subsurface Soil Samples

Purpose and Objectives

On September 17, 2008, seven test trenches (TP-01 through TP-07) were excavated at the Site by O'Brien & Gere's subcontractor, TREC Environmental Inc. (TREC), of Spencerport, New York. The test trenches were excavated at locations that included, suspect locations identified in previous studies, locations where potential subsurface anomalies were identified by the geophysical survey, and at locations where groundwater monitoring wells installed during

previous investigations were destroyed or had become obscured. The objective of the test trench installation was to evaluate potential contaminant source areas associated with:

- The former 10,000 gallon heating oil UST and 6,000 gallon heating oil UST reportedly located on the west side of the Site building along Seneca Avenue
- Possible impacted surface conditions associated with over 40 years of automobile parking as well as the potential of a former gasoline station in the south parking lot, and
- Possible impacted subsurface conditions associated with a historic 1,000 gallon gasoline UST reportedly installed at the Site in 1952.

Methodology and Procedures

Test trenches were excavated with a tracked mini excavator to a maximum depth of 9.5 feet bgs (TP-01). Soil removed from each excavation was placed on the ground surface on polyethylene sheeting adjacent to the trench location. If a subsurface feature (e.g., UST or underground pipe) was contacted during excavation, excavation activities ceased while the O'Brien & Gere supervising on-Site engineer attempted to identify what was contacted and if the excavation could continue without compromising the Health and Safety of on-Site workers.

Soil samples that were collected from each trench were physically inspected and field screened with a photo ionization detector (PID) for evidence of VOCs. The on-Site O'Brien & Gere engineer classified soil samples in the field using the Unified Soil Classification System (USCS). In addition to logging the geologic descriptions, observations including soil sample color, moisture content and grain-size distribution, were recorded. A Test Trench Log was prepared for each trench detailing field observations, the types of material encountered and the PID readings. Copies of the Test Trench Logs are included in Appendix C.

Upon completion of each test trench, the excavated soil was placed back into the test trench and compacted with the excavator bucket. After the completion of each test trench, the excavator bucket was decontaminated using a steam cleaner and soapy water wash (e.g., alconox), followed by a potable water rinse. A large plastic tub was used to contain water generated during the decontamination process. Water and soil accumulating in the tub was placed into steel 55-gallon DOT drums for later characterization and disposal by the City.

Following the excavation of the test trenches, the location of each trench was recorded using the Trimble GeoXH GPS unit. The location of each of the test trenches is presented on Figure 4.

Laboratory Samples

In general, one discrete soil sample from each test trench exhibiting the highest apparent evidence of contamination, on the basis of PID readings or olfactory or visual evidence, was submitted for laboratory analysis. No sample for laboratory analysis was collected from test trench TP-05, because a soil boring was planned in this area (i.e., SB-07) or TP-07, due to shallow refusal encountered during excavation. If no VOCs were detected or if no olfactory or visual evidence of other contamination was apparent, the sample submitted for analysis was collected near the capillary fringe. New nitrile gloves were donned by field personnel prior to the collection of each soil sample. Samples were collected from the center of the excavator bucket taking care not to select soil that had come in contact with the sides of the bucket.

QA/QC samples, consisting of one MS, one MSD and one blind field duplicate were also collected. An equipment blank was collected by pouring laboratory supplied deionized water over the excavator bucket or trowel used to collect the sample (after a decontamination event) and collecting the water in laboratory supplied containers. A trip blank accompanied coolers containing samples for VOC analysis. A temperature control blank was included in each cooler shipment to the laboratory.

The test trench soil samples were placed in a pre-chilled plastic cooler and submitted to Test America under appropriate chain of custody protocols for the following requested analyses:

- TCL VOCs by USEPA Method 8260 + MTBE + 30 TICS
- TCL SVOCs by USEPA Method 8270 + 30 TICS
- TAL metals by various USEPA Methods via SW846
- PCBs by USEPA Method 8082.

Copies of the chain of custody forms are provided as Appendix B. A summary of the test trench soil samples and the QA/QC samples that were submitted to the laboratory, and the requested analysis for each of the samples, is presented on Table 3.

Reporting and Results

Consistent with the approach discussed above for the surface soil samples, the laboratory provided a Category B (Level III) report package as described in the current NYSASP. A complete copy of the laboratory analysis report is included as Exhibit B.

Following receipt of the data packages, the data was provided to the data validator, EDV, for the purpose of review for completeness and conformity with the required analytical methods. Consistent with the approach for the surface soil samples, a DUSR was prepared summarizing the results of this review. A copy of the DUSR is provided as Exhibit C.

A discussion of the results of the Test Trench Investigation is presented in Section 5.

### 3.1.7 Geoprobe Investigation and Collection of Subsurface Soil Samples

Purpose and Objectives

A Geoprobe Investigation was conducted to evaluate subsurface conditions in known or suspected areas of concern, to evaluate overall subsurface characteristics, and to provide a more complete subsurface cross-section of the property. On September 18, 19 and 24, 2008, TREC advanced twenty-four Geoprobe borings (SB-01 through SB-24) throughout the Site under the oversight of an O'Brien & Gere engineer and/or geologist. Ten borings were installed in the interior of the Site building (SB-13 through SB-18 and SB-21 through SB-24) and fourteen borings were installed outside of the building (SB-1 through SB-12, SB-19 and SB-20). Generally, Geoprobe soil borings were advanced at the following locations:

- The north portion of the Site, in the proximity of the facility loading docks. This area has historically been used for storage of various chemicals on Site, and in addition is the location of a known release of trichloroethene approximately 30 years ago. Contaminated groundwater has been detected in existing monitoring wells MW-1, located in the east loading dock, and MW-4 located on the west side of the building. Geoprobe borings were advanced in the vicinity of the two wells and inside accessible portions of the Site building between the two wells to evaluate the presence of subsurface contaminants.
- Geoprobe borings were advanced in the parking lot located on the south end of the site, to evaluate the nature and extent of possible subsurface contamination in the area associated with the former gasoline and auto repair station (on-Site) and three off-Site stations at the perimeter of the south end of the Site.
- Geoprobe borings were advanced on the west side of the Site building to further evaluate subsurface conditions with the two USTs (10,000 and 6,000 gallon) that reportedly were abandoned in place by draining the contents of the tanks and filing the tanks with concrete. These tanks reportedly historically contained heating oil.
- Geoprobe borings were advanced in the east loading dock to evaluate subsurface conditions associated with the historic TCE spill and the oil tank mapped in this area on historic Site drawings.

Methodology and Procedures

The Geoprobe borings were advanced using a tracked Geoprobe direct push drill rig (model 54LT). Borings were advanced to bedrock or refusal based on the limits of the drilling equipment. Borings were generally completed at depths approximately 10-15 feet below grade. The concrete floor inside the Site building was penetrated using a rotary core drill prior to advancing the borings with the Geoprobe drill rig.

An O'Brien & Gere engineer and/or geologist provided oversight of the drilling activities. Soil samples were collected from each Geoprobe boring using a Macrocore sampler equipped with disposable acetate liners. Samples were physically inspected and field screened with a PID for evidence of VOCs. The supervising geologist/engineer classified each boring sample utilizing the USCS. In addition to logging the geologic descriptions, observations including soil sample color, moisture content, grain-size distribution, recovery, and the PID readings were recorded on Geoprobe Boring Logs. Copies of the Geoprobe Boring Logs are included in Appendix D.

After the completion of each soil boring, the down hole Geoprobe tooling was decontaminated using a stiff scrub brush and soapy water wash (e.g., Alconox), followed by a potable water rinse. Decontamination water was containerized in plastic pails. Used decontamination water was placed into 55 gallon steel DOT drums for later characterization and disposal by the City.

Following the advancement of the Geoprobe borings, the location of each boring was recorded using the Trimble GeoXH GPS unit. For borings installed in the interior of the Site building, the horizontal locations were recorded using a steel tape and/or measuring wheel from the nearest reference point that could be established using the GPS. The locations of each of the Geoprobe borings are illustrated on Figure 4.

Laboratory Samples

At least one soil sample, for laboratory analysis, was collected from each soil boring. New nitrile gloves were donned by field personnel prior to the collection of each soil sample. The sample was collected at the interval exhibiting the highest apparent evidence of contamination as indicated by elevated PID readings and/or visual or olfactory observations of the O'Brien & Gere supervising engineer or geologist. If a second interval exhibited suspect evidence of contamination a second soil sample was collected. If no evidence of contamination was present, the sample submitted for laboratory analysis was collected near the capillary fringe.

QA/QC samples, consisting of two MS, two MSD and two blind laboratory duplicates were also collected. Two equipment blanks were collected by pouring laboratory supplied deionized water over the Macrocore sampler (after a decontamination event) and collecting the water in laboratory supplied containers. A trip blank accompanied coolers containing samples for VOC analysis. A temperature control blank was included in each cooler shipment to the laboratory.

The Geoprobe soil samples were placed in a pre-chilled plastic cooler and submitted to Test America under appropriate chain of custody protocols for the following requested analyses:

- TCL VOCs by USEPA Method 8260 + MTBE + 30 TICS
- TCL SVOCs by USEPA Method 8270 + 30 TICS
- Pesticides analysis by USEPA Method 8081 (for only two soil samples)
- TAL metals by various USEPA Methods via SW846
- PCBs by USEPA Method 8082.

Copies of the chain of custody forms are provided as Appendix B. A summary of the Geoprobe soil samples and the QA/QC samples that were submitted to the laboratory, and the requested analysis for each of the samples, is presented on Table 3.

Reporting and Results

Consistent with the approach discussed above for the test trench soil samples, the laboratory provided a Category B (Level III) report package as described in the current NYSASP. A complete copy of the laboratory analysis report is included as Exhibit B.

Following receipt of the data packages, the data was provided to the data validator, EDV, for the purpose of review for completeness and conformity with the required analytical methods. Consistent with the approach for the test trench soil samples, a DUSR was prepared summarizing the results of this review. A copy of the DUSR is provided as Exhibit C.

A discussion of the results of the Geoprobe Investigation is presented in Section 5.

### 3.1.8 Integrity Assessment of Existing Monitoring Wells

On September 15 and 16, 2008, O'Brien & Gere performed a visual assessment of the two historic bedrock supply wells (BSW#1 and BSW#2), ten historic overburden monitoring wells (RIZ-1 through RIZ-9 and OW-101) and four historic bedrock wells (MW-1 through MW-4)

installed at the Site during previous Site investigations. During the assessment, O'Brien & Gere visually inspected the physical condition of each well and attempted to gauge a water level, depth to bottom and detect the presence of Non-Aqueous Phase Liquid (NAPL) in each of the wells using an oil water interface probe.

The visual inspection revealed that eight of the previously installed wells at the Site appeared to be competent for future groundwater sampling and evaluation (RIZ-3, RIZ-4, RIZ-7, RIZ-9, OW-101, MW-1, MW-3 and MW-4). Six of the wells would not be suitable for collection of groundwater samples because the wells were no longer physically competent due to vandalism or damage from a snow plow, or the wells could not be located (RIZ-1, RIZ-2, RIZ-5, MW-2, BSW#1, BSW#2). The integrity of two of the wells was questionable (RIZ-6 and RIZ-8); these wells contained very little water and would require redevelopment to determine if the wells were suitable for sampling. The results of O'Brien & Gere's assessment are summarized on Table 5. Copies of the historic monitoring well boring/construction logs are included as Exhibit D.

Redevelopment of Existing Overburden Monitoring Wells

On the basis of O'Brien & Gere's observations during the monitoring well assessment, and because the Site monitoring wells had not been sampled in approximately ten years, O'Brien & Gere determined that it would be beneficial to redevelop the competent existing overburden monitoring wells. The goal of redeveloping the wells were to:

- Remove fine-grained sediment from the sand pack and formation adjacent to the well screen
- Reduce the turbidity of future groundwater samples
- Increase the yield of the well.

The wells were developed by O'Brien & Gere using dedicated polyethylene bailers. O'Brien & Gere field personnel donned new nitrile gloves prior to development activities at each well and care was taken not to introduce contaminants into the well. During development, the bailers were used to surge the water column in the well. Well development water was containerized in 55 gallon steel DOT drums for future characterization and disposal by the City.

During development, O'Brien & Gere recorded the volume of water removed from the well and measured temperature, pH, conductivity and dissolved oxygen of the development water. These data and O'Brien & Gere's observations were recorded on Well Development Logs included as Appendix E. The goal for development was to obtain groundwater that exhibited a turbidity of less than or equal to 50 Nephelometric Turbidity Units (NTUs) and in which the pH, temperature and specific conductivity stabilized. A minimum of five well volumes was removed from the wells that recharged, or if the wells did not recharge the wells were bailed to dryness.

Although the resulting parameters after development did not stabilize, and/or the turbidity was not below 50 NTUs in all cases, five of the overburden wells were considered to be developed successfully (RIZ-3, RIZ-4, RIZ-7, RIZ-9 and OW-101). Two of the monitoring wells could not be rehabilitated through development (RIZ-6 and RIZ-8) and likely would not yield sufficient volume for the collection of groundwater samples or yield water level measurements that could be considered accurate and indicative of the surrounding conditions; therefore O'Brien & Gere

determined (with the City's approval) that these wells would not be included in subsequent groundwater sampling or gauging events.

### 3.1.9 Installation of Bedrock Monitoring Wells

Purpose and Objectives

On September 24, 2008 through October 2, 2008, O'Brien & Gere's drilling subcontractor, Parratt Wolff Inc. (Parratt Wolff) of East Syracuse, New York, installed a total of five bedrock monitoring wells at the perimeter of the Site to monitor the groundwater quality of the first significant water-bearing unit encountered in bedrock. Two of the wells (MW-5 and MW-6) were located at two locations perceived to be hydraulically downgradient of the Site, across the street along Seneca Avenue on the west side of the Site. An additional two wells (MW-7 and MW-8) were installed at two locations perceived to be hydraulically upgradient from the Site, across the street along Bremen Street on the east side of the Site. A fifth well (MW-9) was installed at the southeast corner of the Site, in a perceived upgradient location, in the parking lot south of the Site building. The locations of the monitoring wells are presented on Figure 4.

Well Installation Methodology and Procedures

Prior to initiating drilling, Parratt Wolff contacted the UFPO, DigSafe NY, to identify underground facilities (e.g., gas, electric, sewers) in the vicinity of the proposed monitoring well locations.
Monitoring wells were installed in a manner to prevent contaminants previously detected in overburden at the Site from vertically migrating downward to the bedrock below (i.e., double cased). It should be noted that the initial proposed scope of work did not entail the installation of double cased monitoring wells, however on the basis of observations made by the O'Brien & Gere geologist during installation of the first monitoring well (MW-5), O'Brien & Gere recommended to the City that the scope was modified to include the installation of a permanent outer steel casing for all five of the new bedrock wells. The City agreed and MW-5 was subsequently abandoned (the boring and log were rebadged as MW-5a) by removing the 2 inch polyvinyl chloride (PVC) well screen and riser and by pressure grouting the remaining open borehole with bentonite-cement grout. The installation of the remaining five wells (MW-5 through MW-9) continued as described below.

The monitoring wells were installed utilizing a truck mounted drill rig and 4¼ inch inside diameter (ID) hollow-stem auger drilling techniques. Initially, 4¼ inch HSAs were advanced to the top of competent bedrock. Split-spoon samples were obtained continuously through the overburden at each location according to ASTM Method D-1586 in advance of the lead auger. An O'Brien & Gere geologist and/or engineer was on-Site to complete a boring log documenting the encountered subsurface material and other pertinent observations, including soil composition (characterized according to the USCS), color, consistency, moisture content, density, grain-size distribution, blow counts, recovery, odor and staining. In addition, soil recovered in each split spoon sample was screened using a PID and the detected readings were recorded on the boring logs. Copies of the Test Boring Logs completed during installation of the monitoring wells are provided as Appendix F. Once the augers reached top of bedrock, the augers were used to advance a rock socket a minimum of 2 feet into competent rock and a 4 inch permanent steel casing was pressure grouted in place to isolate the overburden. The grout was allowed to set for a minimum of 24 hours before drilling continued.

After the grout had cured, continuous rock cores were collected at MW-5, MW-8 and MW-9 using an HQ core barrel and water rotary drilling techniques. All cores were logged by an O'Brien & Gere geologist and the observations were recorded on the previously mentioned boring logs presented as Appendix F. At MW-6 and MW-7, cores were not collected and drilling continued through the permanent 4 inch steel casing with a 3 $^{7/8}$ inch roller bit. The roller bit was advanced to the well completion depth at the first significant water bearing fracture, based on the core information obtained from the adjacent monitoring well(s) and observations of any gain or loss of drilling water during drilling. Any loss or gain of drilling water during rock coring or rotary drilling was recorded in the boring logs and in the field notebook. The field notebooks were retained by O'Brien & Gere in the project file and copies are available upon the City's request.

Due to the friable nature of the surrounding bedrock, PVC well screen and riser were installed at all five monitoring wells. The wells were constructed of 2 inch ID, flush joint, schedule 40 PVC riser pipe with 20 feet of 0.010 inch slot PVC well screen that was lowered through the center of the HSAs. The base of each well was equipped with threaded bottom plugs and the top of each well was equipped with a vented, locking J-plug cap. In addition, each well was labeled using indelible ink and a designated measuring point was notched in to the top of the PVC riser pipe to provide a permanent reference point for subsequent total depth and depth to water measurements.

After setting the PVC screen and riser, sand was introduced gradually inside the open borehole and steel 4 inch casing to fill the annular space between the screen and the borehole. The sand pack extended from the bottom of the boring to approximately 2 feet above the top of the screen. The sand pack consisted of clean, graded #1 silica sand. A bentonite pellet seal was placed above the sand pack and hydrated to form a seal at least 2 feet thick. A thick cement-bentonite grout was placed from the top of the bentonite pellet seal to a depth of approximately 2 feet below the ground surface. The grout material consisted of Type I Portland cement mixed with either a powdered or granular bentonite. The grout mixture was prepared in accordance with ASTM D 5092-90, such that approximately 3 to 5 pounds of bentonite was mixed with 6½ to 7 gallons of water per 94 pound sack of cement. The grout was introduced via a tremie pipe lowered to just above the top of the bentonite pellet seal. As the grout was pumped into the borehole, the tremie pipe was lifted so that the grout was pumped into the borehole in a manner to minimize air pockets or voids in the grout. The upper 2 feet of the borehole was completed with an 8 inch, flush-mounted protective curb box set in a concrete pad at grade. The exception was monitoring well MW-9 which was completed by leaving the well casing above grade approximately 30 inches. The casing here (MW-9) was completed with a locking metal cap and protected with a 4 inch steel pipe bollard installed adjacent to the casing. Monitoring well construction logs are provided as Appendix G. Drill cuttings and drilling fluids were containerized in 55 gallon steel DOT drums for later characterization and disposal by the City.

As previously mentioned a City of Rochester Survey Team conducted a topographical survey of the Site (and boundary survey) and recorded the locations and elevations of the newly installed and previously installed historic monitoring wells. The Boundary and Topographic Survey Map is presented as Figure 2. A table of monitoring well elevations and coordinates (prepared by the City) is included as Exhibit E.

Decontamination Methodology and Procedures

The drilling program also included decontamination procedures to minimize the potential for contaminants to be introduced into the borehole or transferred across the Site. The back of the drill rig and all down hole tooling (e.g., augers, drill rod, and coring equipment) were decontaminated following completion of each well using a steam cleaner and soapy water wash (e.g., Alconox) followed by a potable water rinse. The activity was completed on a temporary decontamination pad constructed of plastic sheeting, lumber and plywood that was used to contain water generated during the process. Water and soil accumulating on the pad was placed into steel 55 gallon DOT drums for later characterization and disposal by the City. To prevent human exposure to potentially contaminated media, the drilling sub-contractor put up a temporary competent barrier (e.g., construction safety fence) around the decontamination pad and drum staging area. Smaller sampling equipment that was reused during installation of the wells (e.g., spilt spoons) were also cleaned, using plastic pails filled with soapy water (e.g., Alconox), followed by a potable water rinse.

Monitoring Well Development

Following completion of the new monitoring wells, each well was developed prior to initiating groundwater sampling. The new monitoring wells were developed by Parratt Wolff under the supervision of an O'Brien & Gere Scientist on October 3, 2008.

Consistent with the goals for redevelopment of the existing monitoring wells discussed in Section 3.1.8, each newly constructed monitoring well was developed to:

- Remove fine-grained materials from the sand pack and formation adjacent to the well screen
- Reduce the turbidity of groundwater samples
- Increase the yield of the well.

The monitoring wells were developed no sooner than 48 hours after installation of the bentonite grout and seal to allow sufficient time for the bentonite to cure. The wells were developed by Parratt Wolff using a 12-volt submersible pump (e.g., whale pump) that was decontaminated after use at each well by pumping soapy water (e.g., Alconox) and a potable water rinse through the pump. The exterior of the pump and tubing were cleaned using a stiff scrub brush. Care was taken not to introduce contaminants into the well during installation of the pump.

During development, O'Brien & Gere recorded the approximate pumping rate and volume of water removed from each well and measured temperature, pH, conductivity and dissolved oxygen of the development water. These data and O'Brien & Gere's observations during well development were recorded on Well Development Logs included as Appendix E. The goal for development was to obtain groundwater that exhibited a turbidity of less than or equal to 50 NTUs and in which the pH, temperature and specific conductivity stabilized. A minimum of five well volumes were removed from each of the new wells with the exception of MW-7, which recovered slowly and only allowed removal of approximately one well volume during development. Although the turbidity recorded at each of the wells after development was not less than 50 NTUs, the remaining field parameters did stabilize and all five wells were considered to have been developed successfully and deemed suitable for future groundwater sampling and

groundwater elevation gauging events. Water removed during development and used decontamination water was contained in 55-gallon steel DOT drums for later characterization and disposal by the City.

### 3.1.10 Groundwater Sampling

Purpose and Objectives

As discussed in Section 2.2.2, at least seven groundwater sampling events have been conducted at the Site by at least four different consultants from the period of 1989 to 1998. These groundwater sampling events varied, involving different collection methods and various requested laboratory analysis for samples collected from various wells at the Site. The most recent Site wide round of groundwater samples was collected over ten years ago by AEL during activities associated with the Voluntary Cleanup Program initiated at the Site in 1998. The samples that AEL collected were analyzed for VOCs by USEPA method 8260. The results of the overburden groundwater sampling were consistent with previous groundwater sampling events that indicated that Site overburden is contaminated with chlorinated solvents and fuel oil constituents. The results of the bedrock groundwater sampling revealed the presence of chlorinated solvents in all four bedrock monitoring wells (MW-1 through MW-4) present at the site at the time of the AEL sample event (1998).

To monitor current groundwater quality at the Site, and to evaluate the presence of contaminants detected in groundwater during the previous groundwater sampling events, two Site wide rounds of groundwater samples were collected by O'Brien & Gere. These two events consisted of a baseline event conducted in the fall of 2008 (September 30, 2008 through October 6, 2008) and one follow-up event conducted in the winter of 2009 (January 15, 2009 through January 20, 2009). Groundwater quality during these two events was evaluated by sampling the eight competent, existing on-Site wells (RIZ-3, RIZ-4, RIZ-7, RIZ-9, OW-101, MW-1, MW-3 and MW-4) and by sampling the five new perimeter bedrock monitoring wells installed by O'Brien & Gere in the fall of 2008 (MW-5 through MW-9). Groundwater samples were collected using conventional sampling techniques as described below.

Water Level Measurements

Prior to initiating groundwater sampling, the wells were checked for the presence of Light Non-Aqueous Phase Liquids (LNAPL) and Dense Non-Aqueous Phase Liquids (DNAPL) using an interface probe. After checking each well for NAPL, water level measurements were obtained utilizing an electronic water level indicator. New nitrile gloves were donned by O'Brien & Gere field personnel at each well prior to performing NAPL and water level measurement activities, and care was taken not to introduce contaminants into the well. The interface probe, water level probe and measuring tapes for both units were decontaminated in plastic pails after each measurement using a soapy water wash (Alconox) and potable water rinse. Decontamination wash water was collected in 55 gallon steel DOT drums for future characterization and disposal by the City. The monitoring well elevation data was recorded in field notes (retained within the project file and available upon the City's request) and are summarized on Table 6.

Sampling Methodology and Procedures

O'Brien & Gere collected groundwater samples at the Site using conventional sampling techniques (i.e., purge and sample techniques). Standing water was purged from the casing of each monitoring well using a new dedicated polyethylene bailer prior to the collection of each groundwater sample(s). For wells that recharged rapidly, a minimum of three well volumes of purge water was removed. For slowly recharging wells, the wells were purged to dryness removing a minimum of one well volume.

Prior to initiating purging, the O'Brien & Gere field staff donned new nitrile gloves and care was taken to avoid introducing contaminants into the well. The bailer was lowered slowly down the well to avoid agitating the water column causing potential loss of VOCs from the water. Once the bailer came in contact with the water column in the well, the sampling team member continued to slowly lower the bailer allowing it to submerge through the water column to the screened section of the well. When the bailer had filled, it was slowly removed from the monitoring well and the purge water was discharged into a 5 gallon pail. Care was taken to prevent the bailer from touching the 5 gallon pail or the ground, which could lead to cross-contamination of the bailer. These steps were repeated until the desired amount of purge water was removed from the well. Purge water was containerized in 55 gallon steel DOT drums for future characterization and disposal by the City.

During well purging, the following field parameters were measured:

- Temperature
- pH
- Conductivity
- Dissolved Oxygen
- Turbidity.

Field parameters were obtained initially from the first bailed volume of water removed from the well, after each subsequent well volume and a final round of readings were recorded after collection of the groundwater sample. Field parameters, observations and sampling procedures were recorded by O'Brien & Gere on a Groundwater Sampling Log completed for each well. Copies of the Groundwater Sampling Logs are provided as Appendix H.

Laboratory Samples

One groundwater sample was collected for laboratory analysis from each of the purged monitoring wells. For wells that recharged rapidly, the groundwater sample was collected immediately after purging; for wells that recharged slowly, the well was allowed to recharge to a level equivalent to at least 90% of the original gauged water level or the well was allowed to recharge for a maximum of 24 hours, whichever was sooner. Samples were collected using the dedicated polyethylene bailer. New nitrile gloves were donned by sampling personnel prior to the collection of each sample. Samples were collected in laboratory supplied containers that contained preservative(s) specific to each requested analysis (if preservative was required). Sample containers were filled directly from the dedicated bailer according to the following prioritized order:

- VOCs
- SVOCs
- PCBs
- Pesticides (if collected)
- Metals.

The groundwater samples were placed in a pre-chilled plastic cooler and submitted to Test America under appropriate chain of custody protocols for the following requested analyses:

- TCL VOCs by USEPA Method 8260 + MTBE + 30 TICS
- TCL SVOCs by USEPA Method 8270 + 30 TICS
- Pesticides analysis by USEPA Method 8081(for only seven samples)
- PCBs by USEPA Method 8082
- TAL metals by various USEPA Methods via SW846.

QA/QC samples, consisting of MS, MSD, blind laboratory duplicate and equipment blank samples were collected at a frequency of 1 for every 20 groundwater samples collected (*i.e.*, minimum frequency of 5%). The equipment blank was prepared by pouring laboratory supplied deionized water through one of the dedicated bailers and collecting the water in laboratory supplied containers. A trip blank accompanied coolers containing samples for VOC analysis. A temperature control blank was included in each cooler shipment to the laboratory.

After collecting the sample, the sampling information was recorded on the Groundwater Sampling Log prepared for each well (provided as Appendix H). Copies of the chain of custody forms are provided as Appendix B. A summary of the groundwater samples and the QA/QC samples that were submitted to the laboratory, and the requested analysis for each of the samples, is presented on Table 3. It should be noted that at some of the wells, due to insufficient yield/recharge, limited analysis was requested because not enough volume of groundwater was available to perform the specific laboratory analysis.

After the bailer was used to purge and sample the monitoring well it was rinsed with deionized water and was placed back into the monitoring well by suspending it from the removable well cap for subsequent use in future sampling. The removable locking cap was replaced and locked and the monitoring well was sealed by securing the removable steel lid.

Reporting and Results

Consistent with the approach discussed above for soil samples collected at the Site, the laboratory provided a Category B (Level III) report package as described in the current NYSASP. A complete copy of the laboratory analysis report is included as Exhibit B.

Following receipt of the data packages, the data was provided to the data validator, EDV, for the purpose of review for completeness and conformity with the required analytical methods.

Consistent with the approach for the soil samples, a DUSR was prepared summarizing the results of this review. Copies of the DUSRs are provided as Exhibit C.

A discussion of the results of the two rounds of Groundwater Sampling is presented in Section 5.

### 3.1.11 Soil Gas Sampling Program

Purpose and Objectives

To evaluate the extent of VOCs in soil gas/soil vapor at the Site and to assess whether there is a potential for off-Site vapor migration, soil gas samples were collected for laboratory analysis for VOCs. O'Brien & Gere installed seven temporary soil gas sampling points (SV-1 through SV-7) at seven locations around the perimeter of the Site on January 20 and 21, 2009. Two soil gas samples were installed on the south end of the Site in the south parking lot (SV-1 and SV-7), two soil gas samples were collected on the west side of the Site within the grass strip between the Site building and Seneca Avenue (SV-2 and SV-3) and three soil gas samples were collected within the grass strip between the Site building and Bremen Street (SV-4, SV-5 and SV-6) on the east side of the Site. The locations where the soil gas samples were collected are shown on Figure 4.

Methodology and Procedures

Each soil gas sampling point was installed to a depth of approximately 4 feet bgs. Each temporary sampling point was installed using a slide hammer to manually drive rods to install the screened implant (e.g., 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 porous, inert backfill material (*i.e.*, glass beads) to a point approximately 6 inches above the screened interval of the implant. The annular space around the sample tubing was sealed with approximately 0.5 foot of a 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. The sampling points consisted of a stainless steel sample point with a 1 inch wire screen attached to an appropriate length of ¼ inch outside diameter Teflon tubing.

Following installation of the soil gas sample points, and prior to the collection of the soil gas samples, the sampling tubing was purged of ambient air. A minimum of one and a maximum of three volumes of air were purged from each sample point prior to sample collection. In addition, tracer gas screening was used during sampling to evaluate the adequacy of the sampling technique, consistent with the guidance described in Section 2.7.5 of NYSDOH's *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* dated October 2006. The tracer gas screening procedure that was employed at the Site is presented below:

- Helium tracer gas was retained around the sample location by filling a specially fitted plastic bucket, which was positioned over the sample location.
- The bucket was sealed to the ground surface using a bentonite slurry.
- Helium tracer gas was introduced into the top of the bucket through a valved fitting while a valved fitting located at the bottom of the bucket was opened to let the ambient air out

while introducing the helium. The valves were closed after the bucket was filled with helium.

- A modified bulkhead compression fitting was also present at the top of the bucket to allow the sample tubing to pass through the compression fitting and exit the bucket.
- After the bucket was filled with helium, the sample tube was attached to a personal air-monitoring pump.
- The pump was pre-calibrated to extract soil vapor at a rate of 0.1 liters per minute into a 1 liter Tedlar bag.
- A hand-held helium detector was attached to the Tedlar bag to confirm there was no short circuiting of ambient air around the annular space of the borehole (e.g., the presence or absence of helium in soil gas confirmed the integrity of the borehole seal prior to sampling).
- The soil gas probe was purged for a period of three to five minutes to screen for helium/short circuiting (i.e., presence of helium).
- If helium was detected during this procedure, the short-circuit was corrected and the screening procedure was repeated until it passed.
- If helium was not detected, the sample tubing was attached to the sampling equipment and soil gas sample collection using a stainless steel SUMMA™ vacuum canister was initiated.
- After sample collection was completed, the bucket was checked using the valve fitting on the bucket to verify that helium was still present in the bucket around the sample probe location.
- Finally, following the completion of sample collection, the personal monitoring pump was reconnected to the sample tubing and the Tedlar bag and helium meter was used to screen for helium in soil gas collected from the soil gas sample tubing to verify that short circuiting had not occurred during sampling.

Helium was not detected at any of the sampling locations during the post sample collection screening and the samples were subsequently prepared for shipment to the laboratory for analysis.

Following the collection of the soil gas samples, the location of each sample location was recorded using the Trimble GeoXH GPS unit. The locations of each of the samples are illustrated on Figure 4.

Laboratory Samples

Soil gas samples were collected using batch certified-clean 6 liter stainless steel SUMMA™ vacuum canisters equipped with laboratory-calibrated fixed rate flow controllers. The flow controllers were set to collect soil gas samples for a period of 4 hours, resulting in a sample rate

of approximately 0.025 liters per minute. Sample collection was terminated before the canister vacuum was exhausted, and the canister vacuum level at the beginning and end of sample collection was recorded on a Soil Gas Sample Collection Field Form. Copies of the Soil Gas Sample Collection Field Forms are provided as Appendix I

After sample collection, the soil gas sampling lines were cut, plugged, folded, and buried beneath native soil, and the ground surface was restored to pre-existing condition.

The soil gas samples were submitted to Test America for VOC analysis using USEPA Method TO-15 under appropriate chain-of-custody protocols. Each SUMMA canister was labeled with the sample identification, the start and end time of sample collection, date, project identification and required laboratory analysis. The same information was recorded on the Soil Gas Sample Collection Field Forms (provided as Appendix I). Samples were analyzed for chlorinated compounds with a reporting limit of 0.25 microgram per cubic meter ($ug/m^3$) for TCE and 1 $ug/m^3$ for all other compounds.

Reporting and Results

Consistent with the approach discussed above for soil and groundwater samples collected at the Site, the laboratory provided a Category B (Level III) report package as described in the current NYSASP. A complete copy of the laboratory analysis report is included as Exhibit B.
Following receipt of the data packages, the data was provided to the data validator, EDV, for the purpose of review for completeness and conformity with the required analytical methods. Consistent with the approach for the soil and groundwater samples, a DUSR was prepared summarizing the results of this review. Copies of the DUSRs are provided as Exhibit C.

A discussion of the results of the soil gas sampling is presented in Section 5.

### 3.1.12 Health and Safety and Community Air Monitoring

A Site-specific Health and Safety Plan (HASP) was prepared for the project in accordance with applicable general industry and construction standards of the Federal Occupational Safety and Health Administration (OSHA), United States Department of Labor (USDOL), as well as other Federal, State, or local applicable statutes or regulations (O'Brien & Gere, Sept 2008). The HASP was observed and adhered to by O'Brien & Gere personnel involved in the investigation. O'Brien & Gere's subcontractor's working on the Site were responsible for the preparation and implementation of their own Site specific HASP.

Personnel Air Monitoring

As part of the requirements of the HASP, monitoring of the breathing zone within work areas was conducted throughout the duration of intrusive field activities to protect the safety of on-Site workers (i.e., personnel air monitoring). Personnel air monitoring in the work areas was conducted using the following instrumentation:

- An aerosol particulate meter (dust monitor)
- A PID
- A carbon monoxide meter (when needed for indoor drilling locations).

Community Air Monitoring

A project specific Community Air Monitoring Plan (CAMP) was prepared by the City in accordance with the requirements of the Environmental Bond Act and the generic CAMP guidance document provided in Appendix 1A of the *Draft* DER-10 (NYSDEC, December 2002). As part of the CAMP, O'Brien & Gere conducted community air monitoring with the instrumentation described above at the perimeter of work areas during intrusive activities conducted during the RI. Intrusive activities included the installation of test pits, soil borings and monitoring wells. The community air monitoring program was designed to protect the safety of the surrounding community while intrusive work was being conducted at the Site. The instrument readings and O'Brien & Gere's observations were recorded by O'Brien & Gere on Air Monitoring Logs provided as Appendix J. Sustained readings above action levels that would require stoppage of work, in accordance with the action levels prescribed in the CAMP were not encountered during the RI. Additional notes and observations pertaining to the community air monitoring activities were recorded in the designated project Field Book (retained in the project file and available upon the City's request).

### 3.1.13 Management and Handling of Investigation-Derived Waste

The RI activities produced Investigation-Derived Waste (IDW), which included the following:

- Drill cuttings from installation of soil borings and monitoring wells
- Drilling Fluids from installation of bedrock monitoring wells
- Groundwater resulting from development and sampling of monitoring wells
- Decontamination wash water and rinsate resulting from decontamination of equipment and sampling tools
- Used personal protective equipment (PPE) resulting from the execution of field activities
- General refuse.

Wastes were segregated by type and contained in 55 gallon steel DOT drums in a central staging area set up in the Site's south parking lot. Drums were labeled with their contents (e.g., type of waste, borehole where waste was generated) and the date when the waste was generated. General refuse was placed in trash bags and disposed of in the Site's dumpster. At the conclusion of RI field activities, O'Brien & Gere provided the City with an inventory that included the quantity and type of IDW generated during the RI (presented as Appendix K). The City was responsible for characterization and off-Site disposal of the IDW. The waste profiles and manifest documents prepared by the City for the IDW, are included as Exhibit F and Exhibit G, respectively.

### 3.1.14 Soil Vapor Intrusion Sampling

After a preliminary review of the RI investigation data, and consultation with the NYSDOH, NYSDEC and the City, O'Brien & Gere completed a soil vapor intrusion investigation (SVI) at the Site and specific surrounding properties in March and April of 2010 (as identified in O'Brien & Gere's January 26, 2010 Work Plan Addendum, approved by the agencies on February 5, 2010). The sampling was conducted to identify soil vapor entrance points and sources of VOCs.

Details of the SVI investigation including, sampling activities, analytical results, conclusions and recommendations are provided in the *Soil Vapor Intrusion Report* provided as Appendix L.

# 4. PHYSICAL CHARACTERISTICS OF THE SITE

The following section includes a description of the physical characteristics of the Site on the basis of observations and data obtained by O'Brien & Gere during implementation of the RI.

## 4.1 SITE TOPOGRAPHY AND DRAINAGE

The Site is located at approximately 455 feet above mean sea level (amsl). The local topography is relatively flat and generally dips to the northwest towards the Genesee River Gorge. The footprint of the Site building occupies a majority of the Site's surface with the exception of the following areas: the parking lot and adjoining 574 Norton Street parcel on the south side of the Site, grass and paved areas along two narrow areas on the eastern and western Site boundaries, and the paved loading dock on the east side of the Site, accessed from Bremen Street. The parking lot and adjoining 574 Norton Street parcel on the south side of the site consist of gravel and asphalt pavement in poor condition.

Surface water runoff at the Site predominantly drains to catch basins located at the curbs of the surrounding streets (illustrated in Figure 3) and is collected in the Monroe County Storm Water Collection System.

### 4.1.1 Dry Wells

The existence of two exterior drywells at the Site (DW#1 and DW#2) were confirmed by O'Brien & Gere during the RI (previously discussed in Section 3.1.1) and are summarized below. Both dry wells had round steel grates approximately 24 inches in diameter.

Dry Well # 1

DW#1 collects surface water runoff from the paved loading dock on the east side of the Site. Several steel drums with unknown contents were observed by O'Brien & Gere, representatives from the City and the NYSDEC during a scoping session conducted at the Site in January 2008. Some of the contents of the drums appeared to have leaked to the surface and potentially to the dry well as evidenced by staining observed on the pavement in the loading dock. At the request of NYSDEC, the current Site tenant removed the drums. The contents, location and/or disposition of the drums were not provided to O'Brien & Gere.

Dry Well # 2

DW#2 appears to only collect a small portion of surface water runoff from the northeast corner of the south parking lot due to the current grade. A fiber screen that apparently had been installed to keep sediment out of the dry well (installed by others) was observed beneath the grate at DW#2 by O'Brien & Gere during the RI.

Site roof drains, storm grates and dry wells are all reportedly connected to the Monroe County Sewer System (Anson Environmental Ltd, 1996) however previous Site investigations (conducted by others) did not confirm if the roof drains, storm grates and dry wells were connected to the municipal storm water collection system or to the municipal sanitary sewers. On the basis of O'Brien & Gere's observations during the RI, and review of historic Site drawings, O'Brien & Gere could not confirm the terminus of the on-Site roof drains, storm grates or dry wells. The

municipal storm water collection system and the municipal sanitary sewers discharge to the Genesee River and/or Lake Ontario (after the sanitary sewer water is treated). The Genesee River is located approximately ¾ mile west of the Site.

## 4.2 METEOROLOGY

The average temperature of the area ranges from a low of 16.6 degrees Fahrenheit during the month of January to 81.4 degrees Fahrenheit during the month of July. Precipitation for the area ranges from 2.04 inches in February to 3.54 inches in August, with an annual average of 34 inches (http://www.rssweather.com/climate/New%20York/Rochester/).

## 4.3 SITE GEOLOGY

### 4.3.1 Overburden and Surficial Geology

According to the Surficial Geologic Map of the New York Finger Lakes Sheet (Cadwell, D.H., 1991), native overburden soils beneath the Site consist mainly of lacustrine silts and clays. These deposits generally consist of laminated silt and clay deposits deposited in proglacial lakes. These mapped deposits are consistent with the overburden geology observed by O'Brien & Gere during the installation of test pits, soil borings and monitoring wells. Overburden Geology at the Site can generally be characterized as a dark brown sandy loam topsoil from approximately 0-1 feet bgs at unpaved areas, grading to fine/medium grained silty sand alternating with dense clay/silty clay that contained some coarse lenses of sand and gravel lenses observed at depths generally from 1-8 feet bgs, grading to finer grained dense silt and clay and dense till observed generally above bedrock at depths of 8-10 feet bgs. Bedrock was encountered at the Site at depths of approximately 10 feet bgs.

Evidence of non-native materials including brick fragments, coal, ash and what appeared to be spent foundry sand were observed in approximately half of the soil borings installed by O'Brien & Gere. The distribution of the borings where these materials were observed was widespread and not limited to specific areas of the Site. These materials are consistent with materials which would have been used during Sargent & Greenleaf's tenure based on historic Site operations detailed in the SGD Phase I ESA; however, O'Brien & Gere cannot conclusively determine if these materials were the result of on-Site disposal and/or use or if these materials originated from an off-Site source. As previously mentioned, Test Trench Logs, Geoprobe Boring Logs and Monitoring Well Boring Logs are provided as Appendices C, D and F, respectively.

### 4.3.2 Bedrock Geology

The bedrock beneath the Site is mapped as the Rochester Shale Formation according to the Geologic Map of New York State (Fisher, D.W., Y.W. Isachsen, and L.V. Rickard., 1970). This Silurian age member of the Clinton Group is light to dark gray, fine grained, dolomitic mudstone. The bedrock that O'Brien & Gere observed during installation of the five bedrock monitoring wells is consistent with the mapped description provided for this area. Bedrock was initially encountered at an approximate depth of 10 feet bgs and monitoring wells were completed to a maximum depth of approximately 35 feet bgs. The dolomitic mudstone that was encountered during installation of the monitoring wells was generally fractured and was observed throughout the length of the core samples collected during installation of three of the wells (MW-5, MW-8 and MW-9). Several of these fractures exhibited evidence of water movement through the

fractures (e.g., clay and iron staining was observed within the fractures). The cores were logged by an O'Brien & Gere geologist and the observations were recorded on Monitoring Well Test Boring Log Forms provided as Appendix F.

## 4.4 SITE HYDROGEOLOGY

Two Site wide rounds of groundwater samples were collected by O'Brien & Gere in the fall of 2008 (September 30, 2008 through October 6, 2008) and in the winter of 2009 (January 15, 2009 through January 20, 2009). Groundwater quality was evaluated during these two events by sampling the eight competent, existing on-Site wells (RIZ-3, RIZ-4, RIZ-7, RIZ-9, OW-101, MW-1, MW-3 and MW-4) and by sampling the five new perimeter bedrock monitoring wells (MW-5 through MW-9). Prior to initiating groundwater sampling, the wells were checked for the presence of LNAPL and DNAPL and water level measurements were obtained utilizing an electronic water level indicator.

### 4.4.1 Overburden Groundwater Hydrology

Overburden Site monitoring wells installed during previous investigations were completed to depths of approximately 10 feet bgs at the overburden/bedrock contact. During the two monitoring well gauging events conducted by O'Brien & Gere, water levels in these wells were gauged at depths between approximately 7.5 to 9.5 feet bgs in the fall of 2008 and 5 to 8.5 feet bgs in the winter of 2009. The exception was the indoor well (OW-101) where water levels were gauged deeper; 11.29 feet bgs in the fall of 2008 and 9.81 feet bgs in the winter of 2009. Water found in overburden at the Site was typically encountered above the dense fine grained soils and till present above bedrock and is likely the result of local storm water recharge (e.g., perched water). Seasonal groundwater elevation variations observed in the overburden are consistent since the fall 2008 elevations were recorded after a dry summer. The deeper, and apparently localized, water levels observed at OW-101 are likely the result of the surrounding building and foundation structure(s) affecting (i.e., slowing) local groundwater recharge beneath the building.

On the basis of water levels gauged during the most recent event (January 2009), O'Brien & Gere prepared an Overburden Groundwater Contour Map (presented as Figure 5). Water levels are presented as elevations in feet amsl, derived from the top-of-casing (PVC riser) elevations recorded by the City, during their topographic and boundary survey completed at the Site in November of 2008. A summary of the overburden groundwater elevations for the winter 2009 monitoring event (January 2009) is presented as Table 7. As illustrated on the groundwater contour map, groundwater in overburden flows to the north/northwest, which mimics regional topography, which dips slightly to the west/northwest towards the Genesee River. This is consistent with overburden groundwater flow reported in the previous Site investigations.

### 4.4.2 Bedrock Groundwater Hydrology

The four existing bedrock monitoring wells (MW-1 through MW-4) and five new bedrock monitoring wells were installed at the Site at depths of approximately 35 feet bgs, in the first significant water bearing unit encountered in bedrock. Water levels in these wells were gauged at depths approximately between 16 and 24 feet bgs in the fall of 2008 and 14.5 and 20.5 feet bgs in the winter of 2009. The seasonal variation in groundwater levels observed in the bedrock monitoring wells was consistent with the variation observed in overburden monitoring wells during the fall 2008 and winter 2009 well gauging events.

Consistent with the approach for the overburden groundwater wells, O'Brien & Gere prepared a Bedrock Groundwater Contour Map (presented as Figure 5a) on the basis of the most recent well gauging event conducted in January of 2009. A summary of the bedrock groundwater elevations for the winter of 2009 (January) is also presented on Table 7. Bedrock groundwater at the Site flows to the west and northwest; however, there is a component of flow to the south/southwest on the southern end of the Site. The bedrock was generally fractured, in various orientations, as observed throughout the length of the core samples collected by O'Brien & Gere during installation of three of the wells (MW-5, MW-8 and MW-9). Groundwater flow in fractured bedrock is typically complicated and may have many components of local flow through these fractures, which may explain the bedrock groundwater flow observed at the Site.

### 4.5 ECOLOGY

The Site is located in an urban setting and surrounded by commercial, industrial manufacturing and residential properties within a half mile radius of the Site. Due to the urban nature of the Site a fish and wildlife impact analysis (FWIA), which would have included a survey of the surrounding ecology surrounding ecology at the Site was not conducted (O'Brien & Gere, 2008).

# 5. NATURE AND EXTENT OF CONTAMINATION

The following sections evaluate the data collected during the RI. The evaluation is organized by the media that was analyzed (i.e., PCB wipe samples, surface soil, subsurface soil, groundwater, soil gas and vapor intrusion samples) and is subsequently broken down by the laboratory analysis for each compound of concern (i.e., VOCs, SVOCs, Pesticides, PCBs and Metals).

The data validation performed by EDV indicated that the analytical data for samples collected at the Site during the RI are valid and usable with some exceptions as described in the validator's qualifiers provided in the DUSRs (included as Exhibit C). These exceptions, including the applicable laboratory and data validators' data qualifiers are presented on the five data summary tables (Table 8 through Table 12). Endnotes provided with each of the tables are also described in the text below. On the basis of the data validation, the data were deemed of sufficient quality to make informed decisions at the Site.

## 5.1 GEOPHYSICAL SURVEY RESULTS

A copy of the Geophysical Study Report, provided by Geomatrix, discusses the survey results and includes a colored contour map of the EM survey response data. A copy of the report is included herein as Exhibit A.

### 5.1.1 Electromagnetic Survey

The EM survey identified four large suspect anomalies at the Site, identified as Anomalies A through D.

- Anomaly A and Anomaly B are depicted at 50E/450N and 50E/425N, respectively, on the survey reference grid provided as Figure 1 in the Geomatrix Report. These anomalies were detected on the west side of the Site building along Seneca Avenue in the area where two abandoned USTs (10,000-gallon and 6,000-gallon) that reportedly formerly contained heating oil were located. The EM survey response was strongly indicative that the two large anomalies represent USTs beneath the subsurface in this area.

- A third large anomaly, Anomaly C, was detected directly south of the abandoned guard shack at 50E/200N. The EM data at this location was inconclusive and could not definitively identify if the anomaly was associated with a UST.

- Anomaly D, was located on the south end of the Site, at 175E/50N. This area is southeast of the mapped location of the historic gas station formally present on the south end of the Site. The EM data at this location was also inconclusive regarding the correlation of an anomaly indicative of a UST. However, a linear feature, extending to the northeast, away from the anomaly may represent an underground pipe or conduit. Two smaller north/south linear features (also located to the northeast of Anomaly D) may be associated with steel present in concrete foundation structures or former pump islands.

The EM survey identified several additional smaller suspect anomalies that were not identified with a letter nomenclature in the Geomatrix report.

- A small anomaly located at 225E/50N was detected near the mapped historic locations for one of the Site's former bedrock supply wells (BSW#1) and a bedrock monitoring well (MW-2). This anomaly may be indicative that the steel well casings for both wells are still present. The wells are presumed destroyed because they could not be located during the monitoring well integrity assessment.

- The reason for a small linear anomaly that was detected in an east/west orientation at 275E/50N could not be explained.

- The additional anomalies detected around the perimeter of the Site are attributed to magnetic interference relating to parked cars, the steel chain link fence that surrounds portions of the Site and interference from metal within the building structure.

### 5.1.2 Ground Penetrating Radar Survey

Ground penetrating radar was used to further characterize the anomalies detected by the EM surveying equipment. The GPR response at Anomaly A and B further suggested that these anomalies were USTs. No further additional conclusive information could be interpreted from the GPR response data after surveying the remainder of the EM anomalies at the Site.

GPR equipment was also used to survey the subsurface in the east loading dock where a historic heating oil tank was identified by O'Brien & Gere during a review of historic Site engineering drawings (discussed in Section 3.1.1). This tank was not identified as a UST or AST on the historic drawings. The GPR survey in the loading dock was limited by the large amount of materials stored in the area at the time of the survey and only approximately 50% of the area could be assessed. The GPR survey did not detect any evidence of USTs in the dock.

### 5.1.3 Modification of Subsurface Sampling Program on the Basis of Geophysical Survey Results

Based on the results of the geophysical survey, the planned locations for excavation of four of the test trenches (TP-06, TP-05, TP07 and TP-03) were moved to correspond with the four anomalies identified during the EM survey. A fifth test trench (TP-02), was excavated at the small linear anomaly, oriented east/west at 275E/50N, which could not be explained on the basis of historic knowledge of the Site. Soil borings were distributed throughout the parking lot on the south end of the Site, the loading dock on the east side of the Site, and the small strip of grass/pavement between Seneca Avenue and the Site building on the west side of the Site, to further assess the remaining unidentified geophysical anomalies. The results of the test pit and Geoprobe investigations are discussed in Sections 5.4 below.

## 5.2 PCB WIPE SAMPLE RESULTS

O'Brien & Gere collected five PCB wipe samples at the Site during the RI investigation. A summary of the locations where PCB wipe samples were collected and a rationale for collection of each of the samples is provided in Table 4 (presented within the text of Section 3.1.5). The locations where PCB wipe samples were collected are illustrated on Figure 4. Wipe samples were analyzed for PCBs using USEPA Method 8082. A summary of the analytical results for the PCB wipe samples is presented on Table 8. There currently are no generic USEPA or NYSDEC Standards, Criteria and Guidance (SCGs) to compare with the wipe sample analytical results.

Two PCB aroclors (aroclor 1260 and aroclor 1254) were detected on building surfaces at the Site. One or more of these aroclors were detected on three of the wipe samples collected at the Site (PCB-01-091508, PCB-02-091508 and PCB-03-091508). Aroclors 1221, 1232, 1248, 1016 and 1242 were also detected at PCB-01-091508, however these detections (1 microgram per wipe [ug/wipe]) were flagged with quality control issues by the data validator and the results are to be used cautiously.

Two of the samples where PCBs were detected (PCB-01-091508 and PCB-03-091508), were collected from stained floors near active machining areas associated with the current Site tenant(s). The machine shops are located adjacent to the east loading dock on the east side of the Site building. One of the wipe samples (PCB-01-091508) was collected from a stained surface beneath the waste oil ASTs, reportedly used by the current tenant to store fuel (used oil) for the shop's waste oil burning furnace. The fuel oil for the waste oil furnace is reportedly provided by local auto repair shops (SGD, 2007). The third wipe sample where PCBs were detected (PCB-02-091509), was collected from a stain on the floor observed near a furnace on the south side of the Site building (within the original 1920 building structure).

PCBs were not detected from the other two wipe samples (PCB-04-091608 and PCB-05-091608). One of these samples (PCB-04-091608) was collected from the floor drain adjacent to the previously mentioned machine shop waste oil tanks (ASTs).

### 5.3 SURFACE SOIL SAMPLE RESULTS

O'Brien & Gere collected three surface soil samples at the Site during the RI. A summary of the surface soil samples and QA/QC samples that were collected at the Site is presented on Table 3. Surface soil samples were analyzed for the following laboratory analysis:

- TCL SVOCs by USEPA Method 8270 + 30 TICS
- Pesticides by USEPA Method 8081
- TAL Metals by various USEPA Methods via SW846.

The surface soil sample analytical results are summarized on Table 9 and Table 10. The surface soil analytical results were compared to the following SCGs:

- Unrestricted Use Soil Cleanup Objectives (SCOs) referenced in the NYSDEC *General Remedial Program Requirements*, presented in the New York State Codes, Rules and Regulations; Title 6, Chapter IV, Subpart 375 (Part 375), Table 375-6.8(a)
- Restricted Commercial Use SCOs referenced in Part 375, Table 375-6.8(b).

Results of the surface soil sampling are discussed below. A summary of the sample locations (and analytical results) where surface soil sample analytical results exceeded the Part 375 Unrestricted Use SCOs is presented on Figure 6.

#### 5.3.1 SVOCs

Sixteen SVOCs, including one or more of the following, 2,4-dinitrophenol, 4-methylphenol (detected in an equipment blank collected at SS-01), 4-nitrophenol, acenaphthene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene,

phenanthrene, and pyrene, were detected in all three of the surface soil samples (SS-01-091508, SS-02-091508, SS-03-091508). Four of these SVOCs, including benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene and indeno(1,2,3-cd)pyrene were detected in all three surface soil samples (SS-01-091508, SS-02-091508, SS-03-091508) at concentrations above the Part 375 Unrestricted Use SCOs. Benzo(a)anthracene was also detected at two locations (SS-01-0915-08 and SS-03-091508) at concentrations above the Part 375 Unrestricted Use SCOs. None of the other detected SVOCs were found at concentrations above the Part 375 Unrestricted Use SCOs.

Results were also compared to the Part 375 Restricted Commercial Use SCOs. Benzo(a)pyrene was detected in all three surface soil samples (SS-01-091508, SS-02-091508, SS-03-091508) at concentrations above the Part 375 Restricted Commercial Use SCOs. Benzo(b)fluoranthene was detected at one location (SS-03-091508) at a concentration (8,400 ug/kg) above the Restricted Commercial Use SCO (5,600 ug/kg). None of the other detected SVOCs were found at concentrations above the Part 375 Restricted Commercial Use SCOs.

### 5.3.2 Pesticides

Seven pesticides, including one or more of the following, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, endosulfan I, endrin and gamma-chlordane were detected in two of the surface soil samples (SS-01-091508 and SS-03-091508). Two of these pesticides, 4,4'-DDD and 4,4'-DDE, were detected in both surface soil samples (SS-01-091508 and SS-03-091508) at concentrations above the Part 375 Unrestricted Use SCOs. The remaining pesticides detected in the surface soil samples were found at concentrations below the Part 375 Unrestricted Use SCOs. None of the pesticide detected in the three surface soil samples were found at concentrations above the Part 375 Restricted Commercial Use SCOs.

### 5.3.3 Metals

Twenty metals, including one or more of the following, aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, silver, vanadium and zinc were detected in all three of the surface soil samples (SS-01-091508, SS-02-091508, SS-03-091508). Three of these metals (copper, lead and zinc) were detected at all three surface soil samples (SS-01-091508, SS-02-091508 and SS-03-091508) at concentrations above the Part 375 Unrestricted Use SCOs. Silver, was detected at only two sample locations, SS-02-091508 (4.2 milligrams per kilogram [mg/kg]) and SS-02-091508 (3.5 mg/kg), at concentrations above the Unrestricted Use SCO (2 mg/kg). Mercury was only detected at one surface soil sample location (SS-03-091509) at a concentration (0.24 mg/kg) above the Unrestricted Use SCO (0.18 mg/kg). The remaining metals detected in surface soil samples collected at the Site were found at concentrations below the Part 375 Unrestricted Use SCOs.

When compared to the Restricted Commercial Use SCOs, copper was the only metal detected at a concentration (337 mg/kg) above the Restricted Commercial Use SCO (270 mg/kg) at one sample location (SS-02-091508). The remaining metals detected in the surface soil samples were found at concentrations below the corresponding Part 375 Restricted Commercial Use SCOs.

The laboratory results for chromium for all soil samples collected at the Site represent the *total* detected chromium concentration in a sample, in accordance with the TAL used for the

investigation for the requested metals laboratory analysis. The results (total chromium) do not distinguish between hexavalent and trivalent chromium, as the SCOs are currently presented in Part 375. Therefore, total chromium concentrations detected in soil samples at concentrations above the lower of either of the two SCOs (i.e., hexavalent chrome) were not flagged (i.e., shaded) on the soil sample summary tables (Table 9 and Table 10) as an exceedence, since the data does not confirm that the detected concentration is representative of only the hexavalent chromium present in the sample. Detections of total chromium in soils sampled at the Site, were widespread and detected at every surface soil, test trench and Geoprobe sample location where a metals sample was collected. A summary of the soil samples where metals analysis was requested is presented on Table 3. Total chromium concentrations for the three surface soil samples collected at the Site ranged from 9.5 mg/kg detected at SS-01, to 26.7 mg/kg detected at SS-03.

### 5.4 SUBSURFACE SOIL SAMPLE RESULTS

O'Brien & Gere collected subsurface soil samples from five of the seven test trenches and twenty-four Geoprobe soil borings as described in Sections 3.1.6 and 3.1.7. A summary of the samples and the QA/QC samples that were collected is presented on Table 3. Subsurface soil samples were analyzed for the following laboratory analysis:

- TCL VOCs by USEPA Method 8260 + MTBE + 30 TICS
- TCL SVOCs by USEPA Method 8270 + 30 TICS
- PCBs by USEPA Method 8082
- Pesticides analysis by USEPA Method 8081 (for only two soil samples)
- TAL Metals by various USEPA Methods via SW846.

The subsurface soil sample analytical results are summarized in Table 9 and Table 10. The subsurface soil analytical results were compared to the following SCGs:

- Unrestricted Use SCOs referenced Part 375, Table 375-6.8(a)
- Restricted Commercial Use SCOs referenced in Part 375, Table 375-6.8(b).

A summary of the sample locations (and analytical results) where subsurface soil sample analytical results (i.e., Geoprobe samples and test trench samples) exceeded the Part 375 Unrestricted Use SCOs is presented on Figure 6.

#### 5.4.1 Test Trench Results

Seven test trenches were installed at the Site at suspect locations identified in previous studies, at locations where potential subsurface anomalies were identified by the geophysical survey, and at locations where groundwater monitoring wells (installed during previous investigations) were destroyed or had become obscured. The following summarizes the subsurface features of interest encountered during excavation of the test trenches:

- TP-01 was installed at the approximate location of the former gasoline station in the south parking lot on the south end of the Site. A small unidentified concrete structure (e.g., a small concrete footer or pad) was encountered in this test pit; however, no evidence of USTs or the gas station foundation was encountered.

- TP-02 was installed where a small linear anomaly was detected by the EM equipment during the Geophysical Survey. This anomaly was oriented in an east west fashion and mapped at 275E/50N in the Geophysical Survey Report (Exhibit A). Two parallel steel pipes, approximately 2 inches in diameter, were encountered at approximately 3 feet bgs during excavation of this test pit. The pipes were oriented in an east west fashion parallel to Norton Street. These pipes may be associated with the former bedrock supply well for the facility (BSW#1) that was historically mapped in this area.

- TP-03 was installed at the location of Anomaly D, a large anomaly identified by the EM equipment located on the south end of the Site (illustrated at 175E/50N on the map provided with the Geophysical Survey Report [Exhibit A]). No subsurface features were encountered in this test pit that would explain the detected EM anomaly.

- TP-04 was installed on the west side of the Site to investigate the presence of a historic UST mapped in this area. No evidence of the UST was encountered during excavation of this test pit.

- TP-05 was also installed on the west side of the Site to investigate the presence of a historic UST mapped in the area and to further evaluate Anomaly B detected in the area by the EMS and GPR equipment during the Geophysical Survey. A UST was encountered approximately 5 feet bgs during excavation of the test pit. Portions of the sidewall of the tank were observed to be rusted through and water was observed exiting the tank from the holes. No odors or sheen were observed by O'Brien & Gere from the water. The tank was reportedly abandoned in place by filling the tank with concrete (SGD, 2007), however at least portions of the tank still had void space as evidenced by the presence of water observed exiting the tank through the perforated side.

- TP-06 was installed perpendicular to TP-05 to investigate the presence of a second UST, presumably located in this area based on evidence provided in historic reports, and a second large anomaly (Anomaly A) that was detected, during the Geophysical Survey. A second UST was encountered approximately 2 feet bgs during excavation of the test pit. The second tank was approximately 7 feet in diameter and appeared to be competent (e.g., rust through or tank perforations were not observed by O'Brien & Gere on the portion of the tank exposed during excavation). It could not be determined if the tank was filled with concrete as reported in previous investigations.

- TP-07 was installed directly south of the abandoned guard shack where a large anomaly (Anomaly C) was detected during the Geophysical Survey (mapped at 50E/200N in the Geophysical Survey Report [Exhibit A]). A uniform concrete pad was encountered directly beneath the asphalt which prevented the excavation from continuing.

The contaminants detected in the five soil samples collected from the test pits are discussed below.

VOCs

Three VOCs, including acetone, dichloromethane (methylene chloride) and tetrachloroethene, were detected in one test trench sample (TP-6-091708 [6.5']). A fourth VOC, trichloroethylene

(trichloroethene), was detected in the field duplicate collected at TP-6 (TP-6-091708 Field DUP [6.5']). Acetone and dichloromethane (methylene chloride) were detected in the equipment blank collected at TP-03. The acetone was determined to be a laboratory artifact based on the data validator's review, which resulted in the validator flagging the data for these compounds (detected at TP-01, TP-02, TP-03 and TP-04) with a "U" qualifier (i.e., data usable as a non-detect) in the DUSRs. This analytical data, including the validator's qualifiers, is presented on Table 9 and Table 10.

The concentrations of the VOCs detected at TP-6 were below the Part 375 Unrestricted Use and Restricted Commercial Use SCOs. VOCs were not detected in the remaining four test trench samples.

SVOCs

Eighteen SVOCs, including one or more of the following, 1,2-benzophenanthracene (chrysene), 2,4-dinitrophenol, 4-bromophenyl phenyl ether, 4,6-dinitro-2-methylphenol, 4-nitrophenol, acenaphthene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, phenanthrene and pyrene, were detected in all five of the soil samples collected from the test trenches. Five of these SVOCs (1,2-benzophenanthracene [chrysene], benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene and indeno(1,2,3-cd)pyrene) were detected in one of the test trench soil samples (TP-03-091708 [4.5']) at concentrations above the Part 375 Unrestricted Use SCOs. Only one of the SVOCs (benzo(a)pyrene), detected at TP-03-091708 [4.5']), was detected at a concentration (2,000 ug/kg) that exceeded the Part 375 Restricted Commercial Use SCO (1,000 ug/kg). The remaining SVOCs detected in the test pit soil samples were found at concentrations below the Part 375 Unrestricted Use and Restricted Commercial Use SCOs.

The SVOCs detected at TP-03, at concentrations that exceed the Unrestricted Use SCOs, are consistent with SVOCs typically associated with fuel oil or diesel fuel. TP-03 is located near the gas station that was historically mapped on the south end of the Site (SGD, 2007).

PCBs

One PCB aroclor (aroclor 1254) was detected at TP-6-091708 (6.5') at a concentration (200 ug/kg), above the Part 375 Unrestricted Use SCO for PCBs (100 ug/kg); however, the detected concentration is below the Part 375 Restricted Use SCO (1,000 ug/kg). PCBs were not detected in any of the other test trench soil samples collected at the Site.

This may suggest that the UST unearthed during excavation of this test trench formerly contained oils that contained PCBs which were released to the subsurface.

Metals

Twenty-one metals, including one or more of the following, aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, silver, sodium, vanadium and zinc were detected in all five of the test trench soil samples. All five test trench soil samples (TP-01-091708 [2'], TP-02-091708 [4'], TP-03-091708 [4.5'], TP-04-091708 [5'] and TP-6-091708 [6.5']) had one or more

of the following detected metals, arsenic, cadmium, copper, lead, mercury, nickel and zinc, at concentrations that exceed the Part 375 Unrestricted Use SCOs. Copper, detected at one location (TP-6-091708 [6.5']) at a concentration of 3,660 mg/kg was the only metal that exceeded the Part 375 Restricted Commercial Use SCO (270 mg/kg). The detected concentrations for the remaining metals were below the Part 375 Unrestricted Use and Restricted Commercial Use SCOs.

The presence of metals in test trench samples were widespread and were detected throughout test trench soil samples collected at the Site. Consistent with the approach for surface soil samples, sample results for total chromium that were detected above the SCO for hexavalent chromium were not flagged (i.e., shaded) as an SCO exceedence on Tables 9 and 10. Total chromium concentrations for the five test pit soil samples collected at the Site ranged from 4.8 mg/kg detected at TP-04, to 9.6 mg/kg detected at TP-6.

Naturally occurring background concentrations of metals in soil vary widely. The NYSDEC Technical and Administrative Guidance Memorandum #4046 *Determination of Soil Cleanup Objectives and Cleanup Levels* (TAGM 4046) provides a range of eastern United States background concentrations for metals found in the region according to a 1984 survey of reference material by E. Carol McGovern of NYSDEC (NYSDEC, 1994). The metals detected at the Site in subsurface soils generally fell within this range; however, without the benefit of a Site specific inorganic background study a conclusion cannot be drawn if the metals found at the Site are consistent with local urban background levels for the area or are the result of a local source.

### 5.4.2 Geoprobe Boring Results

The contaminants detected in the soil samples collected from the twenty-four Geoprobe borings are discussed below.

VOCs

Seventeen VOCs, including one or more of the following, 1,1,2-trichloroethane, 1,1-dichloroethylene (1,1-dichloroethene), 1,2-dichloroethane, 2-butanone (methyl ethyl ketone), acetone, carbon disulfide, chlorinated fluorocarbon (freon 113, 1,1,2-trichloro-1,2,2-trifluoroethane), cis-1,2-dichloroethene, dichloromethane (methylene chloride), ethylbenzene, isopropylbenzene, methylcyclohexane, tetrachloroethene, trans-1,2-dichloroethene, trichloroethylene (trichloroethene), vinyl chloride, and xylene's were detected in soil samples collected from twenty-two of the Geoprobe Soil Borings (SB-01 through SB-15, SB-17, SB-18 and SB20 through SB-24). VOCs were not detected in soil samples collected at SB-16 and SB-19.

Four of the detected VOCs were found at concentrations that exceeded the Part 375 Unrestricted Use SCOs. These VOCs included acetone, at two locations (SB-06 and SB-17); cis-1,2-dichloroethene at two locations (SB-21 and SB-22); trichloroethylene (trichloroethene) at two locations (SB-17 and SB-24) and vinyl chloride, at one location (SB-21). The concentrations of the remaining detected VOCs were below the Part 375 Unrestricted Use and Restricted Commercial Use SCOs.

Acetone was detected in one of the three trip blanks and both equipment blanks collected during installation of the Geoprobe soil samples. Acetone is a common laboratory solvent and the resulting detections of acetone in these QA/QC samples resulted in the data validator flagging the

data for acetone at several soil boring locations with a "U" qualifier (i.e., data usable as a non-detect) in the DUSRs. This analytical data, including the validator's qualifiers, is presented on Table 9 and Table 10.

The distribution of the three chlorinated solvents (cis-1,2-dichloroethene, trichloroethene and vinyl chloride) detected in soils at concentrations that exceed the Part 375 Unrestricted Use SCOs, is clustered on the central west portion of the Site in borings that were installed beneath the Site building (SB-17, SB-21, SB-22 and SB-24). These samples were collected from soil borings located upgradient and/or side gradient (on the basis of the overburden groundwater contour map presented as Figure 5) to the historic spill of 55-gallons of TCE reported in the east loading dock. This TCE spill was documented in the SGD Phase I Report and the Phase II Environmental Investigation Report provided by AEL (AEL, 1996).

SVOCs

Twenty-three SVOCs, including one or more of the following, 1,2-benzphenanthracene (Chrysene), 2,4-dinitrophenol, 2-Methylnaphthalene, 4,6-Dinitro-2-methylphenol, acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, bis(2-ethylhexyl) phthalate, dibenzo(a,h)anthracene, dibenzofuran, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, N-nitrosodiphenylamine, pentachlorophenol, phenanthrene and pyrene, were detected in soil samples collected from twenty of the Geoprobe Soil Borings (SB-01 through SB-03, SB-05, SB-06, SB-07, SB-09 through SB-18, SB-20, SB-21, SB-23 and SB-24). SVOCs were not detected at SB-04, SB-08, SB-19 and SB-22.

Samples collected at three borings (SB-03, SB-10 and SB-11) contained SVOCs at concentrations above the Part 375 Unrestricted Use SCOs. These SVOCs included, 1,2-benzophenanthracene (chrysene), benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and indeno(1,2,3-cd)pyrene detected at SB-03; and pentachlorophenol detected at SB-10 and SB-11. The remaining SVOCs detected in the Geoprobe boring soil samples were found at concentrations below the Part 375 Unrestricted Use SCOs.

Three SVOCs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene) were detected at only one boring (SB-03) at concentrations above the Restricted Commercial Use SCOs. The remaining SVOCs detected in the Geoprobe boring soil samples were found at concentrations below the Part 375 Restricted Use SCOs.

SVOCs were detected in SB-03 at concentrations that exceed the Unrestricted Use SCOs and are consistent with SVOCs typically associated with fuel oil or diesel fuel. SB-03 is located adjacent to the gas station that was historically mapped on the south end of the Site (SGD, 2007). Pentachlorophenol, also detected at two borings (SB-10 and SB-11) at concentrations exceeding the Part 375 Unrestricted Use SCO, was detected in the east loading dock. This synthetic chemical, introduced in the 1930's, was commonly used as a wood preservative and biocide in the paper, pulp and textile industry; however, has very limited approved use today (since approximately the 1980's) due to the product's toxicity. Use of pentachlorophenol at the Site was not documented in any of the historic documents reviewed by O'Brien & Gere.

PCBs

One PCB aroclor (aroclor 1254) was detected at SB-07-091808 (6-8') at a concentration (440 ug/kg) above the Part 375 Unrestricted Use SCO for PCBs (100 ug/kg); however, the detected concentration was below the Part 375 Restricted Use SCO (1,000 ug/kg). PCBs were not detected in any of the other Geoprobe soil samples collected at the Site.

The detected concentration of aroclor 1254 (440 ug/kg) at SB-07 is consistent with the concentration detected in the adjacent test trench soil sample (200 ug/kg, detected at TP-6-091708 [6.5']). This supports the presumption that the UST unearthed during excavation of the test trench (or the adjacent UST) may have contained/stored oils that contained PCBs that were released to the subsurface. During installation of the test trenches, O'Brien & Gere observed one of the tanks to be in poor condition and historic Site documents indicated that one of the tanks failed a leak test prior to decommissioning and abandoning the tank in place (SGD, 2007). Historic documents indicated that the tanks were formerly used to store petroleum products (SGD, 2007), alternative uses of the tanks to store products that may have contained PCBs were not documented in the historic Site documents reviewed by O'Brien & Gere.

Pesticides

Two pesticide samples were collected from two of the Geoprobe soil borings (SB-08 and SB-20). Eight pesticides, including 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, endosulfan II, endrin, endrin ketone, gamma-chlordane and heptachlor epoxide were detected in one of the samples (SB-08-091808 [2-4']). No pesticides were detected at SB-20. Two of the pesticides (4,4'-DDD and 4,4'-DDE), detected at SB-08, were detected at concentrations above the Part 375 Unrestricted Use SCOs. The remaining detected pesticides, were found at concentrations below the Part 375 Unrestricted Use and Restricted Commercial Use SCOs.

The pesticides that were detected at SB-08 were consistent with the pesticides detected in two (SS-01-091508 and SS-03-091508) of the three surface soil samples. The three samples were collected from the limited green space areas of the Site (e.g., grass covered, not covered by the Site building) suggesting that historic application of these pesticides at the Site has infiltrated the subsurface; however, insufficient data is available to confirm this assumption. The data does confirm that pesticides are present in surface and subsurface soils at concentrations in excess of the Part 375 Unrestricted Use SCOs.

Metals

Twenty metals, including one or more of the following, aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, sodium, vanadium and zinc were detected in all twenty-four Geoprobe borings. Of these metals, up to four (copper, lead, mercury and zinc) were detected at ten of the Geoprobe soil borings (SB-1, SB-5 through SB-12 and SB-21) at concentrations that exceeded the Part 375 Unrestricted Use SCOs. Copper was the only metal, detected at two locations (SB-7 at 2,500 mg/kg and SB-8 at 1,730 mg/kg) at concentrations that exceeded the Part 375 Restricted Commercial Use SCO (270 mg/kg). The detected concentrations for the remaining metals were below the Part 375 Unrestricted and Restricted Commercial Use SCOs.

The presence of metals is generally widespread and was detected throughout Geoprobe soil samples. Sample results for total chromium that were detected above the SCO for hexavalent chromium were not flagged (i.e., shaded) as an SCO exceedence on Tables 9 and 10. Total chromium concentrations detected at the twenty-four Geoprobe soil samples ranged from 4 mg/kg detected at SB-14, to 14.4 mg/kg detected at SB-6.

### 5.5 GROUNDWATER SAMPLE RESULTS

O'Brien & Gere collected two rounds of groundwater samples at the Site from five overburden monitoring wells and eight bedrock monitoring wells. A summary of these samples and the QA/QC samples that were collected is presented on Table 3. Groundwater samples were analyzed for the following laboratory analysis:

- TCL VOCs by USEPA Method 8260 + MTBE + 30 TICS
- TCL SVOCs by USEPA Method 8270 + 30 TICS
- PCBs by USEPA Method 8082
- Pesticides analysis by USEPA Method 8081 (for only seven samples)
- TAL metals by various USEPA Methods via SW846.

The groundwater analytical results are summarized in Table 11. The groundwater analytical results were compared to the following SCGs:

- Class GA Groundwater standards and guidance values referenced in Table 1 of the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 document titled *Ambient Water Quality Standard and Guidance Values and Groundwater Effluent Limitations* (TOGS 1.1.1) dated June 1998 (as amended by addendum dated April 2000 and June 2004).

Results of the groundwater sampling are discussed below. A summary of the sample locations (and analytical results) where groundwater sample analytical results exceeded the TOGS 1.1.1 groundwater standards and guidance values is presented on Figure 7.

#### 5.5.1 VOCs

Thirty-two VOCs, including one or more of the following, 1,1,1-trichloroethane, 1,1-dichloroethane, 1,1-dichloroethylene (1,1-dichloroethene), 1,2,4-trichlorobenzene, 1,2-dibromo-3-chloropropane (DBCP), 1,2-dichlorobenzene, 1,2-dichloropropane, 1,4-dichlorobenzene, 2-butanone (methyl ethyl ketone), acetone, benzene, bromodichloromethane, bromomethane, carbon disulfide, chlorinated fluorocarbon (freon 113, 1,1,2-trichloro-1,2,2-trifluoroethane), chloroethane, chloroform, cis-1,2-dichloroethene, cyclohexane, dichloromethane (methylene chloride), ethylbenzene, isopropylbenzene, M-dichlorobenzene (1.3-dichlorobenzene), methyl acetate, methylbenzene (Toluene), methylcyclohexane, methyl tert butyl ether (MTBE), tetrachloroethene, trans-1,2-dichloroethene, trichloroethylene (trichloroethene), vinyl chloride and xylenes were detected in groundwater from all fourteen monitoring wells (MW-1, MW-3 through MW-9, OW-101, RIZ-3, RIZ-4, RIZ-7 and RIZ-9) sampled during the RI.

Fifteen of the detected VOCs were found at concentrations that exceed the TOGS 1.1.1 groundwater standards and guidance values. These VOCs include, 1,1-dichloroethane, at one well (RIZ-4); 1,1-dichloroethylene (1,1-dichloroethene), at two wells (MW-9 and RIZ-4); 1,2-dibromo-3-chloropropane (DBCP), at two wells (MW-5 and MW-8); 1,2-dichloropropane, at one well (RIZ-4); benzene, at five wells (MW-3, MW-4, MW-5, MW-6, MW-7); chloroform, at one well (MW-7); cis-1,2-dichloroethene, at nine wells (MW-1, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, OW-101 and RIZ-4); ethylbenzene, at two wells (MW-3 and MW-6); isopropylbenzene, at two wells (MW-3 and RIZ-7); methylbenzene (toluene), at one well (MW-7); methyl tert butyl ether (MTBE), at two wells (MW-3 and MW-6); trans-1,2-dichloroethene, at three wells (MW-7, MW-9 and RIZ-4), trichloroethylene (trichloroethene), at eight wells (MW-1, MW-4, MW-5, MW-7, MW-8, MW-9, OW-101 and RIZ-4); vinyl chloride, at seven wells (MW-4, MW-5, MW-7, MW-8, MW-9, OW-101 and RIZ-4); and xylenes, at three wells (MW-3, MW-6 and MW-7).

The distribution of VOCs in groundwater was widespread at the Site. All eight bedrock monitoring wells and three of the five overburden monitoring wells had at least one VOC detected at a concentration that exceeded the TOGS 1.1.1 groundwater standards and guidance values. Overburden and bedrock groundwater contour maps based on groundwater elevations gauged during the January 2009 groundwater sampling event are provided as Figure 5 and Figure 5a, respectively. Based on the data, two types of constituents of concern were predominantly found in groundwater sampled at the Site, these were petroleum compounds (benzene, toluene, ethylbenzene and xylene [BTEX] and MTBE) and chlorinated solvents (i.e., 1,2-dichloroethane, trichloroethene and vinyl chloride).

The highest detected concentrations (i.e., concentrations above the TOGS 1.1.1 standards and guidance values) of gasoline constituents (i.e., BTEX and MTBE) were detected in groundwater collected from three monitoring wells on the southern half of the Site (MW-3, MW-6 and MW-7). Benzene was also detected in two bedrock wells on the west side of the Site (MW-4 and MW-5) at concentrations equal to or exceeding the TOGS 1.1.1 groundwater standards and guidance values. Gasoline constituents (BTEX and MTBE) were also detected at lower concentrations (below the TOGS 1.1.1 standards and guidance values) at two overburden wells and one bedrock well on the north end of the Site (OW-101, RIZ-4 and MW-1, respectively) and one bedrock monitoring well on the south end of the Site (MW-9). This distribution would suggest that the cluster of historic and currently operating auto repair/gas stations on the south end of the Site, with documented historic petroleum releases, have affected bedrock groundwater quality. Overburden groundwater appears to be affected to a lesser degree; BTEX and/or MTBE was detected below the TOGs 1.1.1 standards and guidance values at two of the Sites overburden wells (OW-101, and RIZ-4) and not detected in the three remaining overburden groundwater monitoring wells (RIZ-3, RIZ-7 and RIZ-9). Strong gasoline odors were noted during sampling at MW-3 and MW-6. Slight odors, described as petroleum and/or chemical odors (not specifically gasoline), were noted by O'Brien & Gere during sampling of wells RIZ-4, RIZ-7, RIZ-9 and MW-9.

The three most common VOCs detected in Site wells at concentrations above the TOGS 1.1.1 groundwater standards and guidance values were chlorinated solvents (cis-1,2-dichloroethene detected at nine wells, trichloroethene detected at eight wells and vinyl chloride detected at seven wells). A summary of the well locations where each of these solvents were detected, the maximum detected concentration at each well, and the corresponding TOGS 1.1.1 standard or guidance value is presented on Table 12.

The highest detected concentrations of two of the chlorinated solvents (cis-1,2-dichloroethene and trichloroethene) were detected at two upgradient bedrock monitoring wells located on the southeast corner of the Site (MW-7 and MW-9). The highest detected concentrations of the third solvent (vinyl chloride) were detected at two overburden wells in the center of the Site adjacent to the east loading dock (RIZ-4 and OW-101) and a downgradient bedrock well (MW-4). The presence and distribution of these chlorinated solvents is consistent with the historic release of 55-gallons of TCE reported in the east loading dock in the late 1970's / early 1980's during a former building occupants (H.P. Stein) tenure (AEL, 1996); however, the significantly higher concentrations of cis-1,2-dichloroethene and trichloroethene detected in the two upgradient bedrock wells (MW-7 and MW-9), suggests the presence of a second local off Site source.

### 5.5.2 SVOCs

Twenty-seven SVOCs including one or more of the following, 1,2-benzophenanthracene (chrysene), 1,2-dicholorobenzene, 1,4-dichlorobenzene, 2-methylnaphthalene, acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, benzyl butyl phthalate (butyl benzyl phthalate), bis(2-ethylhexyl) phthalate, dibenzo(a,h)anthracene, diethyl phthalate, di-n-butyl phthalate, di-n-octyl phthalate, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, m-dichlorobenzene, naphthalene, n-nitrosodiphenylamine, phenanthrene, phenol and pyrene were detected in groundwater from all fourteen monitoring wells (MW-1, MW-2 through MW-9, OW-101, RIZ-3, RIZ-4, RIZ-7 and RIZ-9) sampled during the RI.

Samples collected at three monitoring wells (MW-1, MW-8 and RIZ-9) contained seven SVOCs (1,2-benzophenanthracene (chrysene), benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, bis(2-ethylhexyl) phthalate and indeno(1,2,3-cd)pyrene) and 1,2-dicholorobenzene (only at MW-1) at concentrations above the corresponding TOGS 1.1.1 groundwater standards and guidance values. Two of these SVOCs (1,2-benzophenanthracene (chrysene), 1,2-dicholorobenzene) and a third SVOC, m-dichlorobenzene, were detected at MW-4 at concentrations above the TOGS 1.1.1 groundwater standards and guidance values. One SVOC (m-dichlorobenzene) was detected at MW-3 and one SVOC (indeno(1,2,3-cd)pyrene) was detected at MW-5, MW-6, MW-7 and MW-9 at concentrations above the TOGS 1.1.1 groundwater standards and guidance values. The remaining SVOCs detected at these wells were found at concentrations below the corresponding TOGS 1.1.1 standards and guidance values. Four wells (OW-101, RIZ-3, RIZ-4 and RIZ-7) did not have any SVOCs detected at concentrations above the TOGS 1.1.1 standards and guidance values. Slight odors, described as petroleum and/or chemical odors (not specifically gasoline), were noted by O'Brien & Gere during sampling of wells RIZ-4, RIZ-7, RIZ-9 and MW-9.

The majority of the SVOCs detected at MW-1, MW-4, MW-8, collected from the north end of the Site adjacent to the east loading dock, and the SVOCs detected at RIZ-9 on the south end of the Site, are consistent with fuel oil or diesel fuel constituents. The east loading dock area formerly contained an oil storage tank mapped on a historic Sargent and Greenleaf drawing. The south end of the Site contained a former gasoline station and at least three gasoline/auto repair stations were located at the perimeter of the south end of the Site with historic storage of fuel oil, waste oil and diesel fuel, and multiple generations of tanks and documented releases (SGD, 2007).

### 5.5.3 PCBs

PCBs were not detected in any of the groundwater samples collected from the eight bedrock monitoring wells and five overburden monitoring wells sampled by O'Brien & Gere.

### 5.5.4 Pesticides

Seven groundwater samples were collected for pesticide analysis during the RI. These samples were collected from monitoring wells MW-1, MW-3, MW-4, MW-5, MW-6, MW-8 and MW-9 during the fall 2008 groundwater sampling event. Up to nine pesticides, including methoxychlor [1,1,1-trichloro-2,2-bis (p-methoxphenyl)-ethane], 4,4'-DDD, 4,4'-DDE, aldrin, alpha-chlordane, endosulfan sulfate, endrin aldehyde, gamma-BHC (lindane), heptachlor and heptachlor epoxide were detected in three (MW-1, MW-3 and MW-4) of the seven monitoring wells where pesticide samples were collected. Pesticides were also detected at MW-9; however, all of the data was flagged by the data validator as UJ (changed to U1 by O'Brien & Gere, see endnotes for Table 11), which indicated that the data had quality control issues and should be used cautiously. Two pesticides, aldrin and endosulfan, were detected at monitoring wells, MW-1 and MW-3, respectively (one pesticide detected in each well), at concentrations above the TOGS 1.1.1 groundwater standards and guidance values. The remaining pesticides that were detected in groundwater were detected at concentrations below the TOGS 1.1.1 groundwater standards and guidance values. Pesticides were not detected at the remaining three wells that were sampled (MW-5, MW-6 and MW-8).

Pesticides were detected in two (SS-01-091508 and SS-03-091508) of the three surface soil samples collected by O'Brien & Gere at the Site and one soil boring SB-08. These three samples were collected from the limited green space areas of the Site (e.g., grass covered, not covered by the Site building) which may suggest that historic application of these pesticides has occurred at the Site and has infiltrated the subsurface. Pesticides were only detected in three of the seven monitoring wells that were sampled. All three wells (MW-1, MW-4 and MW-3) were located on Site. Pesticides were not detected in the three off-Site wells that were sampled (MW-5, MW-6 and MW-8). Only two pesticides were detected at two monitoring wells (one pesticide at each well), MW-1 and MW-3, at concentrations above the TOGS 1.1.1 standards and guidance value. The groundwater data may support the assumption that historic surface applications of pesticides at the Site are the source of the surface soil, subsurface soil and groundwater contamination but the limited number of samples that were collected from each medium is insufficient to confirm this assumption.

### 5.5.5 Metals

Twenty-four metals were detected in groundwater samples collected at the Site (aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, cyanide, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium, vanadium and zinc). One or more of these metals were found in each of the fourteen monitoring wells. Up to seventeen metal constituents (aluminum, antimony, arsenic, beryllium, cadmium, chromium, copper, iron, lead, magnesium, manganese, mercury, nickel, selenium, sodium, thallium and zinc) were detected at all fourteen monitoring wells (MW-1, MW-2 through MW-9, OW-101, RIZ-3, RIZ-4, RIZ-7 and RIZ-9) at concentrations above the TOGS 1.1.1 groundwater standards and guidance values. The detected concentrations for the remaining metals were below the corresponding TOGS 1.1.1 groundwater standards and guidance values.

The presence of metals in soils was generally widespread and was also detected throughout groundwater samples collected at the Site. These metals may be the result of historic casting and foundry operations that were conducted at the Site, improper on-Site disposal of materials associated with these operations, or may also have been present in fill material (ash, bricks, foundry sand and coal) that were observed in numerous soil borings and test pits excavated during the RI.

### 5.6 SOIL GAS SAMPLE RESULTS

Seven soil gas samples were collected at the Site during the RI. A summary of the soil gas samples that were collected at the Site is presented on Table 3. Soil gas samples were analyzed for VOCs using USEPA Method TO-15. A summary of the analytical results for the soil gas samples is presented on Table 12. There currently are no generic USEPA or NYSDEC SCGs to compare with the soil gas sample analytical results.

VOCs, including one or more of the following, dichlorodifluoromethane, trichlorofluoromethane, 1,1,2-trichloro-1,2,2-trifluoroethane, methylene chloride, chloroform, 1,1,1-trichloroethane, benzene, trichloroethene, toluene, tetrachloroethene, ethylbenzene, m-xylene & p-xylene, o-xylene, 1,3,5-trimethylbenzene and 1,2,4-trimethylbenzene were detected at all seven of the soil gas samples collected at the Site. Methylene chloride was detected in the associated method blank for each of the samples and the detections of methylene chloride in the samples may represent a false positive detection. This was noted on the DUSR provided by the data validator and the data for these samples was flagged with a "B".

The purpose of the soil gas sampling program was to evaluate the extent of VOCs in soil gas at the Site and to assess whether there is a potential for off-Site vapor migration. The data suggests that VOCs, that were also detected in soil and groundwater samples collected at the Site, are present in soil gas at the perimeter of the Site. The extent of these contaminants in soil gas cannot be conclusively defined on the basis of the available data provided from the seven samples.

### 5.7 SOIL VAPOR INTRUSION SAMPLE RESULTS

As previously discussed in Section 3.1.14, O'Brien & Gere completed an SVI investigation at the Site and specific surrounding properties in March and April of 2010 (as identified in O'Brien & Gere's January 26, 2010 Work Plan Addendum, approved by the agencies on February 5, 2010) after a preliminary review of the RI data. Details of the SVI investigation including, sampling activities, analytical results, conclusions and recommendations are provided in the *Soil Vapor Intrusion Report* provided as Appendix L.

# 6. QUALITATIVE EXPOSURE ASSESSMENT

## 6.1 CURRENT LAND USE/SENSITIVE RECEPTORS

The Site is located in an urban setting and surrounded by commercial, industrial manufacturing and residential properties within a half mile radius. Human receptors on and in the vicinity of the Site currently include: Site workers and employees of the current building tenants, construction workers/utility contractors, employees at surrounding businesses and surrounding residents.

As part of the RI and previous Site investigations, seven media including, surface soil, subsurface soil, groundwater, stagnant water and sediment contained in on-Site structures (e.g., dry well(s), floor drains and subgrade cistern/vault), asbestos, building surfaces and soil vapor were investigated at the Site. These investigations indicated that all seven media contained elevated concentrations of one or more of the following constituents of concern (COCs): chlorinated solvents, petroleum compounds, metals, asbestos and /or PCBs. Potential exposure pathways for each of these media are described below.

### 6.1.1 Surface Soil

Most of the Site consists of the Site building and parking areas, covered with crushed stone and asphalt, with the remaining small areas of the Site (west of the Site building and on the south end of the Site) covered by grass. Surface soil samples collected at three locations indicate that SVOCs, pesticides and metals are present in surface soils at concentrations above the health risk based SCOs established by the NYSDEC and the NYSDOH (i.e., Part 375 SCOs). Under current Site conditions, potential human exposure pathways include direct contact with affected Site soil in the unpaved areas and grassy areas (e.g., incidental ingestion and dermal contact), leaching of chemicals contained in surface soil to subsurface soil and groundwater (and subsequent human contact with these materials) and volatilization of chemicals to outdoor air. These scenarios would all be expected to occur during non-recurrent incidents and present a relatively short duration of exposure for human receptors.

### 6.1.2 Subsurface Soil

Subsurface soil samples collected at six test pits and twenty-four soil borings indicate that VOCs, SVOCs, PCBs, pesticides and metals are present in subsurface soils at concentrations above the Part 375 SCOs. Under current Site conditions, potential human exposure pathways include direct contact (e.g., incidental ingestion and dermal contact) with affected Site soil during activities that disturb subsurface soils (e.g., construction or landscaping), leaching of chemicals in subsurface soil to groundwater (and subsequent contact with groundwater) and volatilization of chemicals in subsurface soil to overlying indoor and/or outdoor air. These scenarios, with the exception of volatilization of chemicals to indoor air, would be expected to occur during non-recurrent incidents and present a relatively short duration of exposure for human receptors. Volatilization of chemicals to indoor air (e.g., vapor intrusion) presents a potential longer duration of exposure to human receptors that recurrently use the building.

### 6.1.3 Groundwater

Groundwater samples collected at the Site from thirteen wells indicate that VOCs, SVOCs, pesticides and metals are present in groundwater at the Site at concentrations above the NYSDEC TOGS 1.1.1 groundwater standards and guidance values. There are currently no groundwater uses at the Site or in the immediate vicinity (e.g., domestic or industrial groundwater wells), and no expected future use of groundwater at the Site. The bedrock supply well(s) (BSW#1 and BSW#2) and/or the injection well historically used at the Site (SGD, 2007) were reportedly used to supply process water to prior building occupants. There is no current use of these wells and they may have been abandoned or destroyed as they could not be located during the RI. There are also no public groundwater supply wells in the City of Rochester. The presence of VOCs in Site groundwater could result in the volatilization of chemicals in groundwater to overlying indoor air (vapor intrusion) and/or outdoor air. In addition, if excavation occurs at the Site, incidental contact of Site workers with the groundwater could occur. Because there is no recurrent use of groundwater at the Site, these scenarios, with the exception of volatilization of chemicals to indoor air, would be expected to occur during non-recurrent incidents and present a relatively short duration of exposure for human receptors. Volatilization of chemicals to indoor structures (e.g., vapor intrusion) presents a potential longer duration of exposure to human receptors that recurrently use the building.

### 6.1.4 Stagnant Water and Sediment Contained in on-Site Structures

The stagnant water and sediment contained in the on-Site cistern/vault and drywell, that was previously documented to contain elevated concentrations of chlorinated solvents, were removed and disposed of off-Site as part of the VCP work completed at the Site (AEL, 1998). During the utility survey conducted during the RI, O'Brien & Gere discovered that water and or sediment were contained in Site dry wells and floor drain structures. Materials contained in these structures were not tested and the terminus of these structures could not be confirmed by O'Brien & Gere's review of historic Site drawings. Evidence is present on historic Site drawings that these structures tie into the municipal storm water collection system and/or sanitary sewers. If residual contaminated materials remain within these structures and /or if contaminants present at the Site are flushed to these structures, contaminants could ultimately be flushed into the storm or sanitary sewers. Incidental contact with these contaminants by utility workers, workers at the wastewater treatment plant or recreational users of the surface water features where these systems ultimately discharge could occur. The contaminants would be expected to be diluted in all of these scenarios and exposure would be expected to occur during non-recurrent incidents resulting in a relatively short duration of exposure for human receptors.

### 6.1.5 Asbestos

Friable ACM was identified as part of the 1989 Site investigation completed by H&A and during the asbestos survey conducted by O'Brien & Gere and summarized in O'Brien & Gere's asbestos survey report (Appendix A). Potential human exposure pathways include incidental ingestion or inhalation of the ACM by Site workers/occupants. As with vapor intrusion, these exposure scenarios may present a potential longer duration of exposure to human receptors that recurrently use the building.

### 6.1.6 Building Surfaces

PCB wipe samples were collected from five building surfaces during the RI. PCBs were detected on three of these building surfaces. These samples were collected from stains observed on the floors of the active machining areas associated with the current Site tenant(s), and from a stain on the floor observed near a furnace on the south side of the original 1920 building. Human contact with these contaminated surfaces could result in incidental ingestion of PCBs. An additional risk is presented if these contaminants are flushed to floor drains and or drywells in the building, where they would take on the risks discussed in Section 6.1.4 above.

### 6.1.7 Soil Vapor

The process where chemicals contained in subsurface soil and groundwater volatilize and migrate to indoor air in overlying structures is referred to as vapor intrusion (VI). VI presents a potential exposure scenario for human receptors when vapor migrates to overlying structures where it may subsequently be inhaled by building occupants (e.g., residents or employees). As detailed in the SVI Report (included as Appendix L), site related compounds (VOCs) were detected in the indoor air and sub slab vapor of the Machine Shop and Church, located on the southeast corner of the Site, and at 76 Seneca Avenue located immediately to the north of the Site. Site related compounds were also detected in the sub-slab vapor, but were not present in the indoor air, within the residence at 45 Seneca Avenue. Based on a review and evaluation of this data, the City, O'Brien & Gere, NYSDEC and NYSDOH have agreed that additional sampling to confirm these results will be performed this coming heating season at the Machine Shop and 76 Seneca Avenue. No further sampling is recommended at this time at the Church and 45 Seneca Avenue residence.

# 7. REMEDIAL INVESTIGATION SUMMARY AND CONCLUSIONS

## 7.1 SUMMARY OF CONTAMINANTS OF CONCERN TESTED AT THE SITE

During the RI, five contaminants of concern (VOCs, SVOCs, PCBs, pesticides and metals) were tested for in five media (surface soil, subsurface soil, groundwater, soil gas [VOCs only] and soil vapor intrusion samples [VOCs only]). Selected building surfaces were tested for PCBs using wipe samples. Asbestos samples were also collected throughout the building by O'Brien & Gere during a building asbestos survey. The contaminants that were detected in these media above potentially applicable SCGs are described below.

### 7.1.1 VOCs

Surface soil samples were not collected for VOC analysis.

VOCs were not detected at concentrations above the Part 375 Unrestricted Use or Restricted Commercial Use SCOs in samples collected from five of the seven test trenches excavated at the Site.

O'Brien & Gere collected subsurface soil samples for VOC analysis from each of the twenty-four soil borings installed at the Site. Four VOCs were found at concentrations that exceeded the Part 375 Unrestricted Use SCOs. These VOCs included, acetone, at two locations (SB-06 and SB-17); cis-1,2-dichloroethene at two locations (SB-21 and SB-22); trichloroethylene (trichloroethene) at two locations (SB-17 and SB-24) and vinyl chloride, at one location (SB-21). The concentrations of the remaining detected VOCs were below the Part 375 Unrestricted Use and Restricted Commercial Use SCOs.

O'Brien & Gere conducted two rounds of groundwater sampling at fifteen monitoring wells during the RI. These wells included, eight bedrock wells (MW-1 and MW-3 through MW-9) and five overburden wells (RIZ-3, RIZ-4, RIZ-7, RIZ-9 and OW-101). Fifteen VOCs were found in monitoring wells sampled during the RI at concentrations that exceed the TOGS 1.1.1 groundwater standards and guidance values. These VOCs include, 1,1-dichloroethane, at one well (RIZ-4); 1,1-dichloroethylene (1,1-dichloroethene), at two wells (MW-9 and RIZ-4); 1,2-dibromo-3-chloropropane (DBCP), at two wells (MW-5 and MW-8); 1,2-dichloropropane, at one well (RIZ-4); benzene, at five wells (MW-3, MW-4, MW-5, MW-6, MW-7); chloroform, at one well (MW-7); cis-1,2-dichloroethene, at nine wells (MW-1, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, OW-101 and RIZ-4); ethylbenzene, at two wells (MW-3 and MW-6); isopropylbenzene, at two wells (MW-3 and RIZ-7); methylbenzene (toluene), at one well (MW-7); methyl tert butyl ether (MTBE), at two wells (MW-3 and MW-6); trans-1,2-dichloroethene, at three wells (MW-7, MW-9 and RIZ-4), trichloroethylene (trichloroethene), at eight wells (MW-1, MW-4, MW-5, MW-7, MW-8, MW-9, OW-101 and RIZ-4); vinyl chloride, at seven wells (MW-4, MW-5, MW-7, MW-8, MW-9, OW-101 and RIZ-4); and xylenes, at three wells (MW-3, MW-6 and MW-7).

VOCs, including one or more of the following, dichlorodifluoromethane, trichlorofluoromethane, 1,1,2-trichloro-1,2,2-trifluoroethane, methylene chloride, chloroform, 1,1,1-trichloroethane, benzene, trichloroethene, toluene, tetrachloroethene, ethylbenzene, m-xylene & p-xylene, o-xylene, 1,3,5-trimethylbenzene and 1,2,4-trimethylbenzene were detected at all seven of the

seven soil gas samples collected at the Site. There currently are no generic USEPA or NYSDEC SCGs to compare with the soil gas sample analytical results.
As detailed in the SVI Report (included as Appendix L), VOCs were detected in the indoor air and sub slab vapor of the Machine Shop and Church, located on the southeast corner of the Site, and at 76 Seneca Avenue located immediately to the north of the Site. VOCs were also detected in the sub-slab vapor, but were not present in the indoor air, within the residence at 45 Seneca Avenue. Based on a review and evaluation of this data, the City, O'Brien & Gere, NYSDEC and NYSDOH have agreed that additional sampling to confirm these results will be performed this coming heating season at the Machine Shop and 76 Seneca Avenue. No further sampling is recommended at this time at the Church and 45 Seneca Avenue residence.

### 7.1.2 SVOCs

Four SVOCs, including benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene and indeno(1,2,3-cd)pyrene were detected in all three surface soil samples (SS-01-091508, SS-02-091508, SS-03-091508) at concentrations above the Part 375 Unrestricted Use SCOs. Benzo(a)anthracene was also detected at two locations (SS-01-0915-08 and SS-03-091508) at concentrations above the Part 375 Unrestricted Use SCOs. Benzo(a)pyrene was detected in all three surface soil samples (SS-01-091508, SS-02-091508, SS-03-091508) at concentrations above the Part 375 Restricted Commercial Use SCOs. Benzo(b)fluoranthene was detected at one location (SS-03-091508) at a concentration (8,400 ug/kg) above the Restricted Commercial Use SCO (5,600 ug/kg).

Five of SVOCs (1,2-benzophenanthracene [chrysene], benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene and indeno(1,2,3-cd)pyrene) were detected in one of the test trench soil samples (TP-03-091708 [4.5']) at concentrations above the Part 375 Unrestricted Use SCOs. Only one of the SVOCs (benzo(a)pyrene), detected at TP-03-091708 [4.5'], was detected at a concentration (2,000 ug/kg) that exceeded the Part 375 Restricted Commercial Use SCO (1,000 ug/kg).

Soil samples collected at three soil borings (SB-03, SB-10 and SB-11) were found to contain SVOCs at concentrations above the Part 375 Unrestricted Use SCOs. These SVOCs included, 1,2-benzophenanthracene (chrysene), benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and indeno(1,2,3-cd)pyrene detected at SB-03; and pentachlorophenol detected at SB-10 and SB-11. Three SVOCs, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, detected at only one boring (SB-03) were detected at concentrations above the Restricted Commercial Use SCOs.

Groundwater samples collected at three monitoring wells (MW-1, MW-8 and RIZ-9) contained seven SVOCs (1,2-benzophenanthracene (chrysene), benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, bis(2-ethylhexyl) phthalate and indeno(1,2,3-cd)pyrene) and 1,2-dicholorobenzene (only at MW-1) at concentrations above the corresponding TOGS 1.1.1 groundwater standards and guidance values. Two of these SVOCs (1,2-benzophenanthracene (chrysene), 1,2-dicholorobenzene) and a third SVOC, m-dichlorobenzene, were detected at MW-4 at concentrations above the TOGS 1.1.1 groundwater standards and guidance values. Only m-dichlorobenzene was detected at MW-3 and only indeno(1,2,3-cd)pyrene was detected at MW-5, MW-6, MW-7 and MW-9 at concentrations above the TOGS 1.1.1 groundwater standards and guidance values.

### 7.1.3 PCBs

PCBs were detected in subsurface soil at concentrations above the Unrestricted Use SCOs from two subsurface soil samples collected from a test pit (TP-6) and soil boring (SB-07) located on the west side of the Site. These samples were collected adjacent to two USTs that were visually confirmed to be present during excavation of test pits during the RI. The PCB concentrations detected at the test pit (TP-6) and soil boring (SB-07) are below the Part 375 Restricted Use SCOs.

Two PCB aroclors (aroclor 1260 and aroclor 1254) were detected on building surfaces sampled at the Site. One or more of these aroclors were detected on three of the five wipe samples collected at the Site (PCB-01-091508, PCB-02-091508 and PCB-03-091508). Two of the samples (PCB-01-091508 and PCB-03-091508), were collected from stains observed by O'Brien & Gere on the floors of the active machining areas associated with the current Site tenant(s). The third sample (PCB-02-091509), was collected from a stain on the floor observed near a furnace on the south side of the original 1920 building. There currently are no generic USEPA or NYSDEC SCGs to compare with the wipe sample analytical results.

Surface soil was not tested for the presence of PCBs. PCBs were not detected in any of the groundwater samples collected from the eight bedrock monitoring wells and five overburden monitoring wells sampled by O'Brien & Gere.

### 7.1.4 Pesticides

Two pesticides, 4,4'-DDD and 4,4'-DDE, were detected in two of the three surface soil samples (SS-01-091508 and SS-03-091508) at concentrations above the Part 375 Unrestricted Use SCOs. The same two pesticides were also detected at concentrations above the Part 375 Unrestricted Use SCOs at one (SB-08) of the two soil borings where pesticide samples were collected. Pesticides were not detected in the three surface soil samples or two subsurface soil samples collected by O'Brien & Gere at concentrations above the Part 375 Restricted Commercial Use SCOs. Pesticide analysis was not requested for any of the subsurface soil samples collected from the test trenches during the RI.

Samples for pesticide analysis were collected from seven wells during the RI. Two pesticides, aldrin and endosulfan, were detected at two monitoring wells, MW-1 and MW-3, respectively (one pesticide detected in each well), at concentrations above the TOGS 1.1.1 groundwater standards and guidance values.

### 7.1.5 Metals

Three metals (copper, lead and zinc) were detected from all surface soil samples (SS-01-091508, SS-02-091508 and SS-03-091508) at concentrations above the Part 375 Unrestricted Use SCOs. Silver, was detected at two sample locations, SS-02-091508 (4.2 milligrams per kilogram [mg/kg]) and SS-02-091508 (3.5 mg/kg), at concentrations above the Unrestricted Use SCO (2 mg/kg). Mercury was detected at one surface soil sample location (SS-03-091509) at a concentration (0.24 mg/kg) above the Unrestricted Use SCO (0.18 mg/kg). Copper was the only metal detected at one sample location (SS-02-091508) at a concentration (337 mg/kg) above the Restricted Commercial Use SCO (270 mg/kg).

All five of the test trench soil samples (TP-01-091708 [2'], TP-02-091708 [4'], TP-03-091708 [4.5'], TP-04-091708 [5'] and TP-6-091708 [6.5']) had one or more detected metals, at concentrations that exceed the Part 375 Unrestricted Use SCOs. Copper was detected at one location (TP-6-091708 [6.5']) at a concentration (3,660 mg/kg) that exceeded the Part 375 Restricted Commercial Use SCO (270 mg/kg).

Four metals (copper, lead, mercury and zinc) were detected at one or more of the ten Geoprobe soil borings (SB-1, SB-5 through SB-12 and SB-21) at concentrations that exceed the Part 375 Unrestricted Use SCOs. Copper was detected at two locations (SB-7 at 2,500 mg/kg and SB-8 at 1,730 mg/kg) at concentrations that exceeded the Part 375 Restricted Commercial Use SCO (270 mg/kg).

Metals were detected at all fourteen monitoring wells (MW-1, MW-2 through MW-9, OW-101, RIZ-3, RIZ-4, RIZ-7 and RIZ-9) at concentrations above the TOGS 1.1.1 groundwater standards and guidance values.

### 7.1.6 Asbestos

Representative bulk samples of suspect ACM were collected and subsequently submitted to a New York State certified laboratory for analysis of asbestos content. Materials within the Site building were subsequently confirmed as ACM. As a result of these findings, there are regulatory criteria and notification requirements that must be performed prior to future construction and demolition activities at the Site. The results of the asbestos survey and the applicable regulatory criteria are detailed in a letter report provided by O'Brien & Gere to the City dated May 29, 2009 that is included herein as Appendix A.

## 7.2 CONCEPTUAL SITE MODEL

O'Brien & Gere has developed a Conceptual Site Model (CSM) for the Site based on the analytical data and information collected during the RI and provided in the prior Site investigations (discussed in Section 2.2). Based on these data and information, the primary contaminants of concern detected at the Site include VOCs (chlorinated solvents), petroleum constituents (VOCs and SVOCs), PCBs and ACM. The contaminants of concern appear to be the result of four potential sources that are discussed in further detail below.

### 7.2.1 East Loading Dock

The east loading dock (and storage yard) is located on the northeast corner of the Site building. Prior Site investigations document an approximate 55-gallon trichloroethene spill associated with H.P. Stein, a former building occupant. The spill reportedly occurred during the time of H.P. Stein's tenure (1977-1986) in the northwest corner of the loading dock/storage yard (AEL, 1996). Trichloroethene and two chlorinated solvents associated the natural breakdown of trichloroethene, cis-1,2-dichloroethene and vinyl chloride, were prevalent in four soil borings clustered beneath the Site building on the central west portion of the Site (SB-17, SB-21, SB-22 and SB-24). These borings are located upgradient and/or side gradient (on the basis of the overburden groundwater contour map presented as Figure 5) to the east loading dock.

The three most common VOCs detected in Site wells at concentrations above the TOGS 1.1.1 groundwater standards and guidance values were the same three chlorinated solvents detected in

soils beneath the Site building (cis-1,2-dichloroethene detected at nine wells, trichloroethene detected at eight wells and vinyl chloride detected at seven wells). A summary of the well locations where each of these solvents were detected, the maximum detected concentration at each well and the corresponding TOGS 1.1.1 standard or guidance value is presented on Table 12. The highest detected concentrations of one of these solvents (vinyl chloride) were detected at two overburden wells in the center of the Site adjacent to the east loading dock (RIZ-4 and OW-101) and a downgradient bedrock well (MW-4).

A suspect cluster of one SVOC, pentachlorophenol, was detected at two soil borings in the east loading dock (SB-10 and SB-11) at concentrations exceeding the Part 375 Unrestricted Use SCO for that compound. This synthetic chemical, introduced in the 1930's, was commonly used as a wood preservative and biocide in the paper, pulp and textile industry, however has very limited approved use today (since approximately the 1980's) because of the products toxicity. This may suggest that a historic spill of pentachlorophenol occurred in this area during the time of Sargent & Greenleaf's tenure.

A historic oil tank located in the east loading dock, and the contaminants assumed to be associated with the tank, are discussed in Section 7.2.2 below.

### 7.2.2 Sargent & Greenleaf Fuel Oil USTs

Sargent & Greenleaf, the initial building occupant, historically used two fuel oil USTs. The tanks consisted of a 10,000-gallon fuel oil UST, which failed a leak test in 1988, and an adjacent 6,000-gallon fuel oil UST located on the west side of the Site building. The tanks were reportedly drained of their contents (heating oil) and closed in place (filled with concrete) shortly after the leak was discovered (SGD, 2007). During review of historic building drawings, O'Brien & Gere discovered a third tank in the east loading dock area (discussed in Section 3.1.1). This tank is mapped as an oil storage tank and the drawing did not specify if the tank was a UST or AST.

Several SVOCs, consistent with fuel oil compounds, were detected in groundwater at MW-1, MW-4 and MW-8 on the north end of the Site at concentrations above groundwater SCGs. Only one SVOC (indeno(1,2,3-cd)pyrene) was detected across the street on the west side of the Site (downgradient) in monitoring wells MW-5 and MW-6 at concentrations above the TOGS 1.1.1 groundwater standards and guidance values. SVOCs, other than the pentachlorophenol discussed above, were not detected in any of the subsurface soil samples collected from test pits or soil borings, on the north end of the Site, at concentrations above soil SCGs.

PCBs were detected in subsurface soil at concentrations above the Unrestricted Use SCOs in two subsurface soil samples collected from a test pit (TP-6) and soil boring (SB-07), installed adjacent to the USTs, located on the on the west side of the Site. This was the only area of the Site where PCBs were detected in soil or groundwater samples. This data suggests that the UST unearthed during excavation of test trench TP-6 may have formally contained/stored oils that contained PCBs.

In addition to the three previously mentioned fuel oil/oil storage USTs, Sargent & Greenleaf reportedly utilized a 1,000-gallon UST to store gasoline based on a permit for installation of a tank dated 1952 (SGD, 2007). The location of the 1,000-gallon UST has not been confirmed but

common gasoline constituents (e.g., benzene, toluene, and ethylbenzene) have been detected in soil and groundwater samples collected at the Site (summarized below in Section 7.2.3)

### 7.2.3 Former Gasoline and Auto Repair Stations located at South End of Site

The highest detected concentrations (i.e., concentrations above the TOGS 1.1.1 standards and guidance values) of gasoline constituents (BTEX and MTBE) were detected in groundwater collected from three monitoring wells on the southern half of the Site (MW-3, MW-6 and MW-7). Benzene was also detected in two bedrock wells on the west side of the Site (MW-4 and MW-5) at concentrations equal to or exceeding the TOGS 1.1.1 groundwater standards and guidance values. BTEX and MTBE were also detected at lower concentrations (below the TOGS 1.1.1 standards and guidance values) at two overburden wells and one bedrock well on the north end of the Site (OW-101, RIZ-4 and MW-1, respectively) and one bedrock monitoring well on the south end of the Site (MW-9). This distribution would suggest that the cluster of historic and currently operating auto repair/gas stations on the south end of the Site, with historic petroleum releases documented in the SGD Phase I ESA, have affected bedrock groundwater quality. Overburden groundwater appears to be affected to a lesser degree; BTEX and/or MTBE were detected below the TOGs 1.1.1 standards and guidance values at two of the Sites overburden wells (OW-101, and RIZ-4) and not detected in the three remaining overburden groundwater monitoring wells (RIZ-3, RIZ-7 and RIZ-9). Strong gasoline odors were noted during sampling at MW-3 and MW-6. Slight odors, described as petroleum and/or chemical odors were noted by O'Brien & Gere during sampling of wells RIZ-4, RIZ-7, RIZ-9 and MW-9.

The SVOCs detected at two subsurface soil samples on the south end of the Site (TP-03 and SB-03) at concentrations that exceed the Unrestricted Use SCOs, are consistent with SVOCs typically associated with fuel oil or diesel fuel. TP-03 and SB-03 are located near (and/or adjacent to) the gas station that was historically mapped on the south end of the Site (SGD, 2007). It is unknown if this gas station formerly stored diesel fuel and/or fuel oil; however, the use and storage of these petroleum products is likely.

The SVOCs detected at overburden monitoring well RIZ-9, located on the south end of the Site, are also consistent with fuel oil and/or diesel fuel constituents.

### 7.2.4 Contaminants Associated with current and historic users of the Site

<u>PCBs on Building Surfaces</u>

The presence of PCBs in oil stained surfaces in the current tenants machining areas may suggest that the current tenant is using oils and or fluids (or bringing oils on-Site) that contain PCBs and their activities may subsequently be introducing these contaminants onto building surfaces within the Site building. In addition, equipment that was being inspected or disassembled for salvage and or storage was observed in these areas. Given the age of some of the equipment, these materials may also be a source of PCBs.

<u>Drums Currently Stored on-Site in Former Ink Room</u>

The SGD Phase I ESA identified approximately twenty-five drums that were stored in the Former Ink room located on the south wall of the 1965 addition. These drums were reportedly left behind by a former building tenant (SGD, 2007). The condition and contents of these drums were not

evaluated by O'Brien & Gere during the RI but it is recommended that the contents of these drums are characterized for disposal in accordance with the requirements of the Federal and State Resource Conservation and Recovery Act (RCRA) Regulations, and are disposed of off-Site to avoid a potential future release.

Asbestos Containing Material

The presence of ACM at the Site was confirmed by bulk samples that were collected at the Site during the asbestos survey. As a result of these findings, there are regulatory criteria and notification requirements that must be performed prior to future construction and demolition activities at the Site. The results of the asbestos survey and the applicable regulatory criteria are detailed in the letter report provided by O'Brien & Gere to the City dated May 29, 2009. The letter report is included herein as Appendix A.

## 7.3 NON-SPECIFIC SOURCE CONTAMINANTS DETECTED AT THE SITE

Metals, pesticides, the chlorinated VOCs detected in the southeast corner of the Site were also found in groundwater and soil at the Site at concentrations above the applicable SCGs. These contaminants could not be attributed to specific on-Site sources.

Metals

Evidence of non-native materials including brick fragments, coal, ash and what appeared to be spent foundry sand were observed in approximately half of the soil borings installed by O'Brien & Gere. The distribution of the borings where these materials were observed was widespread and not limited to specific areas of the Site. These materials are consistent with materials which would have been used during Sargent & Greenleaf's tenure based on historic Site operations detailed in the SGD Phase I ESA; however, O'Brien & Gere cannot conclusively determine if these materials are the result of on-Site disposal and/or use or if these materials originate from an off-Site source.

The presence of metals was generally widespread and metals were detected throughout groundwater samples and soil samples collected at the Site. These metals do not appear to be attributed to a specific source. Naturally occurring background concentrations of metals in soil vary widely. TAGM 4046 provides a range of eastern United States background concentrations for metals found in the region according to a 1984 survey of reference material by E. Carol McGovern of NYSDEC (NYSDEC, 1994). The metals detected at the Site in subsurface soils generally fell within this range; however, without the benefit of a Site specific inorganic background study, a conclusion cannot be drawn as to whether the metals found at the Site are consistent with local urban background levels for the area or are the result of a local source.

Alternatively, these metals may be the result of historic casting and foundry operations that were conducted at the Site, improper on-Site disposal of materials associated with these operations, or may have already been present in fill material (ash, bricks, foundry sand and coal) that were observed by O'Brien & Gere at the Site.

Pesticides

Pesticides were detected in two (SS-01-091508 and SS-03-091508) of the surface soil samples and one (SB-08) of the soil borings tested for pesticides at the Site. These samples were collected from the limited green space areas of the Site (e.g., grass covered, not covered by the Site building) which may suggest that historic application of these pesticides has occurred at the Site and has infiltrated the subsurface. Due to the limited number of soil samples that were collected, insufficient data is available to conclusively confirm this assumption; however, the data does confirm that pesticides are present in surface and subsurface soils at concentrations in excess of the Part 375 Unrestricted Use SCOs.

Pesticides were only detected in three of the seven monitoring wells that were sampled. All three wells (MW-1, MW-4 and MW-3) were located on Site. Pesticides were not detected in the three off-Site wells that were sampled (MW-5, MW-6 and MW-8). Two pesticides were detected (one pesticide at each well) at MW-1 and MW-3, at concentrations above the TOGS 1.1.1 standards and guidance value. The groundwater data may support the assumption that historic surface applications of pesticides at the Site are the source of the surface soil, subsurface soil and groundwater contamination, but the limited number of samples that were collected from each medium is insufficient to confirm this assumption.

Chlorinated VOCs Detected on the Southeast Corner of the Site

The highest detected concentrations of two chlorinated solvents, cis-1,2-dichloroethene and trichloroethene, were detected at two upgradient bedrock monitoring wells located on the southeast corner of the Site (MW-7 and MW-9). A summary of the well locations where each of these solvents were detected, the maximum detected concentration at each well, and the corresponding TOGS 1.1.1 standard or guidance value is presented on Table 12. Although these chlorinated solvents were detected in on-Site wells and are attributed to the historic trichloroethene spill in the east loading dock, significantly higher concentrations of cis-1,2-dichloroethene and trichloroethene were detected in two upgradient bedrock wells (MW-7 and MW-9), which may suggest the presence of a second, local off-Site source.

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# TABLES

**TABLE 1**

**Summary of Site Dry Wells and Floor Drains**
**(presented within text of Section 3.1.1)**

**TABLE 2**

**Building Construction Summary**
**(presented within text of Section 3.1.1)**

**Table 3 - Summary of Analytical Samples Collected at the Site During the RI**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Sample Matrix | Sample Designation | Notes | Sample Date | Sample Time | Sample Depth Below Grade (ft.) | Sample PID/Headspace Reading (ppm) | Laboratory Analysis | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 8260 VOCs + MTBE + 30 TICs | 8270 SVOCs + 30 TICs | 8082 PCBs | TAL Metals | 8081 Pest | 9012 Total CN | TO-15 |
| Surface Soil | Soil | SS-01-091508 | | 9/15/2008 | 12:20 | 0-2 inches | - | | x | | x | x | | |
| | | EQBLNK SS-01-091508 | Equipment Blank | 9/15/2008 | 12:30 | - | - | | x | | x | x | | |
| | | SS-02-091508 | | 9/15/2008 | 12:50 | 0-2 inches | - | | x | | x | x | | |
| | | SS-03-091508 | | 9/15/2008 | 13:00 | 0-2 inches | - | | x | | x | x | | |
| PCB | Wipe Samples | PCB-01-091508 | | 9/15/2008 | 14:55 | - | - | | | x | | | | |
| | | PCB-02-091508 | | 9/15/2008 | 15:02 | - | - | | | x | | | | |
| | | PCB-03-091508 | | 9/15/2008 | 15:10 | - | - | | | x | | | | |
| | | PCB-04-091608 | | 9/16/2008 | 10:51 | - | - | | | x | | | | |
| | | PCB-05-091608 | | 9/16/2008 | 11:10 | - | - | | | x | | | | |
| Test Trench | Soil | TP-01-091708 (2') | | 9/17/2008 | 10:16 | 2 | 0.0 | x | x | x | x | | | |
| | | TP-02-091708 (4') | | 9/17/2008 | 11:40 | 4 | 0.0 | x | x | x | x | | | |
| | | TP-03-091708 (4.5') | | 9/17/2008 | 12:20 | 4.5 | 0.0 | x | x | x | x | | | |
| | | TP-03-091708 (4.5') MS | Matrix Spike Sample | 9/17/2008 | 12:23 | 4.5 | 0.0 | x | x | x | x | | | |
| | | TP-03-091708 (4.5') MSD | Matrix Spike Duplicate Sample | 9/17/2008 | 12:27 | 4.5 | 0.0 | x | x | x | x | | | |
| | | EQBLNK TP-03-091708 | Equipment Blank | 9/17/2008 | 12:15 | - | - | x | x | x | x | | | |
| | | TP-04-091708 (5') | | 9/17/2008 | 13:50 | 5 | 0.0 | x | x | x | x | | | |
| | | TP-6-091708 (6.5') | | 9/17/2008 | 16:27 | 6.5 | 0.2 | x | x | x | x | | | |
| | | TP-6-091708 Field Dup (6.5') | Field Duplicate collected at TP-6-091708 (6.5') | 9/17/2008 | 16:30 | 6.5 | 0.2 | x | x | x | x | | | |
| Geoprobe | Soil | SB-01-091808 (2-4') | | 9/18/2008 | 10:30 | 2-4 | 0.0 | x | x | x | x | | | |
| | | SB-02-091808 (4-6') | | 9/18/2008 | 11:10 | 4-6 | 7.8 | x | | | x | | | |
| | | SB-02-091808 (9-10') | | 9/18/2008 | 11:15 | 9-10 | 15.4 | | x | x | | | | |
| | | SB-03-091808 (8-10') | | 9/18/2008 | 12:00 | 8-10 | 2.0 | | | | x | | | |
| | | SB-03-091808 (10.7-11') | | 9/18/2008 | 11:57 | 10.7-11 | 5.0 | x | x | x | | | | |
| | | SB-04-091808 (6-8') | | 9/18/2008 | 12:33 | 6-8 | 2.5 | x | x | x | x | | | |
| | | SB-05-091808 (1.5-3.5') | | 9/18/2008 | 13:14 | 1.5-3.5 | 29.6 | x | x | x | x | | | |
| | | SB-06-091808 (2-4') | | 9/18/2008 | 13:45 | 2-4 | 4.4 | x | x | x | x | | | |
| | | SB-07-091808 (6-8') | | 9/18/2008 | 14:25 | 6-8 | 3.0 | x | x | x | x | | | |
| | | SB-08-091808 (8-10') | | 9/18/2008 | 14:50 | 8-10 | 12.8 | x | x | x | x | | | |
| | | SB-08-091808 (2-4') | | 9/18/2008 | 14:52 | 2-4 | 5.1 | | | | | x | | |
| | | Trip Blank | Trip Blank for SB-01 through SB-08 samples, and TP-06 sample | - | - | - | - | x | | | | | | |
| | | SB-09-091908 (2-4') | | 9/19/2008 | 7:40 | 2-4 | 3.5 | x | x | x | x | | | |
| | | EQBLNK SB-09-091908 | Equipment Blank | 9/19/2008 | 8:10 | - | - | x | x | x | x | x | | |
| | | SB-10-091908 (4-8') | | 9/19/2008 | 9:20 | 4-8 | 22.3 | x | x | x | x | | | |
| | | Blind Dup | Blind Field Duplicate collected at SB-10-091908 (4-8') | 9/19/2008 | - | 4-8 | 22.3 | x | x | x | x | | | |
| | | SB-11-091908 (8-9') | | 9/19/2008 | 9:53 | 8-9 | 21.2 | x | x | x | x | | | |
| | | SB-12-091908 (5-7') | | 9/19/2008 | 11:46 | 5-7 | 0.0 | x | x | x | x | | | |
| | | SB-13-091908 (8-10') | | 9/19/2008 | 12:21 | 8-10 | 0.0 | x | x | x | x | | | |
| | | SB-14-091908 (8-10') | | 9/19/2008 | 13:34 | 8-10 | 364.0 | x | x | x | x | | | |
| | | SB-15-091908 (10-12') | | 9/19/2008 | 14:15 | 10-12 | 48.1 | x | x | x | x | | | |
| | | SB-16-091908 (13-14.6) | | 9/19/2008 | 15:00 | 13-14.6 | 24.9 | x | x | x | x | | | |
| | | SB-17-091908 (4-8') | | 9/19/2008 | 15:40 | 4-8 | 212.0 | x | x | x | x | | | |
| | | SB-17-091908 MS (4-8') | Matrix Spike Sample | 9/19/2008 | 14:45 | 4-8 | 212.0 | x | x | x | x | | | |
| | | SB-17-091908 MSD (4-8') | Matrix Spike Duplicate Sample | 9/19/2008 | 15:50 | 4-8 | 212.0 | x | x | x | x | | | |
| | | SB-18-091908 (9-12') | | 9/19/2008 | 16:25 | 9-12 | 0.0 | x | x | x | x | | | |
| | | Trip Blank | Trip Blank for SB-09 through SB-18 samples | - | - | - | - | x | | | | | | |
| | | SB-19-092408 (10-13') | | 9/24/2008 | 8:05 | 10-13 | 0.0 | x | x | x | x | | | |
| | | SB-19-092408 MS | Matrix Spike Sample | 9/24/2008 | 8:10 | 10-13 | 0.0 | x | x | x | x | | | |
| | | SB-19-092408 MSD | Matrix Spike Duplicate Sample | 9/24/2008 | 8:10 | 10-13 | 0.0 | x | x | x | x | | | |
| | | SB-20-092408 (13-14.2') | | 9/24/2008 | 9:05 | 13-14.2 | 68.3 | x | x | x | x | x | | |
| | | SB-21-092408 (13-13.5') | | 9/24/2008 | 9:50 | 13-13.5 | 20.6 | x | x | x | x | | | |
| | | SB-22-092408 (10-12') | | 9/24/2008 | 10:30 | 10-12 | 35.8 | x | x | x | x | | | |
| | | SB-23-092408 (7-8') | | 9/24/2008 | 11:30 | 7-8 | 0.0 | x | x | x | x | | | |
| | | SB-24-092408 (8-10.5') | | 9/24/2008 | 12:05 | 8-10.5 | 413.0 | x | x | x | x | | | |
| | | Blind Dup-092408 | Blind Field Duplicate collected at SB-24-092408 (8-10.5') | 9/24/2008 | - | 8-10.5 | 413.0 | x | x | x | x | | | |
| | | EQPTBLNK-SB-24-092408 | Equipment Blank | 9/24/2008 | 12:30 | - | 0.0 | x | x | x | x | | | |
| | | Trip Blank | Trip Blank for SB-19 through SB-24 samples | - | - | - | - | x | | | | | | |

**Table 3 - Summary of Analytical Samples Collected at the Site During the RI**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Sample Matrix | Sample Designation | Notes | Sample Date | Sample Time | Sample Depth Below Grade (ft.) | Sample PID/Headspace Reading (ppm) | Laboratory Analysis | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 8260 VOCs + MTBE + 30 TICs | 8270 SVOCs + 30 TICs | 8082 PCBs | TAL Metals | 8081 Pest | 9012 Total CN | TO-15 |
| Ground Water (Fall 2008) | Aqueous | MW-1-093008 | | 9/30/2008 | 14:20 | - | 0.0 | x | x | x | x | x | x | |
| | | MW-3-093008 | | 9/30/2008 | 10:30 | - | 17.1 | x | x | x | x | x | x | |
| | | MW-4-093008 | | 9/30/2008 | 12:25 | - | 0.0 | x | x | x | x | x | x | |
| | | MW-4-093008-MS | Matrix Spike Sample | 9/30/2008 | 12:25 | - | 0.0 | x | x | x | x | x | x | |
| | | MW-4-093008-MSD | Matrix Spike Duplicate Sample | 9/30/2008 | 12:25 | - | 0.0 | x | x | x | x | x | x | |
| | | Blind Duplicate -093008 | Blind Field Duplicate collected at MW-1-093008) | 9/30/2008 | - | - | 0.0 | x | x | x | x | x | x | |
| | | Trip-1-093008 | Trip Blank for MW-1 through MW-4 samples collected 9/30/08 | - | - | - | - | x | | | | | | |
| | | Trip-2-093008 | Trip Blank for MW-1 through MW-4 samples collected 9/30/08 | - | - | - | - | x | | | | | | |
| | | Trip-3-093008 | Trip Blank for MW-1 through MW-4 samples collected 9/30/08 | - | - | - | - | x | | | | | | |
| | | MW-5-100608 | | 10/6/2008 | 10:35 | - | 0.0 | x | x | x | x | | x | |
| | | MW-6-100608 | | 10/6/2008 | 11:20 | - | 0.0 | x | x | x | x | | x | |
| | | MW-7-100608 | | 10/6/2008 | 14:30 | - | 24.6 | x | | | x | | x | |
| | | MW-7-100708 | | 10/7/2008 | 9:30 | - | 0.0 | | x | x | | | | |
| | | MW-8-100608 | | 10/6/2008 | 12:07 | - | 56.8 | x | x | x | x | | x | |
| | | MW-9-100608 | | 10/6/2008 | 9:50 | - | 6.5 | x | x | x | x | x | x | |
| | | Trip Blank | Trip Blank for MW-5 through MW-9 samples collected 9/30/08 | - | - | - | - | x | | | | | | |
| | | RIZ-3-100208 | | 10/2/2008 | 10:00 | - | 0.0 | x | | | | | | |
| | | RIZ-4-100208 | | 10/2/2008 | 13:00 | - | 0.0 | x | x | x | x | | x | |
| | | RIZ-7-100108 | | 10/1/2008 | 10:30 | - | 0.0 | x | x | x | x | | x | |
| | | RIZ-9-100108 | | 10/1/2008 | 8:45 | - | 0.0 | x | | | x | | x | |
| | | RIZ-9-100208 | | 10/2/2008 | 8:15 | - | 0.0 | | x | | | | | |
| | | OW101-100108 | | 10/1/2008 | 12:00 | - | 18.1 | x | | | | | | |
| | | TB-1-100108 | Trip Blank for RIZ-7, RIZ-9 and OW101 samples collected 10/1/08 | - | - | - | - | x | | | | | | |
| | | TB-2-100208 | Trip Blank for RIZ-3, RIZ-4 and RIZ-9 samples collected 10/2/08 | 10/2/2008 | - | - | - | x | | | | | | |
| Ground Water (Winter 2009) | Aqueous | MW-1-011909 | | 1/19/2009 | 14:30 | - | 0.0 | x | x | x | x | | x | |
| | | MW-3-011509 | | 1/15/2009 | 10:55 | - | - | x | x | x | x | | x | |
| | | DUP-011509 | Blind Field Duplicate collected at MW-3-011509) | 1/15/2009 | 17:00 | - | - | x | x | x | x | | x | |
| | | MW-4-011909 | | 1/19/2009 | 9:30 | - | 0.2 | x | x | x | x | | x | |
| | | MW-5-011909 | | 1/19/2009 | 11:05 | - | - | x | x | x | x | | x | |
| | | MW-6-011509 | | 1/15/2009 | 14:45 | - | 14.6 | x | x | x | x | | x | |
| | | FB-011509 | Equipment Blank collected at MW-6-011509 | 1/15/2009 | 14:15 | - | - | x | x | x | x | | x | |
| | | MW-7-011909 | | 1/19/2009 | 14:30 | - | - | x | x | x | x | | x | |
| | | MW-8-011609 | | 1/16/2009 | 10:40 | - | - | x | x | x | x | | x | |
| | | MW-8-MS-011609 | Matrix Spike Sample | 1/16/2009 | 10:40 | - | - | x | x | x | x | | x | |
| | | MW-8-MSD-011609 | Matrix Spike Duplicate Sample | 1/16/2009 | 10:40 | - | - | x | x | x | x | | x | |
| | | MW-9-011509 | | 1/15/2009 | 10:50 | - | 19.8 | x | x | x | x | | x | |
| | | RIZ-3-011509 | | 1/15/2009 | 13:00 | - | - | x | x | x | x | | x | |
| | | RIZ-4-011509 | | 1/15/2009 | 14:40 | - | 1.1 | x | x | x | x | | x | |
| | | RIZ-7-011909 | | 1/19/2009 | 10:45 | - | 0.2 | x | x | x | x | | x | |
| | | RIZ-9-011909 | | 1/19/2009 | 15:30 | - | - | x | x | x | | | | |
| | | OW101-011509 | | 1/15/2009 | 15:30 | - | 11.6 | x | x | | x | | x | |
| | | OW101-011909 | | 1/19/2009 | 13:30 | - | - | | | x | | | | |
| | | TB-01-011509 | Tip Blank for MW-3, MW-6, MW-8, MW-9, RIZ-3, RIZ-4, OW-101 collected 1/15/09 and 1/16/09 | - | - | - | - | x | | | | | | |
| | | TB-01-011909 | Tip Blank for MW-1, MW-4, MW-5, MW-7, RIZ-7, RIZ-9 and OW-101 collected 1/19/09 | - | - | - | - | x | | | | | | |
| Soil Vapor | Air | SV-1-24SA-012009 | | 1/20/2009 | 12:10 - 16:20 | 4 | - | | | | | | | x |
| | | SV-2-24SA-012109 | | 1/21/2009 | 10:45 - 14:48 | 4 | - | | | | | | | x |
| | | SV-3-24SA-012009 | | 1/20/2009 | 12:22 - 16:27 | 4 | - | | | | | | | x |
| | | SV-4-24SA-012109 | | 1/21/2009 | 10:49 - 14:33 | 4 | - | | | | | | | x |
| | | SV-5-24SA-012009 | | 1/20/2009 | 12:52 - 17:44 | 4 | - | | | | | | | x |
| | | SV-6-24SA-012009 | | 1/20/2009 | 13:07 - 17:59 | 4 | - | | | | | | | x |
| | | SV-7-24SA-012009 | | 1/20/2009 | 13:28 - 17:07 | 4 | - | | | | | | | x |

**TABLE 4**

**Summary of PCB Wipe Samples**
**(presented within text of Section 3.1.5)**

**Table 5 - Summary of Monitoring Well Assessment (Existing Wells), Septemeber 2008**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Well ID | Measured Depth to Water (feet) | Measured Depth to Bottom (feet) | Constructed DTB (feet) | Constructed Screen Interval (feet) | Measured Depth to Product (feet) | Odor or Sheen | Notes |
|---|---|---|---|---|---|---|---|---|
| Overburden Wells | RIZ1 | 6.54 | 6.54 | 13.8 | 3.8 - 13.8 | NA | NA | No steel protective stickup case. PVC well casing was approximately 8 ' above ground surface. Cut slotted PVC down to 3' above ground surface. Appears that well was pulled from the ground (vandalized). |
| | RIZ2 | 7.04 | 7.04 | 11.5 | 4.5 - 11.5 | NA | NA | 2" diameter PVC well with steel protective stickup case. Potential blockage in well casing - hit sand/grout with water level probe at approxcimately 7' bgs. when attempting to gauge well. |
| | RIZ3 | 10.37 | 11.29 | 9 | 3.0 - 9.0 | NA | NA | 2" diameter PVC well with steel protective stickup case. Bolt cutters used to open well. Well condition appears OK. |
| | RIZ4 | NA | NA | 10 | 4.0 -10.0 | NA | NA | Flush mount curb box has some damage but otherwise well is OK. Curb box should be replaced. |
| | RIZ5 | NA | 7.41 | 12 | 2.0 - 12.0 | NA | NA | No flush mount curb box and PVC well casing is damaged. Well was dry - possible blockage. Appears that top of well was damaged with a snow plow and well has filled with surface debris. |
| | RIZ6 | 6.87 | 8.57 | 9.5 | 2.5 - 9.5 | NA | NA | Very little water in well. Likely not enough water for representative sample? Otherwise Well condition OK. |
| | RIZ7 | 8.94 | 14.51 | 14.5 | 4.5 - 14.5 | NA | NA | Well condition OK. |
| | RIZ8 | 12.21 | 12.48 | 13.5 | 3.5 - 13.5 | NA | NA | Sand and debris present in well. Very little water in well. Appears well may have been vandalized or filled. |
| | RIZ9 | 9.01 | 10.35 | 11 | 3.5 - 11.0 | NA | NA | Well condition OK. |
| | B101/OW101 | 11 | 12.22 | 12.8 | 7.8 - 12.8 | NA | NA | 1" dia PVC well, steel cover flush mount. Well condition OK. |
| Bedrock Wells | MW1 | NA | NA | 35.6 | 25 - 35 (approx.) | NA | NA | Well condition OK. |
| | MW2 | NA | NA | 35 | 25 - 35 (approx.) | NA | NA | Attempted to locate well w/ metallic locator - unable to confirm location or presence of well. |
| | MW3 | 21.66 | 34.86 | 35 | 25 - 35 (approx.) | NA | NA | Well condition OK. |
| | MW4 | 20.8 | 34.51 | 35 | 25 - 35 (approx.) | NA | NA | Well condition OK. |
| | BSW#1 | | | | | | | Attempted to locate well w/ metallic locator - unable to confirm location or presence of well. |
| | BSW#2 | | | | | | | Attempted to locate well w/ metallic locator - unable to confirm location or presence of wel |

**Notes**

All existing wells located are 2" diameter wells unless otherwise noted.
Well data was collected on 9-15-08 and 9-16-08 by O'Brien & Gere.
All measurements recorded from top of PVC well casing (TOC)

Integrity of well appears OK, should be able to obtain ground water sample
Integrity of well questionable, may not be able to obtain ground water sample
Well cannot be sampled (integrity of well compromised)
Could not locate wells, assumed damaged/buried and cannot be sampled

**Table 6 - Summary of Ground Water Gauging Data**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| FALL 2008 DATA | | | | | | |
|---|---|---|---|---|---|---|
| Well ID | Date | Measured Depth to Water (feet) | Measured Depth to Bottom (feet) | PID Reading Recorded at Well Head (ppm) | Measured Depth to DNAPL (feet) | Measured Depth to LNAPL (feet) |
| MW-1 | 9/30/08 | 16.21 | 35.10 | 0.0 | NA | NA |
| MW-2 | 9/30/08 | NA | NA | NA | NA | NA |
| MW-3 | 9/30/08 | 21.42 | 34.86 | 17.1 | NA | NA |
| MW-4 | 9/30/08 | 20.69 | 34.55 | 0.0 | NA | NA |
| MW-5 | 10/6/08 | 17.26 | 34.54 | 0.0 | NA | NA |
| MW-6 | 10/6/08 | 21.48 | 34.48 | 0.0 | NA | NA |
| MW-7 | 10/6/08 | 24.35 | 34.26 | 24.6 | NA | NA |
| MW-8 | 10/6/08 | 13.47 | 34.43 | 56.8 | NA | NA |
| MW-9 | 10/6/09 | 23.08 | 36.05 | 6.5 | NA | NA |
| RIZ-1 | 9/30/08 | NA | NA | NA | NA | NA |
| RIZ-2 | 9/30/08 | NA | NA | NA | NA | NA |
| RIZ-3 | 9/30/08 | 10.89 | 11.30 | 0.0 | NA | NA |
| RIZ-4 | 10/2/08 | 7.35 | 9.10 | 0.0 | NA | NA |
| RIZ-5 | 9/30/08 | NA | NA | NA | NA | NA |
| RIZ-6 | 9/30/08 | 8.70 | 8.73 | 0.0 | NA | NA |
| RIZ-7 | 9/30/08 | 9.44 | 14.57 | 0.0 | NA | NA |
| RIZ-8 | 9/30/08 | 12.34 | 12.46 | 1.1 | NA | NA |
| RIZ-9 | 9/30/08 | 9.39 | 10.51 | 0.0 | NA | NA |
| OW101 | 9/30/08 | 11.29 | 12.25 | 18.1 | NA | NA |

| WINTER 2009 DATA | | | | | | |
|---|---|---|---|---|---|---|
| Well ID | Date | Measured Depth to Water (feet) | Measured Depth to Bottom (feet) | PID Reading Recorded at Well Head (ppm) | Measured Depth to DNAPL (feet) | Measured Depth to LNAPL (feet) |
| MW-1 | 1/19/09 | 14.51 | 35.10 | 0.0 | NA | NA |
| MW-2 | NA | NA | NA | NA | NA | NA |
| MW-3 | 1/15/09 | 20.43 | 34.98 | NA | NA | NA |
| MW-4 | 1/19/09 | 19.14 | 34.65 | 0.2 | NA | NA |
| MW-5 | 1/19/09 | 15.56 | 34.57 | NA | NA | NA |
| MW-6 | 1/15/09 | 15.46 | 34.48 | 14.6 | NA | NA |
| MW-7 | 1/16/09 | 11.07 | 34.52 | NA | NA | NA |
| MW-8 | 1/16/09 | 10.02 | 34.39 | NA | NA | NA |
| MW-9 | 1/15/09 | 20.85 | 36.05 | NA | NA | NA |
| RIZ-1 | NA | NA | NA | NA | NA | NA |
| RIZ-2 | NA | NA | NA | NA | NA | NA |
| RIZ-3 | 1/15/09 | 10.01 | 11.36 | NA | NA | NA |
| RIZ-4 | 1/15/09 | 5.16 | 9.16 | 1.1 | NA | NA |
| RIZ-5 | NA | NA | NA | NA | NA | NA |
| RIZ-6 | NA | NA | NA | NA | NA | NA |
| RIZ-7 | 1/19/09 | 8.76 | 14.55 | 0.2 | NA | NA |
| RIZ-8 | NA | NA | NA | NA | NA | NA |
| RIZ-9 | 1/19/09 | 8.61 | 10.56 | NA | NA | NA |
| OW101 | 1/15/09 | 9.81 | 12.25 | 11.6 | NA | NA |

**Notes**

DNAPL = Dense Non Aqueous Phase Liquid

NA = Not Applicable

NAPL = Non Aqueous Phase Liquid

DNAPL or LNAPL not detected in any Site wells

Monitoring wells RIZ-3 and MW-9 are above grade installations with protective standpipes set approximately 30 inches above grade

**Table 7 - Summary of Ground Water Elevation Data, January 2009**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| JANUARY 2009 DATA | | | | |
|---|---|---|---|---|
| **Well ID** | **Date** | **Top of PVC Casing Elevation (feet amsl)** | **Measured Depth to Water (feet)** | **Ground Water Elevation (feet)** |
| MW-1 | 1/19/09 | 454.58 [1] | 14.51 | 440.07 |
| MW-2 | NA | NA | NA | NA |
| MW-3 | 1/15/09 | 459.13 | 20.43 | 438.70 |
| MW-4 | 1/19/09 | 455.96 | 19.14 | 436.82 |
| MW-5 | 1/19/09 | 452.37 | 15.56 | 436.81 |
| MW-6 | 1/15/09 | 453.96 | 15.46 | 438.50 |
| MW-7 | 1/16/09 | 457.70 | 11.07 | 446.63 |
| MW-8 | 1/16/09 | 454.20 | 10.02 | 444.18 |
| MW-9 | 1/15/09 | 460.54 | 20.85 | 439.69 |
| RIZ-1 | NA | NA | NA | NA |
| RIZ-2 | NA | NA | NA | NA |
| RIZ-3 | 1/15/09 | 453.64 | 10.01 | 443.63 |
| RIZ-4 | 1/15/09 | 454.55 [1] | 5.16 | 449.39 |
| RIZ-5 | NA | NA | NA | NA |
| RIZ-6 | NA | 458.61 | NA | NA |
| RIZ-7 | 1/19/09 | 455.93 | 8.76 | 447.17 |
| RIZ-8 | NA | 455.97 | NA | NA |
| RIZ-9 | 1/19/09 | 458.30 [2] | 8.61 | 449.69 |
| OW101 | 1/15/09 | 457.74 | 9.81 | 447.93 |

**Notes**

[1] = Top of Curb Box elevation used for RIZ-4 and MW-1 because access was not available to survey the top of riser elevation at the time of the City's survey

[2] = Approximate elevation provided by O'Brien & Gere by measuring difference between top of steel standpipe casing and top of PVC riser

amsl = above mean sea level

Elevation data provided by the City of Rochester from topographic and boundary survey completed at the Site November 12, 2008

NA = Not Applicable

Well depth measurements recorded from the top of PVC riser, for both flush mount and above grade (standpipe) wells

**Table 8 - Summary of PCB Wipe Sample Analytical Results**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| Chemical Name | Cas No. | Unit | PCB-01-091508 | PCB-02-091508 | PCB-03-091508 | PCB-04-091608 | PCB-05-091608 |
|---|---|---|---|---|---|---|---|
| Chlorodiphenyl (60% Cl) (PCB-1260) | 11096-82-5 | µg/wipe | **17 J1** | **1.7** | **8.1** | < 1 U | < 1 U |
| Aroclor 1254 (PCB-1254) | 11097-69-1 | µg/wipe | **6.9 J1** | **2.4** | < 1 U | < 1 U | < 1 U |
| Chlorodiphenyl (21% Cl) (PCB-1221) | 11104-28-2 | µg/wipe | **1 UJ1** | < 1 U | < 1 U | < 1 U | < 1 U |
| Aroclor 1232 (PCB-1232) | 11141-16-5 | µg/wipe | **1 UJ1** | < 1 U | < 1 U | < 1 U | < 1 U |
| Aroclor 1248 (PCB-1248) | 12672-29-6 | µg/wipe | **1 UJ1** | < 1 U | < 1 U | < 1 U | < 1 U |
| Aroclor 1016 (PCB-1016) | 12674-11-2 | µg/wipe | **1 UJ1** | < 1 U | < 1 U | < 1 U | < 1 U |
| Aroclor 1242 (PCB-1242) | 53469-21-9 | µg/wipe | **1 UJ1** | < 1 U | < 1 U | < 1 U | < 1 U |

**Notes**
See Endnotes for Table 8

**Table 8 Endnotes**
**Summary of PCB Wipe Sample Analytical Results**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

Notes:

- Bold faced type indicates a detection of the compound.

Qualifiers

| | |
|---|---|
| no qualifier | The compound was positively identified at the associated numerical value which is the concentration of the compound in the sample. |
| U | Test America Qualifier – Compound analyzed for but not detected above the reported detection limit. The associated numerical value is the detection limit. The value is usable as a non-detect at the detection limit. |
| J1 | Environmental Data Validation Qualifier – Validator assigned qualifier as J, O'Brien & Gere changed qualifier designation to J1 to differentiate from Test America qualifier. Data are to be used cautiously as they are estimated data with some quality control issues. |
| UJ1 | Environmental Data Validation Qualifier – Validator assigned qualifier as UJ, O'Brien & Gere changed qualifier designation to UJ1 to differentiate from Test America qualifier. Data are to be used cautiously as they are estimated data with some quality control issues. |

**TABLE 9 - Summary of Soil Sample Analytical Results Compared to NYSDEC Part 375 Unrestricted Use SCOs**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | SB-01-091808 (2-4') | SB-02-091808 (4-6') | SB-02-091808 (9-10') | SB-03-091808 (8-10') | SB-03-91808 (10.7-11') | SB-04-091808 (6-8') | SB-05-91808 (1.5-3.5') | SB-06-091808 (2-4') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metals | Aluminum (fume or dust) | 7429-90-5 | NA | mg/kg | **6,590 J1** | **5,530 J1** | NT | **4,130 J1** | NT | **3,760 J1** | **5,640 J1** | **6,500 J1** |
| | Antimony | 7440-36-0 | NA | mg/kg | **16.2 UJ1** | **18.8 UJ1** | NT | **17.7 UJ1** | NT | **17.5 UJ1** | **15.7 UJ1** | **17.6 UJ1** |
| | Arsenic | 7440-38-2 | 13 | mg/kg | **6.4** | **8.2** | NT | **5.6** | NT | **4** | **4.6** | **9.2** |
| | Barium | 7440-39-3 | 350 | mg/kg | **37.8** | **46.1** | NT | **26.3** | NT | **21.7** | **37** | **77** |
| | Beryllium | 7440-41-7 | 7.2 | mg/kg | **0.36** | **0.56** | NT | **0.51** | NT | **0.38** | **0.32** | **0.41** |
| | Cadmium | 7440-43-9 | 2.5 | mg/kg | < 0.22 U | < 0.25 U | NT | < 0.24 U | NT | < 0.23 U | < 0.21 U | **0.86** |
| | Calcium metal | 7440-70-2 | NA | mg/kg | **5,250 J1** | **42,800 J1** | NT | **198,000 J1** | NT | **115,000 J1** | **19,200 J1** | **43,500 J1** |
| | Chromium | 7440-47-3 | 1 Hexavalent / 30 Trivalent | mg/kg | **6.3** | **7** | NT | **5.4** | NT | **4.5** | **6.5** | **14.4** |
| | Cobalt | 7440-48-4 | NA | mg/kg | **4.4** | **5.5** | NT | **4.4** | NT | **2.9** | **2.7** | **5.3** |
| | Copper | 7440-50-8 | 50 | mg/kg | **32.1 J1** | **29.9 J1** | NT | **12.4 J1** | NT | **21.2 J1** | **41.7 J1** | **240 J1** |
| | Iron | 7439-89-6 | NA | mg/kg | **9,850 J1** | **15,100 J1** | NT | **10,700 J1** | NT | **8,310 J1** | **9,170 J1** | **37,800 J1** |
| | Lead | 7439-92-1 | 63 | mg/kg | **21.7** | **19.5** | NT | **15.2** | NT | **10.5** | **93.1** | **263** |
| | Magnesium | 7439-95-4 | NA | mg/kg | **3,200** | **8,710** | NT | **19,100** | NT | **10,900** | **2,820** | **9,100** |
| | Manganese | 7439-96-5 | 1,600 | mg/kg | **302 J1** | **482 J1** | NT | **434 J1** | NT | **290 J1** | **134 J1** | **443 *** |
| | Mercury | 7439-97-6 | 0.18 | mg/kg | **0.507 J1** | **0.025 UJ1** | NT | **0.023 UJ1** | NT | **0.023 UJ1** | **0.112 J1** | **0.318 J1** |
| | Nickel | 7440-02-0 | 30 | mg/kg | **9.2** | **10.9** | NT | **10.4** | NT | **7.5** | **7** | **16.3** |
| | Potassium | 7440-09-7 | NA | mg/kg | **685 E** | **2,160 E** | NT | **2,540 E** | NT | **1,960 E** | **961 E** | **825 E** |
| | Selenium | 7782-49-2 | 3.9 | mg/kg | < 4.3 U | < 5 U | NT | < 4.7 U | NT | < 4.7 U | < 4.2 U | < 4.7 U |
| | Silver | 7440-22-4 | 2 | mg/kg | < 0.54 U | < 0.63 U | NT | < 0.59 U | NT | < 0.58 U | < 0.52 U | < 0.59 U |
| | Sodium | 7440-23-5 | NA | mg/kg | **205** | **369** | NT | **286** | NT | **185** | **238** | **297** |
| | Thallium | 7440-28-0 | NA | mg/kg | < 6.5 U | < 7.5 U | NT | < 7.1 U | NT | < 7 U | < 6.3 U | < 7 U |
| | Vanadium (fume or dust) | 7440-62-2 | NA | mg/kg | **11.7** | **13.2** | NT | **6.5** | NT | **6.1** | **9.9** | **17.9** |
| | Zinc | 7440-66-6 | 109 | mg/kg | **63.9 J1** | **38.9 J1** | NT | **48.1 J1** | NT | **54.7 J1** | **67 J1** | **317 J1** |
| Pesticides | Methoxychlor [1,1,1-Trichloro-2,2-Bis (p-methoxphenyl)-ethane] | 72-43-5 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | 4,4'-DDD | 72-54-8 | 3.3 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | 4,4'-DDE | 72-55-9 | 3.3 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | 4,4'-DDT | 50-29-3 | 3.3 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Aldrin | 309-00-2 | 5 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | alpha-BHC | 319-84-6 | 20 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | alpha-Chlordane | 5103-71-9 | 94 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | beta-BHC | 319-85-7 | 36 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Toxaphene [Camphechlor] | 8001-35-2 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | delta-BHC | 319-86-8 | 40 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Dieldrin | 60-57-1 | 5 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endosulfan I | 959-98-8 | 2,400 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endosulfan II | 33213-65-9 | 2,400 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endosulfan sulfate | 1031-07-8 | 2,400 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endrin | 72-20-8 | 14 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endrin Aldehyde | 7421-93-4 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endrin Ketone | 53494-70-5 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | gamma-BHC (Lindane) | 58-89-9 | 100 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | gamma-Chlordane | 5103-74-2 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Heptachlor | 76-44-8 | 42 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Heptachlor epoxide | 1024-57-3 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| PCBs | Aroclor-1016 (PCB-1016) | 12674-11-2 | 100** | ug/kg | < 19 U | NT | < 18 U | NT | < 18 U | < 19 U | < 18 U | < 20 U |
| | Aroclor-1221 (PCB-1221) | 11104-28-2 | 100** | ug/kg | < 19 U | NT | < 18 U | NT | < 18 U | < 19 U | < 18 U | < 20 U |
| | Aroclor-1232 (PCB-1232) | 11141-16-5 | 100** | ug/kg | < 19 U | NT | < 18 U | NT | < 18 U | < 19 U | < 18 U | < 20 U |
| | Aroclor-1242 (PCB-1242) | 53469-21-9 | 100** | ug/kg | < 19 U | NT | < 18 U | NT | < 18 U | < 19 U | < 18 U | < 20 U |
| | Aroclor-1248 (PCB-1248) | 12672-29-6 | 100** | ug/kg | < 19 U | NT | < 18 U | NT | < 18 U | < 19 U | < 18 U | < 20 U |
| | Aroclor-1254 (PCB-1254) | 11097-69-1 | 100** | ug/kg | < 19 U | NT | < 18 U | NT | < 18 U | < 19 U | < 18 U | < 20 U |
| | Aroclor-1260 (PCB-1260) | 11096-82-5 | 100** | ug/kg | < 19 U | NT | < 18 U | NT | < 18 U | < 19 U | < 18 U | < 20 U |

**TABLE 9 - Summary of Soil Sample Analytical Results Compared to NYSDEC Part 375 Unrestricted Use SCOs**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | SB-01-091808 (2-4') | SB-02-091808 (4-6') | SB-02-091808 (9-10') | SB-03-091808 (8-10') | SB-03-91808 (10.7-11') | SB-04-091808 (6-8') | SB-05-91808 (1.5-3.5') | SB-06-091808 (2-4') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organic Compounds | 1,1,1-Trichloroethane | 71-55-6 | 680 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,1,2,2-Tetrachloroethane | 79-34-5 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,1,2-Trichloroethane | 79-00-5 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,1-Dichloroethane | 75-34-3 | 270 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,1-Dichloroethylene (1,1-Dichloroethene) | 75-35-4 | 330 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,2-Dibromo-3-Chloropropane (DBCP) | 96-12-8 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,2-Dibromoethane (Ethylene Dibromide) | 106-93-4 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,2-Dichlorobenzene | 95-50-1 | 1,100 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,2-Dichloroethane | 107-06-2 | 20 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,2-Dichloropropane | 78-87-5 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,4-Dichlorobenzene | 106-46-7 | 1,800 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 2-Butanone (Methyl Ethyl Ketone) | 78-93-3 | 120 | ug/kg | < 29 U | < 30 U | NT | NT | < 27 U | < 29 U | < 28 U | **18 J** |
| | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) | 108-10-1 | NA | ug/kg | < 29 U | < 30 U | NT | NT | < 27 U | < 29 U | < 28 U | < 29 U |
| | Acetone | 67-64-1 | 50 | ug/kg | 8 U1 | 10 U1 | NT | NT | 24 U1 | 13 U1 | 7 U1 | **89** |
| | Benzene | 71-43-2 | 60 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Bromodichloromethane | 75-27-4 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Bromomethane | 74-83-9 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Carbon disulfide | 75-15-0 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Carbon Tetrachloride | 56-23-5 | 760 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | CFC-11 (Freon 11, Trichlorofluoromethane) | 75-69-4 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | CFC-12 (Freon 12, Dichlorodifluoromethane) | 75-71-8 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Chlorinated Fluorocarbon (Freon 113, 1,1,2-Trichloro-1,2,2-trifluoroethane) | 76-13-1 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Chlorobenzene | 108-90-7 | 1,100 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Chlorodibromomethane (Dibromochloromethane) | 124-48-1 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Chloroethane | 75-00-3 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Chloroform | 67-66-3 | 370 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Chloromethane | 74-87-3 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | cis-1,2-Dichloroethene | 156-59-2 | 250 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | cis-1,3-Dichloropropene | 10061-01-5 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Cyclohexane | 110-82-7 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Dichloromethane (Methylene chloride) | 75-09-2 | 50 | ug/kg | **12** | **11** | NT | NT | **6** | **13** | **14** | **9** |
| | Ethylbenzene | 100-41-4 | 1,000 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Isopropylbenzene | 98-82-8 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 2,400 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Methyl acetate | 79-20-9 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Methyl n-butyl ketone (2-Hexanone) | 591-78-6 | NA | ug/kg | < 29 U | < 30 U | NT | NT | < 27 U | < 29 U | < 28 U | < 29 U |
| | Methylbenzene (Toluene) | 108-88-3 | 700 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Methylcyclohexane | 108-87-2 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Methyl Tert Butyl Ether (MTBE) | 1634-04-4 | 930 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Styrene (Monomer) | 100-42-5 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Tetrachloroethene | 127-18-4 | 1,300 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Total Xylenes | 1330-20-7 | 260 | ug/kg | < 17 U | < 18 U | NT | NT | < 16 U | < 18 U | < 17 U | < 17 U |
| | trans-1,2-Dichloroethene | 156-60-5 | 190 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | trans-1,3-Dichloropropene | 10061-02-6 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Tribromomethane (Bromoform) | 75-25-2 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Trichloroethylene (Trichloroethene) | 79-01-6 | 470 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Vinyl chloride | 75-01-4 | 20 | ug/kg | < 11 U | < 12 U | NT | NT | < 11 U | < 12 U | < 11 U | < 11 U |
| Semi-Volatile Organic Compounds | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | 1,2-Benzphenanthracene (Chrysene) | 218-01-9 | 1,000 | ug/kg | **440 J** | NT | < 190 U | NT | **7,000** | < 190 U | **110 J** | **120 J** |
| | 1,2-dichlorobenzene | 95-50-1 | 1,100 | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | 1,4-dichlorobenzene | 106-46-7 | 1,800 | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | 2,2'-oxybis(1-Chloropropane) [bis(2-chloro-1-methyletheyl) ether] | 108-60-1 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 2,4,5-Trichlorophenol | 95-95-4 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 2,4,6-Trichlorophenol | 88-06-2 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 2,4-Dichlorophenol | 120-83-2 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |

**TABLE 9 - Summary of Soil Sample Analytical Results Compared to NYSDEC Part 375 Unrestricted Use SCOs**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | SB-01-091808 (2-4') | SB-02-091808 (4-6') | SB-02-091808 (9-10') | SB-03-091808 (8-10') | SB-03-91808 (10.7-11') | SB-04-091808 (6-8') | SB-05-91808 (1.5-3.5') | SB-06-091808 (2-4') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | 2,4-Dimethylphenol | 105-67-9 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 2,4-Dinitrophenol | 51-28-5 | NA | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | 2,4-Dinitrotoluene | 121-14-2 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 2,6-Dinitrotoluene | 606-20-2 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 2-Chloronaphthalene | 91-58-7 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 2-Chlorophenol | 95-57-8 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 2-Methylnaphthalene | 91-57-6 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 2-Methylphenol | 95-48-7 | 330 | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 2-Nitroaniline | 88-74-4 | NA | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | 2-Nitrophenol | 88-75-5 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 3,3'-Dichlorobenzidine | 91-94-1 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 3,5,5-Trimethyl-2-cyclohexene-1-one (Isophorone) | 78-59-1 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 3-Nitroaniline | 99-09-2 | NA | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | 4,6-Dinitro-2-methylphenol | 534-52-1 | NA | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | 4-Bromophenyl phenyl ether | 101-55-3 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 4-Chloro-3-methylphenol | 59-50-7 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 4-Chlorophenyl phenyl ether | 7005-72-3 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 4-Methylphenol | 106-44-5 | 330 | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 4-Nitrophenol | 100-02-7 | NA | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | Acenaphthene | 83-32-9 | 20,000 | ug/kg | < 980 U | NT | < 190 U | NT | **250 J** | < 190 U | < 190 U | **17 J** |
| | Acenaphthylene | 208-96-8 | 100,000 | ug/kg | **75 J** | NT | < 190 U | NT | **110 J** | < 190 U | < 190 U | < 200 U |
| | Anthracene | 120-12-7 | 100,000 | ug/kg | **64 J** | NT | < 190 U | NT | **1,300 J** | < 190 U | **30 J** | **45 J** |
| | Benzo(a)anthracene | 56-55-3 | 1,000 | ug/kg | **390 J** | NT | < 190 U | NT | **6,800** | < 190 U | **120 J** | **130 J** |
| | Benzo(a)pyrene | 50-32-8 | 1,000 | ug/kg | **530 J** | NT | < 190 U | NT | **10,000** | < 190 U | **160 J** | **170 J** |
| | Benzo(b)fluoranthene | 205-99-2 | 1,000 | ug/kg | **780 J** | NT | < 190 U | NT | **15,000** | < 190 U | **210** | **200** |
| | Benzo(ghi)perylene | 191-24-2 | 100,000 | ug/kg | **220 J** | NT | < 190 U | NT | **3,800** | < 190 U | **56 J** | **48 J** |
| | Benzo(k)fluoranthene | 207-08-9 | 800 | ug/kg | **280 J** | NT | < 190 U | NT | **5,400** | < 190 U | **70 J** | **70 J** |
| | Benzyl alcohol | 100-51-6 | NA | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | Benzyl butyl phthalate (Butyl benzyl phthalate) | 85-68-7 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Bis(2-chloroethoxy) methane | 111-91-1 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Bis(2-chloroethyl) ether | 111-44-4 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Bis(2-ethylhexyl) phthalate | 117-81-7 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Dibenzo(a,h)anthracene | 53-70-3 | 330 | ug/kg | < 980 U | NT | < 190 U | NT | **1,200 J** | < 190 U | **18 J** | **15 J** |
| | Dibenzofuran | 132-64-9 | 7,000 | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Diethyl phthalate | 84-66-2 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Dimethyl phthalate | 131-11-3 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Di-n-butyl phthalate | 84-74-2 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Di-n-octyl phthalate | 117-84-0 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Fluoranthene | 206-44-0 | 100,000 | ug/kg | **1,300** | NT | **9 J** | NT | **18,000** | < 190 U | **320** | **400** |
| | Fluorene | 86-73-7 | 30,000 | ug/kg | < 980 U | NT | < 190 U | NT | **240 J** | < 190 U | **9 J** | **16 J** |
| | Hexachloro-1,3-Butadiene (Hexachlorobutadiene) | 87-68-3 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Hexachlorobenzene | 118-74-1 | 330 | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Hexachlorocyclopentadiene | 77-47-4 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Hexachloroethane | 67-72-1 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Indeno(1,2,3-cd)pyrene | 193-39-5 | 500 | ug/kg | **200 J** | NT | **< 190 U** | NT | **3,900** | < 190 U | **45 J** | **56 J** |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 2,400 | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | Methanamine, N-methyl-n-nitroso (N-Nitrosodimethylamine) | 62-75-9 | NA | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | Naphthalene | 91-20-3 | 12,000 | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Nitrobenzene | 98-95-3 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | N-Nitrosodi-n-propylamine (N-Nitroso-Di-n-propylamine) | 621-64-7 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | N-Nitrosodiphenylamine | 86-30-6 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | P-Chloroaniline (4-Chloraniline) | 106-47-8 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Pentachlorophenol | 87-86-5 | 800 | ug/kg | < 1900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | Phenanthrene | 85-01-8 | 100,000 | ug/kg | **690 J** | NT | **8 J** | NT | **6,600** | < 190 U | **160 J** | **230** |
| | Phenol | 108-95-2 | 330 | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | P-Nitroaniline (4-Nitroaniline) | 100-01-6 | NA | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | Pyrene | 129-00-0 | 100,000 | ug/kg | **700 J** | NT | < 190 U | NT | **8,900** | < 190 U | **170 J** | **220** |

**TABLE 9 - Summary of Soil Sample Analytical Results Compared to NYSDEC Part 375 Unrestricted Use SCOs**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | SB-07-091808 (6-8') | SB-08-091808 (2-4') | SB-08-091808 (8-10') | Trip Blank | SB-09-091908 (2-4') | EQBLNK SB-09-091908 | SB-10-091908 (4-8') | Blind Dup |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metals | Aluminum (fume or dust) | 7429-90-5 | NA | mg/kg | **4,180 J1** | NT | **3,860 J1** | NT | **6,230 J1** | < 200 U | **5,610 J1** | **2,840 J1** |
| | Antimony | 7440-36-0 | NA | mg/kg | **19.8 UJ1** | NT | **18.3 UJ1** | NT | **19.8 UJ1** | < 20 U | **23.7 UJ1** | **< 18.7 UJ1** |
| | Arsenic | 7440-38-2 | 13 | mg/kg | < 2.6 U | NT | **3.8** | NT | **4.7** | < 10 U | **14.9 J1** | **6 J1** |
| | Barium | 7440-39-3 | 350 | mg/kg | **20** | NT | **23.3** | NT | **45.7 E** | < 2 U | **124 J1** | **28.2 J1** |
| | Beryllium | 7440-41-7 | 7.2 | mg/kg | < 0.26 U | NT | **0.28** | NT | **0.3** | < 2 U | **0.67** | < 0.25 U |
| | Cadmium | 7440-43-9 | 2.5 | mg/kg | < 0.26 U | NT | < 0.24 U | NT | 0.46 | < 1 U | < 0.32 U | < 0.25 U |
| | Calcium metal | 7440-70-2 | NA | mg/kg | **20,500 J1** | NT | **57,100 J1** | NT | **5,840 J1** | < 500 U | **10,700 J1** | **87,700 J1** |
| | Chromium | 7440-47-3 | 1 Hexavalent / 30 Trivalent | mg/kg | **4.6** | NT | **4.8** | NT | **7.8 E** | < 4 U | **8.4 J1** | **4.2 J1** |
| | Cobalt | 7440-48-4 | NA | mg/kg | **2.9** | NT | **3.6** | NT | **3** | < 4 U | **10.7 J1** | **3.8 J1** |
| | Copper | 7440-50-8 | 50 | mg/kg | **2,500 J1** | NT | **1,730 J1** | NT | **30.6 J1** | < 10 U | **29.5 J1** | **12.5 J1** |
| | Iron | 7439-89-6 | NA | mg/kg | **6,870 J1** | NT | **8,130 J1** | NT | **9,490** | **92.5** | **21,800 J1** | **9540 J1** |
| | Lead | 7439-92-1 | 63 | mg/kg | **104** | NT | **77.1** | NT | **85.2** | < 5 U | **25.6 J1** | **6.1 J1** |
| | Magnesium | 7439-95-4 | NA | mg/kg | **4,460** | NT | **8,750** | NT | **2,200 J1** | < 200 U | **2,250 J1** | **10,300 J1** |
| | Manganese | 7439-96-5 | 1,600 | mg/kg | **241 J1** | NT | **335 J1** | NT | **120** | < 3 U | **321** | **323** |
| | Mercury | 7439-97-6 | 0.18 | mg/kg | **0.024 UJ1** | NT | **0.023 UJ1** | NT | **0.748** | < 0.2 U | < 0.029 U | < 0.023 U |
| | Nickel | 7440-02-0 | 30 | mg/kg | **19.1** | NT | **18.1** | NT | **9.3 E** | < 10 U | **12.6 E** | **7.4 E** |
| | Potassium | 7440-09-7 | NA | mg/kg | **648 E** | NT | **1,110 E** | NT | **610 J1** | < 500 U | **1,640 J1** | **1,160 J1** |
| | Selenium | 7782-49-2 | 3.9 | mg/kg | < 5.3 U | NT | < 4.9 U | NT | < 5.3 U | < 1 U | < 6.3 U | < 5 U |
| | Silver | 7440-22-4 | 2 | mg/kg | < 0.66 U | NT | < 0.61 U | NT | < 0.66 U | < 3 U | < 0.79 U | < 0.62 U |
| | Sodium | 7440-23-5 | NA | mg/kg | < 185 U | NT | < 171 U | NT | **201** | < 1,000 U | **952 J1** | **381 J1** |
| | Thallium | 7440-28-0 | NA | mg/kg | < 7.9 U | NT | < 7.3 U | NT | < 7.9 U | < 0.2 U | < 9.5 U | < 7.5 U |
| | Vanadium (fume or dust) | 7440-62-2 | NA | mg/kg | **7.8** | NT | **6.9** | NT | **11 E** | < 5 U | **14.6 J1** | **5.8 J1** |
| | Zinc | 7440-66-6 | 109 | mg/kg | **296 J1** | NT | **126 J1** | NT | **562 J1** | < 10 U | **282 J1** | **44.1 J1** |
| Pesticides | Methoxychlor [1,1,1-Trichloro-2,2-Bis (p-methoxphenyl)-ethane] | 72-43-5 | NA | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | 4,4'-DDD | 72-54-8 | 3.3 | ug/kg | NT | **2.9 J** | NT | NT | NT | < 0.048 U | NT | NT |
| | 4,4'-DDE | 72-55-9 | 3.3 | ug/kg | NT | **6.2** | NT | NT | NT | < 0.048 U | NT | NT |
| | 4,4'-DDT | 50-29-3 | 3.3 | ug/kg | NT | **15** | NT | NT | NT | < 0.048 U | NT | NT |
| | Aldrin | 309-00-2 | 5 | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | alpha-BHC | 319-84-6 | 20 | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | alpha-Chlordane | 5103-71-9 | 94 | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | beta-BHC | 319-85-7 | 36 | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | Toxaphene [Camphechlor] | 8001-35-2 | NA | ug/kg | NT | < 38 U | NT | NT | NT | < 0.48 U | NT | NT |
| | delta-BHC | 319-86-8 | 40 | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | Dieldrin | 60-57-1 | 5 | ug/kg | NT | 3.2 U1 | NT | NT | NT | < 0.048 U | NT | NT |
| | Endosulfan I | 959-98-8 | 2,400 | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | Endosulfan II | 33213-65-9 | 2,400 | ug/kg | NT | **2.4 J** | NT | NT | NT | < 0.048 U | NT | NT |
| | Endosulfan sulfate | 1031-07-8 | 2,400 | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | Endrin | 72-20-8 | 14 | ug/kg | NT | **4.1** | NT | NT | NT | < 0.048 U | NT | NT |
| | Endrin Aldehyde | 7421-93-4 | NA | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | Endrin Ketone | 53494-70-5 | NA | ug/kg | NT | **5.3** | NT | NT | NT | < 0.048 U | NT | NT |
| | gamma-BHC (Lindane) | 58-89-9 | 100 | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | gamma-Chlordane | 5103-74-2 | NA | ug/kg | NT | **2.6 J** | NT | NT | NT | < 0.048 U | NT | NT |
| | Heptachlor | 76-44-8 | 42 | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | Heptachlor epoxide | 1024-57-3 | NA | ug/kg | NT | **2 J** | NT | NT | NT | < 0.048 U | NT | NT |
| PCBs | Aroclor-1016 (PCB-1016) | 12674-11-2 | 100** | ug/kg | < 20 U | NT | < 20 U | NT | < 19 U | < 0.48 U | < 24 U | <20 U |
| | Aroclor-1221 (PCB-1221) | 11104-28-2 | 100** | ug/kg | < 20 U | NT | < 20 U | NT | < 19 U | < 0.48 U | < 24 U | <20 U |
| | Aroclor-1232 (PCB-1232) | 11141-16-5 | 100** | ug/kg | < 20 U | NT | < 20 U | NT | < 19 U | < 0.48 U | < 24 U | <20 U |
| | Aroclor-1242 (PCB-1242) | 53469-21-9 | 100** | ug/kg | < 20 U | NT | < 20 U | NT | < 19 U | < 0.48 U | < 24 U | <20 U |
| | Aroclor-1248 (PCB-1248) | 12672-29-6 | 100** | ug/kg | < 20 U | NT | < 20 U | NT | < 19 U | < 0.48 U | < 24 U | <20 U |
| | Aroclor-1254 (PCB-1254) | 11097-69-1 | 100** | ug/kg | **440** | NT | < 20 U | NT | < 19 U | < 0.48 U | < 24 U | <20 U |
| | Aroclor-1260 (PCB-1260) | 11096-82-5 | 100** | ug/kg | < 20 U | NT | < 20 U | NT | < 19 U | < 0.48 U | < 24 U | <20 U |

**TABLE 9 - Summary of Soil Sample Analytical Results Compared to NYSDEC Part 375 Unrestricted Use SCOs**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | SB-07-091808 (6-8') | SB-08-091808 (2-4') | SB-08-091808 (8-10') | Trip Blank | SB-09-091908 (2-4') | EQBLNK SB-09-091908 | SB-10-091908 (4-8') | Blind Dup |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organic Compounds | 1,1,1-Trichloroethane | 71-55-6 | 680 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,1,2,2-Tetrachloroethane | 79-34-5 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,1,2-Trichloroethane | 79-00-5 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,1-Dichloroethane | 75-34-3 | 270 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,1-Dichloroethylene (1,1-Dichloroethene) | 75-35-4 | 330 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,2-Dibromo-3-Chloropropane (DBCP) | 96-12-8 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,2-Dibromoethane (Ethylene Dibromide) | 106-93-4 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,2-Dichlorobenzene | 95-50-1 | 1,100 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,2-Dichloroethane | 107-06-2 | 20 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,2-Dichloropropane | 78-87-5 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,4-Dichlorobenzene | 106-46-7 | 1,800 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 2-Butanone (Methyl Ethyl Ketone) | 78-93-3 | 120 | ug/kg | < 26 U | NT | < 28 U | < 5 U | < 28 U | < 5 U | < 29 U | < 30 U |
| | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) | 108-10-1 | NA | ug/kg | < 26 U | NT | < 28 U | < 5 U | < 28 U | < 5 U | < 29 U | < 30 U |
| | Acetone | 67-64-1 | 50 | ug/kg | 10 U1 | NT | 11 U1 | **6** | 19 U1 | **7** | 55 U1 | **23 J** |
| | Benzene | 71-43-2 | 60 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Bromodichloromethane | 75-27-4 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Bromomethane | 74-83-9 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Carbon disulfide | 75-15-0 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Carbon Tetrachloride | 56-23-5 | 760 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | CFC-11 (Freon 11, Trichlorofluoromethane) | 75-69-4 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | CFC-12 (Freon 12, Dichlorodifluoromethane) | 75-71-8 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Chlorinated Fluorocarbon (Freon 113, 1,1,2-Trichloro-1,2,2-trifluoroethane) | 76-13-1 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Chlorobenzene | 108-90-7 | 1,100 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Chlorodibromomethane (Dibromochloromethane) | 124-48-1 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Chloroethane | 75-00-3 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Chloroform | 67-66-3 | 370 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Chloromethane | 74-87-3 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | cis-1,2-Dichloroethene | 156-59-2 | 250 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | **3 J** |
| | cis-1,3-Dichloropropene | 10061-01-5 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Cyclohexane | 110-82-7 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Dichloromethane (Methylene chloride) | 75-09-2 | 50 | ug/kg | **14** | NT | **13** | < 1 U | **11** | < 1 U | **15** | **12** |
| | Ethylbenzene | 100-41-4 | 1,000 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Isopropylbenzene | 98-82-8 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 2,400 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Methyl acetate | 79-20-9 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Methyl n-butyl ketone (2-Hexanone) | 591-78-6 | NA | ug/kg | < 26 U | NT | < 28 U | < 5 U | < 28 U | < 5 U | < 29 U | < 30 U |
| | Methylbenzene (Toluene) | 108-88-3 | 700 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Methylcyclohexane | 108-87-2 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | **2** | < 6 U | < 6 U |
| | Methyl Tert Butyl Ether (MTBE) | 1634-04-4 | 930 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Styrene (Monomer) | 100-42-5 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Tetrachloroethene | 127-18-4 | 1,300 | ug/kg | **2 J** | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Total Xylenes | 1330-20-7 | 260 | ug/kg | < 16 U | NT | < 17 U | < 3 U | < 17 U | < 3 U | < 18 U | < 18 U |
| | trans-1,2-Dichloroethene | 156-60-5 | 190 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | trans-1,3-Dichloropropene | 10061-02-6 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Tribromomethane (Bromoform) | 75-25-2 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Trichloroethylene (Trichloroethene) | 79-01-6 | 470 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | **7** |
| | Vinyl chloride | 75-01-4 | 20 | ug/kg | < 10 U | NT | < 11 U | < 1 U | < 11 U | < 1 U | < 12 U | < 12 U |
| Semi-Volatile Organic Compounds | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 790 U | NT | < 1,900 U | NT | < 380 U | < 11 U | < 2,300 U | < 380 U |
| | 1,2-Benzphenanthracene (Chrysene) | 218-01-9 | 1,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | 11 U1 | < 6 U | 62 U1 | < 200 U |
| | 1,2-dichlorobenzene | 95-50-1 | 1,100 | ug/kg | < 790 U | NT | < 1,900 U | NT | < 380 U | < 11 U | < 2,300 U | < 380 U |
| | 1,4-dichlorobenzene | 106-46-7 | 1,800 | ug/kg | < 790 U | NT | < 1,900 U | NT | < 380 U | < 11 U | < 2,300 U | < 380 U |
| | 2,2'-oxybis(1-Chloropropane) [bis(2-chloro-1-methyletheyl) ether] | 108-60-1 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 2,4,5-Trichlorophenol | 95-95-4 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 2,4,6-Trichlorophenol | 88-06-2 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 2,4-Dichlorophenol | 120-83-2 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |

**TABLE 9 - Summary of Soil Sample Analytical Results Compared to NYSDEC Part 375 Unrestricted Use SCOs**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | SB-07-091808 (6-8') | SB-08-091808 (2-4') | SB-08-091808 (8-10') | Trip Blank | SB-09-091908 (2-4') | EQBLNK SB-09-091908 | SB-10-091908 (4-8') | Blind Dup |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | 2,4-Dimethylphenol | 105-67-9 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 2,4-Dinitrophenol | 51-28-5 | NA | ug/kg | < 790 U | NT | < 1,900 U | NT | **380 UJ1** | < 11 U | **2,300 UJ1** | < 380 U |
| | 2,4-Dinitrotoluene | 121-14-2 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 2,6-Dinitrotoluene | 606-20-2 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 2-Chloronaphthalene | 91-58-7 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 2-Chlorophenol | 95-57-8 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 2-Methylnaphthalene | 91-57-6 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 2-Methylphenol | 95-48-7 | 330 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 2-Nitroaniline | 88-74-4 | NA | ug/kg | < 790 U | NT | < 1,900 U | NT | < 380 U | < 11 U | < 2,300 U | < 380 U |
| | 2-Nitrophenol | 88-75-5 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 3,3'-Dichlorobenzidine | 91-94-1 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 3,5,5-Trimethyl-2-cyclohexene-1-one (Isophorone) | 78-59-1 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 3-Nitroaniline | 99-09-2 | NA | ug/kg | < 790 U | NT | < 1,900 U | NT | < 380 U | < 11 U | < 2,300 U | < 380 U |
| | 4,6-Dinitro-2-methylphenol | 534-52-1 | NA | ug/kg | < 790 U | NT | < 1,900 U | NT | **380 UJ1** | < 11 U | **2,300 UJ1** | < 380 U |
| | 4-Bromophenyl phenyl ether | 101-55-3 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 4-Chloro-3-methylphenol | 59-50-7 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 4-Chlorophenyl phenyl ether | 7005-72-3 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 4-Methylphenol | 106-44-5 | 330 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 4-Nitrophenol | 100-02-7 | NA | ug/kg | < 790 U | NT | < 1,900 U | NT | < 380 U | < 11 U | < 2,300 U | < 380 U |
| | Acenaphthene | 83-32-9 | 20,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Acenaphthylene | 208-96-8 | 100,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Anthracene | 120-12-7 | 100,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Benzo(a)anthracene | 56-55-3 | 1,000 | ug/kg | **28 J** | NT | < 1,000 U | NT | 20 U1 | < 6 U | 92 U1 | 13 U1 |
| | Benzo(a)pyrene | 50-32-8 | 1,000 | ug/kg | **24 J** | NT | < 1,000 U | NT | 37 U1 | < 6 U | 200 U1 | 24 U1 |
| | Benzo(b)fluoranthene | 205-99-2 | 1,000 | ug/kg | **36 J** | NT | < 1,000 U | NT | 27 U1 | < 6 U | 120 U1 | 16 U1 |
| | Benzo(ghi)perylene | 191-24-2 | 100,000 | ug/kg | **16 J** | NT | < 1,000 U | NT | 53 U1 | < 6 U | 320 U1 | 37 U1 |
| | Benzo(k)fluoranthene | 207-08-9 | 800 | ug/kg | < 400 U | NT | < 1,000 U | NT | 31 U1 | < 6 U | 170 U1 | 17 U1 |
| | Benzyl alcohol | 100-51-6 | NA | ug/kg | < 790 U | NT | < 1,900 U | NT | < 380 U | < 22 U | < 2,300 U | < 380 U |
| | Benzyl butyl phthalate (Butyl benzyl phthalate) | 85-68-7 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Bis(2-chloroethoxy) methane | 111-91-1 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Bis(2-chloroethyl) ether | 111-44-4 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Bis(2-ethylhexyl) phthalate | 117-81-7 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | 66 U1 |
| | Dibenzo(a,h)anthracene | 53-70-3 | 330 | ug/kg | < 400 U | NT | < 1,000 U | NT | 52 U1 | < 6 U | 280 U1 | 34 U1 |
| | Dibenzofuran | 132-64-9 | 7,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Diethyl phthalate | 84-66-2 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Dimethyl phthalate | 131-11-3 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Di-n-butyl phthalate | 84-74-2 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Di-n-octyl phthalate | 117-84-0 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Fluoranthene | 206-44-0 | 100,000 | ug/kg | **30 J** | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Fluorene | 86-73-7 | 30,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Hexachloro-1,3-Butadiene (Hexachlorobutadiene) | 87-68-3 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Hexachlorobenzene | 118-74-1 | 330 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Hexachlorocyclopentadiene | 77-47-4 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Hexachloroethane | 67-72-1 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Indeno(1,2,3-cd)pyrene | 193-39-5 | 500 | ug/kg | < 400 U | NT | < 1,000 U | NT | 63 U1 | < 6 U | 310 U1 | 40 U1 |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 2,400 | ug/kg | < 790 U | NT | < 1,900 U | NT | < 380 U | < 11 U | < 2,300 U | < 380 U |
| | Methanamine, N-methyl-n-nitroso (N-Nitrosodimethylamine) | 62-75-9 | NA | ug/kg | < 790 U | NT | < 1,900 U | NT | < 380 U | < 11 U | < 2,300 U | < 380 U |
| | Naphthalene | 91-20-3 | 12,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Nitrobenzene | 98-95-3 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | N-Nitrosodi-n-propylamine (N-Nitroso-Di-n-propylamine) | 621-64-7 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | N-Nitrosodiphenylamine | 86-30-6 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | **440 J** | < 200 U |
| | P-Chloroaniline (4-Chloraniline) | 106-47-8 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Pentachlorophenol | 87-86-5 | 800 | ug/kg | < 790 U | NT | < 1,900 U | NT | **380 UJ1** | < 11 U | **2,300 UJ1** | < 380 U |
| | Phenanthrene | 85-01-8 | 100,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Phenol | 108-95-2 | 330 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | P-Nitroaniline (4-Nitroaniline) | 100-01-6 | NA | ug/kg | < 790 U | NT | < 1,900 U | NT | < 380 U | < 11 U | < 2,300 U | < 380 U |
| | Pyrene | 129-00-0 | 100,000 | ug/kg | **17 J** | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |

**TABLE 9 - Summary of Soil Sample Analytical Results Compared to NYSDEC Part 375 Unrestricted Use SCOs**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | SB-11-091908 (8-9') | SB-12-091908 (5-7') | SB-13-091908 (8-10') | SB-14-091908 (8-10') | SB-15-091908 (10-12') | SB-16-91908 (13-14.6') | SB-17-091908 (4-8') | SB-18-091908 (9-12') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metals | Aluminum (fume or dust) | 7429-90-5 | NA | mg/kg | **3,930 J1** | **4,240 J1** | **3,260 J1** | **2,620 EN** | **3,210 J1** | **2,610 J1** | **6,370 J1** | **2,960 J1** |
| | Antimony | 7440-36-0 | NA | mg/kg | **16.5 UJ1** | **19.5 UJ1** | **19.3 UJ1** | **18.9 UJ1** | **17.2 UJ1** | **21 UJ1** | **19.5 UJ1** | **18.5 UJ1** |
| | Arsenic | 7440-38-2 | 13 | mg/kg | **4.4** | **10.3** | **4.3** | < 2.5 U | < 2.3 U | **5.1** | **2.7** | **4.5** |
| | Barium | 7440-39-3 | 350 | mg/kg | **37.5 E** | **27.3 E** | **27.7 E** | **23.4 E** | **26.1 E** | **25.9 E** | **35.2 E** | **21.3 E** |
| | Beryllium | 7440-41-7 | 7.2 | mg/kg | **0.29** | **0.4** | < 0.26 U | < 0.25 U | < 0.23 U | **0.29** | **0.27** | < 0.25 U |
| | Cadmium | 7440-43-9 | 2.5 | mg/kg | < 0.22 U | < 0.26 U | < 0.26 U | < 0.25 U | < 0.23 U | < 0.28 U | < 0.26 U | < 0.25 U |
| | Calcium metal | 7440-70-2 | NA | mg/kg | **59,400 J1** | **2,400 J1** | **72,900 J1** | **44,000 N** | **28,300 J1** | **172,000 J1** | **3,950 J1** | **98,600 J1** |
| | Chromium | 7440-47-3 | 1 Hexavalent / 30 Trivalent | mg/kg | **9.4 E** | **6.8 E** | **4.9 E** | **4 E** | **6.1 E** | **4.3 E** | **8.4 E** | **4.5 E** |
| | Cobalt | 7440-48-4 | NA | mg/kg | **3.8** | **5.1** | **3.5** | **2.5** | **2.6** | **3.2** | **4.9** | **3.6** |
| | Copper | 7440-50-8 | 50 | mg/kg | **134 J1** | **9.6 J1** | **14.8 J1** | **18.3 N** | **12.8 J1** | **13 J1** | **35.9 J1** | **15.2 J1** |
| | Iron | 7439-89-6 | NA | mg/kg | **10,600** | **20,200** | **9,180** | **5,000** | **6,000** | **9,640** | **11,200** | **7,800** |
| | Lead | 7439-92-1 | 63 | mg/kg | **21.9** | **19.2** | **8.4** | **5.2** | **2.1** | **12.7** | **9.7** | **9.1** |
| | Magnesium | 7439-95-4 | NA | mg/kg | **11,500 J1** | **1,490 J1** | **10,000 J1** | **5,680 EN** | **8,120 J1** | **25,300 J1** | **2,360 J1** | **16,000 J1** |
| | Manganese | 7439-96-5 | 1,600 | mg/kg | **461** | **389** | **658** | **319** | **197** | **459** | **468** | **351** |
| | Mercury | 7439-97-6 | 0.18 | mg/kg | < 0.022 U | < 0.027 U | < 0.023 U | < 0.022 U | < 0.022 U | < 0.025 U | < 0.024 U | < 0.023 U |
| | Nickel | 7440-02-0 | 30 | mg/kg | **8.4 E** | **10.7 E** | **8.6 E** | **6.1 E** | **6.4 E** | **8.5 E** | **11.4 E** | **7.8 E** |
| | Potassium | 7440-09-7 | NA | mg/kg | **1,140 J1** | **1,500 J1** | **1,330 J1** | **1,020 EN** | **662 J1** | **1,730 J1** | **1,250 J1** | **1,390 J1** |
| | Selenium | 7782-49-2 | 3.9 | mg/kg | < 4.4 U | < 5.2 U | < 5.2 U | < 5 U | < 4.6 U | < 5.6 U | < 5.2 U | < 4.9 U |
| | Silver | 7440-22-4 | 2 | mg/kg | < 0.55 U | < 0.65 U | < 0.64 U | < 0.63 U | < 0.57 U | < 0.7 U | < 0.65 U | < 0.62 U |
| | Sodium | 7440-23-5 | NA | mg/kg | **178** | **< 182 U** | **252** | **223** | < 161 U | < 196 U | < 182 U | < 173 U |
| | Thallium | 7440-28-0 | NA | mg/kg | < 6.6 U | < 7.8 U | < 7.7 U | < 7.6 U | < 6.9 U | < 8.4 U | < 7.8 U | < 7.4 U |
| | Vanadium (fume or dust) | 7440-62-2 | NA | mg/kg | **8.5 E** | **10.6 E** | **6.6 E** | **5.4 E** | **6.1 E** | **5.2 E** | **12.4 E** | **6.1 E** |
| | Zinc | 7440-66-6 | 109 | mg/kg | **122 J1** | **170 J1** | **36.6 J1** | **22.2 N*** | **24.5 J1** | **21.7 J1** | **73.2 J1** | **20.4 J1** |
| Pesticides | Methoxychlor [1,1,1-Trichloro-2,2-Bis (p-methoxphenyl)-ethane] | 72-43-5 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | 4,4'-DDD | 72-54-8 | 3.3 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | 4,4'-DDE | 72-55-9 | 3.3 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | 4,4'-DDT | 50-29-3 | 3.3 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Aldrin | 309-00-2 | 5 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | alpha-BHC | 319-84-6 | 20 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | alpha-Chlordane | 5103-71-9 | 94 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | beta-BHC | 319-85-7 | 36 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Toxaphene [Camphechlor] | 8001-35-2 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | delta-BHC | 319-86-8 | 40 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Dieldrin | 60-57-1 | 5 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endosulfan I | 959-98-8 | 2,400 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endosulfan II | 33213-65-9 | 2,400 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endosulfan sulfate | 1031-07-8 | 2,400 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endrin | 72-20-8 | 14 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endrin Aldehyde | 7421-93-4 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endrin Ketone | 53494-70-5 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | gamma-BHC (Lindane) | 58-89-9 | 100 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | gamma-Chlordane | 5103-74-2 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Heptachlor | 76-44-8 | 42 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Heptachlor epoxide | 1024-57-3 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| PCBs | Aroclor-1016 (PCB-1016) | 12674-11-2 | 100** | ug/kg | < 19 U | < 20 U | < 20 U | < 20 U | < 19 U | < 21 U | < 19 U | < 19 U |
| | Aroclor-1221 (PCB-1221) | 11104-28-2 | 100** | ug/kg | < 19 U | < 20 U | < 20 U | < 20 U | < 19 U | < 21 U | < 19 U | < 19 U |
| | Aroclor-1232 (PCB-1232) | 11141-16-5 | 100** | ug/kg | < 19 U | < 20 U | < 20 U | < 20 U | < 19 U | < 21 U | < 19 U | < 19 U |
| | Aroclor-1242 (PCB-1242) | 53469-21-9 | 100** | ug/kg | < 19 U | < 20 U | < 20 U | < 20 U | < 19 U | < 21 U | < 19 U | < 19 U |
| | Aroclor-1248 (PCB-1248) | 12672-29-6 | 100** | ug/kg | < 19 U | < 20 U | < 20 U | < 20 U | < 19 U | < 21 U | < 19 U | < 19 U |
| | Aroclor-1254 (PCB-1254) | 11097-69-1 | 100** | ug/kg | < 19 U | < 20 U | < 20 U | < 20 U | < 19 U | < 21 U | < 19 U | < 19 U |
| | Aroclor-1260 (PCB-1260) | 11096-82-5 | 100** | ug/kg | < 19 U | < 20 U | < 20 U | < 20 U | < 19 U | < 21 U | < 19 U | < 19 U |

**TABLE 9 - Summary of Soil Sample Analytical Results Compared to NYSDEC Part 375 Unrestricted Use SCOs**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | SB-11-091908 (8-9') | SB-12-091908 (5-7') | SB-13-091908 (8-10') | SB-14-091908 (8-10') | SB-15-091908 (10-12') | SB-16-91908 (13-14.6') | SB-17-091908 (4-8') | SB-18-091908 (9-12') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organic Compounds | 1,1,1-Trichloroethane | 71-55-6 | 680 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,1,2,2-Tetrachloroethane | 79-34-5 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,1,2-Trichloroethane | 79-00-5 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,1-Dichloroethane | 75-34-3 | 270 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,1-Dichloroethylene (1,1-Dichloroethene) | 75-35-4 | 330 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,2-Dibromo-3-Chloropropane (DBCP) | 96-12-8 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,2-Dibromoethane (Ethylene Dibromide) | 106-93-4 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,2-Dichlorobenzene | 95-50-1 | 1,100 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,2-Dichloroethane | 107-06-2 | 20 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,2-Dichloropropane | 78-87-5 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,4-Dichlorobenzene | 106-46-7 | 1,800 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 2-Butanone (Methyl Ethyl Ketone) | 78-93-3 | 120 | ug/kg | < 30 U | < 30 U | < 29 U | < 130 U | < 30 U | < 140 U | < 130 U | < 150 U |
| | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) | 108-10-1 | NA | ug/kg | < 30 U | < 30 U | < 29 U | < 130 U | < 30 U | < 140 U | < 130 U | < 150 U |
| | Acetone | 67-64-1 | 50 | ug/kg | 34 U1 | 10 U1 | 19 U1 | **43 J** | 38 U1 | 55 U1 | **77 J** | 49 U1 |
| | Benzene | 71-43-2 | 60 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Bromodichloromethane | 75-27-4 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Bromomethane | 74-83-9 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Carbon disulfide | 75-15-0 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | **1 J** | < 29 U | < 26 U | < 29 U |
| | Carbon Tetrachloride | 56-23-5 | 760 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | CFC-11 (Freon 11, Trichlorofluoromethane) | 75-69-4 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | CFC-12 (Freon 12, Dichlorodifluoromethane) | 75-71-8 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Chlorinated Fluorocarbon (Freon 113, 1,1,2-Trichloro-1,2,2-trifluoroethane) | 76-13-1 | NA | ug/kg | **15** | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Chlorobenzene | 108-90-7 | 1,100 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Chlorodibromomethane (Dibromochloromethane) | 124-48-1 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Chloroethane | 75-00-3 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Chloroform | 67-66-3 | 370 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Chloromethane | 74-87-3 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | cis-1,2-Dichloroethene | 156-59-2 | 250 | ug/kg | **15** | **8** | **5 J** | < 26 U | **4 J** | < 29 U | **160** | < 29 U |
| | cis-1,3-Dichloropropene | 10061-01-5 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Cyclohexane | 110-82-7 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Dichloromethane (Methylene chloride) | 75-09-2 | 50 | ug/kg | **12** | **11** | **12** | **17 J** | **16** | < 29 U | **11 J** | < 29 U |
| | Ethylbenzene | 100-41-4 | 1,000 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | **93** | < 29 U |
| | Isopropylbenzene | 98-82-8 | NA | ug/kg | < 6 U | < 6 U | < 6 U | **26** | < 6 U | < 29 U | **79** | **9 J** |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 2,400 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Methyl acetate | 79-20-9 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Methyl n-butyl ketone (2-Hexanone) | 591-78-6 | NA | ug/kg | < 30 U | < 30 U | < 29 U | < 130 U | < 30 U | < 140 U | < 130 U | < 150 U |
| | Methylbenzene (Toluene) | 108-88-3 | 700 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Methylcyclohexane | 108-87-2 | NA | ug/kg | < 6 U | < 6 U | < 6 U | **40** | < 6 U | < 29 U | **28** | **23 J** |
| | Methyl Tert Butyl Ether (MTBE) | 1634-04-4 | 930 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Styrene (Monomer) | 100-42-5 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Tetrachloroethene | 127-18-4 | 1,300 | ug/kg | < 6 U | < 6 U | **4 J** | < 26 U | < 6 U | < 29 U | **5 J** | < 29 U |
| | Total Xylenes | 1330-20-7 | 260 | ug/kg | < 18 U | < 18 U | < 18 U | **23 J** | < 18 U | < 87 U | **15 J** | < 88 U |
| | trans-1,2-Dichloroethene | 156-60-5 | 190 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | trans-1,3-Dichloropropene | 10061-02-6 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Tribromomethane (Bromoform) | 75-25-2 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Trichloroethylene (Trichloroethene) | 79-01-6 | 470 | ug/kg | **220** | < 6 U | **22** | < 26 U | < 6 U | < 29 U | **1,200 D** | < 29 U |
| | Vinyl chloride | 75-01-4 | 20 | ug/kg | < 12 U | < 12 U | < 12 U | < 52 U | < 12 U | < 58 U | < 52 U | < 59 U |
| Semi-Volatile Organic Compounds | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 1,900 U | < 410 U | < 410 U | < 400 U | < 370 U | < 410 U | < 390 U | < 380 U |
| | 1,2-Benzphenanthracene (Chrysene) | 218-01-9 | 1,000 | ug/kg | 43 U1 | < 210 U | < 210 U | **12 BJ** | < 190 U | 8 U1 | 20 U1 | 29 U1 |
| | 1,2-dichlorobenzene | 95-50-1 | 1,100 | ug/kg | < 1,900 U | < 410 U | < 410 U | < 400 U | < 370 U | < 410 U | < 390 U | < 380 U |
| | 1,4-dichlorobenzene | 106-46-7 | 1,800 | ug/kg | < 1,900 U | < 410 U | < 410 U | < 400 U | < 370 U | < 410 U | < 390 U | < 380 U |
| | 2,2'-oxybis(1-Chloropropane) [bis(2-chloro-1-methyletheyl) ether] | 108-60-1 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 2,4,5-Trichlorophenol | 95-95-4 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 2,4,6-Trichlorophenol | 88-06-2 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 2,4-Dichlorophenol | 120-83-2 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |

**TABLE 9 - Summary of Soil Sample Analytical Results Compared to NYSDEC Part 375 Unrestricted Use SCOs**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | SB-11-091908 (8-9') | SB-12-091908 (5-7') | SB-13-091908 (8-10') | SB-14-091908 (8-10') | SB-15-091908 (10-12') | SB-16-91908 (13-14.6') | SB-17-091908 (4-8') | SB-18-091908 (9-12') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | 2,4-Dimethylphenol | 105-67-9 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 2,4-Dinitrophenol | 51-28-5 | NA | ug/kg | **1,900 UJ1** | **410 UJ1** | **410 U** | **400 UJ1** | **370 UJ1** | **410 UJ1** | **390 UJ1** | **380 UJ1** |
| | 2,4-Dinitrotoluene | 121-14-2 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 2,6-Dinitrotoluene | 606-20-2 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 2-Chloronaphthalene | 91-58-7 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 2-Chlorophenol | 95-57-8 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 2-Methylnaphthalene | 91-57-6 | NA | ug/kg | < 960 U | < 210 U | < 210 U | **4,500** | < 190 U | < 210 U | **12,000 D** | **3,200** |
| | 2-Methylphenol | 95-48-7 | 330 | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 2-Nitroaniline | 88-74-4 | NA | ug/kg | < 1,900 U | < 410 U | < 410 U | < 400 U | < 370 U | < 410 U | < 390 U | < 380 U |
| | 2-Nitrophenol | 88-75-5 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 3,3'-Dichlorobenzidine | 91-94-1 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 3,5,5-Trimethyl-2-cyclohexene-1-one (Isophorone) | 78-59-1 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 3-Nitroaniline | 99-09-2 | NA | ug/kg | < 1,900 U | < 410 U | < 410 U | < 400 U | < 370 U | < 410 U | < 390 U | < 380 U |
| | 4,6-Dinitro-2-methylphenol | 534-52-1 | NA | ug/kg | **1,900 UJ1** | **410 UJ1** | **410 UJ1** | **400 UJ1** | **370 UJ1** | **410 UJ1** | **390 UJ1** | **380 UJ1** |
| | 4-Bromophenyl phenyl ether | 101-55-3 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 4-Chloro-3-methylphenol | 59-50-7 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 4-Chlorophenyl phenyl ether | 7005-72-3 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 4-Methylphenol | 106-44-5 | 330 | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 4-Nitrophenol | 100-02-7 | NA | ug/kg | < 1,900 U | < 410 U | < 410 U | < 400 U | < 370 U | < 410 U | < 390 U | < 380 U |
| | Acenaphthene | 83-32-9 | 20,000 | ug/kg | < 960 U | < 210 U | < 210 U | **280** | **18 J** | < 210 U | **720** | **290** |
| | Acenaphthylene | 208-96-8 | 100,000 | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Anthracene | 120-12-7 | 100,000 | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | **140 J** |
| | Benzo(a)anthracene | 56-55-3 | 1,000 | ug/kg | 55 U1 | 10 U1 | < 210 U | **17 BJ** | 10 U1 | 10 U1 | 24 U1 | 31 U1 |
| | Benzo(a)pyrene | 50-32-8 | 1,000 | ug/kg | 110 U1 | 19 U1 | 16 U1 | **17 BJ** | 11 U1 | 16 U1 | 20 U1 | 64 U1 |
| | Benzo(b)fluoranthene | 205-99-2 | 1,000 | ug/kg | 78 U1 | 14 U1 | 13 U1 | **16 BJ** | 12 U1 | 12 U1 | 21 U1 | 45 U1 |
| | Benzo(ghi)perylene | 191-24-2 | 100,000 | ug/kg | 200 U1 | 31 U1 | 25 U1 | **26 BJ** | 19 U1 | 25 U1 | 26 U1 | 83 U1 |
| | Benzo(k)fluoranthene | 207-08-9 | 800 | ug/kg | 85 U1 | 13 U1 | 11 U1 | **15 BJ** | 11 U1 | 11 U1 | 16 U1 | 50 U1 |
| | Benzyl alcohol | 100-51-6 | NA | ug/kg | < 1,900 U | < 410 U | < 410 U | < 400 U | < 370 U | < 410 U | < 390 U | < 380 U |
| | Benzyl butyl phthalate (Butyl benzyl phthalate) | 85-68-7 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Bis(2-chloroethoxy) methane | 111-91-1 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Bis(2-chloroethyl) ether | 111-44-4 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Bis(2-ethylhexyl) phthalate | 117-81-7 | NA | ug/kg | < 960 U | < 210 U | < 210 U | **130 BJ** | < 190 U | < 210 U | < 200 U | < 200 U |
| | Dibenzo(a,h)anthracene | 53-70-3 | 330 | ug/kg | 160 U1 | 28 U1 | 25 U1 | **23 BJ** | 19 U1 | 19 U1 | 20 U1 | 87 U1 |
| | Dibenzofuran | 132-64-9 | 7,000 | ug/kg | < 960 U | < 210 U | < 210 U | **260** | **11 J** | < 210 U | < 200 U | **300** |
| | Diethyl phthalate | 84-66-2 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Dimethyl phthalate | 131-11-3 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Di-n-butyl phthalate | 84-74-2 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Di-n-octyl phthalate | 117-84-0 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | **11 BJ** |
| | Fluoranthene | 206-44-0 | 100,000 | ug/kg | < 960 U | < 210 U | < 210 U | **34 BJ** | < 190 U | 11 U1 | < 200 U | < 200 U |
| | Fluorene | 86-73-7 | 30,000 | ug/kg | < 960 U | < 210 U | < 210 U | **350** | **27 J** | < 210 U | **2,000** | **470** |
| | Hexachloro-1,3-Butadiene (Hexachlorobutadiene) | 87-68-3 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Hexachlorobenzene | 118-74-1 | 330 | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Hexachlorocyclopentadiene | 77-47-4 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Hexachloroethane | 67-72-1 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Indeno(1,2,3-cd)pyrene | 193-39-5 | 500 | ug/kg | 190 U1 | 32 U1 | 24 U1 | **25 BJ** | 21 U1 | 23 U1 | 23 U1 | 86 U1 |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 2,400 | ug/kg | < 1,900 U | < 410 U | < 410 U | < 400 U | < 370 U | < 410 U | < 390 U | < 380 U |
| | Methanamine, N-methyl-n-nitroso (N-Nitrosodimethylamine) | 62-75-9 | NA | ug/kg | < 1,900 U | < 410 U | < 410 U | < 400 U | < 370 U | < 410 U | < 390 U | < 380 U |
| | Naphthalene | 91-20-3 | 12,000 | ug/kg | < 960 U | < 210 U | < 210 U | **650** | < 190 U | < 210 U | **1,200** | **460** |
| | Nitrobenzene | 98-95-3 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | N-Nitrosodi-n-propylamine (N-Nitroso-Di-n-propylamine) | 621-64-7 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | N-Nitrosodiphenylamine | 86-30-6 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | **10,000 D** | < 200 U |
| | P-Chloroaniline (4-Chloraniline) | 106-47-8 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Pentachlorophenol | 87-86-5 | 800 | ug/kg | **1,900 UJ1** | **410 UJ1** | **410 UJ1** | **400 UJ1** | **370 UJ1** | **410 UJ1** | **390 UJ1** | **380 UJ1** |
| | Phenanthrene | 85-01-8 | 100,000 | ug/kg | < 960 U | < 210 U | < 210 U | **1,200 B** | 9 U1 | 22 U1 | **3,600 B** | **1,200 B** |
| | Phenol | 108-95-2 | 330 | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | P-Nitroaniline (4-Nitroaniline) | 100-01-6 | NA | ug/kg | < 1,900 U | < 410 U | < 410 U | < 400 U | < 370 U | < 410 U | < 390 U | < 380 U |
| | Pyrene | 129-00-0 | 100,000 | ug/kg | < 960 U | < 210 U | < 210 U | **35 J** | < 190 U | < 210 U | **100 J** | **30 J** |

**TABLE 9 - Summary of Soil Sample Analytical Results Compared to NYSDEC Part 375 Unrestricted Use SCOs**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | TRIP BLANK | SB-19-092408 (10-13') | SB-20-92408 (13-14.2') | SB-21-92408 (13-13.5') | SB-22-092408 (10-12') | SB-23-092408 (7-8') | SB-24-092408 (8-10.5') | Blind Dup-092408 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metals | Aluminum (fume or dust) | 7429-90-5 | NA | mg/kg | NT | **2,840 E** | **3,680 E** | **3,840 E** | **3,390 E** | **2,970 E** | **2,730 E** | **2,730 E** |
| | Antimony | 7440-36-0 | NA | mg/kg | NT | **18.7 UJ1** | **17.7 UJ1** | **16.9 UJ1** | **18.7 UJ1** | **17.6 UJ1** | **17.9 UJ1** | **< 18.6 UJ1** |
| | Arsenic | 7440-38-2 | 13 | mg/kg | NT | **5.3** | **10.9** | < 2.2 U | < 2.5 U | **4.9** | **3.5** | **4.1** |
| | Barium | 7440-39-3 | 350 | mg/kg | NT | **22.3 E** | **27.9 E** | **25.4 E** | **16.4 E** | **60.9 E** | **21.7 E** | **24.6 E** |
| | Beryllium | 7440-41-7 | 7.2 | mg/kg | NT | < 0.25 U | **0.35** | **0.26** | < 0.25 U | **0.25** | < 0.24 U | < 0.25 U |
| | Cadmium | 7440-43-9 | 2.5 | mg/kg | NT | < 0.25 U | < 0.24 U | < 0.22 U | < 0.25 U | < 0.23 U | < 0.24 U | < 0.25 U |
| | Calcium metal | 7440-70-2 | NA | mg/kg | NT | **128,000 *** | **171,000 *** | **122,000 *** | **18,200 *** | **147,000 *** | **73,200 *** | **116,000 J1** |
| | Chromium | 7440-47-3 | 1 Hexavalent / 30 Trivalent | mg/kg | NT | **5.7** | **5.1** | **13.9** | **5.6** | **6** | **5.7** | **6.5** |
| | Cobalt | 7440-48-4 | NA | mg/kg | NT | **4** | **4.7** | **10.6** | **3.4** | **4.3** | **3.2** | **3.3** |
| | Copper | 7440-50-8 | 50 | mg/kg | NT | **12.7** | **10.6** | **50.2** | **23.7** | **17.7** | **7.4** | **9.8** |
| | Iron | 7439-89-6 | NA | mg/kg | NT | **8,130 J1** | **14,400 J1** | **6,060 J1** | **7,490 J1** | **8,870 J1** | **7,770 J1** | **8,750 J1** |
| | Lead | 7439-92-1 | 63 | mg/kg | NT | **9** | **11.9** | **23.4** | **2.5** | **8.8** | **9.3** | **10.8** |
| | Magnesium | 7439-95-4 | NA | mg/kg | NT | **13,700 E** | **19,000 E** | **47,700 E** | **4,590 E** | **15,600 E** | **11,500 E** | **18,300 E** |
| | Manganese | 7439-96-5 | 1,600 | mg/kg | NT | **354 E** | **416 E** | **280 E** | **107 E** | **603 E** | **426 E** | **359 E** |
| | Mercury | 7439-97-6 | 0.18 | mg/kg | NT | < 0.024 U | < 0.022 U | **0.027** | < 0.023 U | < 0.024 U | < 0.025 U | < 0.023 U |
| | Nickel | 7440-02-0 | 30 | mg/kg | NT | **8.6** | **11** | **5.6** | **7.7** | **7** | **6.9** | **7.3** |
| | Potassium | 7440-09-7 | NA | mg/kg | NT | **1,550** | **2,350** | **1,020** | **844** | **1,400** | **1,070** | **1,410** |
| | Selenium | 7782-49-2 | 3.9 | mg/kg | NT | < 5 U | < 4.7 U | < 4.5 U | < 5 U | < 4.7 U | < 4.8 U | **< 5 UJ1** |
| | Silver | 7440-22-4 | 2 | mg/kg | NT | < 0.62 U | < 0.59 U | < 0.56 U | < 0.62 U | < 0.59 U | < 0.6 U | < 0.62 U |
| | Sodium | 7440-23-5 | NA | mg/kg | NT | < 175 U | **180** | **220** | < 174 U | **309** | < 167 U | < 174 U |
| | Thallium | 7440-28-0 | NA | mg/kg | NT | < 7.5 U | < 7.1 U | < 6.7 U | < 7.5 U | < 7 U | < 7.1 U | < 7.4 U |
| | Vanadium (fume or dust) | 7440-62-2 | NA | mg/kg | NT | **5** | **5.9** | **6.7** | **7.1** | **6.7** | **5** | **5.5** |
| | Zinc | 7440-66-6 | 109 | mg/kg | NT | **23.9** | **35.9** | **46.3** | **30.6** | **22.5** | **25.6** | **24.4** |
| Pesticides | Methoxychlor [1,1,1-Trichloro-2,2-Bis (p-methoxphenyl)-ethane] | 72-43-5 | NA | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | 4,4'-DDD | 72-54-8 | 3.3 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | 4,4'-DDE | 72-55-9 | 3.3 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | 4,4'-DDT | 50-29-3 | 3.3 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Aldrin | 309-00-2 | 5 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | alpha-BHC | 319-84-6 | 20 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | alpha-Chlordane | 5103-71-9 | 94 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | beta-BHC | 319-85-7 | 36 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Toxaphene [Camphechlor] | 8001-35-2 | NA | ug/kg | NT | NT | < 19 U | NT | NT | NT | NT | NT |
| | delta-BHC | 319-86-8 | 40 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Dieldrin | 60-57-1 | 5 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Endosulfan I | 959-98-8 | 2,400 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Endosulfan II | 33213-65-9 | 2,400 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Endosulfan sulfate | 1031-07-8 | 2,400 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Endrin | 72-20-8 | 14 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Endrin Aldehyde | 7421-93-4 | NA | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Endrin Ketone | 53494-70-5 | NA | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | gamma-BHC (Lindane) | 58-89-9 | 100 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | gamma-Chlordane | 5103-74-2 | NA | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Heptachlor | 76-44-8 | 42 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Heptachlor epoxide | 1024-57-3 | NA | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| PCBs | Aroclor-1016 (PCB-1016) | 12674-11-2 | 100** | ug/kg | NT | < 20 U | < 19 U | < 18 U | < 19 U | < 20 U | < 20 U | < 20 U |
| | Aroclor-1221 (PCB-1221) | 11104-28-2 | 100** | ug/kg | NT | < 20 U | < 19 U | < 18 U | < 19 U | < 20 U | < 20 U | < 20 U |
| | Aroclor-1232 (PCB-1232) | 11141-16-5 | 100** | ug/kg | NT | < 20 U | < 19 U | < 18 U | < 19 U | < 20 U | < 20 U | < 20 U |
| | Aroclor-1242 (PCB-1242) | 53469-21-9 | 100** | ug/kg | NT | < 20 U | < 19 U | < 18 U | < 19 U | < 20 U | < 20 U | < 20 U |
| | Aroclor-1248 (PCB-1248) | 12672-29-6 | 100** | ug/kg | NT | < 20 U | < 19 U | < 18 U | < 19 U | < 20 U | < 20 U | < 20 U |
| | Aroclor-1254 (PCB-1254) | 11097-69-1 | 100** | ug/kg | NT | < 20 U | < 19 U | < 18 U | < 19 U | < 20 U | < 20 U | < 20 U |
| | Aroclor-1260 (PCB-1260) | 11096-82-5 | 100** | ug/kg | NT | < 20 U | < 19 U | < 18 U | < 19 U | < 20 U | < 20 U | < 20 U |

**TABLE 9 - Summary of Soil Sample Analytical Results Compared to NYSDEC Part 375 Unrestricted Use SCOs**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | TRIP BLANK | SB-19-092408 (10-13') | SB-20-92408 (13-14.2') | SB-21-92408 (13-13.5') | SB-22-092408 (10-12') | SB-23-092408 (7-8') | SB-24-092408 (8-10.5') | Blind Dup-092408 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organic Compounds | 1,1,1-Trichloroethane | 71-55-6 | 680 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | 1,1,2,2-Tetrachloroethane | 79-34-5 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | 1,1,2-Trichloroethane | 79-00-5 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | **3 J** | **7** |
| | 1,1-Dichloroethane | 75-34-3 | 270 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | 1,1-Dichloroethylene (1,1-Dichloroethene) | 75-35-4 | 330 | ug/kg | < 1 U | < 6 U | < 27 U | **3 J** | < 6 U | < 6 U | < 6 U | < 6 U |
| | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | 1,2-Dibromo-3-Chloropropane (DBCP) | 96-12-8 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | 1,2-Dibromoethane (Ethylene Dibromide) | 106-93-4 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | 1,2-Dichlorobenzene | 95-50-1 | 1,100 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | 1,2-Dichloroethane | 107-06-2 | 20 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | **3 J** | **9** |
| | 1,2-Dichloropropane | 78-87-5 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | 1,4-Dichlorobenzene | 106-46-7 | 1,800 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | 2-Butanone (Methyl Ethyl Ketone) | 78-93-3 | 120 | ug/kg | < 5 U | < 30 U | < 130 U | < 29 U | < 30 U | < 29 U | < 30 U | < 30 U |
| | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) | 108-10-1 | NA | ug/kg | < 5 U | < 30 U | < 130 U | < 29 U | < 30 U | < 29 U | < 30 U | < 30 U |
| | Acetone | 67-64-1 | 50 | ug/kg | < 5 U | 20 U1 | 37 U1 | 29 U1 | 19 U1 | 12 U1 | **11 J** | **10 J** |
| | Benzene | 71-43-2 | 60 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Bromodichloromethane | 75-27-4 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Bromomethane | 74-83-9 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Carbon disulfide | 75-15-0 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Carbon Tetrachloride | 56-23-5 | 760 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | CFC-11 (Freon 11, Trichlorofluoromethane) | 75-69-4 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | CFC-12 (Freon 12, Dichlorodifluoromethane) | 75-71-8 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Chlorinated Fluorocarbon (Freon 113, 1,1,2-Trichloro-1,2,2-trifluoroethane) | 76-13-1 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Chlorobenzene | 108-90-7 | 1,100 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Chlorodibromomethane (Dibromochloromethane) | 124-48-1 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Chloroethane | 75-00-3 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Chloroform | 67-66-3 | 370 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | **2 J** |
| | Chloromethane | 74-87-3 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | cis-1,2-Dichloroethene | 156-59-2 | 250 | ug/kg | < 1 U | < 6 U | < 27 U | **2,100 D** | **290 D** | **5 J** | < 6 U | **2 J** |
| | cis-1,3-Dichloropropene | 10061-01-5 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Cyclohexane | 110-82-7 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Dichloromethane (Methylene chloride) | 75-09-2 | 50 | ug/kg | < 1 U | < 6 U | < 27 U | **2 J** | < 6 U | **5 J** | **4 J** | **4 J** |
| | Ethylbenzene | 100-41-4 | 1,000 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Isopropylbenzene | 98-82-8 | NA | ug/kg | < 1 U | < 6 U | **34** | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 2,400 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Methyl acetate | 79-20-9 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Methyl n-butyl ketone (2-Hexanone) | 591-78-6 | NA | ug/kg | < 5 U | < 30 U | < 130 U | < 29 U | < 30 U | < 29 U | < 30 U | < 30 U |
| | Methylbenzene (Toluene) | 108-88-3 | 700 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Methylcyclohexane | 108-87-2 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Methyl Tert Butyl Ether (MTBE) | 1634-04-4 | 930 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Styrene (Monomer) | 100-42-5 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Tetrachloroethene | 127-18-4 | 1,300 | ug/kg | < 1 U | < 6 U | < 27 U | **13** | < 6 U | **16** | < 6 U | **3 J** |
| | Total Xylenes | 1330-20-7 | 260 | ug/kg | < 3 U | < 18 U | < 80 U | < 18 U | < 18 U | < 17 U | < 18 U | < 18 U |
| | trans-1,2-Dichloroethene | 156-60-5 | 190 | ug/kg | < 1 U | < 6 U | < 27 U | **15** | **6** | < 6 U | < 6 U | < 6 U |
| | trans-1,3-Dichloropropene | 10061-02-6 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Tribromomethane (Bromoform) | 75-25-2 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Trichloroethylene (Trichloroethene) | 79-01-6 | 470 | ug/kg | < 1 U | < 6 U | < 27 U | 940 D | **220** | **26** | **1,600 D** | **11,000 D** |
| | Vinyl chloride | 75-01-4 | 20 | ug/kg | < 1 U | < 12 U | < 54 U | **92** | **4 J** | < 11 U | < 12 U | < 12 U |
| Semi-Volatile Organic Compounds | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 400 U |
| | 1,2-Benzphenanthracene (Chrysene) | 218-01-9 | 1,000 | ug/kg | NT | < 200 U | **15 J** | **21 J** | < 190 U | < 200 U | < 200 U | < 400 U |
| | 1,2-dichlorobenzene | 95-50-1 | 1,100 | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 400 U |
| | 1,4-dichlorobenzene | 106-46-7 | 1,800 | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 210 U |
| | 2,2'-oxybis(1-Chloropropane) [bis(2-chloro-1-methyletheyl) ether] | 108-60-1 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 2,4,5-Trichlorophenol | 95-95-4 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 2,4,6-Trichlorophenol | 88-06-2 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 400 U |
| | 2,4-Dichlorophenol | 120-83-2 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |

**TABLE 9 - Summary of Soil Sample Analytical Results Compared to NYSDEC Part 375 Unrestricted Use SCOs**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | TRIP BLANK | SB-19-092408 (10-13') | SB-20-92408 (13-14.2') | SB-21-92408 (13-13.5') | SB-22-092408 (10-12') | SB-23-092408 (7-8') | SB-24-092408 (8-10.5') | Blind Dup-092408 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | 2,4-Dimethylphenol | 105-67-9 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 2,4-Dinitrophenol | 51-28-5 | NA | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 210 U |
| | 2,4-Dinitrotoluene | 121-14-2 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 2,6-Dinitrotoluene | 606-20-2 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 2-Chloronaphthalene | 91-58-7 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 2-Chlorophenol | 95-57-8 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 2-Methylnaphthalene | 91-57-6 | NA | ug/kg | NT | < 200 U | **590** | **13 J** | < 190 U | < 200 U | < 200 U | < 210 U |
| | 2-Methylphenol | 95-48-7 | 330 | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 2-Nitroaniline | 88-74-4 | NA | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 400 U |
| | 2-Nitrophenol | 88-75-5 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 3,3'-Dichlorobenzidine | 91-94-1 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 3,5,5-Trimethyl-2-cyclohexene-1-one (Isophorone) | 78-59-1 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 3-Nitroaniline | 99-09-2 | NA | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 210 U |
| | 4,6-Dinitro-2-methylphenol | 534-52-1 | NA | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 210 U |
| | 4-Bromophenyl phenyl ether | 101-55-3 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 4-Chloro-3-methylphenol | 59-50-7 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 4-Chlorophenyl phenyl ether | 7005-72-3 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 4-Methylphenol | 106-44-5 | 330 | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 4-Nitrophenol | 100-02-7 | NA | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 210 U |
| | Acenaphthene | 83-32-9 | 20,000 | ug/kg | NT | < 200 U | **730** | **32 J** | < 190 U | < 200 U | < 200 U | < 210 U |
| | Acenaphthylene | 208-96-8 | 100,000 | ug/kg | NT | < 200 U | **460** | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Anthracene | 120-12-7 | 100,000 | ug/kg | NT | < 200 U | **620** | **31 J** | < 190 U | < 200 U | < 200 U | < 210 U |
| | Benzo(a)anthracene | 56-55-3 | 1,000 | ug/kg | NT | < 200 U | **18 J** | **27 J** | < 190 U | < 200 U | < 200 U | < 400 U |
| | Benzo(a)pyrene | 50-32-8 | 1,000 | ug/kg | NT | < 200 U | < 190 U | **24 J** | < 190 U | < 200 U | < 200 U | < 400 U |
| | Benzo(b)fluoranthene | 205-99-2 | 1,000 | ug/kg | NT | < 200 U | < 190 U | **32 J** | < 190 U | < 200 U | < 200 U | < 210 U |
| | Benzo(ghi)perylene | 191-24-2 | 100,000 | ug/kg | NT | < 200 U | < 190 U | **18 J** | < 190 U | < 200 U | < 200 U | < 400 U |
| | Benzo(k)fluoranthene | 207-08-9 | 800 | ug/kg | NT | < 200 U | < 190 U | **12 J** | < 190 U | < 200 U | < 200 U | < 210 U |
| | Benzyl alcohol | 100-51-6 | NA | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 210 U |
| | Benzyl butyl phthalate (Butyl benzyl phthalate) | 85-68-7 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Bis(2-chloroethoxy) methane | 111-91-1 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Bis(2-chloroethyl) ether | 111-44-4 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 400 U |
| | Bis(2-ethylhexyl) phthalate | 117-81-7 | NA | ug/kg | NT | < 200 U | < 190 U | **150 J** | < 190 U | < 200 U | **330** | < 210 U |
| | Dibenzo(a,h)anthracene | 53-70-3 | 330 | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Dibenzofuran | 132-64-9 | 7,000 | ug/kg | NT | < 200 U | **220** | **39 J** | < 190 U | < 200 U | < 200 U | < 210 U |
| | Diethyl phthalate | 84-66-2 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Dimethyl phthalate | 131-11-3 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Di-n-butyl phthalate | 84-74-2 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Di-n-octyl phthalate | 117-84-0 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Fluoranthene | 206-44-0 | 100,000 | ug/kg | NT | < 200 U | **61 J** | **54 J** | < 190 U | < 200 U | < 200 U | < 210 U |
| | Fluorene | 86-73-7 | 30,000 | ug/kg | NT | < 200 U | **1,500** | **64 J** | < 190 U | < 200 U | < 200 U | < 210 U |
| | Hexachloro-1,3-Butadiene (Hexachlorobutadiene) | 87-68-3 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Hexachlorobenzene | 118-74-1 | 330 | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Hexachlorocyclopentadiene | 77-47-4 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Hexachloroethane | 67-72-1 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 400 U |
| | Indeno(1,2,3-cd)pyrene | 193-39-5 | 500 | ug/kg | NT | < 200 U | < 190 U | **16 J** | < 190 U | < 200 U | < 200 U | < 210 U |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 2,400 | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 400 U |
| | Methanamine, N-methyl-n-nitroso (N-Nitrosodimethylamine) | 62-75-9 | NA | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 210 U |
| | Naphthalene | 91-20-3 | 12,000 | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Nitrobenzene | 98-95-3 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | N-Nitrosodi-n-propylamine (N-Nitroso-Di-n-propylamine) | 621-64-7 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | N-Nitrosodiphenylamine | 86-30-6 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | P-Chloroaniline (4-Chloraniline) | 106-47-8 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Pentachlorophenol | 87-86-5 | 800 | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 400 U |
| | Phenanthrene | 85-01-8 | 100,000 | ug/kg | NT | < 200 U | **3,500** | **130 J** | < 190 U | **9 J** | < 200 U | < 210 U |
| | Phenol | 108-95-2 | 330 | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | P-Nitroaniline (4-Nitroaniline) | 100-01-6 | NA | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 210 U |
| | Pyrene | 129-00-0 | 100,000 | ug/kg | NT | < 200 U | **81 J** | **39 J** | < 190 U | < 200 U | < 200 U | < 400 U |

**TABLE 9 - Summary of Soil Sample Analytical Results Compared to NYSDEC Part 375 Unrestricted Use SCOs**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | EQPTBLNK-SB-24-092408 | TRIP BLANK | SS-01-091508 | EQBLNK SS-01-091508 | SS-02-091508 | SS-03-091508 | TP-01-091708 (2') | TP-02-091708 (4') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metals | Aluminum (fume or dust) | 7429-90-5 | NA | mg/kg | < 200 U | NT | **3,640** | < 200 U | **3,680** | **6,650** | **6,510 J1** | **6,180 J1** |
| | Antimony | 7440-36-0 | NA | mg/kg | < 20 U | NT | **21.2 UJ1** | < 20 U | **18.9 UJ1** | **19.4 UJ1** | **17.1 UJ1** | **17.9 UJ1** |
| | Arsenic | 7440-38-2 | 13 | mg/kg | < 10 U | NT | **3.6** | < 10 U | **4.1** | **4.1** | **13.2** | **5.9** |
| | Barium | 7440-39-3 | 350 | mg/kg | < 2 U | NT | **50** | < 2 U | **37.6** | **69** | **95.6** | **51.4** |
| | Beryllium | 7440-41-7 | 7.2 | mg/kg | < 2 U | NT | **0.31** | < 2 U | **0.36** | **0.33** | **0.56** | **0.38** |
| | Cadmium | 7440-43-9 | 2.5 | mg/kg | < 1 U | NT | **0.98** | < 1 U | **0.85** | **1.4** | **0.36** | < 0.24 U |
| | Calcium metal | 7440-70-2 | NA | mg/kg | < 500 U | NT | **101,000** | < 500 U | **99,000** | **13,500** | **18,300** | **22,600** |
| | Chromium | 7440-47-3 | 1 Hexavalent / 30 Trivalent | mg/kg | < 4 U | NT | **9.5 J1** | < 4 U | **14.1 J1** | **26.7 J1** | **8.7 J1** | **8.3 J1** |
| | Cobalt | 7440-48-4 | NA | mg/kg | < 4 U | NT | **3** | < 4 U | **3.6** | **4.7** | **5.2** | **4.1** |
| | Copper | 7440-50-8 | 50 | mg/kg | < 10 U | NT | **102** | < 10 U | **337** | **208** | **22.3** | **61.5** |
| | Iron | 7439-89-6 | NA | mg/kg | < 50 U | NT | **9,980** | < 50 U | **9,820** | **12,300** | **16,500** | **11,900** |
| | Lead | 7439-92-1 | 63 | mg/kg | < 5 U | NT | **100 J1** | < 5 U | **134 J1** | **152 J1** | **69.2 J1** | **102 J1** |
| | Magnesium | 7439-95-4 | NA | mg/kg | < 200 U | NT | **32,300** | < 200 U | **5,140** | **4,640** | **4,070 J1** | **10,600 J1** |
| | Manganese | 7439-96-5 | 1,600 | mg/kg | < 3 U | NT | **309** | < 3 U | **374** | **355** | **497** | **420** |
| | Mercury | 7439-97-6 | 0.18 | mg/kg | < 0.2 U | NT | **0.075** | < 0.2 U | **0.135** | **0.24** | **0.239 J1** | **0.137 J1** |
| | Nickel | 7440-02-0 | 30 | mg/kg | < 10 U | NT | **9.3** | < 10 U | **11.2** | **13.8** | **12.3 J1** | **9.2 J1** |
| | Potassium | 7440-09-7 | NA | mg/kg | < 500 U | NT | **973** | < 500 U | **845** | **976** | **1,080** | **832** |
| | Selenium | 7782-49-2 | 3.9 | mg/kg | < 1 U | NT | < 5.6 U | < 1 U | < 5.1 U | < 5.2 U | < 4.5 U | < 4.8 U |
| | Silver | 7440-22-4 | 2 | mg/kg | < 3 U | NT | **1.1** | < 3 U | **4.2** | **3.5** | < 0.57 U | < 0.6 U |
| | Sodium | 7440-23-5 | NA | mg/kg | < 1,000 U | NT | < 198 U | < 1,000 U | < 177 U | < 181 U | **814** | **443** |
| | Thallium | 7440-28-0 | NA | mg/kg | < 0.2 U | NT | < 8.5 U | < 0.2 U | < 7.6 U | < 7.8 U | < 6.8 U | < 7.2 U |
| | Vanadium (fume or dust) | 7440-62-2 | NA | mg/kg | < 5 U | NT | **11.4** | < 5 U | **10.7** | **15.2** | **17.7** | **17** |
| | Zinc | 7440-66-6 | 109 | mg/kg | < 10 U | NT | **221** | < 10 U | **484** | **446** | **163 J1** | **133 J1** |
| Pesticides | Methoxychlor [1,1,1-Trichloro-2,2-Bis (p-methoxphenyl)-ethane] | 72-43-5 | NA | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | 4,4'-DDD | 72-54-8 | 3.3 | ug/kg | NT | NT | **1.5 J** | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | 4,4'-DDE | 72-55-9 | 3.3 | ug/kg | NT | NT | **4.7** | < 0.048 U | < 21 U | **5.5** | NT | NT |
| | 4,4'-DDT | 50-29-3 | 3.3 | ug/kg | NT | NT | **28** | < 0.048 U | < 21 U | **15** | NT | NT |
| | Aldrin | 309-00-2 | 5 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | alpha-BHC | 319-84-6 | 20 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | alpha-Chlordane | 5103-71-9 | 94 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | beta-BHC | 319-85-7 | 36 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | Toxaphene [Camphechlor] | 8001-35-2 | NA | ug/kg | NT | NT | < 23 U | < 0.48 U | < 210 U | < 22 U | NT | NT |
| | delta-BHC | 319-86-8 | 40 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | Dieldrin | 60-57-1 | 5 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | **2.4** | NT | NT |
| | Endosulfan I | 959-98-8 | 2,400 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | **4.6** | NT | NT |
| | Endosulfan II | 33213-65-9 | 2,400 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | Endosulfan sulfate | 1031-07-8 | 2,400 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | Endrin | 72-20-8 | 14 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | **1.5 J** | NT | NT |
| | Endrin Aldehyde | 7421-93-4 | NA | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | Endrin Ketone | 53494-70-5 | NA | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | gamma-BHC (Lindane) | 58-89-9 | 100 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | gamma-Chlordane | 5103-74-2 | NA | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | **1.5 J** | NT | NT |
| | Heptachlor | 76-44-8 | 42 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | Heptachlor epoxide | 1024-57-3 | NA | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| PCBs | Aroclor-1016 (PCB-1016) | 12674-11-2 | 100** | ug/kg | < 0.49 U | NT | NT | NT | NT | NT | < 20 U | < 19 U |
| | Aroclor-1221 (PCB-1221) | 11104-28-2 | 100** | ug/kg | < 0.49 U | NT | NT | NT | NT | NT | < 20 U | < 19 U |
| | Aroclor-1232 (PCB-1232) | 11141-16-5 | 100** | ug/kg | < 0.49 U | NT | NT | NT | NT | NT | < 20 U | < 19 U |
| | Aroclor-1242 (PCB-1242) | 53469-21-9 | 100** | ug/kg | < 0.49 U | NT | NT | NT | NT | NT | < 20 U | < 19 U |
| | Aroclor-1248 (PCB-1248) | 12672-29-6 | 100** | ug/kg | < 0.49 U | NT | NT | NT | NT | NT | < 20 U | < 19 U |
| | Aroclor-1254 (PCB-1254) | 11097-69-1 | 100** | ug/kg | < 0.49 U | NT | NT | NT | NT | NT | < 20 U | < 19 U |
| | Aroclor-1260 (PCB-1260) | 11096-82-5 | 100** | ug/kg | < 0.49 U | NT | NT | NT | NT | NT | < 20 U | < 19 U |

**TABLE 9 - Summary of Soil Sample Analytical Results Compared to NYSDEC Part 375 Unrestricted Use SCOs**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | EQPTBLNK-SB-24-092408 | TRIP BLANK | SS-01-091508 | EQBLNK SS-01-091508 | SS-02-091508 | SS-03-091508 | TP-01-091708 (2') | TP-02-091708 (4') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organic Compounds | 1,1,1-Trichloroethane | 71-55-6 | 680 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,1,2,2-Tetrachloroethane | 79-34-5 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,1,2-Trichloroethane | 79-00-5 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,1-Dichloroethane | 75-34-3 | 270 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,1-Dichloroethylene (1,1-Dichloroethene) | 75-35-4 | 330 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,2-Dibromo-3-Chloropropane (DBCP) | 96-12-8 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,2-Dibromoethane (Ethylene Dibromide) | 106-93-4 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,2-Dichlorobenzene | 95-50-1 | 1,100 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,2-Dichloroethane | 107-06-2 | 20 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,2-Dichloropropane | 78-87-5 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,4-Dichlorobenzene | 106-46-7 | 1,800 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 2-Butanone (Methyl Ethyl Ketone) | 78-93-3 | 120 | ug/kg | < 5 U | < 5 U | NT | NT | NT | NT | < 27 U | < 28 U |
| | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) | 108-10-1 | NA | ug/kg | < 5 U | < 5 U | NT | NT | NT | NT | < 27 U | < 28 U |
| | Acetone | 67-64-1 | 50 | ug/kg | **6** | < 5 U | NT | NT | NT | NT | 20 U1 | 22 U1 |
| | Benzene | 71-43-2 | 60 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Bromodichloromethane | 75-27-4 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Bromomethane | 74-83-9 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Carbon disulfide | 75-15-0 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Carbon Tetrachloride | 56-23-5 | 760 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | CFC-11 (Freon 11, Trichlorofluoromethane) | 75-69-4 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | CFC-12 (Freon 12, Dichlorodifluoromethane) | 75-71-8 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Chlorinated Fluorocarbon (Freon 113, 1,1,2-Trichloro-1,2,2-trifluoroethane) | 76-13-1 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Chlorobenzene | 108-90-7 | 1,100 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Chlorodibromomethane (Dibromochloromethane) | 124-48-1 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Chloroethane | 75-00-3 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Chloroform | 67-66-3 | 370 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Chloromethane | 74-87-3 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | cis-1,2-Dichloroethene | 156-59-2 | 250 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | cis-1,3-Dichloropropene | 10061-01-5 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Cyclohexane | 110-82-7 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Dichloromethane (Methylene chloride) | 75-09-2 | 50 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | 5 U1 |
| | Ethylbenzene | 100-41-4 | 1,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Isopropylbenzene | 98-82-8 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 2,400 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Methyl acetate | 79-20-9 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Methyl n-butyl ketone (2-Hexanone) | 591-78-6 | NA | ug/kg | < 5 U | < 5 U | NT | NT | NT | NT | < 27 U | < 28 U |
| | Methylbenzene (Toluene) | 108-88-3 | 700 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Methylcyclohexane | 108-87-2 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Methyl Tert Butyl Ether (MTBE) | 1634-04-4 | 930 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Styrene (Monomer) | 100-42-5 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Tetrachloroethene | 127-18-4 | 1,300 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Total Xylenes | 1330-20-7 | 260 | ug/kg | < 3 U | < 3 U | NT | NT | NT | NT | < 16 U | < 16 U |
| | trans-1,2-Dichloroethene | 156-60-5 | 190 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | trans-1,3-Dichloropropene | 10061-02-6 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Tribromomethane (Bromoform) | 75-25-2 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Trichloroethylene (Trichloroethene) | 79-01-6 | 470 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Vinyl chloride | 75-01-4 | 20 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 11 U | < 11 U |
| Semi-Volatile Organic Compounds | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 10 U | NT | < 9,400 U | < 10 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | 1,2-Benzphenanthracene (Chrysene) | 218-01-9 | 1,000 | ug/kg | < 10 U | NT | 2,000 U1 | < 5 U | 1,600 U1 | 6,300 U1 | **160 J** | **530 J** |
| | 1,2-dichlorobenzene | 95-50-1 | 1,100 | ug/kg | < 20 U | NT | < 9,400 U | < 10 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | 1,4-dichlorobenzene | 106-46-7 | 1,800 | ug/kg | < 5 U | NT | < 9,400 U | < 10 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | 2,2'-oxybis(1-Chloropropane) [bis(2-chloro-1-methyletheyl) ether] | 108-60-1 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 2,4,5-Trichlorophenol | 95-95-4 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 2,4,6-Trichlorophenol | 88-06-2 | NA | ug/kg | < 10 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 2,4-Dichlorophenol | 120-83-2 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |

**TABLE 9 - Summary of Soil Sample Analytical Results Compared to NYSDEC Part 375 Unrestricted Use SCOs**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | EQPTBLNK-SB-24-092408 | TRIP BLANK | SS-01-091508 | EQBLNK SS-01-091508 | SS-02-091508 | SS-03-091508 | TP-01-091708 (2') | TP-02-091708 (4') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | 2,4-Dimethylphenol | 105-67-9 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 2,4-Dinitrophenol | 51-28-5 | NA | ug/kg | < 5 U | NT | **9,400 UJ1** | < 10 U | **8,100 UJ1** | **8,600 UJ1** | **1,900 UJ1** | **7,500 UJ1** |
| | 2,4-Dinitrotoluene | 121-14-2 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 2,6-Dinitrotoluene | 606-20-2 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 2-Chloronaphthalene | 91-58-7 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 2-Chlorophenol | 95-57-8 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 2-Methylnaphthalene | 91-57-6 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 2-Methylphenol | 95-48-7 | 330 | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 2-Nitroaniline | 88-74-4 | NA | ug/kg | < 10 U | NT | < 9,400 U | < 10 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | 2-Nitrophenol | 88-75-5 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 3,3'-Dichlorobenzidine | 91-94-1 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 3,5,5-Trimethyl-2-cyclohexene-1-one (Isophorone) | 78-59-1 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 3-Nitroaniline | 99-09-2 | NA | ug/kg | < 5 U | NT | < 9,400 U | < 10 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | 4,6-Dinitro-2-methylphenol | 534-52-1 | NA | ug/kg | < 5 U | NT | < 9,400 U | < 10 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | 4-Bromophenyl phenyl ether | 101-55-3 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | **980 UJ1** | **3,800 UJ1** |
| | 4-Chloro-3-methylphenol | 59-50-7 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 4-Chlorophenyl phenyl ether | 7005-72-3 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 4-Methylphenol | 106-44-5 | 330 | ug/kg | < 5 U | NT | < 4,800 U | **2 J** | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 4-Nitrophenol | 100-02-7 | NA | ug/kg | < 5 U | NT | **9,400 UJ1** | < 10 U | **8,100 UJ1** | **8,600 UJ1** | **1,900 UJ1** | **7,500 UJ1** |
| | Acenaphthene | 83-32-9 | 20,000 | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | **430 J** | < 980 U | < 3,800 U |
| | Acenaphthylene | 208-96-8 | 100,000 | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Anthracene | 120-12-7 | 100,000 | ug/kg | < 5 U | NT | **240 J** | < 5 U | **940 J** | **850 J** | < 980 U | **220 J** |
| | Benzo(a)anthracene | 56-55-3 | 1,000 | ug/kg | < 10 U | NT | **1,400 J** | < 5 U | **990 J** | **4,900** | **260 J** | **780 J** |
| | Benzo(a)pyrene | 50-32-8 | 1,000 | ug/kg | < 10 U | NT | **1,800 J** | < 5 U | **1,300 J** | **5,800** | **260 J** | **630 J** |
| | Benzo(b)fluoranthene | 205-99-2 | 1,000 | ug/kg | < 5 U | NT | **2,600 J** | < 5 U | **1,700 J** | **8,400** | **310 J** | **740 J** |
| | Benzo(ghi)perylene | 191-24-2 | 100,000 | ug/kg | < 10 U | NT | **780 J** | < 5 U | **500 J** | **2,000 J** | **130 J** | **320 J** |
| | Benzo(k)fluoranthene | 207-08-9 | 800 | ug/kg | < 5 U | NT | **880 J** | < 5 U | **900 J** | **3,100 J** | **130 J** | **190 J** |
| | Benzyl alcohol | 100-51-6 | NA | ug/kg | < 5 U | NT | < 9,400 U | < 19 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | Benzyl butyl phthalate (Butyl benzyl phthalate) | 85-68-7 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Bis(2-chloroethoxy) methane | 111-91-1 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Bis(2-chloroethyl) ether | 111-44-4 | NA | ug/kg | < 10 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Bis(2-ethylhexyl) phthalate | 117-81-7 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Dibenzo(a,h)anthracene | 53-70-3 | 330 | ug/kg | < 5 U | NT | **260 J** | < 5 U | < 4,200 U | **180 J** | **46 J** | < 3,800 U |
| | Dibenzofuran | 132-64-9 | 7,000 | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Diethyl phthalate | 84-66-2 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Dimethyl phthalate | 131-11-3 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Di-n-butyl phthalate | 84-74-2 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Di-n-octyl phthalate | 117-84-0 | NA | ug/kg | **0.4 BJ** | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Fluoranthene | 206-44-0 | 100,000 | ug/kg | < 5 U | NT | **4,400 J** | < 5 U | **2,700 J** | **17,000** | **360 J** | **1,500 J** |
| | Fluorene | 86-73-7 | 30,000 | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | **670 J** | < 980 U | < 3,800 U |
| | Hexachloro-1,3-Butadiene (Hexachlorobutadiene) | 87-68-3 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Hexachlorobenzene | 118-74-1 | 330 | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Hexachlorocyclopentadiene | 77-47-4 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Hexachloroethane | 67-72-1 | NA | ug/kg | < 10 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Indeno(1,2,3-cd)pyrene | 193-39-5 | 500 | ug/kg | < 5 U | NT | **760 J** | < 5 U | **520 J** | **2,000 J** | **120 J** | **290 J** |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 2,400 | ug/kg | < 10 U | NT | < 9,400 U | < 10 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | Methanamine, N-methyl-n-nitroso (N-Nitrosodimethylamine) | 62-75-9 | NA | ug/kg | < 5 U | NT | < 9,400 U | < 10 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | Naphthalene | 91-20-3 | 12,000 | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Nitrobenzene | 98-95-3 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | N-Nitrosodi-n-propylamine (N-Nitroso-Di-n-propylamine) | 621-64-7 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | N-Nitrosodiphenylamine | 86-30-6 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | P-Chloroaniline (4-Chloraniline) | 106-47-8 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Pentachlorophenol | 87-86-5 | 800 | ug/kg | < 10 U | NT | < 9,400 U | < 10 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | Phenanthrene | 85-01-8 | 100,000 | ug/kg | < 5 U | NT | **1,500 J** | < 5 U | **960 J** | **7,500** | **120 BJ** | **1,000 BJ** |
| | Phenol | 108-95-2 | 330 | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | P-Nitroaniline (4-Nitroaniline) | 100-01-6 | NA | ug/kg | < 5 U | NT | < 9,400 U | < 10 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | Pyrene | 129-00-0 | 100,000 | ug/kg | < 10 U | NT | **2,300 J** | < 5 U | **1,400 J** | **8,300** | **260 J** | **1,200 J** |

**TABLE 9 - Summary of Soil Sample Analytical Results Compared to NYSDEC Part 375 Unrestricted Use SCOs**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | TP-03-091708 (4.5') | EQPBLNK TP-03-091708 | TP-04-091708 (5') | TP-6-091708 (6.5') | TP-6-091708 Field Dup (6.5') |
|---|---|---|---|---|---|---|---|---|---|
| Metals | Aluminum (fume or dust) | 7429-90-5 | NA | mg/kg | **5,250 J1** | < 200 U | **3,110 J1** | **6,130 J1** | **5,340 J1** |
| | Antimony | 7440-36-0 | NA | mg/kg | **17.1 UJ1** | < 20 U | **19 UJ1** | **17.7 UJ1** | **18.2 UJ1** |
| | Arsenic | 7440-38-2 | 13 | mg/kg | **4.1** | < 10 U | **5.8** | **5.8** | **6.6** |
| | Barium | 7440-39-3 | 350 | mg/kg | **37.8** | < 2 U | **22.9** | **33** | **36.5** |
| | Beryllium | 7440-41-7 | 7.2 | mg/kg | **0.35** | < 2 U | **0.35** | **0.42** | **0.42** |
| | Cadmium | 7440-43-9 | 2.5 | mg/kg | < 0.23 U | < 1 U | < 0.25 U | **3.3** | < 0.24 U |
| | Calcium metal | 7440-70-2 | NA | mg/kg | **76,200** | < 500 U | **169,000** | **91,300 J1** | **96,300 J1** |
| | Chromium | 7440-47-3 | 1 Hexavalent / 30 Trivalent | mg/kg | **7.3 J1** | < 4 U | **4.8 J1** | **9.6** | **6** |
| | Cobalt | 7440-48-4 | NA | mg/kg | **3.9** | < 4 U | **3.6** | **4.4** | **4.7** |
| | Copper | 7440-50-8 | 50 | mg/kg | **26.1** | < 10 U | **17.9** | **3,660 N** | **1,020 J1** |
| | Iron | 7439-89-6 | NA | mg/kg | **11,200** | < 50 U | **9,060** | **10,300 J1** | **11,400 J1** |
| | Lead | 7439-92-1 | 63 | mg/kg | **34.3 J1** | < 5 U | **12.4 J1** | **149** | **54.5** |
| | Magnesium | 7439-95-4 | NA | mg/kg | **10,700 J1** | < 200 U | **18,300 J1** | **13,700** | **13,200** |
| | Manganese | 7439-96-5 | 1,600 | mg/kg | **251** | < 3 U | **391** | **415 J1** | **399 J1** |
| | Mercury | 7439-97-6 | 0.18 | mg/kg | **0.065 J1** | < 0.2 U | < 0.024 NU | **0.024 UJ1** | **0.024 UJ1** |
| | Nickel | 7440-02-0 | 30 | mg/kg | **8.7 J1** | < 10 U | **9.8 J1** | **36.5** | **16** |
| | Potassium | 7440-09-7 | NA | mg/kg | **1,010** | < 500 U | **1,590** | **1,540 E** | **1,620 E** |
| | Selenium | 7782-49-2 | 3.9 | mg/kg | < 4.6 U | < 1 U | < 5.1 U | < 4.7 U | < 4.9 U |
| | Silver | 7440-22-4 | 2 | mg/kg | < 0.57 U | < 3 U | < 0.63 U | **0.88** | < 0.61 U |
| | Sodium | 7440-23-5 | NA | mg/kg | **188** | < 1,000 U | < 178 U | **402** | **231** |
| | Thallium | 7440-28-0 | NA | mg/kg | < 6.8 U | < 0.2 U | < 7.6 U | < 7.1 U | < 7.3 U |
| | Vanadium (fume or dust) | 7440-62-2 | NA | mg/kg | **11.2** | < 5 U | **4.9** | **11** | **8** |
| | Zinc | 7440-66-6 | 109 | mg/kg | **67 J1** | < 10 U | **13.6 J1** | **331 J1** | **145 J1** |
| Pesticides | Methoxychlor [1,1,1-Trichloro-2,2-Bis (p-methoxphenyl)-ethane] | 72-43-5 | NA | ug/kg | NT | NT | NT | NT | NT |
| | 4,4'-DDD | 72-54-8 | 3.3 | ug/kg | NT | NT | NT | NT | NT |
| | 4,4'-DDE | 72-55-9 | 3.3 | ug/kg | NT | NT | NT | NT | NT |
| | 4,4'-DDT | 50-29-3 | 3.3 | ug/kg | NT | NT | NT | NT | NT |
| | Aldrin | 309-00-2 | 5 | ug/kg | NT | NT | NT | NT | NT |
| | alpha-BHC | 319-84-6 | 20 | ug/kg | NT | NT | NT | NT | NT |
| | alpha-Chlordane | 5103-71-9 | 94 | ug/kg | NT | NT | NT | NT | NT |
| | beta-BHC | 319-85-7 | 36 | ug/kg | NT | NT | NT | NT | NT |
| | Toxaphene [Camphechlor] | 8001-35-2 | NA | ug/kg | NT | NT | NT | NT | NT |
| | delta-BHC | 319-86-8 | 40 | ug/kg | NT | NT | NT | NT | NT |
| | Dieldrin | 60-57-1 | 5 | ug/kg | NT | NT | NT | NT | NT |
| | Endosulfan I | 959-98-8 | 2,400 | ug/kg | NT | NT | NT | NT | NT |
| | Endosulfan II | 33213-65-9 | 2,400 | ug/kg | NT | NT | NT | NT | NT |
| | Endosulfan sulfate | 1031-07-8 | 2,400 | ug/kg | NT | NT | NT | NT | NT |
| | Endrin | 72-20-8 | 14 | ug/kg | NT | NT | NT | NT | NT |
| | Endrin Aldehyde | 7421-93-4 | NA | ug/kg | NT | NT | NT | NT | NT |
| | Endrin Ketone | 53494-70-5 | NA | ug/kg | NT | NT | NT | NT | NT |
| | gamma-BHC (Lindane) | 58-89-9 | 100 | ug/kg | NT | NT | NT | NT | NT |
| | gamma-Chlordane | 5103-74-2 | NA | ug/kg | NT | NT | NT | NT | NT |
| | Heptachlor | 76-44-8 | 42 | ug/kg | NT | NT | NT | NT | NT |
| | Heptachlor epoxide | 1024-57-3 | NA | ug/kg | NT | NT | NT | NT | NT |
| PCBs | Aroclor-1016 (PCB-1016) | 12674-11-2 | 100** | ug/kg | < 17 U | < 0.5 U | < 19 U | < 19 U | < 19 U |
| | Aroclor-1221 (PCB-1221) | 11104-28-2 | 100** | ug/kg | < 17 U | < 0.5 U | < 19 U | < 19 U | < 19 U |
| | Aroclor-1232 (PCB-1232) | 11141-16-5 | 100** | ug/kg | < 17 U | < 0.5 U | < 19 U | < 19 U | < 19 U |
| | Aroclor-1242 (PCB-1242) | 53469-21-9 | 100** | ug/kg | < 17 U | < 0.5 U | < 19 U | < 19 U | < 19 U |
| | Aroclor-1248 (PCB-1248) | 12672-29-6 | 100** | ug/kg | < 17 U | < 0.5 U | < 19 U | < 19 U | < 19 U |
| | Aroclor-1254 (PCB-1254) | 11097-69-1 | 100** | ug/kg | < 17 U | < 0.5 U | < 19 U | **200** | **130** |
| | Aroclor-1260 (PCB-1260) | 11096-82-5 | 100** | ug/kg | < 17 U | < 0.5 U | < 19 U | < 19 U | **< 19 U** |

**TABLE 9 - Summary of Soil Sample Analytical Results Compared to NYSDEC Part 375 Unrestricted Use SCOs**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | TP-03-091708 (4.5') | EQPBLNK TP-03-091708 | TP-04-091708 (5') | TP-6-091708 (6.5') | TP-6-091708 Field Dup (6.5') |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Organic Compounds | 1,1,1-Trichloroethane | 71-55-6 | 680 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,1,2,2-Tetrachloroethane | 79-34-5 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,1,2-Trichloroethane | 79-00-5 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,1-Dichloroethane | 75-34-3 | 270 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,1-Dichloroethylene (1,1-Dichloroethene) | 75-35-4 | 330 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,2-Dibromo-3-Chloropropane (DBCP) | 96-12-8 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,2-Dibromoethane (Ethylene Dibromide) | 106-93-4 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,2-Dichlorobenzene | 95-50-1 | 1,100 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,2-Dichloroethane | 107-06-2 | 20 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,2-Dichloropropane | 78-87-5 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,4-Dichlorobenzene | 106-46-7 | 1,800 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 2-Butanone (Methyl Ethyl Ketone) | 78-93-3 | 120 | ug/kg | < 30 U | < 5 U | < 26 U | < 30 U | < 28 U |
| | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) | 108-10-1 | NA | ug/kg | < 30 U | < 5 U | < 26 U | < 30 U | < 28 U |
| | Acetone | 67-64-1 | 50 | ug/kg | 30 U1 | **10 B** | 17 U1 | **11 J** | **7 J** |
| | Benzene | 71-43-2 | 60 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Bromodichloromethane | 75-27-4 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Bromomethane | 74-83-9 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Carbon disulfide | 75-15-0 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Carbon Tetrachloride | 56-23-5 | 760 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | CFC-11 (Freon 11, Trichlorofluoromethane) | 75-69-4 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | CFC-12 (Freon 12, Dichlorodifluoromethane) | 75-71-8 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Chlorinated Fluorocarbon (Freon 113, 1,1,2-Trichloro-1,2,2-trifluoroethane) | 76-13-1 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Chlorobenzene | 108-90-7 | 1,100 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Chlorodibromomethane (Dibromochloromethane) | 124-48-1 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Chloroethane | 75-00-3 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Chloroform | 67-66-3 | 370 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Chloromethane | 74-87-3 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | cis-1,2-Dichloroethene | 156-59-2 | 250 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | cis-1,3-Dichloropropene | 10061-01-5 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Cyclohexane | 110-82-7 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Dichloromethane (Methylene chloride) | 75-09-2 | 50 | ug/kg | 7 U1 | **4** | 4 U1 | **15** | **11** |
| | Ethylbenzene | 100-41-4 | 1,000 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Isopropylbenzene | 98-82-8 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 2,400 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Methyl acetate | 79-20-9 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Methyl n-butyl ketone (2-Hexanone) | 591-78-6 | NA | ug/kg | < 30 U | < 5 U | < 26 U | < 30 U | < 28 U |
| | Methylbenzene (Toluene) | 108-88-3 | 700 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Methylcyclohexane | 108-87-2 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Methyl Tert Butyl Ether (MTBE) | 1634-04-4 | 930 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Styrene (Monomer) | 100-42-5 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Tetrachloroethene | 127-18-4 | 1,300 | ug/kg | < 6 U | < 1 U | < 5 U | **1 J** | < 6 U |
| | Total Xylenes | 1330-20-7 | 260 | ug/kg | < 18 U | < 3 U | < 16 U | < 18 U | < 16 U |
| | trans-1,2-Dichloroethene | 156-60-5 | 190 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | trans-1,3-Dichloropropene | 10061-02-6 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Tribromomethane (Bromoform) | 75-25-2 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Trichloroethylene (Trichloroethene) | 79-01-6 | 470 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | **7** |
| | Vinyl chloride | 75-01-4 | 20 | ug/kg | < 12 U | < 1 U | < 10 U | < 12 U | < 11 U |
| Semi-Volatile Organic Compounds | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 7,000 U | < 10 U | < 380 U | < 1,900 U | < 1,900 U |
| | 1,2-Benzphenanthracene (Chrysene) | 218-01-9 | 1,000 | ug/kg | **1,800 J** | < 5 U | **15 J** | < 960 U | < 1,000 U |
| | 1,2-dichlorobenzene | 95-50-1 | 1,100 | ug/kg | < 7,000 U | < 10 U | < 380 U | < 1,900 U | < 1,900 U |
| | 1,4-dichlorobenzene | 106-46-7 | 1,800 | ug/kg | < 7,000 U | < 10 U | < 380 U | < 1,900 U | < 1,900 U |
| | 2,2'-oxybis(1-Chloropropane) [bis(2-chloro-1-methyletheyl) ether] | 108-60-1 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 2,4,5-Trichlorophenol | 95-95-4 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 2,4,6-Trichlorophenol | 88-06-2 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 2,4-Dichlorophenol | 120-83-2 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |

**TABLE 9 - Summary of Soil Sample Analytical Results Compared to NYSDEC Part 375 Unrestricted Use SCOs**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | TP-03-091708 (4.5') | EQPBLNK TP-03-091708 | TP-04-091708 (5') | TP-6-091708 (6.5') | TP-6-091708 Field Dup (6.5') |
|---|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | 2,4-Dimethylphenol | 105-67-9 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 2,4-Dinitrophenol | 51-28-5 | NA | ug/kg | **7,000 UJ1** | < 10 U | **380 UJ1** | < 1,900 U | < 1,900 U |
| | 2,4-Dinitrotoluene | 121-14-2 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 2,6-Dinitrotoluene | 606-20-2 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 2-Chloronaphthalene | 91-58-7 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 2-Chlorophenol | 95-57-8 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 2-Methylnaphthalene | 91-57-6 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 2-Methylphenol | 95-48-7 | 330 | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 2-Nitroaniline | 88-74-4 | NA | ug/kg | < 7,000 U | < 10 U | < 380 U | < 1,900 U | < 1900 U |
| | 2-Nitrophenol | 88-75-5 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 3,3'-Dichlorobenzidine | 91-94-1 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 3,5,5-Trimethyl-2-cyclohexene-1-one (Isophorone) | 78-59-1 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 3-Nitroaniline | 99-09-2 | NA | ug/kg | < 7,000 U | < 10 U | < 380 U | < 1,900 U | < 1,900 U |
| | 4,6-Dinitro-2-methylphenol | 534-52-1 | NA | ug/kg | **7,000 UJ1** | < 10 U | **380 UJ1** | < 1,900 U | < 1,900 U |
| | 4-Bromophenyl phenyl ether | 101-55-3 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 4-Chloro-3-methylphenol | 59-50-7 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 4-Chlorophenyl phenyl ether | 7005-72-3 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 4-Methylphenol | 106-44-5 | 330 | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 4-Nitrophenol | 100-02-7 | NA | ug/kg | **7,000 UJ1** | < 10 U | < 380 U | < 1,900 U | < 1,900 U |
| | Acenaphthene | 83-32-9 | 20,000 | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Acenaphthylene | 208-96-8 | 100,000 | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Anthracene | 120-12-7 | 100,000 | ug/kg | **430 J** | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Benzo(a)anthracene | 56-55-3 | 1,000 | ug/kg | **2,000 J** | < 5 U | **16 J** | **180 J** | < 1,000 U |
| | Benzo(a)pyrene | 50-32-8 | 1,000 | ug/kg | **2,000 J** | < 5 U | **40 J** | **64 J** | **42 J** |
| | Benzo(b)fluoranthene | 205-99-2 | 1,000 | ug/kg | **2,100 J** | < 5 U | **31 J** | **94 J** | < 1,000 U |
| | Benzo(ghi)perylene | 191-24-2 | 100,000 | ug/kg | **960 J** | < 5 U | **62 J** | **55 J** | < 1,000 U |
| | Benzo(k)fluoranthene | 207-08-9 | 800 | ug/kg | **770 J** | < 5 U | **39 J** | **72 J** | < 1,000 U |
| | Benzyl alcohol | 100-51-6 | NA | ug/kg | < 7,000 U | < 19 U | < 380 U | < 1,900 U | < 1,900 U |
| | Benzyl butyl phthalate (Butyl benzyl phthalate) | 85-68-7 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Bis(2-chloroethoxy) methane | 111-91-1 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Bis(2-chloroethyl) ether | 111-44-4 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Bis(2-ethylhexyl) phthalate | 117-81-7 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Dibenzo(a,h)anthracene | 53-70-3 | 330 | ug/kg | **290 J** | < 5 U | **50 J** | < 960 U | < 1,000 U |
| | Dibenzofuran | 132-64-9 | 7,000 | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Diethyl phthalate | 84-66-2 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Dimethyl phthalate | 131-11-3 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Di-n-butyl phthalate | 84-74-2 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Di-n-octyl phthalate | 117-84-0 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Fluoranthene | 206-44-0 | 100,000 | ug/kg | **3,900** | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Fluorene | 86-73-7 | 30,000 | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Hexachloro-1,3-Butadiene (Hexachlorobutadiene) | 87-68-3 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Hexachlorobenzene | 118-74-1 | 330 | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Hexachlorocyclopentadiene | 77-47-4 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Hexachloroethane | 67-72-1 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Indeno(1,2,3-cd)pyrene | 193-39-5 | 500 | ug/kg | **870 J** | < 5 U | **62 J** | < 960 U | < 1000 U |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 2,400 | ug/kg | < 7,000 U | < 10 U | < 380 U | < 1,900 U | < 1,900 U |
| | Methanamine, N-methyl-n-nitroso (N-Nitrosodimethylamine) | 62-75-9 | NA | ug/kg | < 7,000 U | < 10 U | < 380 U | < 1,900 U | < 1,900 U |
| | Naphthalene | 91-20-3 | 12,000 | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Nitrobenzene | 98-95-3 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | N-Nitrosodi-n-propylamine (N-Nitroso-Di-n-propylamine) | 621-64-7 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | N-Nitrosodiphenylamine | 86-30-6 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | P-Chloroaniline (4-Chloraniline) | 106-47-8 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Pentachlorophenol | 87-86-5 | 800 | ug/kg | < 7,000 U | < 10 U | < 380 U | < 1,900 U | < 1,900 U |
| | Phenanthrene | 85-01-8 | 100,000 | ug/kg | **2,000 BJ** | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Phenol | 108-95-2 | 330 | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | P-Nitroaniline (4-Nitroaniline) | 100-01-6 | NA | ug/kg | < 7,000 U | < 10 U | < 380 U | < 1,900 U | < 1,900 U |
| | Pyrene | 129-00-0 | 100,000 | ug/kg | **3,200 J** | < 5 U | < 200 U | **220 J** | **69 J** |

**Table 9 Endnotes**
**Summary of Soil Sample Analytical Results Compared to NYSDEC Part 375 Unrestricted Use SCOs**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

Notes:

- Part 375 Unrestricted Use SCOs: Unrestricted Use Soil Cleanup Objectives (SCOs) referenced in the NYSDEC *General Remedial Program Requirements*, presented in the New York State Codes, Rules and Regulations; Title 6, Chapter IV, Subpart 375 (Part 375), Table 375-6.8(a)
- mg/kg: milligrams per kilogram (parts per million)
- µg/kg: micrograms per kilogram (parts per billion)
- Bold faced type indicates a detection of the compound
- Shaded cells indicate an exceedance of Part 375 Unrestricted Use Soil Cleanup Objectives
- NT Not tested
- NA No Soil Cleanup Objective (SCO) available
- * Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995
- ** Applies to the sum of Polychlorinated biphenyls.

Qualifiers

| | |
|---|---|
| no qualifier | The compound was positively identified at the associated numerical value which is the concentration of the compound in the sample. |
| B | Test America Qualifier - Analyte found in blank and sample. |
| B (inorganic) | Test America Qualifier – Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit. |
| D | Test America Qualifier - This flag identifies all compounds identified in an analysis at the secondary dilution factor. |
| E | Test America Qualifier – Indicates a value estimated or not reported due to the presence of interferences. |
| J | Test America Qualifier – The value was designated as estimated as a result of the data validation criteria. Also used to indicate tentatively identified compounds (TICs) or when an organic compound is present, but the concentration is less than the Contract Required Quantitation Limit (CRQL). The value is usable as an estimated result. Estimated value; results may be biased. |
| N | Test America Qualifier - Indicates presumptive evidence of a compound. |
| U | Test America Qualifier – Compound analyzed for but not detected above the reported detection limit. The associated numerical value is the detection limit. The value is usable as a non-detect at the detection limit. |

| | |
|---|---|
| J1 | Environmental Data Validation Qualifier – Validator assigned qualifier as J, O'Brien & Gere changed qualifier designation to J1 to differentiate from Test America qualifier. Data are to be used cautiously as they are estimated data with some quality control issues. |
| UJ1 | Environmental Data Validation Qualifier – Validator assigned qualifier as UJ, O'Brien & Gere changed qualifier designation to UJ1 to differentiate from Test America qualifier. Data are to be used cautiously as they are estimated data with some quality control issues. |
| U1 | Environmental Data Validation Qualifier – Validator assigned qualifier as U, O'Brien & Gere changed qualifier designation to U1 to differentiate from Test America qualifier. Data are useable as a non-detect as there are no quality control issues. |

**Table 10 - Soil Analytical Results**
**Part 375 Restricted Commercial Use**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | SB-01-091908 (10-12') | SB-02-091808 (4-6') | SB-02-091808 (9-10') | SB-03-091808 (8-10') | SB-03-91808 (10.7-11') | SB-04-091808 (6-8') | SB-05-91808 (1.5-3.5') | SB-06-091808 (2-4') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metals | Aluminum (fume or dust) | 7429-90-5 | NA | mg/kg | **6,590 J1** | **5,530 J1** | NT | **4,130 J1** | NT | **3,760 J1** | **5,640 J1** | **6,500 J1** |
| | Antimony | 7440-36-0 | NA | mg/kg | **16.2 UJ1** | **18.8 UJ1** | NT | **17.7 UJ1** | NT | **17.5 UJ1** | **15.7 UJ1** | **17.6 UJ1** |
| | Arsenic | 7440-38-2 | 16 | mg/kg | **6.4** | **8.2** | NT | **5.6** | NT | **4** | **4.6** | **9.2** |
| | Barium | 7440-39-3 | 400 | mg/kg | **37.8** | **46.1** | NT | **26.3** | NT | **21.7** | **37** | **77** |
| | Beryllium | 7440-41-7 | 590 | mg/kg | **0.36** | **0.56** | NT | **0.51** | NT | **0.38** | **0.32** | **0.41** |
| | Cadmium | 7440-43-9 | 9.3 | mg/kg | < 0.22 U | < 0.25 U | NT | < 0.24 U | NT | < 0.23 U | < 0.21 U | 0.86 |
| | Calcium metal | 7440-70-2 | NA | mg/kg | **5,250 J1** | **42,800 J1** | NT | **198,000 J1** | NT | **115,000 J1** | **19,200 J1** | **43,500 J1** |
| | Chromium | 7440-47-3 | 400 Hexavalent / 1,500 Trivalent | mg/kg | **6.3** | **7** | NT | **5.4** | NT | **4.5** | **6.5** | **14.4** |
| | Cobalt | 7440-48-4 | NA | mg/kg | **4.4** | **5.5** | NT | **4.4** | NT | **2.9** | **2.7** | **5.3** |
| | Copper | 7440-50-8 | 270 | mg/kg | **32.1 J1** | **29.9 J1** | NT | **12.4 J1** | NT | **21.2 J1** | **41.7 J1** | **240 J1** |
| | Iron | 7439-89-6 | NA | mg/kg | **9,850 J1** | **15,100 J1** | NT | **10,700 J1** | NT | **8,310 J1** | **9,170 J1** | **37,800 J1** |
| | Lead | 7439-92-1 | 1,000 | mg/kg | **21.7** | **19.5** | NT | **15.2** | NT | **10.5** | **93.1** | **263** |
| | Magnesium | 7439-95-4 | NA | mg/kg | **3,200** | **8,710** | NT | **19,100** | NT | **10,900** | **2,820** | **9,100** |
| | Manganese | 7439-96-5 | 10,000 | mg/kg | **302 J1** | **482 J1** | NT | **434 J1** | NT | **290 J1** | **134 J1** | **443 *** |
| | Mercury | 7439-97-6 | 2.8 | mg/kg | **0.507 J1** | **0.025 UJ1** | NT | **0.023 UJ1** | NT | **0.023 UJ1** | **0.112 J1** | **0.318 J1** |
| | Nickel | 7440-02-0 | 310 | mg/kg | **9.2** | **10.9** | NT | **10.4** | NT | **7.5** | **7** | **16.3** |
| | Potassium | 7440-09-7 | NA | mg/kg | **685 E** | **2,160 E** | NT | **2,540 E** | NT | **1,960 E** | **961 E** | **825 E** |
| | Selenium | 7782-49-2 | 1,500 | mg/kg | < 4.3 U | < 5 U | NT | < 4.7 U | NT | < 4.7 U | < 4.2 U | < 4.7 U |
| | Silver | 7440-22-4 | 1,500 | mg/kg | < 0.54 U | < 0.63 U | NT | < 0.59 U | NT | < 0.58 U | < 0.52 U | < 0.59 U |
| | Sodium | 7440-23-5 | NA | mg/kg | **205** | **369** | NT | **286** | NT | **185** | **238** | **297** |
| | Thallium | 7440-28-0 | NA | mg/kg | < 6.5 U | < 7.5 U | NT | < 7.1 U | NT | < 7 U | < 6.3 U | < 7 U |
| | Vanadium (fume or dust) | 7440-62-2 | NA | mg/kg | **11.7** | **13.2** | NT | **6.5** | NT | **6.1** | **9.9** | **17.9** |
| | Zinc | 7440-66-6 | 10,000 | mg/kg | **63.9 J1** | **38.9 J1** | NT | **48.1 J1** | NT | **54.7 J1** | **67 J1** | **317 J1** |
| Pesticides | Methoxychlor [1,1,1-Trichloro-2,2-Bis (p-methoxphenyl)-ethane] | 72-43-5 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | 4,4'-DDD | 72-54-8 | 92,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | 4,4'-DDE | 72-55-9 | 62,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | 4,4'-DDT | 50-29-3 | 47,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Aldrin | 309-00-2 | 680 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | alpha-BHC | 319-84-6 | 3,400 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | alpha-Chlordane | 5103-71-9 | 24,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | beta-BHC | 319-85-7 | 3,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Toxaphene [Camphechlor] | 8001-35-2 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | delta-BHC | 319-86-8 | 500,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Dieldrin | 60-57-1 | 1,400 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endosulfan I | 959-98-8 | 200,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endosulfan II | 33213-65-9 | 200,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endosulfan sulfate | 1031-07-8 | 200,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endrin | 72-20-8 | 89,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endrin Aldehyde | 7421-93-4 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endrin Ketone | 53494-70-5 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | gamma-BHC (Lindane) | 58-89-9 | 9,200 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | gamma-Chlordane | 5103-74-2 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Heptachlor | 76-44-8 | 15,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Heptachlor epoxide | 1024-57-3 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| PCBs | Aroclor-1016 (PCB-1016) | 12674-11-2 | 1,000** | ug/kg | < 19 U | NT | < 18 U | NT | < 18 U | < 19 U | < 18 U | < 20 U |
| | Aroclor-1221 (PCB-1221) | 11104-28-2 | 1,000** | ug/kg | < 19 U | NT | < 18 U | NT | < 18 U | < 19 U | < 18 U | < 20 U |
| | Aroclor-1232 (PCB-1232) | 11141-16-5 | 1,000** | ug/kg | < 19 U | NT | < 18 U | NT | < 18 U | < 19 U | < 18 U | < 20 U |
| | Aroclor-1242 (PCB-1242) | 53469-21-9 | 1,000** | ug/kg | < 19 U | NT | < 18 U | NT | < 18 U | < 19 U | < 18 U | < 20 U |
| | Aroclor-1248 (PCB-1248) | 12672-29-6 | 1,000** | ug/kg | < 19 U | NT | < 18 U | NT | < 18 U | < 19 U | < 18 U | < 20 U |
| | Aroclor-1254 (PCB-1254) | 11097-69-1 | 1,000** | ug/kg | < 19 U | NT | < 18 U | NT | < 18 U | < 19 U | < 18 U | < 20 U |
| | Aroclor-1260 (PCB-1260) | 11096-82-5 | 1,000** | ug/kg | < 19 U | NT | < 18 U | NT | < 18 U | < 19 U | < 18 U | < 20 U |

**Table 10 - Soil Analytical Results**
**Part 375 Restricted Commercial Use**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | SB-01-091908 (10-12') | SB-02-091808 (4-6') | SB-02-091808 (9-10') | SB-03-091808 (8-10') | SB-03-91808 (10.7-11') | SB-04-091808 (6-8') | SB-05-91808 (1.5-3.5') | SB-06-091808 (2-4') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organic Compounds | 1,1,1-Trichloroethane | 71-55-6 | 500,000 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,1,2,2-Tetrachloroethane | 79-34-5 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,1,2-Trichloroethane | 79-00-5 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,1-Dichloroethane | 75-34-3 | 240,000 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,1-Dichloroethylene (1,1-Dichloroethene) | 75-35-4 | 500,000 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,2-Dibromo-3-Chloropropane (DBCP) | 96-12-8 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,2-Dibromoethane (Ethylene Dibromide) | 106-93-4 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,2-Dichlorobenzene | 95-50-1 | 500,000 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,2-Dichloroethane | 107-06-2 | 30,000 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,2-Dichloropropane | 78-87-5 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 1,4-Dichlorobenzene | 106-46-7 | 130,000 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | 2-Butanone (Methyl Ethyl Ketone) | 78-93-3 | 500,000 | ug/kg | < 29 U | < 30 U | NT | NT | < 27 U | < 29 U | < 28 U | 18 J |
| | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) | 108-10-1 | NA | ug/kg | < 29 U | < 30 U | NT | NT | < 27 U | < 29 U | < 28 U | < 29 U |
| | Acetone | 67-64-1 | 500,000 | ug/kg | 8 U1 | 10 U1 | NT | NT | 24 U1 | 13 U1 | 7 U1 | **89** |
| | Benzene | 71-43-2 | 44,000 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Bromodichloromethane | 75-27-4 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Bromomethane | 74-83-9 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Carbon disulfide | 75-15-0 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Carbon Tetrachloride | 56-23-5 | 22,000 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | CFC-11 (Freon 11, Trichlorofluoromethane) | 75-69-4 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | CFC-12 (Freon 12, Dichlorodifluoromethane) | 75-71-8 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Chlorinated Fluorocarbon (Freon 113, 1,1,2-Trichloro-1,2,2-trifluoroethane) | 76-13-1 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Chlorobenzene | 108-90-7 | 500,000 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Chlorodibromomethane (Dibromochloromethane) | 124-48-1 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Chloroethane | 75-00-3 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Chloroform | 67-66-3 | 350,000 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Chloromethane | 74-87-3 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | cis-1,2-Dichloroethene | 156-59-2 | 500,000 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | cis-1,3-Dichloropropene | 10061-01-5 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Cyclohexane | 110-82-7 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Dichloromethane (Methylene chloride) | 75-09-2 | 500,000 | ug/kg | **12** | **11** | NT | NT | **6** | **13** | **14** | **9** |
| | Ethylbenzene | 100-41-4 | 390,000 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Isopropylbenzene | 98-82-8 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 280,000 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Methyl acetate | 79-20-9 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Methyl n-butyl ketone (2-Hexanone) | 591-78-6 | NA | ug/kg | < 29 U | < 30 U | NT | NT | < 27 U | < 29 U | < 28 U | < 29 U |
| | Methylbenzene (Toluene) | 108-88-3 | 500,000 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Methylcyclohexane | 108-87-2 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Methyl Tert Butyl Ether (MTBE) | 1634-04-4 | 500,000 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Styrene (Monomer) | 100-42-5 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Tetrachloroethene | 127-18-4 | 150,000 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Total Xylenes | 1330-20-7 | 500,000 | ug/kg | < 17 U | < 18 U | NT | NT | < 16 U | < 18 U | < 17 U | < 17 U |
| | trans-1,2-Dichloroethene | 156-60-5 | 500,000 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | trans-1,3-Dichloropropene | 10061-02-6 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Tribromomethane (Bromoform) | 75-25-2 | NA | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Trichloroethylene (Trichloroethene) | 79-01-6 | 200,000 | ug/kg | < 6 U | < 6 U | NT | NT | < 5 U | < 6 U | < 6 U | < 6 U |
| | Vinyl chloride | 75-01-4 | 13,000 | ug/kg | < 11 U | < 12 U | NT | NT | < 11 U | < 12 U | < 11 U | < 11 U |
| Semi-Volatile Organic Compounds | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | 1,2-Benzphenanthracene (Chrysene) | 218-01-9 | 56,000 | ug/kg | **440 J** | NT | < 190 U | NT | **7,000** | < 190 U | **110 J** | **120 J** |
| | 1,2-dicholorobenzene | 95-50-1 | 500,000 | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | 1,4-dichlorobenzene | 106-46-7 | 130,000 | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | 2,2'-oxybis(1-Chloropropane) [bis(2-chloro-1-methyletheyl) ether] | 108-60-1 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 2,4,5-Trichlorophenol | 95-95-4 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 2,4,6-Trichlorophenol | 88-06-2 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 2,4-Dichlorophenol | 120-83-2 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |

**Table 10 - Soil Analytical Results**
**Part 375 Restricted Commercial Use**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | SB-01-091908 (10-12') | SB-02-091808 (4-6') | SB-02-091808 (9-10') | SB-03-091808 (8-10') | SB-03-91808 (10.7-11') | SB-04-091808 (6-8') | SB-05-91808 (1.5-3.5') | SB-06-091808 (2-4') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | 2,4-Dimethylphenol | 105-67-9 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 2,4-Dinitrophenol | 51-28-5 | NA | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | 2,4-Dinitrotoluene | 121-14-2 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 2,6-Dinitrotoluene | 606-20-2 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 2-Chloronaphthalene | 91-58-7 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 2-Chlorophenol | 95-57-8 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 2-Methylnaphthalene | 91-57-6 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 2-Methylphenol | 95-48-7 | 500,000 | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 2-Nitroaniline | 88-74-4 | NA | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | 2-Nitrophenol | 88-75-5 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 3,3'-Dichlorobenzidine | 91-94-1 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 3,5,5-Trimethyl-2-cyclohexene-1-one (Isophorone) | 78-59-1 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 3-Nitroaniline | 99-09-2 | NA | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | 4,6-Dinitro-2-methylphenol | 534-52-1 | NA | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | 4-Bromophenyl phenyl ether | 101-55-3 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 4-Chloro-3-methylphenol | 59-50-7 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 4-Chlorophenyl phenyl ether | 7005-72-3 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 4-Methylphenol | 106-44-5 | 500,000 | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | 4-Nitrophenol | 100-02-7 | NA | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | Acenaphthene | 83-32-9 | 500,000 | ug/kg | < 980 U | NT | < 190 U | NT | **250 J** | < 190 U | < 190 U | **17 J** |
| | Acenaphthylene | 208-96-8 | 500,000 | ug/kg | **75 J** | NT | < 190 U | NT | **110 J** | < 190 U | < 190 U | < 200 U |
| | Anthracene | 120-12-7 | 500,000 | ug/kg | **64 J** | NT | < 190 U | NT | **1,300 J** | < 190 U | **30 J** | **45 J** |
| | Benzo(a)anthracene | 56-55-3 | 5,600 | ug/kg | **390 J** | NT | < 190 U | NT | **6,800** | < 190 U | **120 J** | **130 J** |
| | Benzo(a)pyrene | 50-32-8 | 1,000 | ug/kg | **530 J** | NT | < 190 U | NT | **10,000** | < 190 U | **160 J** | **170 J** |
| | Benzo(b)fluoranthene | 205-99-2 | 5,600 | ug/kg | **780 J** | NT | < 190 U | NT | **15,000** | < 190 U | **210** | **200** |
| | Benzo(ghi)perylene | 191-24-2 | 500,000 | ug/kg | **220 J** | NT | < 190 U | NT | **3,800** | < 190 U | **56 J** | **48 J** |
| | Benzo(k)fluoranthene | 207-08-9 | 56,000 | ug/kg | **280 J** | NT | < 190 U | NT | **5,400** | < 190 U | **70 J** | **70 J** |
| | Benzyl alcohol | 100-51-6 | NA | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | Benzyl butyl phthalate (Butyl benzyl phthalate) | 85-68-7 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Bis(2-chloroethoxy) methane | 111-91-1 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Bis(2-chloroethyl) ether | 111-44-4 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Bis(2-ethylhexyl) phthalate | 117-81-7 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Dibenzo(a,h)anthracene | 53-70-3 | 560 | ug/kg | < 980 U | NT | < 190 U | NT | **1,200 J** | < 190 U | **18 J** | **15 J** |
| | Dibenzofuran | 132-64-9 | 350,000 | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Diethyl phthalate | 84-66-2 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Dimethyl phthalate | 131-11-3 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Di-n-butyl phthalate | 84-74-2 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Di-n-octyl phthalate | 117-84-0 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Fluoranthene | 206-44-0 | 500,000 | ug/kg | **1,300** | NT | **9 J** | NT | **18,000** | < 190 U | **320** | **400** |
| | Fluorene | 86-73-7 | 500,000 | ug/kg | < 980 U | NT | < 190 U | NT | **240 J** | < 190 U | **9 J** | **16 J** |
| | Hexachloro-1,3-Butadiene (Hexachlorobutadiene) | 87-68-3 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Hexachlorobenzene | 118-74-1 | 6,000 | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Hexachlorocyclopentadiene | 77-47-4 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Hexachloroethane | 67-72-1 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Indeno(1,2,3-cd)pyrene | 193-39-5 | 5,600 | ug/kg | **200 J** | NT | **< 190 U** | NT | **3,900** | < 190 U | **45 J** | **56 J** |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 280,000 | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | Methanamine, N-methyl-n-nitroso (N-Nitrosodimethylamine) | 62-75-9 | NA | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | Naphthalene | 91-20-3 | 500,000 | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Nitrobenzene | 98-95-3 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | N-Nitrosodi-n-propylamine (N-Nitroso-Di-n-propylamine) | 621-64-7 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | N-Nitrosodiphenylamine | 86-30-6 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | P-Chloroaniline (4-Chloraniline) | 106-47-8 | NA | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | Pentachlorophenol | 87-86-5 | 6,700 | ug/kg | < 1900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | Phenanthrene | 85-01-8 | 500,000 | ug/kg | **690 J** | NT | **8 J** | NT | **6,600** | < 190 U | **160 J** | **230** |
| | Phenol | 108-95-2 | 500,000 | ug/kg | < 980 U | NT | < 190 U | NT | < 1,800 U | < 190 U | < 190 U | < 200 U |
| | P-Nitroaniline (4-Nitroaniline) | 100-01-6 | NA | ug/kg | < 1,900 U | NT | < 360 U | NT | < 3,600 U | < 370 U | < 360 U | < 390 U |
| | Pyrene | 129-00-0 | 500,000 | ug/kg | **700 J** | NT | < 190 U | NT | **8,900** | < 190 U | **170 J** | **220** |

**Table 10 - Soil Analytical Results**
**Part 375 Restricted Commercial Use**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | SB-07-091808 (6-8') | SB-08-091808 (2-4') | SB-08-091808 (8-10') | Trip Blank | SB-09-091908 (2-4') | EQBLNK SB0-09-091908 | SB-10-091908 (4-8') | Blind Dup |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metals | Aluminum (fume or dust) | 7429-90-5 | NA | mg/kg | **4,180 J1** | NT | **3,860 J1** | NT | **6,230 J1** | < 200 U | **5,610 J1** | **2,840 J1** |
| | Antimony | 7440-36-0 | NA | mg/kg | **19.8 UJ1** | NT | **18.3 UJ1** | NT | **19.8 UJ1** | < 20 U | **23.7 UJ1** | **< 18.7 UJ1** |
| | Arsenic | 7440-38-2 | 16 | mg/kg | < 2.6 U | NT | **3.8** | NT | **4.7** | < 10 U | **14.9 J1** | **6 J1** |
| | Barium | 7440-39-3 | 400 | mg/kg | **20** | NT | **23.3** | NT | **45.7 E** | < 2 U | **124 J1** | **28.2 J1** |
| | Beryllium | 7440-41-7 | 590 | mg/kg | < 0.26 U | NT | **0.28** | NT | **0.3** | < 2 U | **0.67** | < 0.25 U |
| | Cadmium | 7440-43-9 | 9.3 | mg/kg | < 0.26 U | NT | < 0.24 U | NT | **0.46** | < 1 U | < 0.32 U | < 0.25 U |
| | Calcium metal | 7440-70-2 | NA | mg/kg | **20,500 J1** | NT | **57,100 J1** | NT | **5,840 J1** | < 500 U | **10,700 J1** | **87,700 J1** |
| | Chromium | 7440-47-3 | 400 Hexavalent / 1,500 Trivalent | mg/kg | **4.6** | NT | **4.8** | NT | **7.8 E** | < 4 U | **8.4 J1** | **4.2 J1** |
| | Cobalt | 7440-48-4 | NA | mg/kg | **2.9** | NT | **3.6** | NT | **3** | < 4 U | **10.7 J1** | **3.8 J1** |
| | Copper | 7440-50-8 | 270 | mg/kg | **2,500 J1** | NT | **1,730 J1** | NT | **30.6 J1** | < 10 U | **29.5 J1** | **12.5 J1** |
| | Iron | 7439-89-6 | NA | mg/kg | **6,870 J1** | NT | **8,130 J1** | NT | **9,490** | 92.5 | **21,800 J1** | **9540 J1** |
| | Lead | 7439-92-1 | 1,000 | mg/kg | **104** | NT | **77.1** | NT | **85.2** | < 5 U | **25.6 J1** | **6.1 J1** |
| | Magnesium | 7439-95-4 | NA | mg/kg | **4,460** | NT | **8,750** | NT | **2,200 J1** | < 200 U | **2,250 J1** | **10,300 J1** |
| | Manganese | 7439-96-5 | 10,000 | mg/kg | **241 J1** | NT | **335 J1** | NT | **120** | < 3 U | **321** | **323** |
| | Mercury | 7439-97-6 | 2.8 | mg/kg | **0.024 UJ1** | NT | **0.023 UJ1** | NT | **0.748** | < 0.2 U | < 0.029 U | < 0.023 U |
| | Nickel | 7440-02-0 | 310 | mg/kg | **19.1** | NT | **18.1** | NT | **9.3 E** | < 10 U | **12.6 E** | **7.4 E** |
| | Potassium | 7440-09-7 | NA | mg/kg | **648 E** | NT | **1,110 E** | NT | **610 J1** | < 500 U | **1,640 J1** | **1,160 J1** |
| | Selenium | 7782-49-2 | 1,500 | mg/kg | < 5.3 U | NT | < 4.9 U | NT | < 5.3 U | < 1 U | < 6.3 U | < 5 U |
| | Silver | 7440-22-4 | 1,500 | mg/kg | < 0.66 U | NT | < 0.61 U | NT | < 0.66 U | < 3 U | < 0.79 U | < 0.62 U |
| | Sodium | 7440-23-5 | NA | mg/kg | < 185 U | NT | < 171 U | NT | **201** | < 1,000 U | **952 J1** | **381 J1** |
| | Thallium | 7440-28-0 | NA | mg/kg | < 7.9 U | NT | < 7.3 U | NT | < 7.9 U | < 0.2 U | < 9.5 U | < 7.5 U |
| | Vanadium (fume or dust) | 7440-62-2 | NA | mg/kg | **7.8** | NT | **6.9** | NT | **11 E** | < 5 U | **14.6 J1** | **5.8 J1** |
| | Zinc | 7440-66-6 | 10,000 | mg/kg | **296 J1** | NT | **126 J1** | NT | **562 J1** | < 10 U | **282 J1** | **44.1 J1** |
| Pesticides | Methoxychlor [1,1,1-Trichloro-2,2-Bis (p-methoxphenyl)-ethane] | 72-43-5 | NA | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | 4,4'-DDD | 72-54-8 | 92,000 | ug/kg | NT | **2.9 J** | NT | NT | NT | < 0.048 U | NT | NT |
| | 4,4'-DDE | 72-55-9 | 62,000 | ug/kg | NT | **6.2** | NT | NT | NT | < 0.048 U | NT | NT |
| | 4,4'-DDT | 50-29-3 | 47,000 | ug/kg | NT | **15** | NT | NT | NT | < 0.048 U | NT | NT |
| | Aldrin | 309-00-2 | 680 | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | alpha-BHC | 319-84-6 | 3,400 | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | alpha-Chlordane | 5103-71-9 | 24,000 | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | beta-BHC | 319-85-7 | 3,000 | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | Toxaphene [Camphechlor] | 8001-35-2 | NA | ug/kg | NT | < 38 U | NT | NT | NT | < 0.48 U | NT | NT |
| | delta-BHC | 319-86-8 | 500,000 | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | Dieldrin | 60-57-1 | 1,400 | ug/kg | NT | 3.2 U1 | NT | NT | NT | < 0.048 U | NT | NT |
| | Endosulfan I | 959-98-8 | 200,000 | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | Endosulfan II | 33213-65-9 | 200,000 | ug/kg | NT | **2.4 J** | NT | NT | NT | < 0.048 U | NT | NT |
| | Endosulfan sulfate | 1031-07-8 | 200,000 | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | Endrin | 72-20-8 | 89,000 | ug/kg | NT | **4.1** | NT | NT | NT | < 0.048 U | NT | NT |
| | Endrin Aldehyde | 7421-93-4 | NA | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | Endrin Ketone | 53494-70-5 | NA | ug/kg | NT | **5.3** | NT | NT | NT | < 0.048 U | NT | NT |
| | gamma-BHC (Lindane) | 58-89-9 | 9,200 | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | gamma-Chlordane | 5103-74-2 | NA | ug/kg | NT | **2.6 J** | NT | NT | NT | < 0.048 U | NT | NT |
| | Heptachlor | 76-44-8 | 15,000 | ug/kg | NT | < 3.8 U | NT | NT | NT | < 0.048 U | NT | NT |
| | Heptachlor epoxide | 1024-57-3 | NA | ug/kg | NT | **2 J** | NT | NT | NT | < 0.048 U | NT | NT |
| PCBs | Aroclor-1016 (PCB-1016) | 12674-11-2 | 1,000** | ug/kg | < 20 U | NT | < 20 U | NT | < 19 U | < 0.48 U | < 24 U | <20 U |
| | Aroclor-1221 (PCB-1221) | 11104-28-2 | 1,000** | ug/kg | < 20 U | NT | < 20 U | NT | < 19 U | < 0.48 U | < 24 U | <20 U |
| | Aroclor-1232 (PCB-1232) | 11141-16-5 | 1,000** | ug/kg | < 20 U | NT | < 20 U | NT | < 19 U | < 0.48 U | < 24 U | <20 U |
| | Aroclor-1242 (PCB-1242) | 53469-21-9 | 1,000** | ug/kg | < 20 U | NT | < 20 U | NT | < 19 U | < 0.48 U | < 24 U | <20 U |
| | Aroclor-1248 (PCB-1248) | 12672-29-6 | 1,000** | ug/kg | < 20 U | NT | < 20 U | NT | < 19 U | < 0.48 U | < 24 U | <20 U |
| | Aroclor-1254 (PCB-1254) | 11097-69-1 | 1,000** | ug/kg | **440** | NT | < 20 U | NT | < 19 U | < 0.48 U | < 24 U | <20 U |
| | Aroclor-1260 (PCB-1260) | 11096-82-5 | 1,000** | ug/kg | < 20 U | NT | < 20 U | NT | < 19 U | < 0.48 U | < 24 U | <20 U |

**Table 10 - Soil Analytical Results**
**Part 375 Restricted Commercial Use**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | SB-07-091808 (6-8') | SB-08-091808 (2-4') | SB-08-091808 (8-10') | Trip Blank | SB-09-091908 (2-4') | EQBLNK SB0-09-091908 | SB-10-091908 (4-8') | Blind Dup |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organic Compounds | 1,1,1-Trichloroethane | 71-55-6 | 500,000 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,1,2,2-Tetrachloroethane | 79-34-5 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,1,2-Trichloroethane | 79-00-5 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,1-Dichloroethane | 75-34-3 | 240,000 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,1-Dichloroethylene (1,1-Dichloroethene) | 75-35-4 | 500,000 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,2-Dibromo-3-Chloropropane (DBCP) | 96-12-8 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,2-Dibromoethane (Ethylene Dibromide) | 106-93-4 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,2-Dichlorobenzene | 95-50-1 | 500,000 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,2-Dichloroethane | 107-06-2 | 30,000 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,2-Dichloropropane | 78-87-5 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 1,4-Dichlorobenzene | 106-46-7 | 130,000 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | 2-Butanone (Methyl Ethyl Ketone) | 78-93-3 | 500,000 | ug/kg | < 26 U | NT | < 28 U | < 5 U | < 28 U | < 5 U | < 29 U | < 30 U |
| | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) | 108-10-1 | NA | ug/kg | < 26 U | NT | < 28 U | < 5 U | < 28 U | < 5 U | < 29 U | < 30 U |
| | Acetone | 67-64-1 | 500,000 | ug/kg | 10 U1 | NT | 11 U1 | **6** | 19 U1 | **7** | 55 U1 | **23 J** |
| | Benzene | 71-43-2 | 44,000 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Bromodichloromethane | 75-27-4 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Bromomethane | 74-83-9 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Carbon disulfide | 75-15-0 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Carbon Tetrachloride | 56-23-5 | 22,000 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | CFC-11 (Freon 11, Trichlorofluoromethane) | 75-69-4 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | CFC-12 (Freon 12, Dichlorodifluoromethane) | 75-71-8 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Chlorinated Fluorocarbon (Freon 113, 1,1,2-Trichloro-1,2,2-trifluoroethane) | 76-13-1 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Chlorobenzene | 108-90-7 | 500,000 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Chlorodibromomethane (Dibromochloromethane) | 124-48-1 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Chloroethane | 75-00-3 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Chloroform | 67-66-3 | 350,000 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Chloromethane | 74-87-3 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | cis-1,2-Dichloroethene | 156-59-2 | 500,000 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | 3 J |
| | cis-1,3-Dichloropropene | 10061-01-5 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Cyclohexane | 110-82-7 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Dichloromethane (Methylene chloride) | 75-09-2 | 500,000 | ug/kg | **14** | NT | **13** | < 1 U | **11** | < 1 U | **15** | **12** |
| | Ethylbenzene | 100-41-4 | 390,000 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Isopropylbenzene | 98-82-8 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 280,000 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Methyl acetate | 79-20-9 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Methyl n-butyl ketone (2-Hexanone) | 591-78-6 | NA | ug/kg | < 26 U | NT | < 28 U | < 5 U | < 28 U | < 5 U | < 29 U | < 30 U |
| | Methylbenzene (Toluene) | 108-88-3 | 500,000 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Methylcyclohexane | 108-87-2 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | **2** | < 6 U | < 6 U |
| | Methyl Tert Butyl Ether (MTBE) | 1634-04-4 | 500,000 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Styrene (Monomer) | 100-42-5 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Tetrachloroethene | 127-18-4 | 150,000 | ug/kg | **2 J** | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Total Xylenes | 1330-20-7 | 500,000 | ug/kg | < 16 U | NT | < 17 U | < 3 U | < 17 U | < 3 U | < 18 U | < 18 U |
| | trans-1,2-Dichloroethene | 156-60-5 | 500,000 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | trans-1,3-Dichloropropene | 10061-02-6 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Tribromomethane (Bromoform) | 75-25-2 | NA | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | < 6 U |
| | Trichloroethylene (Trichloroethene) | 79-01-6 | 200,000 | ug/kg | < 5 U | NT | < 6 U | < 1 U | < 6 U | < 1 U | < 6 U | **7** |
| | Vinyl chloride | 75-01-4 | 13,000 | ug/kg | < 10 U | NT | < 11 U | < 1 U | < 11 U | < 1 U | < 12 U | < 12 U |
| Semi-Volatile Organic Compounds | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 790 U | NT | < 1,900 U | NT | < 380 U | < 11 U | < 2,300 U | < 380 U |
| | 1,2-Benzphenanthracene (Chrysene) | 218-01-9 | 56,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | 11 U1 | < 6 U | 62 U1 | < 200 U |
| | 1,2-dicholorobenzene | 95-50-1 | 500,000 | ug/kg | < 790 U | NT | < 1,900 U | NT | < 380 U | < 11 U | < 2,300 U | < 380 U |
| | 1,4-dichlorobenzene | 106-46-7 | 130,000 | ug/kg | < 790 U | NT | < 1,900 U | NT | < 380 U | < 11 U | < 2,300 U | < 380 U |
| | 2,2'-oxybis(1-Chloropropane) [bis(2-chloro-1-methyletheyl) ether] | 108-60-1 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 2,4,5-Trichlorophenol | 95-95-4 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 2,4,6-Trichlorophenol | 88-06-2 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 2,4-Dichlorophenol | 120-83-2 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |

**Table 10 - Soil Analytical Results**
**Part 375 Restricted Commercial Use**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | SB-07-091808 (6-8') | SB-08-091808 (2-4') | SB-08-091808 (8-10') | Trip Blank | SB-09-091908 (2-4') | EQBLNK SB0-09-091908 | SB-10-091908 (4-8') | Blind Dup |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | 2,4-Dimethylphenol | 105-67-9 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 2,4-Dinitrophenol | 51-28-5 | NA | ug/kg | < 790 U | NT | < 1,900 U | NT | **380 UJ1** | < 11 U | **2,300 UJ1** | < 380 U |
| | 2,4-Dinitrotoluene | 121-14-2 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 2,6-Dinitrotoluene | 606-20-2 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 2-Chloronaphthalene | 91-58-7 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 2-Chlorophenol | 95-57-8 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 2-Methylnaphthalene | 91-57-6 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 2-Methylphenol | 95-48-7 | 500,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 2-Nitroaniline | 88-74-4 | NA | ug/kg | < 790 U | NT | < 1,900 U | NT | < 380 U | < 11 U | < 2,300 U | < 380 U |
| | 2-Nitrophenol | 88-75-5 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 3,3'-Dichlorobenzidine | 91-94-1 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 3,5,5-Trimethyl-2-cyclohexene-1-one (Isophorone) | 78-59-1 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 3-Nitroaniline | 99-09-2 | NA | ug/kg | < 790 U | NT | < 1,900 U | NT | < 380 U | < 11 U | < 2,300 U | < 380 U |
| | 4,6-Dinitro-2-methylphenol | 534-52-1 | NA | ug/kg | < 790 U | NT | < 1,900 U | NT | **380 UJ1** | < 11 U | **2,300 UJ1** | < 380 U |
| | 4-Bromophenyl phenyl ether | 101-55-3 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 4-Chloro-3-methylphenol | 59-50-7 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 4-Chlorophenyl phenyl ether | 7005-72-3 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 4-Methylphenol | 106-44-5 | 500,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | 4-Nitrophenol | 100-02-7 | NA | ug/kg | < 790 U | NT | < 1,900 U | NT | < 380 U | < 11 U | < 2,300 U | < 380 U |
| | Acenaphthene | 83-32-9 | 500,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Acenaphthylene | 208-96-8 | 500,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Anthracene | 120-12-7 | 500,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Benzo(a)anthracene | 56-55-3 | 5,600 | ug/kg | **28 J** | NT | < 1,000 U | NT | 20 U1 | < 6 U | 92 U1 | 13 U1 |
| | Benzo(a)pyrene | 50-32-8 | 1,000 | ug/kg | **24 J** | NT | < 1,000 U | NT | 37 U1 | < 6 U | 200 U1 | 24 U1 |
| | Benzo(b)fluoranthene | 205-99-2 | 5,600 | ug/kg | **36 J** | NT | < 1,000 U | NT | 27 U1 | < 6 U | 120 U1 | 16 U1 |
| | Benzo(ghi)perylene | 191-24-2 | 500,000 | ug/kg | **16 J** | NT | < 1,000 U | NT | 53 U1 | < 6 U | 320 U1 | 37 U1 |
| | Benzo(k)fluoranthene | 207-08-9 | 56,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | 31 U1 | < 6 U | 170 U1 | 17 U1 |
| | Benzyl alcohol | 100-51-6 | NA | ug/kg | < 790 U | NT | < 1,900 U | NT | < 380 U | < 22 U | < 2,300 U | < 380 U |
| | Benzyl butyl phthalate (Butyl benzyl phthalate) | 85-68-7 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Bis(2-chloroethoxy) methane | 111-91-1 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Bis(2-chloroethyl) ether | 111-44-4 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Bis(2-ethylhexyl) phthalate | 117-81-7 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | 66 U1 |
| | Dibenzo(a,h)anthracene | 53-70-3 | 560 | ug/kg | < 400 U | NT | < 1,000 U | NT | 52 U1 | < 6 U | 280 U1 | 34 U1 |
| | Dibenzofuran | 132-64-9 | 350,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Diethyl phthalate | 84-66-2 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Dimethyl phthalate | 131-11-3 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Di-n-butyl phthalate | 84-74-2 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Di-n-octyl phthalate | 117-84-0 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Fluoranthene | 206-44-0 | 500,000 | ug/kg | **30 J** | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Fluorene | 86-73-7 | 500,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Hexachloro-1,3-Butadiene (Hexachlorobutadiene) | 87-68-3 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Hexachlorobenzene | 118-74-1 | 6,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Hexachlorocyclopentadiene | 77-47-4 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Hexachloroethane | 67-72-1 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Indeno(1,2,3-cd)pyrene | 193-39-5 | 5,600 | ug/kg | < 400 U | NT | < 1,000 U | NT | 63 U1 | < 6 U | 310 U1 | 40 U1 |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 280,000 | ug/kg | < 790 U | NT | < 1,900 U | NT | < 380 U | < 11 U | < 2,300 U | < 380 U |
| | Methanamine, N-methyl-n-nitroso (N-Nitrosodimethylamine) | 62-75-9 | NA | ug/kg | < 790 U | NT | < 1,900 U | NT | < 380 U | < 11 U | < 2,300 U | < 380 U |
| | Naphthalene | 91-20-3 | 500,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Nitrobenzene | 98-95-3 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | N-Nitrosodi-n-propylamine (N-Nitroso-Di-n-propylamine) | 621-64-7 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | N-Nitrosodiphenylamine | 86-30-6 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | **440 J** | < 200 U |
| | P-Chloroaniline (4-Chloraniline) | 106-47-8 | NA | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Pentachlorophenol | 87-86-5 | 6,700 | ug/kg | < 790 U | NT | < 1,900 U | NT | **380 UJ1** | < 11 U | **2,300 UJ1** | < 380 U |
| | Phenanthrene | 85-01-8 | 500,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | Phenol | 108-95-2 | 500,000 | ug/kg | < 400 U | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |
| | P-Nitroaniline (4-Nitroaniline) | 100-01-6 | NA | ug/kg | < 790 U | NT | < 1,900 U | NT | < 380 U | < 11 U | < 2,300 U | < 380 U |
| | Pyrene | 129-00-0 | 500,000 | ug/kg | **17 J** | NT | < 1,000 U | NT | < 200 U | < 6 U | < 1,200 U | < 200 U |

**Table 10 - Soil Analytical Results**
**Part 375 Restricted Commercial Use**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | SB-11-091908 (8-9') | SB-12-091908 (5-7') | SB-13-091908 (8-10') | SB-14-091908 (8-10') | SB-15-091908 (10-12') | SB-16-91908 (13-14.6') | SB-17-091908 (4-8') | SB-18-091908 (9-12') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metals | Aluminum (fume or dust) | 7429-90-5 | NA | mg/kg | **3,930 J1** | **4,240 J1** | **3,260 J1** | **2,620 EN** | **3,210 J1** | **2,610 J1** | **6,370 J1** | **2,960 J1** |
| | Antimony | 7440-36-0 | NA | mg/kg | **16.5 UJ1** | **19.5 UJ1** | **19.3 UJ1** | **18.9 UJ1** | **17.2 UJ1** | **21 UJ1** | **19.5 UJ1** | **18.5 UJ1** |
| | Arsenic | 7440-38-2 | 16 | mg/kg | **4.4** | **10.3** | **4.3** | < 2.5 U | < 2.3 U | **5.1** | **2.7** | **4.5** |
| | Barium | 7440-39-3 | 400 | mg/kg | **37.5 E** | **27.3 E** | **27.7 E** | **23.4 E** | **26.1 E** | **25.9 E** | **35.2 E** | **21.3 E** |
| | Beryllium | 7440-41-7 | 590 | mg/kg | **0.29** | **0.4** | < 0.26 U | < 0.25 U | < 0.23 U | **0.29** | **0.27** | < 0.25 U |
| | Cadmium | 7440-43-9 | 9.3 | mg/kg | < 0.22 U | < 0.26 U | < 0.26 U | < 0.25 U | < 0.23 U | < 0.28 U | < 0.26 U | < 0.25 U |
| | Calcium metal | 7440-70-2 | NA | mg/kg | **59,400 J1** | **2,400 J1** | **72,900 J1** | **44,000 N** | **28,300 J1** | **172,000 J1** | **3,950 J1** | **98,600 J1** |
| | Chromium | 7440-47-3 | 400 Hexavalent / 1,500 Trivalent | mg/kg | **9.4 E** | **6.8 E** | **4.9 E** | **4 E** | **6.1 E** | **4.3 E** | **8.4 E** | **4.5 E** |
| | Cobalt | 7440-48-4 | NA | mg/kg | **3.8** | **5.1** | **3.5** | **2.5** | **2.6** | **3.2** | **4.9** | **3.6** |
| | Copper | 7440-50-8 | 270 | mg/kg | **134 J1** | **9.6 J1** | **14.8 J1** | **18.3 N** | **12.8 J1** | **13 J1** | **35.9 J1** | **15.2 J1** |
| | Iron | 7439-89-6 | NA | mg/kg | **10,600** | **20,200** | **9,180** | **5,000** | **6,000** | **9,640** | **11,200** | **7,800** |
| | Lead | 7439-92-1 | 1,000 | mg/kg | **21.9** | **19.2** | **8.4** | **5.2** | **2.1** | **12.7** | **9.7** | **9.1** |
| | Magnesium | 7439-95-4 | NA | mg/kg | **11,500 J1** | **1,490 J1** | **10,000 J1** | **5,680 EN** | **8,120 J1** | **25,300 J1** | **2,360 J1** | **16,000 J1** |
| | Manganese | 7439-96-5 | 10,000 | mg/kg | **461** | **389** | **658** | **319** | **197** | **459** | **468** | **351** |
| | Mercury | 7439-97-6 | 2.8 | mg/kg | < 0.022 U | < 0.027 U | < 0.023 U | < 0.022 U | < 0.022 U | < 0.025 U | < 0.024 U | < 0.023 U |
| | Nickel | 7440-02-0 | 310 | mg/kg | **8.4 E** | **10.7 E** | **8.6 E** | **6.1 E** | **6.4 E** | **8.5 E** | **11.4 E** | **7.8 E** |
| | Potassium | 7440-09-7 | NA | mg/kg | **1,140 J1** | **1,500 J1** | **1,330 J1** | **1,020 EN** | **662 J1** | **1,730 J1** | **1,250 J1** | **1,390 J1** |
| | Selenium | 7782-49-2 | 1,500 | mg/kg | < 4.4 U | < 5.2 U | < 5.2 U | < 5 U | < 4.6 U | < 5.6 U | < 5.2 U | < 4.9 U |
| | Silver | 7440-22-4 | 1,500 | mg/kg | < 0.55 U | < 0.65 U | < 0.64 U | < 0.63 U | < 0.57 U | < 0.7 U | < 0.65 U | < 0.62 U |
| | Sodium | 7440-23-5 | NA | mg/kg | **178** | **< 182 U** | **252** | **223** | < 161 U | < 196 U | < 182 U | < 173 U |
| | Thallium | 7440-28-0 | NA | mg/kg | < 6.6 U | < 7.8 U | < 7.7 U | < 7.6 U | < 6.9 U | < 8.4 U | < 7.8 U | < 7.4 U |
| | Vanadium (fume or dust) | 7440-62-2 | NA | mg/kg | **8.5 E** | **10.6 E** | **6.6 E** | **5.4 E** | **6.1 E** | **5.2 E** | **12.4 E** | **6.1 E** |
| | Zinc | 7440-66-6 | 10,000 | mg/kg | **122 J1** | **170 J1** | **36.6 J1** | **22.2 N*** | **24.5 J1** | **21.7 J1** | **73.2 J1** | **20.4 J1** |
| Pesticides | Methoxychlor [1,1,1-Trichloro-2,2-Bis (p-methoxphenyl)-ethane] | 72-43-5 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | 4,4'-DDD | 72-54-8 | 92,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | 4,4'-DDE | 72-55-9 | 62,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | 4,4'-DDT | 50-29-3 | 47,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Aldrin | 309-00-2 | 680 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | alpha-BHC | 319-84-6 | 3,400 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | alpha-Chlordane | 5103-71-9 | 24,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | beta-BHC | 319-85-7 | 3,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Toxaphene [Camphechlor] | 8001-35-2 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | delta-BHC | 319-86-8 | 500,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Dieldrin | 60-57-1 | 1,400 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endosulfan I | 959-98-8 | 200,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endosulfan II | 33213-65-9 | 200,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endosulfan sulfate | 1031-07-8 | 200,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endrin | 72-20-8 | 89,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endrin Aldehyde | 7421-93-4 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endrin Ketone | 53494-70-5 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | gamma-BHC (Lindane) | 58-89-9 | 9,200 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | gamma-Chlordane | 5103-74-2 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Heptachlor | 76-44-8 | 15,000 | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| | Heptachlor epoxide | 1024-57-3 | NA | ug/kg | NT | NT | NT | NT | NT | NT | NT | NT |
| PCBs | Aroclor-1016 (PCB-1016) | 12674-11-2 | 1,000** | ug/kg | < 19 U | < 20 U | < 20 U | < 20 U | < 19 U | < 21 U | < 19 U | < 19 U |
| | Aroclor-1221 (PCB-1221) | 11104-28-2 | 1,000** | ug/kg | < 19 U | < 20 U | < 20 U | < 20 U | < 19 U | < 21 U | < 19 U | < 19 U |
| | Aroclor-1232 (PCB-1232) | 11141-16-5 | 1,000** | ug/kg | < 19 U | < 20 U | < 20 U | < 20 U | < 19 U | < 21 U | < 19 U | < 19 U |
| | Aroclor-1242 (PCB-1242) | 53469-21-9 | 1,000** | ug/kg | < 19 U | < 20 U | < 20 U | < 20 U | < 19 U | < 21 U | < 19 U | < 19 U |
| | Aroclor-1248 (PCB-1248) | 12672-29-6 | 1,000** | ug/kg | < 19 U | < 20 U | < 20 U | < 20 U | < 19 U | < 21 U | < 19 U | < 19 U |
| | Aroclor-1254 (PCB-1254) | 11097-69-1 | 1,000** | ug/kg | < 19 U | < 20 U | < 20 U | < 20 U | < 19 U | < 21 U | < 19 U | < 19 U |
| | Aroclor-1260 (PCB-1260) | 11096-82-5 | 1,000** | ug/kg | < 19 U | < 20 U | < 20 U | < 20 U | < 19 U | < 21 U | < 19 U | < 19 U |

**Table 10 - Soil Analytical Results**
**Part 375 Restricted Commercial Use**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | SB-11-091908 (8-9') | SB-12-091908 (5-7') | SB-13-091908 (8-10') | SB-14-091908 (8-10') | SB-15-091908 (10-12') | SB-16-91908 (13-14.6') | SB-17-091908 (4-8') | SB-18-091908 (9-12') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organic Compounds | 1,1,1-Trichloroethane | 71-55-6 | 500,000 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,1,2,2-Tetrachloroethane | 79-34-5 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,1,2-Trichloroethane | 79-00-5 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,1-Dichloroethane | 75-34-3 | 240,000 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,1-Dichloroethylene (1,1-Dichloroethene) | 75-35-4 | 500,000 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,2-Dibromo-3-Chloropropane (DBCP) | 96-12-8 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,2-Dibromoethane (Ethylene Dibromide) | 106-93-4 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,2-Dichlorobenzene | 95-50-1 | 500,000 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,2-Dichloroethane | 107-06-2 | 30,000 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,2-Dichloropropane | 78-87-5 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 1,4-Dichlorobenzene | 106-46-7 | 130,000 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | 2-Butanone (Methyl Ethyl Ketone) | 78-93-3 | 500,000 | ug/kg | < 30 U | < 30 U | < 29 U | < 130 U | < 30 U | < 140 U | < 130 U | < 150 U |
| | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) | 108-10-1 | NA | ug/kg | < 30 U | < 30 U | < 29 U | < 130 U | < 30 U | < 140 U | < 130 U | < 150 U |
| | Acetone | 67-64-1 | 500,000 | ug/kg | 34 U1 | 10 U1 | 19 U1 | **43 J** | 38 U1 | 55 U1 | **77 J** | 49 U1 |
| | Benzene | 71-43-2 | 44,000 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Bromodichloromethane | 75-27-4 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Bromomethane | 74-83-9 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Carbon disulfide | 75-15-0 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | **1 J** | < 29 U | < 26 U | < 29 U |
| | Carbon Tetrachloride | 56-23-5 | 22,000 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | CFC-11 (Freon 11, Trichlorofluoromethane) | 75-69-4 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | CFC-12 (Freon 12, Dichlorodifluoromethane) | 75-71-8 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Chlorinated Fluorocarbon (Freon 113, 1,1,2-Trichloro-1,2,2-trifluoroethane) | 76-13-1 | NA | ug/kg | **15** | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Chlorobenzene | 108-90-7 | 500,000 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Chlorodibromomethane (Dibromochloromethane) | 124-48-1 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Chloroethane | 75-00-3 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Chloroform | 67-66-3 | 350,000 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Chloromethane | 74-87-3 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | cis-1,2-Dichloroethene | 156-59-2 | 500,000 | ug/kg | **15** | **8** | **5 J** | < 26 U | **4 J** | < 29 U | **160** | < 29 U |
| | cis-1,3-Dichloropropene | 10061-01-5 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Cyclohexane | 110-82-7 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Dichloromethane (Methylene chloride) | 75-09-2 | 500,000 | ug/kg | **12** | **11** | **12** | **17 J** | **16** | < 29 U | **11 J** | < 29 U |
| | Ethylbenzene | 100-41-4 | 390,000 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | **93** | < 29 U |
| | Isopropylbenzene | 98-82-8 | NA | ug/kg | < 6 U | < 6 U | < 6 U | **26** | < 6 U | < 29 U | **79** | **9 J** |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 280,000 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Methyl acetate | 79-20-9 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Methyl n-butyl ketone (2-Hexanone) | 591-78-6 | NA | ug/kg | < 30 U | < 30 U | < 29 U | < 130 U | < 30 U | < 140 U | < 130 U | < 150 U |
| | Methylbenzene (Toluene) | 108-88-3 | 500,000 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Methylcyclohexane | 108-87-2 | NA | ug/kg | < 6 U | < 6 U | < 6 U | **40** | < 6 U | < 29 U | **28** | **23 J** |
| | Methyl Tert Butyl Ether (MTBE) | 1634-04-4 | 500,000 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Styrene (Monomer) | 100-42-5 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Tetrachloroethene | 127-18-4 | 150,000 | ug/kg | < 6 U | < 6 U | **4 J** | < 26 U | < 6 U | < 29 U | **5 J** | < 29 U |
| | Total Xylenes | 1330-20-7 | 500,000 | ug/kg | < 18 U | < 18 U | < 18 U | **23 J** | < 18 U | < 87 U | **15 J** | < 88 U |
| | trans-1,2-Dichloroethene | 156-60-5 | 500,000 | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | trans-1,3-Dichloropropene | 10061-02-6 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Tribromomethane (Bromoform) | 75-25-2 | NA | ug/kg | < 6 U | < 6 U | < 6 U | < 26 U | < 6 U | < 29 U | < 26 U | < 29 U |
| | Trichloroethylene (Trichloroethene) | 79-01-6 | 200,000 | ug/kg | **220** | < 6 U | **22** | < 26 U | < 6 U | < 29 U | **1,200 D** | < 29 U |
| | Vinyl chloride | 75-01-4 | 13,000 | ug/kg | < 12 U | < 12 U | < 12 U | < 52 U | < 12 U | < 58 U | < 52 U | < 59 U |
| Semi-Volatile Organic Compounds | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 1,900 U | < 410 U | < 410 U | < 400 U | < 370 U | < 410 U | < 390 U | < 380 U |
| | 1,2-Benzphenanthracene (Chrysene) | 218-01-9 | 56,000 | ug/kg | 43 U1 | < 210 U | < 210 U | **12 BJ** | < 190 U | 8 U1 | 20 U1 | 29 U1 |
| | 1,2-dicholorobenzene | 95-50-1 | 500,000 | ug/kg | < 1,900 U | < 410 U | < 410 U | < 400 U | < 370 U | < 410 U | < 390 U | < 380 U |
| | 1,4-dichlorobenzene | 106-46-7 | 130,000 | ug/kg | < 1,900 U | < 410 U | < 410 U | < 400 U | < 370 U | < 410 U | < 390 U | < 380 U |
| | 2,2'-oxybis(1-Chloropropane) [bis(2-chloro-1-methyletheyl) ether] | 108-60-1 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 2,4,5-Trichlorophenol | 95-95-4 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 2,4,6-Trichlorophenol | 88-06-2 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 2,4-Dichlorophenol | 120-83-2 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |

**Table 10 - Soil Analytical Results**
**Part 375 Restricted Commercial Use**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | SB-11-091908 (8-9') | SB-12-091908 (5-7') | SB-13-091908 (8-10') | SB-14-091908 (8-10') | SB-15-091908 (10-12') | SB-16-91908 (13-14.6') | SB-17-091908 (4-8') | SB-18-091908 (9-12') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | 2,4-Dimethylphenol | 105-67-9 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 2,4-Dinitrophenol | 51-28-5 | NA | ug/kg | **1,900 UJ1** | **410 UJ1** | 410 U | **400 UJ1** | **370 UJ1** | **410 UJ1** | **390 UJ1** | **380 UJ1** |
| | 2,4-Dinitrotoluene | 121-14-2 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 2,6-Dinitrotoluene | 606-20-2 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 2-Chloronaphthalene | 91-58-7 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 2-Chlorophenol | 95-57-8 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 2-Methylnaphthalene | 91-57-6 | NA | ug/kg | < 960 U | < 210 U | < 210 U | **4,500** | < 190 U | < 210 U | **12,000 D** | **3,200** |
| | 2-Methylphenol | 95-48-7 | 500,000 | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 2-Nitroaniline | 88-74-4 | NA | ug/kg | < 1,900 U | < 410 U | < 410 U | < 400 U | < 370 U | < 410 U | < 390 U | < 380 U |
| | 2-Nitrophenol | 88-75-5 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 3,3'-Dichlorobenzidine | 91-94-1 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 3,5,5-Trimethyl-2-cyclohexene-1-one (Isophorone) | 78-59-1 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 3-Nitroaniline | 99-09-2 | NA | ug/kg | < 1,900 U | < 410 U | < 410 U | < 400 U | < 370 U | < 410 U | < 390 U | < 380 U |
| | 4,6-Dinitro-2-methylphenol | 534-52-1 | NA | ug/kg | **1,900 UJ1** | **410 UJ1** | **410 UJ1** | **400 UJ1** | **370 UJ1** | **410 UJ1** | **390 UJ1** | **380 UJ1** |
| | 4-Bromophenyl phenyl ether | 101-55-3 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 4-Chloro-3-methylphenol | 59-50-7 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 4-Chlorophenyl phenyl ether | 7005-72-3 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 4-Methylphenol | 106-44-5 | 500,000 | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | 4-Nitrophenol | 100-02-7 | NA | ug/kg | < 1,900 U | < 410 U | < 410 U | < 400 U | < 370 U | < 410 U | < 390 U | < 380 U |
| | Acenaphthene | 83-32-9 | 500,000 | ug/kg | < 960 U | < 210 U | < 210 U | **280** | **18 J** | < 210 U | **720** | **290** |
| | Acenaphthylene | 208-96-8 | 500,000 | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Anthracene | 120-12-7 | 500,000 | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | **140 J** |
| | Benzo(a)anthracene | 56-55-3 | 5,600 | ug/kg | 55 U1 | 10 U1 | < 210 U | **17 BJ** | 10 U1 | 10 U1 | 24 U1 | 31 U1 |
| | Benzo(a)pyrene | 50-32-8 | 1,000 | ug/kg | 110 U1 | 19 U1 | 16 U1 | **17 BJ** | 11 U1 | 16 U1 | 20 U1 | 64 U1 |
| | Benzo(b)fluoranthene | 205-99-2 | 5,600 | ug/kg | 78 U1 | 14 U1 | 13 U1 | **16 BJ** | 12 U1 | 12 U1 | 21 U1 | 45 U1 |
| | Benzo(ghi)perylene | 191-24-2 | 500,000 | ug/kg | 200 U1 | 31 U1 | 25 U1 | **26 BJ** | 19 U1 | 25 U1 | 26 U1 | 83 U1 |
| | Benzo(k)fluoranthene | 207-08-9 | 56,000 | ug/kg | 85 U1 | 13 U1 | 11 U1 | **15 BJ** | 11 U1 | 11 U1 | 16 U1 | 50 U1 |
| | Benzyl alcohol | 100-51-6 | NA | ug/kg | < 1,900 U | < 410 U | < 410 U | < 400 U | < 370 U | < 410 U | < 390 U | < 380 U |
| | Benzyl butyl phthalate (Butyl benzyl phthalate) | 85-68-7 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Bis(2-chloroethoxy) methane | 111-91-1 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Bis(2-chloroethyl) ether | 111-44-4 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Bis(2-ethylhexyl) phthalate | 117-81-7 | NA | ug/kg | < 960 U | < 210 U | < 210 U | **130 BJ** | < 190 U | < 210 U | < 200 U | < 200 U |
| | Dibenzo(a,h)anthracene | 53-70-3 | 560 | ug/kg | 160 U1 | 28 U1 | 25 U1 | **23 BJ** | 19 U1 | 19 U1 | 20 U1 | 87 U1 |
| | Dibenzofuran | 132-64-9 | 350,000 | ug/kg | < 960 U | < 210 U | < 210 U | **260** | **11 J** | < 210 U | < 200 U | **300** |
| | Diethyl phthalate | 84-66-2 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Dimethyl phthalate | 131-11-3 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Di-n-butyl phthalate | 84-74-2 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Di-n-octyl phthalate | 117-84-0 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | **11 BJ** |
| | Fluoranthene | 206-44-0 | 500,000 | ug/kg | < 960 U | < 210 U | < 210 U | **34 BJ** | < 190 U | 11 U1 | < 200 U | < 200 U |
| | Fluorene | 86-73-7 | 500,000 | ug/kg | < 960 U | < 210 U | < 210 U | **350** | **27 J** | < 210 U | **2,000** | **470** |
| | Hexachloro-1,3-Butadiene (Hexachlorobutadiene) | 87-68-3 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Hexachlorobenzene | 118-74-1 | 6,000 | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Hexachlorocyclopentadiene | 77-47-4 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Hexachloroethane | 67-72-1 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Indeno(1,2,3-cd)pyrene | 193-39-5 | 5,600 | ug/kg | 190 U1 | 32 U1 | 24 U1 | **25 BJ** | 21 U1 | 23 U1 | 23 U1 | 86 U1 |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 280,000 | ug/kg | < 1,900 U | < 410 U | < 410 U | < 400 U | < 370 U | < 410 U | < 390 U | < 380 U |
| | Methanamine, N-methyl-n-nitroso (N-Nitrosodimethylamine) | 62-75-9 | NA | ug/kg | < 1,900 U | < 410 U | < 410 U | < 400 U | < 370 U | < 410 U | < 390 U | < 380 U |
| | Naphthalene | 91-20-3 | 500,000 | ug/kg | < 960 U | < 210 U | < 210 U | **650** | < 190 U | < 210 U | **1,200** | **460** |
| | Nitrobenzene | 98-95-3 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | N-Nitrosodi-n-propylamine (N-Nitroso-Di-n-propylamine) | 621-64-7 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | N-Nitrosodiphenylamine | 86-30-6 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | **10,000 D** | < 200 U |
| | P-Chloroaniline (4-Chloraniline) | 106-47-8 | NA | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | Pentachlorophenol | 87-86-5 | 6,700 | ug/kg | **1,900 UJ1** | **410 UJ1** | **410 UJ1** | **400 UJ1** | **370 UJ1** | **410 UJ1** | **390 UJ1** | **380 UJ1** |
| | Phenanthrene | 85-01-8 | 500,000 | ug/kg | < 960 U | < 210 U | < 210 U | **1,200 B** | 9 U1 | 22 U1 | **3,600 B** | **1,200 B** |
| | Phenol | 108-95-2 | 500,000 | ug/kg | < 960 U | < 210 U | < 210 U | < 210 U | < 190 U | < 210 U | < 200 U | < 200 U |
| | P-Nitroaniline (4-Nitroaniline) | 100-01-6 | NA | ug/kg | < 1,900 U | < 410 U | < 410 U | < 400 U | < 370 U | < 410 U | < 390 U | < 380 U |
| | Pyrene | 129-00-0 | 500,000 | ug/kg | < 960 U | < 210 U | < 210 U | **35 J** | < 190 U | < 210 U | **100 J** | **30 J** |

**Table 10 - Soil Analytical Results**
**Part 375 Restricted Commercial Use**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | TRIP BLANK | SB-19-092408 (10-13') | SB-20-92408 (13-14.2') | SB-21-92408 (13-13.5') | SB-22-092408 (10-12') | SB-23-092408 (7-8') | SB-24-092408 (8-10.5') | Blind Dup-092408 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metals | Aluminum (fume or dust) | 7429-90-5 | NA | mg/kg | NT | **2,840 E** | **3,680 E** | **3,840 E** | **3,390 E** | **2,970 E** | **2,730 E** | **2,730 E** |
| | Antimony | 7440-36-0 | NA | mg/kg | NT | **18.7 UJ1** | **17.7 UJ1** | **16.9 UJ1** | **18.7 UJ1** | **17.6 UJ1** | **17.9 UJ1** | **< 18.6 UJ1** |
| | Arsenic | 7440-38-2 | 16 | mg/kg | NT | **5.3** | **10.9** | < 2.2 U | < 2.5 U | **4.9** | **3.5** | **4.1** |
| | Barium | 7440-39-3 | 400 | mg/kg | NT | **22.3 E** | **27.9 E** | **25.4 E** | **16.4 E** | **60.9 E** | **21.7 E** | **24.6 E** |
| | Beryllium | 7440-41-7 | 590 | mg/kg | NT | < 0.25 U | **0.35** | **0.26** | < 0.25 U | **0.25** | < 0.24 U | < 0.25 U |
| | Cadmium | 7440-43-9 | 9.3 | mg/kg | NT | < 0.25 U | < 0.24 U | < 0.22 U | < 0.25 U | < 0.23 U | < 0.24 U | < 0.25 U |
| | Calcium metal | 7440-70-2 | NA | mg/kg | NT | **128,000 *** | **171,000 *** | **122,000 *** | **18,200 *** | **147,000 *** | **73,200 *** | **116,000 J1** |
| | Chromium | 7440-47-3 | 400 Hexavalent / 1,500 Trivalent | mg/kg | NT | **5.7** | **5.1** | **13.9** | **5.6** | **6** | **5.7** | **6.5** |
| | Cobalt | 7440-48-4 | NA | mg/kg | NT | **4** | **4.7** | **10.6** | **3.4** | **4.3** | **3.2** | **3.3** |
| | Copper | 7440-50-8 | 270 | mg/kg | NT | **12.7** | **10.6** | **50.2** | **23.7** | **17.7** | **7.4** | **9.8** |
| | Iron | 7439-89-6 | NA | mg/kg | NT | **8,130 J1** | **14,400 J1** | **6,060 J1** | **7,490 J1** | **8,870 J1** | **7,770 J1** | **8,750 J1** |
| | Lead | 7439-92-1 | 1,000 | mg/kg | NT | **9** | **11.9** | **23.4** | **2.5** | **8.8** | **9.3** | **10.8** |
| | Magnesium | 7439-95-4 | NA | mg/kg | NT | **13,700 E** | **19,000 E** | **47,700 E** | **4,590 E** | **15,600 E** | **11,500 E** | **18,300 E** |
| | Manganese | 7439-96-5 | 10,000 | mg/kg | NT | **354 E** | **416 E** | **280 E** | **107 E** | **603 E** | **426 E** | **359 E** |
| | Mercury | 7439-97-6 | 2.8 | mg/kg | NT | < 0.024 U | < 0.022 U | **0.027** | < 0.023 U | < 0.024 U | < 0.025 U | < 0.023 U |
| | Nickel | 7440-02-0 | 310 | mg/kg | NT | **8.6** | **11** | **5.6** | **7.7** | **7** | **6.9** | **7.3** |
| | Potassium | 7440-09-7 | NA | mg/kg | NT | **1,550** | **2,350** | **1,020** | **844** | **1,400** | **1,070** | **1,410** |
| | Selenium | 7782-49-2 | 1,500 | mg/kg | NT | < 5 U | < 4.7 U | < 4.5 U | < 5 U | < 4.7 U | < 4.8 U | **< 5 UJ1** |
| | Silver | 7440-22-4 | 1,500 | mg/kg | NT | < 0.62 U | < 0.59 U | < 0.56 U | < 0.62 U | < 0.59 U | < 0.6 U | < 0.62 U |
| | Sodium | 7440-23-5 | NA | mg/kg | NT | < 175 U | **180** | **220** | < 174 U | **309** | < 167 U | < 174 U |
| | Thallium | 7440-28-0 | NA | mg/kg | NT | < 7.5 U | < 7.1 U | < 6.7 U | < 7.5 U | < 7 U | < 7.1 U | < 7.4 U |
| | Vanadium (fume or dust) | 7440-62-2 | NA | mg/kg | NT | **5** | **5.9** | **6.7** | **7.1** | **6.7** | **5** | **5.5** |
| | Zinc | 7440-66-6 | 10,000 | mg/kg | NT | **23.9** | **35.9** | **46.3** | **30.6** | **22.5** | **25.6** | **24.4** |
| Pesticides | Methoxychlor [1,1,1-Trichloro-2,2-Bis (p-methoxphenyl)-ethane] | 72-43-5 | NA | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | 4,4'-DDD | 72-54-8 | 92,000 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | 4,4'-DDE | 72-55-9 | 62,000 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | 4,4'-DDT | 50-29-3 | 47,000 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Aldrin | 309-00-2 | 680 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | alpha-BHC | 319-84-6 | 3,400 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | alpha-Chlordane | 5103-71-9 | 24,000 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | beta-BHC | 319-85-7 | 3,000 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Toxaphene [Camphechlor] | 8001-35-2 | NA | ug/kg | NT | NT | < 19 U | NT | NT | NT | NT | NT |
| | delta-BHC | 319-86-8 | 500,000 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Dieldrin | 60-57-1 | 1,400 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Endosulfan I | 959-98-8 | 200,000 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Endosulfan II | 33213-65-9 | 200,000 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Endosulfan sulfate | 1031-07-8 | 200,000 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Endrin | 72-20-8 | 89,000 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Endrin Aldehyde | 7421-93-4 | NA | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Endrin Ketone | 53494-70-5 | NA | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | gamma-BHC (Lindane) | 58-89-9 | 9,200 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | gamma-Chlordane | 5103-74-2 | NA | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Heptachlor | 76-44-8 | 15,000 | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| | Heptachlor epoxide | 1024-57-3 | NA | ug/kg | NT | NT | < 1.9 U | NT | NT | NT | NT | NT |
| PCBs | Aroclor-1016 (PCB-1016) | 12674-11-2 | 1,000** | ug/kg | NT | < 20 U | < 19 U | < 18 U | < 19 U | < 20 U | < 20 U | < 20 U |
| | Aroclor-1221 (PCB-1221) | 11104-28-2 | 1,000** | ug/kg | NT | < 20 U | < 19 U | < 18 U | < 19 U | < 20 U | < 20 U | < 20 U |
| | Aroclor-1232 (PCB-1232) | 11141-16-5 | 1,000** | ug/kg | NT | < 20 U | < 19 U | < 18 U | < 19 U | < 20 U | < 20 U | < 20 U |
| | Aroclor-1242 (PCB-1242) | 53469-21-9 | 1,000** | ug/kg | NT | < 20 U | < 19 U | < 18 U | < 19 U | < 20 U | < 20 U | < 20 U |
| | Aroclor-1248 (PCB-1248) | 12672-29-6 | 1,000** | ug/kg | NT | < 20 U | < 19 U | < 18 U | < 19 U | < 20 U | < 20 U | < 20 U |
| | Aroclor-1254 (PCB-1254) | 11097-69-1 | 1,000** | ug/kg | NT | < 20 U | < 19 U | < 18 U | < 19 U | < 20 U | < 20 U | < 20 U |
| | Aroclor-1260 (PCB-1260) | 11096-82-5 | 1,000** | ug/kg | NT | < 20 U | < 19 U | < 18 U | < 19 U | < 20 U | < 20 U | < 20 U |

**Table 10 - Soil Analytical Results**
**Part 375 Restricted Commercial Use**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | TRIP BLANK | SB-19-092408 (10-13') | SB-20-92408 (13-14.2') | SB-21-92408 (13-13.5') | SB-22-092408 (10-12') | SB-23-092408 (7-8') | SB-24-092408 (8-10.5') | Blind Dup-092408 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organic Compounds | 1,1,1-Trichloroethane | 71-55-6 | 500,000 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | 1,1,2,2-Tetrachloroethane | 79-34-5 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | 1,1,2-Trichloroethane | 79-00-5 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | **3 J** | **7** |
| | 1,1-Dichloroethane | 75-34-3 | 240,000 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | 1,1-Dichloroethylene (1,1-Dichloroethene) | 75-35-4 | 500,000 | ug/kg | < 1 U | < 6 U | < 27 U | **3 J** | < 6 U | < 6 U | < 6 U | < 6 U |
| | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | 1,2-Dibromo-3-Chloropropane (DBCP) | 96-12-8 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | 1,2-Dibromoethane (Ethylene Dibromide) | 106-93-4 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | 1,2-Dichlorobenzene | 95-50-1 | 500,000 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | 1,2-Dichloroethane | 107-06-2 | 30,000 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | **3 J** | **9** |
| | 1,2-Dichloropropane | 78-87-5 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | 1,4-Dichlorobenzene | 106-46-7 | 130,000 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | 2-Butanone (Methyl Ethyl Ketone) | 78-93-3 | 500,000 | ug/kg | < 5 U | < 30 U | < 130 U | < 29 U | < 30 U | < 29 U | < 30 U | < 30 U |
| | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) | 108-10-1 | NA | ug/kg | < 5 U | < 30 U | < 130 U | < 29 U | < 30 U | < 29 U | < 30 U | < 30 U |
| | Acetone | 67-64-1 | 500,000 | ug/kg | < 5 U | 20 U1 | 37 U1 | 29 U1 | 19 U1 | 12 U1 | **11 J** | **10 J** |
| | Benzene | 71-43-2 | 44,000 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Bromodichloromethane | 75-27-4 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Bromomethane | 74-83-9 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Carbon disulfide | 75-15-0 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Carbon Tetrachloride | 56-23-5 | 22,000 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | CFC-11 (Freon 11, Trichlorofluoromethane) | 75-69-4 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | CFC-12 (Freon 12, Dichlorodifluoromethane) | 75-71-8 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Chlorinated Fluorocarbon (Freon 113, 1,1,2-Trichloro-1,2,2-trifluoroethane) | 76-13-1 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Chlorobenzene | 108-90-7 | 500,000 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Chlorodibromomethane (Dibromochloromethane) | 124-48-1 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Chloroethane | 75-00-3 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Chloroform | 67-66-3 | 350,000 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | **2 J** |
| | Chloromethane | 74-87-3 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | cis-1,2-Dichloroethene | 156-59-2 | 500,000 | ug/kg | < 1 U | < 6 U | < 27 U | **2,100 D** | **290 D** | **5 J** | < 6 U | **2 J** |
| | cis-1,3-Dichloropropene | 10061-01-5 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Cyclohexane | 110-82-7 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Dichloromethane (Methylene chloride) | 75-09-2 | 500,000 | ug/kg | < 1 U | < 6 U | < 27 U | **2 J** | < 6 U | **5 J** | **4 J** | **4 J** |
| | Ethylbenzene | 100-41-4 | 390,000 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Isopropylbenzene | 98-82-8 | NA | ug/kg | < 1 U | < 6 U | **34** | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 280,000 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Methyl acetate | 79-20-9 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Methyl n-butyl ketone (2-Hexanone) | 591-78-6 | NA | ug/kg | < 5 U | < 30 U | < 130 U | < 29 U | < 30 U | < 29 U | < 30 U | < 30 U |
| | Methylbenzene (Toluene) | 108-88-3 | 500,000 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Methylcyclohexane | 108-87-2 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Methyl Tert Butyl Ether (MTBE) | 1634-04-4 | 500,000 | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Styrene (Monomer) | 100-42-5 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Tetrachloroethene | 127-18-4 | 150,000 | ug/kg | < 1 U | < 6 U | < 27 U | **13** | < 6 U | **16** | < 6 U | **3 J** |
| | Total Xylenes | 1330-20-7 | 500,000 | ug/kg | < 3 U | < 18 U | < 80 U | < 18 U | < 18 U | < 17 U | < 18 U | < 18 U |
| | trans-1,2-Dichloroethene | 156-60-5 | 500,000 | ug/kg | < 1 U | < 6 U | < 27 U | **15** | **6** | < 6 U | < 6 U | < 6 U |
| | trans-1,3-Dichloropropene | 10061-02-6 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Tribromomethane (Bromoform) | 75-25-2 | NA | ug/kg | < 1 U | < 6 U | < 27 U | < 6 U | < 6 U | < 6 U | < 6 U | < 6 U |
| | Trichloroethylene (Trichloroethene) | 79-01-6 | 200,000 | ug/kg | < 1 U | < 6 U | < 27 U | 940 D | **220** | **26** | **1,600 D** | **11,000 D** |
| | Vinyl chloride | 75-01-4 | 13,000 | ug/kg | < 1 U | < 12 U | < 54 U | **92** | **4 J** | < 11 U | < 12 U | < 12 U |
| Semi-Volatile Organic Compounds | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 400 U |
| | 1,2-Benzphenanthracene (Chrysene) | 218-01-9 | 56,000 | ug/kg | NT | < 200 U | **15 J** | **21 J** | < 190 U | < 200 U | < 200 U | < 400 U |
| | 1,2-dicholorobenzene | 95-50-1 | 500,000 | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 400 U |
| | 1,4-dichlorobenzene | 106-46-7 | 130,000 | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 210 U |
| | 2,2'-oxybis(1-Chloropropane) [bis(2-chloro-1-methyletheyl) ether] | 108-60-1 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 2,4,5-Trichlorophenol | 95-95-4 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 2,4,6-Trichlorophenol | 88-06-2 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 400 U |
| | 2,4-Dichlorophenol | 120-83-2 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |

**Table 10 - Soil Analytical Results**
**Part 375 Restricted Commercial Use**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | TRIP BLANK | SB-19-092408 (10-13') | SB-20-92408 (13-14.2') | SB-21-92408 (13-13.5') | SB-22-092408 (10-12') | SB-23-092408 (7-8') | SB-24-092408 (8-10.5') | Blind Dup-092408 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | 2,4-Dimethylphenol | 105-67-9 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 2,4-Dinitrophenol | 51-28-5 | NA | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 210 U |
| | 2,4-Dinitrotoluene | 121-14-2 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 2,6-Dinitrotoluene | 606-20-2 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 2-Chloronaphthalene | 91-58-7 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 2-Chlorophenol | 95-57-8 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 2-Methylnaphthalene | 91-57-6 | NA | ug/kg | NT | < 200 U | **590** | **13 J** | < 190 U | < 200 U | < 200 U | < 210 U |
| | 2-Methylphenol | 95-48-7 | 500,000 | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 2-Nitroaniline | 88-74-4 | NA | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 400 U |
| | 2-Nitrophenol | 88-75-5 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 3,3'-Dichlorobenzidine | 91-94-1 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 3,5,5-Trimethyl-2-cyclohexene-1-one (Isophorone) | 78-59-1 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 3-Nitroaniline | 99-09-2 | NA | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 210 U |
| | 4,6-Dinitro-2-methylphenol | 534-52-1 | NA | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 210 U |
| | 4-Bromophenyl phenyl ether | 101-55-3 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 4-Chloro-3-methylphenol | 59-50-7 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 4-Chlorophenyl phenyl ether | 7005-72-3 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 4-Methylphenol | 106-44-5 | 500,000 | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | 4-Nitrophenol | 100-02-7 | NA | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 210 U |
| | Acenaphthene | 83-32-9 | 500,000 | ug/kg | NT | < 200 U | **730** | **32 J** | < 190 U | < 200 U | < 200 U | < 210 U |
| | Acenaphthylene | 208-96-8 | 500,000 | ug/kg | NT | < 200 U | **460** | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Anthracene | 120-12-7 | 500,000 | ug/kg | NT | < 200 U | **620** | **31 J** | < 190 U | < 200 U | < 200 U | < 210 U |
| | Benzo(a)anthracene | 56-55-3 | 5,600 | ug/kg | NT | < 200 U | **18 J** | **27 J** | < 190 U | < 200 U | < 200 U | < 400 U |
| | Benzo(a)pyrene | 50-32-8 | 1,000 | ug/kg | NT | < 200 U | < 190 U | **24 J** | < 190 U | < 200 U | < 200 U | < 400 U |
| | Benzo(b)fluoranthene | 205-99-2 | 5,600 | ug/kg | NT | < 200 U | < 190 U | **32 J** | < 190 U | < 200 U | < 200 U | < 210 U |
| | Benzo(ghi)perylene | 191-24-2 | 500,000 | ug/kg | NT | < 200 U | < 190 U | **18 J** | < 190 U | < 200 U | < 200 U | < 400 U |
| | Benzo(k)fluoranthene | 207-08-9 | 56,000 | ug/kg | NT | < 200 U | < 190 U | **12 J** | < 190 U | < 200 U | < 200 U | < 210 U |
| | Benzyl alcohol | 100-51-6 | NA | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 210 U |
| | Benzyl butyl phthalate (Butyl benzyl phthalate) | 85-68-7 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Bis(2-chloroethoxy) methane | 111-91-1 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Bis(2-chloroethyl) ether | 111-44-4 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 400 U |
| | Bis(2-ethylhexyl) phthalate | 117-81-7 | NA | ug/kg | NT | < 200 U | < 190 U | **150 J** | < 190 U | < 200 U | **330** | < 210 U |
| | Dibenzo(a,h)anthracene | 53-70-3 | 560 | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Dibenzofuran | 132-64-9 | 350,000 | ug/kg | NT | < 200 U | **220** | **39 J** | < 190 U | < 200 U | < 200 U | < 210 U |
| | Diethyl phthalate | 84-66-2 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Dimethyl phthalate | 131-11-3 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Di-n-butyl phthalate | 84-74-2 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Di-n-octyl phthalate | 117-84-0 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Fluoranthene | 206-44-0 | 500,000 | ug/kg | NT | < 200 U | **61 J** | **54 J** | < 190 U | < 200 U | < 200 U | < 210 U |
| | Fluorene | 86-73-7 | 500,000 | ug/kg | NT | < 200 U | **1,500** | **64 J** | < 190 U | < 200 U | < 200 U | < 210 U |
| | Hexachloro-1,3-Butadiene (Hexachlorobutadiene) | 87-68-3 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Hexachlorobenzene | 118-74-1 | 6,000 | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Hexachlorocyclopentadiene | 77-47-4 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Hexachloroethane | 67-72-1 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 400 U |
| | Indeno(1,2,3-cd)pyrene | 193-39-5 | 5,600 | ug/kg | NT | < 200 U | < 190 U | **16 J** | < 190 U | < 200 U | < 200 U | < 210 U |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 280,000 | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 400 U |
| | Methanamine, N-methyl-n-nitroso (N-Nitrosodimethylamine) | 62-75-9 | NA | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 210 U |
| | Naphthalene | 91-20-3 | 500,000 | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Nitrobenzene | 98-95-3 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | N-Nitrosodi-n-propylamine (N-Nitroso-Di-n-propylamine) | 621-64-7 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | N-Nitrosodiphenylamine | 86-30-6 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | P-Chloroaniline (4-Chloraniline) | 106-47-8 | NA | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | Pentachlorophenol | 87-86-5 | 6,700 | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 400 U |
| | Phenanthrene | 85-01-8 | 500,000 | ug/kg | NT | < 200 U | **3,500** | **130 J** | < 190 U | **9 J** | < 200 U | < 210 U |
| | Phenol | 108-95-2 | 500,000 | ug/kg | NT | < 200 U | < 190 U | < 180 U | < 190 U | < 200 U | < 200 U | < 210 U |
| | P-Nitroaniline (4-Nitroaniline) | 100-01-6 | NA | ug/kg | NT | < 390 U | < 380 U | < 360 U | < 380 U | < 400 U | < 380 U | < 210 U |
| | Pyrene | 129-00-0 | 500,000 | ug/kg | NT | < 200 U | **81 J** | **39 J** | < 190 U | < 200 U | < 200 U | < 400 U |

**Table 10 - Soil Analytical Results**
**Part 375 Restricted Commercial Use**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | EQPTBLNK-SB-24-092408 | TRIP BLANK | SS-01-091508 | EQBLNK SS-01-091508 | SS-02-091508 | SS-03-091508 | TP-01-091708 (2') | TP-02-091708 (4') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metals | Aluminum (fume or dust) | 7429-90-5 | NA | mg/kg | < 200 U | NT | **3,640** | < 200 U | **3,680** | **6,650** | **6,510 J1** | **6,180 J1** |
| | Antimony | 7440-36-0 | NA | mg/kg | < 20 U | NT | **21.2 UJ1** | < 20 U | **18.9 UJ1** | **19.4 UJ1** | **17.1 UJ1** | **17.9 UJ1** |
| | Arsenic | 7440-38-2 | 16 | mg/kg | < 10 U | NT | **3.6** | < 10 U | **4.1** | **4.1** | **13.2** | **5.9** |
| | Barium | 7440-39-3 | 400 | mg/kg | < 2 U | NT | **50** | < 2 U | **37.6** | **69** | **95.6** | **51.4** |
| | Beryllium | 7440-41-7 | 590 | mg/kg | < 2 U | NT | **0.31** | < 2 U | **0.36** | **0.33** | **0.56** | **0.38** |
| | Cadmium | 7440-43-9 | 9.3 | mg/kg | < 1 U | NT | **0.98** | < 1 U | **0.85** | **1.4** | **0.36** | < 0.24 U |
| | Calcium metal | 7440-70-2 | NA | mg/kg | < 500 U | NT | **101,000** | < 500 U | **99,000** | **13,500** | **18,300** | **22,600** |
| | Chromium | 7440-47-3 | 400 Hexavalent / 1,500 Trivalent | mg/kg | < 4 U | NT | **9.5 J1** | < 4 U | **14.1 J1** | **26.7 J1** | **8.7 J1** | **8.3 J1** |
| | Cobalt | 7440-48-4 | NA | mg/kg | < 4 U | NT | **3** | < 4 U | **3.6** | **4.7** | **5.2** | **4.1** |
| | Copper | 7440-50-8 | 270 | mg/kg | < 10 U | NT | **102** | < 10 U | **337** | **208** | **22.3** | **61.5** |
| | Iron | 7439-89-6 | NA | mg/kg | < 50 U | NT | **9,980** | < 50 U | **9,820** | **12,300** | **16,500** | **11,900** |
| | Lead | 7439-92-1 | 1,000 | mg/kg | < 5 U | NT | **100 J1** | < 5 U | **134 J1** | **152 J1** | **69.2 J1** | **102 J1** |
| | Magnesium | 7439-95-4 | NA | mg/kg | < 200 U | NT | **32,300** | < 200 U | **5,140** | **4,640** | **4,070 J1** | **10,600 J1** |
| | Manganese | 7439-96-5 | 10,000 | mg/kg | < 3 U | NT | **309** | < 3 U | **374** | **355** | **497** | **420** |
| | Mercury | 7439-97-6 | 2.8 | mg/kg | < 0.2 U | NT | **0.075** | < 0.2 U | **0.135** | **0.24** | **0.239 J1** | **0.137 J1** |
| | Nickel | 7440-02-0 | 310 | mg/kg | < 10 U | NT | **9.3** | < 10 U | **11.2** | **13.8** | **12.3 J1** | **9.2 J1** |
| | Potassium | 7440-09-7 | NA | mg/kg | < 500 U | NT | **973** | < 500 U | **845** | **976** | **1,080** | **832** |
| | Selenium | 7782-49-2 | 1,500 | mg/kg | < 1 U | NT | < 5.6 U | < 1 U | < 5.1 U | < 5.2 U | < 4.5 U | < 4.8 U |
| | Silver | 7440-22-4 | 1,500 | mg/kg | < 3 U | NT | **1.1** | < 3 U | **4.2** | **3.5** | < 0.57 U | < 0.6 U |
| | Sodium | 7440-23-5 | NA | mg/kg | < 1,000 U | NT | < 198 U | < 1,000 U | < 177 U | < 181 U | **814** | **443** |
| | Thallium | 7440-28-0 | NA | mg/kg | < 0.2 U | NT | < 8.5 U | < 0.2 U | < 7.6 U | < 7.8 U | < 6.8 U | < 7.2 U |
| | Vanadium (fume or dust) | 7440-62-2 | NA | mg/kg | < 5 U | NT | **11.4** | < 5 U | **10.7** | **15.2** | **17.7** | **17** |
| | Zinc | 7440-66-6 | 10,000 | mg/kg | < 10 U | NT | **221** | < 10 U | **484** | **446** | **163 J1** | **133 J1** |
| Pesticides | Methoxychlor [1,1,1-Trichloro-2,2-Bis (p-methoxphenyl)-ethane] | 72-43-5 | NA | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | 4,4'-DDD | 72-54-8 | 92,000 | ug/kg | NT | NT | **1.5 J** | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | 4,4'-DDE | 72-55-9 | 62,000 | ug/kg | NT | NT | **4.7** | < 0.048 U | < 21 U | **5.5** | NT | NT |
| | 4,4'-DDT | 50-29-3 | 47,000 | ug/kg | NT | NT | **28** | < 0.048 U | < 21 U | **15** | NT | NT |
| | Aldrin | 309-00-2 | 680 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | alpha-BHC | 319-84-6 | 3,400 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | alpha-Chlordane | 5103-71-9 | 24,000 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | beta-BHC | 319-85-7 | 3,000 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | Toxaphene [Camphechlor] | 8001-35-2 | NA | ug/kg | NT | NT | < 23 U | < 0.48 U | < 210 U | < 22 U | NT | NT |
| | delta-BHC | 319-86-8 | 500,000 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | Dieldrin | 60-57-1 | 1,400 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | **2.4** | NT | NT |
| | Endosulfan I | 959-98-8 | 200,000 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | **4.6** | NT | NT |
| | Endosulfan II | 33213-65-9 | 200,000 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | Endosulfan sulfate | 1031-07-8 | 200,000 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | Endrin | 72-20-8 | 89,000 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | **1.5 J** | NT | NT |
| | Endrin Aldehyde | 7421-93-4 | NA | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | Endrin Ketone | 53494-70-5 | NA | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | gamma-BHC (Lindane) | 58-89-9 | 9,200 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | gamma-Chlordane | 5103-74-2 | NA | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | **1.5 J** | NT | NT |
| | Heptachlor | 76-44-8 | 15,000 | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| | Heptachlor epoxide | 1024-57-3 | NA | ug/kg | NT | NT | < 2.3 U | < 0.048 U | < 21 U | < 2.2 U | NT | NT |
| PCBs | Aroclor-1016 (PCB-1016) | 12674-11-2 | 1,000** | ug/kg | < 0.49 U | NT | NT | NT | NT | NT | < 20 U | < 19 U |
| | Aroclor-1221 (PCB-1221) | 11104-28-2 | 1,000** | ug/kg | < 0.49 U | NT | NT | NT | NT | NT | < 20 U | < 19 U |
| | Aroclor-1232 (PCB-1232) | 11141-16-5 | 1,000** | ug/kg | < 0.49 U | NT | NT | NT | NT | NT | < 20 U | < 19 U |
| | Aroclor-1242 (PCB-1242) | 53469-21-9 | 1,000** | ug/kg | < 0.49 U | NT | NT | NT | NT | NT | < 20 U | < 19 U |
| | Aroclor-1248 (PCB-1248) | 12672-29-6 | 1,000** | ug/kg | < 0.49 U | NT | NT | NT | NT | NT | < 20 U | < 19 U |
| | Aroclor-1254 (PCB-1254) | 11097-69-1 | 1,000** | ug/kg | < 0.49 U | NT | NT | NT | NT | NT | < 20 U | < 19 U |
| | Aroclor-1260 (PCB-1260) | 11096-82-5 | 1,000** | ug/kg | < 0.49 U | NT | NT | NT | NT | NT | < 20 U | < 19 U |

**Table 10 - Soil Analytical Results**
**Part 375 Restricted Commercial Use**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | EQPTBLNK-SB-24-092408 | TRIP BLANK | SS-01-091508 | EQBLNK SS-01-091508 | SS-02-091508 | SS-03-091508 | TP-01-091708 (2') | TP-02-091708 (4') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organic Compounds | 1,1,1-Trichloroethane | 71-55-6 | 500,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,1,2,2-Tetrachloroethane | 79-34-5 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,1,2-Trichloroethane | 79-00-5 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,1-Dichloroethane | 75-34-3 | 240,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,1-Dichloroethylene (1,1-Dichloroethene) | 75-35-4 | 500,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,2-Dibromo-3-Chloropropane (DBCP) | 96-12-8 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,2-Dibromoethane (Ethylene Dibromide) | 106-93-4 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,2-Dichlorobenzene | 95-50-1 | 500,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,2-Dichloroethane | 107-06-2 | 30,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,2-Dichloropropane | 78-87-5 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 1,4-Dichlorobenzene | 106-46-7 | 130,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | 2-Butanone (Methyl Ethyl Ketone) | 78-93-3 | 500,000 | ug/kg | < 5 U | < 5 U | NT | NT | NT | NT | < 27 U | < 28 U |
| | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) | 108-10-1 | NA | ug/kg | < 5 U | < 5 U | NT | NT | NT | NT | < 27 U | < 28 U |
| | Acetone | 67-64-1 | 500,000 | ug/kg | **6** | < 5 U | NT | NT | NT | NT | 20 U1 | 22 U1 |
| | Benzene | 71-43-2 | 44,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Bromodichloromethane | 75-27-4 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Bromomethane | 74-83-9 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Carbon disulfide | 75-15-0 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Carbon Tetrachloride | 56-23-5 | 22,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | CFC-11 (Freon 11, Trichlorofluoromethane) | 75-69-4 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | CFC-12 (Freon 12, Dichlorodifluoromethane) | 75-71-8 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Chlorinated Fluorocarbon (Freon 113, 1,1,2-Trichloro-1,2,2-trifluoroethane) | 76-13-1 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Chlorobenzene | 108-90-7 | 500,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Chlorodibromomethane (Dibromochloromethane) | 124-48-1 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Chloroethane | 75-00-3 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Chloroform | 67-66-3 | 350,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Chloromethane | 74-87-3 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | cis-1,2-Dichloroethene | 156-59-2 | 500,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | cis-1,3-Dichloropropene | 10061-01-5 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Cyclohexane | 110-82-7 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Dichloromethane (Methylene chloride) | 75-09-2 | 500,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | 5 U1 |
| | Ethylbenzene | 100-41-4 | 390,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Isopropylbenzene | 98-82-8 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 280,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Methyl acetate | 79-20-9 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Methyl n-butyl ketone (2-Hexanone) | 591-78-6 | NA | ug/kg | < 5 U | < 5 U | NT | NT | NT | NT | < 27 U | < 28 U |
| | Methylbenzene (Toluene) | 108-88-3 | 500,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Methylcyclohexane | 108-87-2 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Methyl Tert Butyl Ether (MTBE) | 1634-04-4 | 500,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Styrene (Monomer) | 100-42-5 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Tetrachloroethene | 127-18-4 | 150,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Total Xylenes | 1330-20-7 | 500,000 | ug/kg | < 3 U | < 3 U | NT | NT | NT | NT | < 16 U | < 16 U |
| | trans-1,2-Dichloroethene | 156-60-5 | 500,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | trans-1,3-Dichloropropene | 10061-02-6 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Tribromomethane (Bromoform) | 75-25-2 | NA | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Trichloroethylene (Trichloroethene) | 79-01-6 | 200,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 5 U | < 6 U |
| | Vinyl chloride | 75-01-4 | 13,000 | ug/kg | < 1 U | < 1 U | NT | NT | NT | NT | < 11 U | < 11 U |
| Semi-Volatile Organic Compounds | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 10 U | NT | < 9,400 U | < 10 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | 1,2-Benzphenanthracene (Chrysene) | 218-01-9 | 56,000 | ug/kg | < 10 U | NT | 2,000 U1 | < 5 U | 1,600 U1 | 6,300 U1 | **160 J** | **530 J** |
| | 1,2-dicholorobenzene | 95-50-1 | 500,000 | ug/kg | < 20 U | NT | < 9,400 U | < 10 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | 1,4-dichlorobenzene | 106-46-7 | 130,000 | ug/kg | < 5 U | NT | < 9,400 U | < 10 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | 2,2'-oxybis(1-Chloropropane) [bis(2-chloro-1-methyletheyl) ether] | 108-60-1 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 2,4,5-Trichlorophenol | 95-95-4 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 2,4,6-Trichlorophenol | 88-06-2 | NA | ug/kg | < 10 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 2,4-Dichlorophenol | 120-83-2 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |

**Table 10 - Soil Analytical Results**
**Part 375 Restricted Commercial Use**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | EQPTBLNK-SB-24-092408 | TRIP BLANK | SS-01-091508 | EQBLNK SS-01-091508 | SS-02-091508 | SS-03-091508 | TP-01-091708 (2') | TP-02-091708 (4') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | 2,4-Dimethylphenol | 105-67-9 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 2,4-Dinitrophenol | 51-28-5 | NA | ug/kg | < 5 U | NT | **9,400 UJ1** | < 10 U | **8,100 UJ1** | **8,600 UJ1** | < 1,900 U | < 7,500 U |
| | 2,4-Dinitrotoluene | 121-14-2 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | **980 UJ1** | **3,800 UJ1** |
| | 2,6-Dinitrotoluene | 606-20-2 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 2-Chloronaphthalene | 91-58-7 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 2-Chlorophenol | 95-57-8 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 2-Methylnaphthalene | 91-57-6 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 2-Methylphenol | 95-48-7 | 500,000 | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 2-Nitroaniline | 88-74-4 | NA | ug/kg | < 10 U | NT | < 9,400 U | < 10 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | 2-Nitrophenol | 88-75-5 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 3,3'-Dichlorobenzidine | 91-94-1 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 3,5,5-Trimethyl-2-cyclohexene-1-one (Isophorone) | 78-59-1 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 3-Nitroaniline | 99-09-2 | NA | ug/kg | < 5 U | NT | < 9,400 U | < 10 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | 4,6-Dinitro-2-methylphenol | 534-52-1 | NA | ug/kg | < 5 U | NT | < 9,400 U | < 10 U | < 8,100 U | < 8,600 U | **1,900 UJ1** | **7,500 UJ1** |
| | 4-Bromophenyl phenyl ether | 101-55-3 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 4-Chloro-3-methylphenol | 59-50-7 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 4-Chlorophenyl phenyl ether | 7005-72-3 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 4-Methylphenol | 106-44-5 | 500,000 | ug/kg | < 5 U | NT | < 4,800 U | 2 J | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | 4-Nitrophenol | 100-02-7 | NA | ug/kg | < 5 U | NT | **9,400 UJ1** | < 10 U | **8,100 UJ1** | **8,600 UJ1** | **1,900 UJ1** | **7,500 UJ1** |
| | Acenaphthene | 83-32-9 | 500,000 | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | **430 J** | < 980 U | < 3,800 U |
| | Acenaphthylene | 208-96-8 | 500,000 | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Anthracene | 120-12-7 | 500,000 | ug/kg | < 5 U | NT | **240 J** | < 5 U | **940 J** | **850 J** | < 980 U | **220 J** |
| | Benzo(a)anthracene | 56-55-3 | 5,600 | ug/kg | < 10 U | NT | **1,400 J** | < 5 U | **990 J** | **4,900** | **260 J** | **780 J** |
| | Benzo(a)pyrene | 50-32-8 | 1,000 | ug/kg | < 10 U | NT | **1,800 J** | < 5 U | **1,300 J** | **5,800** | **260 J** | **630 J** |
| | Benzo(b)fluoranthene | 205-99-2 | 5,600 | ug/kg | < 5 U | NT | **2,600 J** | < 5 U | **1,700 J** | **8,400** | **310 J** | **740 J** |
| | Benzo(ghi)perylene | 191-24-2 | 500,000 | ug/kg | < 10 U | NT | **780 J** | < 5 U | **500 J** | **2,000 J** | **130 J** | **320 J** |
| | Benzo(k)fluoranthene | 207-08-9 | 56,000 | ug/kg | < 5 U | NT | **880 J** | < 5 U | **900 J** | **3,100 J** | **130 J** | **190 J** |
| | Benzyl alcohol | 100-51-6 | NA | ug/kg | < 5 U | NT | < 9,400 U | < 19 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | Benzyl butyl phthalate (Butyl benzyl phthalate) | 85-68-7 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Bis(2-chloroethoxy) methane | 111-91-1 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Bis(2-chloroethyl) ether | 111-44-4 | NA | ug/kg | < 10 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Bis(2-ethylhexyl) phthalate | 117-81-7 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Dibenzo(a,h)anthracene | 53-70-3 | 560 | ug/kg | < 5 U | NT | **260 J** | < 5 U | < 4,200 U | **180 J** | **46 J** | < 3,800 U |
| | Dibenzofuran | 132-64-9 | 350,000 | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Diethyl phthalate | 84-66-2 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Dimethyl phthalate | 131-11-3 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Di-n-butyl phthalate | 84-74-2 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Di-n-octyl phthalate | 117-84-0 | NA | ug/kg | **0.4 BJ** | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Fluoranthene | 206-44-0 | 500,000 | ug/kg | < 5 U | NT | **4,400 J** | < 5 U | **2,700 J** | **17,000** | **360 J** | **1,500 J** |
| | Fluorene | 86-73-7 | 500,000 | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | **670 J** | < 980 U | < 3,800 U |
| | Hexachloro-1,3-Butadiene (Hexachlorobutadiene) | 87-68-3 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Hexachlorobenzene | 118-74-1 | 6,000 | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Hexachlorocyclopentadiene | 77-47-4 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Hexachloroethane | 67-72-1 | NA | ug/kg | < 10 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Indeno(1,2,3-cd)pyrene | 193-39-5 | 5,600 | ug/kg | < 5 U | NT | **760 J** | < 5 U | **520 J** | **2,000 J** | **120 J** | **290 J** |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 280,000 | ug/kg | < 10 U | NT | < 9,400 U | < 10 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | Methanamine, N-methyl-n-nitroso (N-Nitrosodimethylamine) | 62-75-9 | NA | ug/kg | < 5 U | NT | < 9,400 U | < 10 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | Naphthalene | 91-20-3 | 500,000 | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Nitrobenzene | 98-95-3 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | N-Nitrosodi-n-propylamine (N-Nitroso-Di-n-propylamine) | 621-64-7 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | N-Nitrosodiphenylamine | 86-30-6 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | P-Chloroaniline (4-Chloraniline) | 106-47-8 | NA | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | Pentachlorophenol | 87-86-5 | 6,700 | ug/kg | < 10 U | NT | < 9,400 U | < 10 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | Phenanthrene | 85-01-8 | 500,000 | ug/kg | < 5 U | NT | **1,500 J** | < 5 U | **960 J** | **7,500** | **120 BJ** | **1,000 BJ** |
| | Phenol | 108-95-2 | 500,000 | ug/kg | < 5 U | NT | < 4,800 U | < 5 U | < 4,200 U | < 4,400 U | < 980 U | < 3,800 U |
| | P-Nitroaniline (4-Nitroaniline) | 100-01-6 | NA | ug/kg | < 5 U | NT | < 9,400 U | < 10 U | < 8,100 U | < 8,600 U | < 1,900 U | < 7,500 U |
| | Pyrene | 129-00-0 | 500,000 | ug/kg | < 10 U | NT | **2,300 J** | < 5 U | **1,400 J** | **8,300** | **260 J** | **1,200 J** |

**Table 10 - Soil Analytical Results**
**Part 375 Restricted Commercial Use**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | TP-03-091708 (4.5') | EQPBLNK TP-03-091708 | TP-04-091708 (5') | TP-6-091708 (6.5') | TP-6-091708 Field Dup (6.5') |
|---|---|---|---|---|---|---|---|---|---|
| Metals | Aluminum (fume or dust) | 7429-90-5 | NA | mg/kg | **5,250 J1** | < 200 U | **3,110 J1** | **6,130 J1** | **5,340 J1** |
| | Antimony | 7440-36-0 | NA | mg/kg | **17.1 UJ1** | < 20 U | **19 UJ1** | **17.7 UJ1** | **18.2 UJ1** |
| | Arsenic | 7440-38-2 | 16 | mg/kg | **4.1** | < 10 U | **5.8** | **5.8** | **6.6** |
| | Barium | 7440-39-3 | 400 | mg/kg | **37.8** | < 2 U | **22.9** | **33** | **36.5** |
| | Beryllium | 7440-41-7 | 590 | mg/kg | **0.35** | < 2 U | **0.35** | **0.42** | **0.42** |
| | Cadmium | 7440-43-9 | 9.3 | mg/kg | < 0.23 U | < 1 U | < 0.25 U | **3.3** | < 0.24 U |
| | Calcium metal | 7440-70-2 | NA | mg/kg | **76,200** | < 500 U | **169,000** | **91,300 J1** | **96,300 J1** |
| | Chromium | 7440-47-3 | 400 Hexavalent / 1,500 Trivalent | mg/kg | **7.3 J1** | < 4 U | **4.8 J1** | **9.6** | **6** |
| | Cobalt | 7440-48-4 | NA | mg/kg | **3.9** | < 4 U | **3.6** | **4.4** | **4.7** |
| | Copper | 7440-50-8 | 270 | mg/kg | **26.1** | < 10 U | **17.9** | **3,660 N** | **1,020 J1** |
| | Iron | 7439-89-6 | NA | mg/kg | **11,200** | < 50 U | **9,060** | **10,300 J1** | **11,400 J1** |
| | Lead | 7439-92-1 | 1,000 | mg/kg | **34.3 J1** | < 5 U | **12.4 J1** | **149** | **54.5** |
| | Magnesium | 7439-95-4 | NA | mg/kg | **10,700 J1** | < 200 U | **18,300 J1** | **13,700** | **13,200** |
| | Manganese | 7439-96-5 | 10,000 | mg/kg | **251** | < 3 U | **391** | **415 J1** | **399 J1** |
| | Mercury | 7439-97-6 | 2.8 | mg/kg | **0.065 J1** | < 0.2 U | < 0.024 NU | **0.024 UJ1** | **0.024 UJ1** |
| | Nickel | 7440-02-0 | 310 | mg/kg | **8.7 J1** | < 10 U | **9.8 J1** | **36.5** | **16** |
| | Potassium | 7440-09-7 | NA | mg/kg | **1,010** | < 500 U | **1,590** | **1,540 E** | **1,620 E** |
| | Selenium | 7782-49-2 | 1,500 | mg/kg | < 4.6 U | < 1 U | < 5.1 U | < 4.7 U | < 4.9 U |
| | Silver | 7440-22-4 | 1,500 | mg/kg | < 0.57 U | < 3 U | < 0.63 U | **0.88** | < 0.61 U |
| | Sodium | 7440-23-5 | NA | mg/kg | **188** | < 1,000 U | < 178 U | **402** | **231** |
| | Thallium | 7440-28-0 | NA | mg/kg | < 6.8 U | < 0.2 U | < 7.6 U | < 7.1 U | < 7.3 U |
| | Vanadium (fume or dust) | 7440-62-2 | NA | mg/kg | **11.2** | < 5 U | **4.9** | **11** | **8** |
| | Zinc | 7440-66-6 | 10,000 | mg/kg | **67 J1** | < 10 U | **13.6 J1** | **331 J1** | **145 J1** |
| Pesticides | Methoxychlor [1,1,1-Trichloro-2,2-Bis (p-methoxphenyl)-ethane] | 72-43-5 | NA | ug/kg | NT | NT | NT | NT | NT |
| | 4,4'-DDD | 72-54-8 | 92,000 | ug/kg | NT | NT | NT | NT | NT |
| | 4,4'-DDE | 72-55-9 | 62,000 | ug/kg | NT | NT | NT | NT | NT |
| | 4,4'-DDT | 50-29-3 | 47,000 | ug/kg | NT | NT | NT | NT | NT |
| | Aldrin | 309-00-2 | 680 | ug/kg | NT | NT | NT | NT | NT |
| | alpha-BHC | 319-84-6 | 3,400 | ug/kg | NT | NT | NT | NT | NT |
| | alpha-Chlordane | 5103-71-9 | 24,000 | ug/kg | NT | NT | NT | NT | NT |
| | beta-BHC | 319-85-7 | 3,000 | ug/kg | NT | NT | NT | NT | NT |
| | Toxaphene [Camphechlor] | 8001-35-2 | NA | ug/kg | NT | NT | NT | NT | NT |
| | delta-BHC | 319-86-8 | 500,000 | ug/kg | NT | NT | NT | NT | NT |
| | Dieldrin | 60-57-1 | 1,400 | ug/kg | NT | NT | NT | NT | NT |
| | Endosulfan I | 959-98-8 | 200,000 | ug/kg | NT | NT | NT | NT | NT |
| | Endosulfan II | 33213-65-9 | 200,000 | ug/kg | NT | NT | NT | NT | NT |
| | Endosulfan sulfate | 1031-07-8 | 200,000 | ug/kg | NT | NT | NT | NT | NT |
| | Endrin | 72-20-8 | 89,000 | ug/kg | NT | NT | NT | NT | NT |
| | Endrin Aldehyde | 7421-93-4 | NA | ug/kg | NT | NT | NT | NT | NT |
| | Endrin Ketone | 53494-70-5 | NA | ug/kg | NT | NT | NT | NT | NT |
| | gamma-BHC (Lindane) | 58-89-9 | 9,200 | ug/kg | NT | NT | NT | NT | NT |
| | gamma-Chlordane | 5103-74-2 | NA | ug/kg | NT | NT | NT | NT | NT |
| | Heptachlor | 76-44-8 | 15,000 | ug/kg | NT | NT | NT | NT | NT |
| | Heptachlor epoxide | 1024-57-3 | NA | ug/kg | NT | NT | NT | NT | NT |
| PCBs | Aroclor-1016 (PCB-1016) | 12674-11-2 | 1,000** | ug/kg | < 17 U | < 0.5 U | < 19 U | < 19 U | < 19 U |
| | Aroclor-1221 (PCB-1221) | 11104-28-2 | 1,000** | ug/kg | < 17 U | < 0.5 U | < 19 U | < 19 U | < 19 U |
| | Aroclor-1232 (PCB-1232) | 11141-16-5 | 1,000** | ug/kg | < 17 U | < 0.5 U | < 19 U | < 19 U | < 19 U |
| | Aroclor-1242 (PCB-1242) | 53469-21-9 | 1,000** | ug/kg | < 17 U | < 0.5 U | < 19 U | < 19 U | < 19 U |
| | Aroclor-1248 (PCB-1248) | 12672-29-6 | 1,000** | ug/kg | < 17 U | < 0.5 U | < 19 U | < 19 U | < 19 U |
| | Aroclor-1254 (PCB-1254) | 11097-69-1 | 1,000** | ug/kg | < 17 U | < 0.5 U | < 19 U | **200** | **130** |
| | Aroclor-1260 (PCB-1260) | 11096-82-5 | 1,000** | ug/kg | < 17 U | < 0.5 U | < 19 U | < 19 U | < 19 U |

**Table 10 - Soil Analytical Results**
**Part 375 Restricted Commercial Use**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | TP-03-091708 (4.5') | EQPBLNK TP-03-091708 | TP-04-091708 (5') | TP-6-091708 (6.5') | TP-6-091708 Field Dup (6.5') |
|---|---|---|---|---|---|---|---|---|---|
| Volatile Organic Compounds | 1,1,1-Trichloroethane | 71-55-6 | 500,000 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,1,2,2-Tetrachloroethane | 79-34-5 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,1,2-Trichloroethane | 79-00-5 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,1-Dichloroethane | 75-34-3 | 240,000 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,1-Dichloroethylene (1,1-Dichloroethene) | 75-35-4 | 500,000 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,2-Dibromo-3-Chloropropane (DBCP) | 96-12-8 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,2-Dibromoethane (Ethylene Dibromide) | 106-93-4 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,2-Dichlorobenzene | 95-50-1 | 500,000 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,2-Dichloroethane | 107-06-2 | 30,000 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,2-Dichloropropane | 78-87-5 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 1,4-Dichlorobenzene | 106-46-7 | 130,000 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | 2-Butanone (Methyl Ethyl Ketone) | 78-93-3 | 500,000 | ug/kg | < 30 U | < 5 U | < 26 U | < 30 U | < 28 U |
| | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) | 108-10-1 | NA | ug/kg | < 30 U | < 5 U | < 26 U | < 30 U | < 28 U |
| | Acetone | 67-64-1 | 500,000 | ug/kg | 30 U1 | **10 B** | 17 U1 | **11 J** | **7 J** |
| | Benzene | 71-43-2 | 44,000 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Bromodichloromethane | 75-27-4 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Bromomethane | 74-83-9 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Carbon disulfide | 75-15-0 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Carbon Tetrachloride | 56-23-5 | 22,000 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | CFC-11 (Freon 11, Trichlorofluoromethane) | 75-69-4 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | CFC-12 (Freon 12, Dichlorodifluoromethane) | 75-71-8 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Chlorinated Fluorocarbon (Freon 113, 1,1,2-Trichloro-1,2,2-trifluoroethane) | 76-13-1 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Chlorobenzene | 108-90-7 | 500,000 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Chlorodibromomethane (Dibromochloromethane) | 124-48-1 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Chloroethane | 75-00-3 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Chloroform | 67-66-3 | 350,000 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Chloromethane | 74-87-3 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | cis-1,2-Dichloroethene | 156-59-2 | 500,000 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | cis-1,3-Dichloropropene | 10061-01-5 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Cyclohexane | 110-82-7 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Dichloromethane (Methylene chloride) | 75-09-2 | 500,000 | ug/kg | 7 U1 | **4** | 4 U1 | **15** | **11** |
| | Ethylbenzene | 100-41-4 | 390,000 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Isopropylbenzene | 98-82-8 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 280,000 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Methyl acetate | 79-20-9 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Methyl n-butyl ketone (2-Hexanone) | 591-78-6 | NA | ug/kg | < 30 U | < 5 U | < 26 U | < 30 U | < 28 U |
| | Methylbenzene (Toluene) | 108-88-3 | 500,000 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Methylcyclohexane | 108-87-2 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Methyl Tert Butyl Ether (MTBE) | 1634-04-4 | 500,000 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Styrene (Monomer) | 100-42-5 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Tetrachloroethene | 127-18-4 | 150,000 | ug/kg | < 6 U | < 1 U | < 5 U | **1 J** | < 6 U |
| | Total Xylenes | 1330-20-7 | 500,000 | ug/kg | < 18 U | < 3 U | < 16 U | < 18 U | < 16 U |
| | trans-1,2-Dichloroethene | 156-60-5 | 500,000 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | trans-1,3-Dichloropropene | 10061-02-6 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Tribromomethane (Bromoform) | 75-25-2 | NA | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | < 6 U |
| | Trichloroethylene (Trichloroethene) | 79-01-6 | 200,000 | ug/kg | < 6 U | < 1 U | < 5 U | < 6 U | **7** |
| | Vinyl chloride | 75-01-4 | 13,000 | ug/kg | < 12 U | < 1 U | < 10 U | < 12 U | < 11 U |
| Semi-Volatile Organic Compounds | 1,2,4-Trichlorobenzene | 120-82-1 | NA | ug/kg | < 7,000 U | < 10 U | < 380 U | < 1,900 U | < 1,900 U |
| | 1,2-Benzphenanthracene (Chrysene) | 218-01-9 | 56,000 | ug/kg | **1,800 J** | < 5 U | **15 J** | < 960 U | < 1,000 U |
| | 1,2-dicholorobenzene | 95-50-1 | 500,000 | ug/kg | < 7,000 U | < 10 U | < 380 U | < 1,900 U | < 1,900 U |
| | 1,4-dichlorobenzene | 106-46-7 | 130,000 | ug/kg | < 7,000 U | < 10 U | < 380 U | < 1,900 U | < 1,900 U |
| | 2,2'-oxybis(1-Chloropropane) [bis(2-chloro-1-methyletheyl) ether] | 108-60-1 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 2,4,5-Trichlorophenol | 95-95-4 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 2,4,6-Trichlorophenol | 88-06-2 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 2,4-Dichlorophenol | 120-83-2 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |

**Table 10 - Soil Analytical Results**
**Part 375 Restricted Commercial Use**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Part 375 Unrestricted Use SCO | Action Level Unit | TP-03-091708 (4.5') | EQPBLNK TP-03-091708 | TP-04-091708 (5') | TP-6-091708 (6.5') | TP-6-091708 Field Dup (6.5') |
|---|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | 2,4-Dimethylphenol | 105-67-9 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 2,4-Dinitrophenol | 51-28-5 | NA | ug/kg | **7,000 UJ1** | < 10 U | < 380 U | < 1,900 U | < 1,900 U |
| | 2,4-Dinitrotoluene | 121-14-2 | NA | ug/kg | **3,600 UJ1** | < 5 U | **200 UJ1** | < 960 U | < 1,000 U |
| | 2,6-Dinitrotoluene | 606-20-2 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 2-Chloronaphthalene | 91-58-7 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 2-Chlorophenol | 95-57-8 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 2-Methylnaphthalene | 91-57-6 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 2-Methylphenol | 95-48-7 | 500,000 | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 2-Nitroaniline | 88-74-4 | NA | ug/kg | < 7,000 U | < 10 U | < 380 U | < 1,900 U | < 1900 U |
| | 2-Nitrophenol | 88-75-5 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 3,3'-Dichlorobenzidine | 91-94-1 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 3,5,5-Trimethyl-2-cyclohexene-1-one (Isophorone) | 78-59-1 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 3-Nitroaniline | 99-09-2 | NA | ug/kg | < 7,000 U | < 10 U | < 380 U | < 1,900 U | < 1,900 U |
| | 4,6-Dinitro-2-methylphenol | 534-52-1 | NA | ug/kg | **7,000 UJ1** | < 10 U | **380 UJ1** | < 1,900 U | < 1,900 U |
| | 4-Bromophenyl phenyl ether | 101-55-3 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 4-Chloro-3-methylphenol | 59-50-7 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 4-Chlorophenyl phenyl ether | 7005-72-3 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 4-Methylphenol | 106-44-5 | 500,000 | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | 4-Nitrophenol | 100-02-7 | NA | ug/kg | **7,000 UJ1** | < 10 U | < 380 U | < 1,900 U | < 1,900 U |
| | Acenaphthene | 83-32-9 | 500,000 | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Acenaphthylene | 208-96-8 | 500,000 | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Anthracene | 120-12-7 | 500,000 | ug/kg | **430 J** | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Benzo(a)anthracene | 56-55-3 | 5,600 | ug/kg | **2,000 J** | < 5 U | **16 J** | **180 J** | < 1,000 U |
| | Benzo(a)pyrene | 50-32-8 | 1,000 | ug/kg | **2,000 J** | < 5 U | **40 J** | **64 J** | **42 J** |
| | Benzo(b)fluoranthene | 205-99-2 | 5,600 | ug/kg | **2,100 J** | < 5 U | **31 J** | **94 J** | < 1,000 U |
| | Benzo(ghi)perylene | 191-24-2 | 500,000 | ug/kg | **960 J** | < 5 U | **62 J** | **55 J** | < 1,000 U |
| | Benzo(k)fluoranthene | 207-08-9 | 56,000 | ug/kg | **770 J** | < 5 U | **39 J** | **72 J** | < 1,000 U |
| | Benzyl alcohol | 100-51-6 | NA | ug/kg | < 7,000 U | < 19 U | < 380 U | < 1,900 U | < 1,900 U |
| | Benzyl butyl phthalate (Butyl benzyl phthalate) | 85-68-7 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Bis(2-chloroethoxy) methane | 111-91-1 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Bis(2-chloroethyl) ether | 111-44-4 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Bis(2-ethylhexyl) phthalate | 117-81-7 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Dibenzo(a,h)anthracene | 53-70-3 | 560 | ug/kg | **290 J** | < 5 U | **50 J** | < 960 U | < 1,000 U |
| | Dibenzofuran | 132-64-9 | 350,000 | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Diethyl phthalate | 84-66-2 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Dimethyl phthalate | 131-11-3 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Di-n-butyl phthalate | 84-74-2 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Di-n-octyl phthalate | 117-84-0 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Fluoranthene | 206-44-0 | 500,000 | ug/kg | **3,900** | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Fluorene | 86-73-7 | 500,000 | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Hexachloro-1,3-Butadiene (Hexachlorobutadiene) | 87-68-3 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Hexachlorobenzene | 118-74-1 | 6,000 | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Hexachlorocyclopentadiene | 77-47-4 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Hexachloroethane | 67-72-1 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Indeno(1,2,3-cd)pyrene | 193-39-5 | 5,600 | ug/kg | **870 J** | < 5 U | **62 J** | < 960 U | < 1000 U |
| | M-Dichlorobenzene (1,3-Dichlorobenzene) | 541-73-1 | 280,000 | ug/kg | < 7,000 U | < 10 U | < 380 U | < 1,900 U | < 1,900 U |
| | Methanamine, N-methyl-n-nitroso (N-Nitrosodimethylamine) | 62-75-9 | NA | ug/kg | < 7,000 U | < 10 U | < 380 U | < 1,900 U | < 1,900 U |
| | Naphthalene | 91-20-3 | 500,000 | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Nitrobenzene | 98-95-3 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | N-Nitrosodi-n-propylamine (N-Nitroso-Di-n-propylamine) | 621-64-7 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | N-Nitrosodiphenylamine | 86-30-6 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | P-Chloroaniline (4-Chloraniline) | 106-47-8 | NA | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Pentachlorophenol | 87-86-5 | 6,700 | ug/kg | < 7,000 U | < 10 U | < 380 U | < 1,900 U | < 1,900 U |
| | Phenanthrene | 85-01-8 | 500,000 | ug/kg | **2,000 BJ** | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | Phenol | 108-95-2 | 500,000 | ug/kg | < 3,600 U | < 5 U | < 200 U | < 960 U | < 1,000 U |
| | P-Nitroaniline (4-Nitroaniline) | 100-01-6 | NA | ug/kg | < 7,000 U | < 10 U | < 380 U | < 1,900 U | < 1,900 U |
| | Pyrene | 129-00-0 | 500,000 | ug/kg | **3,200 J** | < 5 U | < 200 U | **220 J** | 69 J |

**Table 10 Endnotes**
**Summary of Soil Sample Analytical Results Compared to NYSDEC Part 375 Restricted Commercial Use SCOs**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

Notes:

- Part 375 Restricted Commercial Use SCOs: Restricted Commercial Use Soil Cleanup Objectives (SCOs) referenced in the NYSDEC *General Remedial Program Requirements*, presented in the New York State Codes, Rules and Regulations; Title 6, Chapter IV, Subpart 375 (Part 375), Table 375-6.8(b).
- mg/kg: milligrams per kilogram (parts per million)
- µg/kg: micrograms per kilogram (parts per billion)
- Bold faced type indicates a detection of the compound
- Shaded cells indicate an exceedance of Part 375 Restricted Commercial Use Soil Cleanup Objectives
- NT Not tested
- NA No Soil Cleanup Objective (SCO) available
- * Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995
- ** Applies to the sum of Polychlorinated biphenyls.

Qualifiers

| | |
|---|---|
| no qualifier | The compound was positively identified at the associated numerical value which is the concentration of the compound in the sample. |
| B | Test America Qualifier - Analyte found in blank and sample. |
| B (inorganic) | Test America Qualifier – Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit. |
| D | Test America Qualifier - This flag identifies all compounds identified in an analysis at the secondary dilution factor. |
| E | Test America Qualifier – Indicates a value estimated or not reported due to the presence of interferences. |
| J | Test America Qualifier – The value was designated as estimated as a result of the data validation criteria. Also used to indicate tentatively identified compounds (TICs) or when an organic compound is present, but the concentration is less than the Contract Required Quantitation Limit (CRQL). The value is usable as an estimated result. Estimated value; results may be biased. |
| N | Test America Qualifier - Indicates presumptive evidence of a compound. |

| | |
|---|---|
| U | Test America Qualifier – Compound analyzed for but not detected above the reported detection limit. The associated numerical value is the detection limit. The value is usable as a non-detect at the detection limit. |
| J1 | Environmental Data Validation Qualifier – Validator assigned qualifier as J, O'Brien & Gere changed qualifier designation to J1 to differentiate from Test America qualifier. Data are to be used cautiously as they are estimated data with some quality control issues. |
| UJ1 | Environmental Data Validation Qualifier – Validator assigned qualifier as UJ, O'Brien & Gere changed qualifier designation to UJ1 to differentiate from Test America qualifier. Data are to be used cautiously as they are estimated data with some quality control issues. |
| U1 | Environmental Data Validation Qualifier – Validator assigned qualifier as U, O'Brien & Gere changed qualifier designation to U1 to differentiate from Test America qualifier. Data are useable as a non-detect as there are no quality control issues. |

**Table 11 - Summary of Ground Water Analytical Results**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Action Level | Action Level Unit | MW-1-093008 | Blind Duplicate-093008 | MW-1-011909 | MW-3-093008 | MW-3-011509 | DUP-011509 | MW-4-093008 | MW-4-011909 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metals | Aluminum (fume or dust) | 7429-90-5 | NA | ug/L | **59,700** | **21,700** | 200 U1 | **811** | **40 J** | **40 J** | **7,630** | **2,400** |
| | Antimony | 7440-36-0 | 3 | ug/L | < 20 U | < 20 U | < 20 U | < 20 U | < 20 U | < 20 U | < 20 U | < 20 U |
| | Arsenic | 7440-38-2 | 25 | ug/L | **73.4** | **25.7** | < 10 U | < 10 U | < 10 U | < 10 U | < 10 U | < 10 U |
| | Barium | 7440-39-3 | 1,000 | ug/L | **461 E** | **212 E** | **70** | **94.8 E** | **90** | **90** | **119 E** | **90** |
| | Beryllium | 7440-41-7 | 3 | ug/L | **3.5** | < 2 U | < 2 U | < 2 U | < 2 U | < 2 U | < 2 U | < 2 U |
| | Cadmium | 7440-43-9 | 5 | ug/L | **11.4** | **5.7** | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Calcium metal | 7440-70-2 | NA | ug/L | **1,150,000** | **445,000** | **135,000** | **85,100** | **70,900 J1** | **72,000 J1** | **236,000** | **179,000** |
| | Chromium | 7440-47-3 | 50 | ug/L | **126** | **49.7** | < 4 U | < 4 U | < 4 U | < 4 U | **7.5** | **2 J** |
| | Cobalt | 7440-48-4 | NA | ug/L | **45** | **17.2** | < 4 U | < 4 U | < 4 U | < 4 U | **4.3** | **2 J** |
| | Copper | 7440-50-8 | 200 | ug/L | **599** | **266** | **7 J** | < 10 U | < 10 U | < 10 U | **31.9** | **10.6** |
| | Iron | 7439-89-6 | 300 | ug/L | **85,900** | **31,300** | **700** | **783** | **90** | **80** | **11,600** | **2,300** |
| | Lead | 7439-92-1 | 25 | ug/L | **111** | **42.1** | < 5 U | < 5 U | < 5 U | < 5 U | **6.5** | < 5 U |
| | Magnesium | 7439-95-4 | 35,000 | ug/L | **192,000** | **96,900** | **40,900** | **35,600** | **31,800 J1** | **32,200 J1** | **70,500** | **56,900** |
| | Manganese | 7439-96-5 | 300 | ug/L | **3,190** | **1,120** | **60** | **27.1** | **10.3** | **10.3** | **201** | **90** |
| | Mercury | 7439-97-6 | 0.7 | ug/L | < 0.2 U | < 0.2 U | < 0.2 U | < 0.2 U | < 0.2 U | < 0.2 U | < 0.2 U | < 0.2 U |
| | Nickel | 7440-02-0 | 100 | ug/L | **129** | **53** | **3 J** | < 10 U | **3 J** | **3 J** | **11.2** | **5 J** |
| | Potassium | 7440-09-7 | NA | ug/L | **41,300** | **21,800** | **10,100** | **12,800** | **12,600** | **12,700** | **16,100** | **12,000** |
| | Selenium | 7782-49-2 | 10 | ug/L | < 1 U | < 1 U | < 0.02 U | < 1 U | < 1 U | < 1 U | < 1 U | < 0.02 U |
| | Silver | 7440-22-4 | 50 | ug/L | **3.4** | < 3 U | < 3 U | < 3 U | < 3 U | < 3 U | < 3 U | < 3 U |
| | Sodium | 7440-23-5 | 20,000 | ug/L | **96,000** | **100,000** | **98,800** | **359,000** | **390,000 J1** | **401,000 J1** | **201,000** | **166,000** |
| | Thallium | 7440-28-0 | 0.5 | ug/L | **0.43** | < 0.2 U | < 0.2 U | < 0.2 U | < 0.2 U | < 0.2 U | < 0.2 U | < 0.2 U |
| | Vanadium (fume or dust) | 7440-62-2 | NA | ug/L | **82.1** | **31** | < 5 U | < 5 U | < 5 U | < 5 U | **9** | **3 J** |
| | Zinc | 7440-66-6 | 2,000 | ug/L | **2,000** | **978** | **90** | **13.5** | **4** | **4** | **62.4** | **20** |
| Cyanide | Cyanide | 57-12-5 | 0.200 | mg/L | < 0.01 U | < 0.01 U | **0.01 UJ1** | < 0.01 U | < 0.01 U | < 0.01 U | < 0.01 U | **0.01 UJ1** |
| Pesticides | Methoxychlor [1,1,1-Trichloro-2,2-Bis (p-methoxphenyl)-ethane] | 72-43-5 | 35 | ug/L | < 0.047 U | **0.018 J** | NT | < 0.047 U | NT | NT | < 0.047 U | NT |
| | 4,4'-DDD | 72-54-8 | 0.3 | ug/L | **0.022 J** | **0.022 J** | NT | < 0.047 U | NT | NT | < 0.047 U | NT |
| | 4,4'-DDE | 72-55-9 | 0.2 | ug/L | < 0.047 U | **0.026 J** | NT | < 0.047 U | NT | NT | < 0.047 U | NT |
| | 4,4'-DDT | 50-29-3 | 0.2 | ug/L | < 0.047 U | < 0.047 U | NT | < 0.047 U | NT | NT | < 0.047 U | NT |
| | Aldrin | 309-00-2 | ND | ug/L | **0.026 J** | **0.026 J** | NT | < 0.047 U | NT | NT | < 0.047 U | NT |
| | alpha-BHC | 319-84-6 | 0.01 | ug/L | < 0.047 U | < 0.047 U | NT | < 0.047 U | NT | NT | < 0.047 U | NT |
| | alpha-Chlordane | 5103-71-9 | NA | ug/L | **0.031 J** | < 0.047 U | NT | **0.024 J** | NT | NT | < 0.047 U | NT |
| | beta-BHC | 319-85-7 | 0.04 | ug/L | < 0.047 U | < 0.047 U | NT | < 0.047 U | NT | NT | < 0.047 U | NT |
| | Toxaphene [Camphechlor] | 8001-35-2 | 0.06 | ug/L | < 0.47 U | < 0.47 U | NT | < 0.47 U | NT | NT | < 0.47 U | NT |
| | delta-BHC | 319-86-8 | 0.04 | ug/L | < 0.047 U | < 0.047 U | NT | < 0.047 U | NT | NT | < 0.047 U | NT |
| | Dieldrin | 60-57-1 | 0.004 | ug/L | < 0.047 U | < 0.047 U | NT | < 0.047 U | NT | NT | < 0.047 U | NT |
| | Endosulfan I | 959-98-8 | NA | ug/L | < 0.047 U | < 0.047 U | NT | < 0.047 U | NT | NT | < 0.047 U | NT |
| | Endosulfan II | 33213-65-9 | NA | ug/L | < 0.047 U | < 0.047 U | NT | < 0.047 U | NT | NT | < 0.047 U | NT |
| | Endosulfan sulfate | 1031-07-8 | NA | ug/L | < 0.047 U | **0.026 J** | NT | < 0.047 U | NT | NT | < 0.047 U | NT |
| | Endrin | 72-20-8 | ND | ug/L | < 0.047 U | < 0.047 U | NT | **0.021 J** | NT | NT | < 0.047 U | NT |
| | Endrin Aldehyde | 7421-93-4 | 5 | ug/L | **0.047 UJ1** | < 0.047 U | NT | **0.047 UJ1** | NT | NT | **0.047 UJ1** | NT |
| | Endrin Ketone | 53494-70-5 | 5 | ug/L | < 0.047 U | < 0.047 U | NT | < 0.047 U | NT | NT | < 0.047 U | NT |
| | gamma-BHC (Lindane) | 58-89-9 | 0.05 | ug/L | **0.032 J** | < 0.047 U | NT | < 0.047 U | NT | NT | < 0.047 U | NT |
| | gamma-Chlordane | 5103-74-2 | NA | ug/L | < 0.047 U | < 0.047 U | NT | < 0.047 U | NT | NT | < 0.047 U | NT |
| | Heptachlor | 76-44-8 | 0.04 | ug/L | **0.023 J** | **0.024 J** | NT | < 0.047 U | NT | NT | < 0.047 U | NT |
| | Heptachlor epoxide | 1024-57-3 | 0.03 | ug/L | 0.017 R1 | **0.018 J** | NT | **0.016 J** | NT | NT | < 0.047 U | NT |
| PCB's | Aroclor-1016 (PCB-1016) | 12674-11-2 | 0.09** | ug/L | < 0.47 U | < 0.47 U | < 0.472 U | < 0.47 U | < 0.588 U | < 0.495 U | < 0.47 U | < 0.472 U |
| | Aroclor-1221 (PCB-1221) | 11104-28-2 | 0.09** | ug/L | < 0.47 U | < 0.47 U | < 0.472 U | < 0.47 U | < 0.588 U | < 0.495 U | < 0.47 U | < 0.472 U |
| | Aroclor-1232 (PCB-1232) | 11141-16-5 | 0.09** | ug/L | < 0.47 U | < 0.47 U | < 0.472 U | < 0.47 U | < 0.588 U | < 0.495 U | < 0.47 U | < 0.472 U |
| | Aroclor-1242 (PCB-1242) | 53469-21-9 | 0.09** | ug/L | < 0.47 U | < 0.47 U | < 0.472 U | < 0.47 U | < 0.588 U | < 0.495 U | < 0.47 U | < 0.472 U |
| | Aroclor-1248 (PCB-1248) | 12672-29-6 | 0.09** | ug/L | < 0.47 U | < 0.47 U | < 0.472 U | < 0.47 U | < 0.588 U | < 0.495 U | < 0.47 U | < 0.472 U |
| | Aroclor-1254 (PCB-1254) | 11097-69-1 | 0.09** | ug/L | < 0.47 U | < 0.47 U | < 0.472 U | < 0.47 U | < 0.588 U | < 0.495 U | < 0.47 U | < 0.472 U |
| | Aroclor-1260 (PCB-1260) | 11096-82-5 | 0.09** | ug/L | < 0.47 U | < 0.47 U | < 0.472 U | < 0.47 U | < 0.588 U | < 0.495 U | < 0.47 U | < 0.472 U |

**Table 11 - Summary of Ground Water Analytical Results**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Action Level | Action Level Unit | MW-1-093008 | Blind Duplicate-093008 | MW-1-011909 | MW-3-093008 | MW-3-011509 | DUP-011509 | MW-4-093008 | MW-4-011909 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volitile Organic Compounds | 1,1,1-Trichloroethane | 71-55-6 | 5 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,1,2-Trichloroethane | 79-00-5 | 1 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,1-Dichloroethane | 75-34-3 | 5 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,1-Dichloroethylene (1,1-Dichloroethene) | 75-35-4 | 5 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2,4-Trichlorobenzene | 120-82-1 | 5 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2-Dibromo-3-Chloropropane (DBCP) | 96-12-8 | 0.04 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2-Dibromoethane (Ethylene Dibromide) | 106-93-4 | 0.0006 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2-Dichlorobenzene | 95-50-1 | 3 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | **1 UJ1** | < 1 U | < 1 U | **1 UJ1** | < 1 U |
| | 1,2-Dichloroethane | 107-06-2 | 0.6 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2-Dichloropropane | 78-87-5 | 1 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,4-Dichlorobenzene | 106-46-7 | 3 | ug/L | **1 UJ1** | < 1 U | < 1 U, P-HS | **1 UJ1** | < 1 U | < 1 U | **1 UJ1** | < 1 U |
| | 2-Butanone (Methyl Ethyl Ketone) | 78-93-3 | 50 | ug/L | **1 J** | **1 J** | < 5 U, P-HS | < 5 U | < 5 U | < 1 U | < 5 U | < 5 U |
| | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) | 108-10-1 | NA | ug/L | < 5 U | < 5 U | < 5 U, P-HS | < 5 U | < 5 U | < 1 U | < 5 U | < 5 U |
| | Acetone | 67-64-1 | 50 | ug/L | **6** | **8** | **5 UJ1** | < 5 U | < 5 U | < 1 U | **2 J** | < 5 U |
| | Benzene | 71-43-2 | 1 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | **290 D** | **170 D08** | **160 D08** | **1** | **0.72 J** |
| | Bromodichloromethane | 75-27-4 | 50 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Bromomethane | 74-83-9 | 5 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Carbon disulfide | 75-15-0 | 60 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | **1** | < 1 U | < 1 U | **0.5 J** | < 1 U |
| | Carbon Tetrachloride | 56-23-5 | 5 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | CFC-11 (Freon 11, Trichlorofluoromethane) | 75-69-4 | 5 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | CFC-12 (Freon 12, Dichlorodifluoromethane) | 75-71-8 | 5 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chlorinated Fluorocarbon (Freon 113, 1,1,2-Trichloro-1,2,2-trifluoroethane) | 76-13-1 | 5 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chlorobenzene | 108-90-7 | 5 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chlorodibromomethane (Dibromochloromethane) | 124-48-1 | 50 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chloroethane | 75-00-3 | 5 | ug/L | < 1 U | < 1 U | **1 UJ1** | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chloroform | 67-66-3 | 7 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chloromethane | 74-87-3 | 5 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | cis-1,2-Dichloroethene | 156-59-2 | 5 | ug/L | **15** | **15** | **27 P-HS** | **0.8 J** | **0.82 J** | **0.79 J** | **110 D** | **81** |
| | cis-1,3-Dichloropropene | 10061-01-5 | 0.4 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Cyclohexane | 110-82-7 | NA | ug/L | < 1 U | < 1 U | < 1 U, P-HS | **74** | **54** | **53** | < 1 U | < 1 U |
| | Dichloromethane (Methylene chloride) | 75-09-2 | 5 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Ethylbenzene | 100-41-4 | 5 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | **10** | **1.6** | **1.6** | < 1 U | < 1 U |
| | Isopropylbenzene | 98-82-8 | 5 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | **19** | **16** | **17** | < 1 U | < 1 U |
| | M-Dichlorobenzene (1.3-Dichlorobenzene) | 541-73-1 | 3 | ug/L | < 1 U | **1 UJ1** | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Methyl acetate | 79-20-9 | NA | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Methyl n-butyl ketone (2-Hexanone) | 591-78-6 | 50 | ug/L | < 5 U | < 5 U | < 5 U, P-HS | < 5 U | < 5 U | < 1 U | < 5 U | < 5 U |
| | Methylbenzene (Toluene) | 108-88-3 | 5 | ug/L | < 1 U | **0.4 J** | < 1 U, P-HS | **2** | **1.7** | < 1 U | < 1 U | < 1 U |
| | Methylcyclohexane | 108-87-2 | NA | ug/L | < 1 U | < 1 U | < 1 U, P-HS | **26** | **19** | **19** | < 1 U | < 1 U |
| | Methyl Tert Butyl Ether (MTBE) | 1634-04-4 | 10 | ug/L | **0.5 J** | < 1 U | < 1 U, P-HS | **260 D** | **190 D08** | **170 D08** | **2** | **1** |
| | Styrene (Monomer) | 100-42-5 | 5 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Tetrachloroethene | 127-18-4 | 5 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Total Xylenes | 1330-20-7 | 5 | ug/L | < 3 U | < 3 U | < 3 U, P-HS | **7** | **3 J** | **3 J** | < 3 U | < 3 U |
| | trans-1,2-Dichloroethene | 156-60-5 | 5 | ug/L | **0.7 J** | **0.6 J** | **0.69 J, P-HS** | < 1 U | < 1 U | < 1 U | **2** | **0.65 J** |
| | trans-1,3-Dichloropropene | 10061-02-6 | 0.4 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Tribromomethane (Bromoform) | 75-25-2 | NA | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Trichloroethylene (Trichloroethene) | 79-01-6 | 5 | ug/L | **34** | **35** | **30 P-HS** | **2** | **2** | **1.9** | **14** | **14** |
| | Vinyl chloride | 75-01-4 | 2 | ug/L | < 1 U | < 1 U | < 1 U, P-HS | < 1 U | < 1 U | < 1 U | **59** | **35** |
| Semi-Volatile Organic Compounds | 1,2,4-Trichlorobenzene | 120-82-1 | 5 | ug/L | < 9 U | < 9 U | < 9.5 U | < 9 U | < 10 U | < 10 U | < 9 U | < 9.5 U, L1 |
| | 1,2-Benzphenanthracene (Chrysene) | 218-01-9 | 0.002 | ug/L | **0.3 J** | < 5 U | **0.45 J** | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | 1,2-dicholorobenzene | 95-50-1 | 3 | ug/L | **9 UJ1** | **0.4 BJ** | < 9.5 U, B | < 9 U | **0.47 J** | < 10 U | **9 UJ1** | < 9.5 U, B |
| | 1,4-dichlorobenzene | 106-46-7 | 3 | ug/L | < 9 U | **0.4 UJ1** | < 9.5 U, B | < 9 U | **0.55 J** | < 10 U | **9 UJ1** | < 9.5 U, B |
| | 2,2'-oxybis(1-Chloropropane) [bis(2-chloro-1-methyletheyl) ether] | 108-60-1 | NA | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | 2,4,5-Trichlorophenol | 95-95-4 | NA | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | 2,4,6-Trichlorophenol | 88-06-2 | NA | ug/L | < 5 U | < 5 U | < 4.7 U, L1 | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U, L1 |
| | 2,4-Dichlorophenol | 120-83-2 | 5 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |

**Table 11 - Summary of Ground Water Analytical Results**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Action Level | Action Level Unit | MW-1-093008 | Blind Duplicate-093008 | MW-1-011909 | MW-3-093008 | MW-3-011509 | DUP-011509 | MW-4-093008 | MW-4-011909 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | 2,4-Dimethylphenol | 105-67-9 | 50 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | 2,4-Dinitrophenol | 51-28-5 | 10 | ug/L | < 9 U | < 9 U | < 9.5 U | < 9 U | < 10 U | < 10 U | < 9 U | < 9.5 U |
| | 2,4-Dinitrotoluene | 121-14-2 | 5 | ug/L | < 5 U | < 5 U | < 4.7 U, L1 | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U, L1 |
| | 2,6-Dinitrotoluene | 606-20-2 | 5 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | 2-Chloronaphthalene | 91-58-7 | 10 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | 2-Chlorophenol | 95-57-8 | NA | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | 2-Methylnaphthalene | 91-57-6 | NA | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | 2-Methylphenol | 95-48-7 | NA | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | 2-Nitroaniline | 88-74-4 | 5 | ug/L | < 9 U | < 9 U | < 9.5 U | < 9 U | < 10 U | < 10 U | < 9 U | < 9.5 U |
| | 2-Nitrophenol | 88-75-5 | 5 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | 3,3'-Dichlorobenzidine | 91-94-1 | 5 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | 3,5,5-Trimethyl-2-cyclohexene-1-one (Isophorone) | 78-59-1 | 50 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | 3-Nitroaniline | 99-09-2 | 5 | ug/L | < 9 U | < 9 U | < 9.5 U | < 9 U | < 10 U | < 10 U | < 9 U | < 9.5 U |
| | 4,6-Dinitro-2-methylphenol | 534-52-1 | NA | ug/L | < 9 U | < 9 U | < 9.5 U | < 9 U | < 10 U | < 10 U | < 9 U | < 9.5 U |
| | 4-Bromophenyl phenyl ether | 101-55-3 | NA | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | 4-Chloro-3-methylphenol | 59-50-7 | NA | ug/L | < 5 U | < 5 U | < 4.7 U, L1 | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U, L1 |
| | 4-Chlorophenyl phenyl ether | 7005-72-3 | NA | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | 4-Methylphenol | 106-44-5 | NA | ug/L | < 5 U | < 5 U | < 4.7 U, L1 | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | 4-Nitrophenol | 100-02-7 | NA | ug/L | < 9 U | < 9 U | < 9.5 U | < 9 U | < 10 U | < 10 U | < 9 U | < 9.5 U |
| | Acenaphthene | 83-32-9 | 20 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Acenaphthylene | 208-96-8 | NA | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Anthracene | 120-12-7 | 50 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Benzo(a)anthracene | 56-55-3 | 0.002 | ug/L | **0.2 J** | **0.2 J** | **0.33 J** | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Benzo(a)pyrene | 50-32-8 | ND | ug/L | **0.2 J** | < 5 U | **0.33 J, L1** | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U, L1 |
| | Benzo(b)fluoranthene | 205-99-2 | 0.002 | ug/L | **0.4 J** | < 5 U | **0.67 J** | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Benzo(ghi)perylene | 191-24-2 | NA | ug/L | **0.3 J** | < 5 U | **0.56 J** | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Benzo(k)fluoranthene | 207-08-9 | 0.002 | ug/L | < 5 U | < 5 U | **0.15 J** | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Benzyl alcohol | 100-51-6 | NA | ug/L | < 19 U | < 19 U | < 19 U | < 19 U | < 21 U | < 21 U | < 19 U | < 19 U |
| | Benzyl butyl phthalate (Butyl benzyl phthalate) | 85-68-7 | 50 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Bis(2-chloroethoxy) methane | 111-91-1 | 5 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Bis(2-chloroethyl) ether | 111-44-4 | 1 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Bis(2-ethylhexyl) phthalate | 117-81-7 | 5 | ug/L | **13** | **7** | **23** | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Dibenzo(a,h)anthracene | 53-70-3 | NA | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Dibenzofuran | 132-64-9 | NA | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Diethyl phthalate | 84-66-2 | 50 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Dimethyl phthalate | 131-11-3 | 50 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Di-n-butyl phthalate | 84-74-2 | 50 | ug/L | **0.7 UJ1** | 0.6 U1 | **0.51 J** | 0.6 U1 | < 5.2 U | < 5.2 U | 0.4 U1 | < 4.8 U |
| | Di-n-octyl phthalate | 117-84-0 | 50 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Fluoranthene | 206-44-0 | 50 | ug/L | **0.5 J** | **0.2 J** | **0.64 J** | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Fluorene | 86-73-7 | 50 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Hexachloro-1,3-Butadiene (Hexachlorobutadiene) | 87-68-3 | 0.5 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Hexachlorobenzene | 118-74-1 | 0.04 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Hexachlorocyclopentadiene | 77-47-4 | 5 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Hexachloroethane | 67-72-1 | 5 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Indeno(1,2,3-cd)pyrene | 193-39-5 | 0.002 | ug/L | **0.2 J** | < 5 U | **0.42 J** | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | M-dichlorobenzene | 541-73-1 | 3 | ug/L | < 9 U | **0.4 BJ** | < 9.5 U, B | **9 UJ1** | **0.57 J** | < 10 U | **9 UJ1** | < 9.5 U, B |
| | Methanamine, N-methyl-n-nitroso (N-Nitrosodimethylamine) | 62-75-9 | NA | ug/L | < 9 U | < 9 U | < 4.7 U | < 9 U | < 10 U | < 10 U | < 9 U | < 9.5 U |
| | Naphthalene | 91-20-3 | 10 | ug/L | < 5 U | **0.3 BJ** | < 4.7 U, B | **1 BJ** | **0.73 J** | < 5.2 U | < 5 U | 1.2 U1 |
| | Nitrobenzene | 98-95-3 | 0.4 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | N-Nitrosodi-n-propylamine (N-Nitroso-Di-n-propylamine) | 621-64-7 | NA | ug/L | < 5 U | < 5 U | < 9.5 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | N-Nitrosodiphenylamine | 86-30-6 | 50 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | P-Chloroaniline (4-Chloraniline) | 106-47-8 | 5 | ug/L | < 5 U | < 5 U | < 4.7 U | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Pentachlorophenol | 87-86-5 | 1 | ug/L | < 9 U | < 9 U | < 9.5 U | < 9 U | < 10 U | < 10 U | < 9 U | < 9.5 U |
| | Phenanthrene | 85-01-8 | 50 | ug/L | **0.2 BJ** | < 5 U | **0.33 J** | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |
| | Phenol | 108-95-2 | 1 | ug/L | < 5 U | < 5 U | < 4.7 U | **2 J** | **1.6 J** | < 5.2 U | < 5 U | < 4.8 U |
| | P-Nitroaniline (4-Nitroaniline) | 100-01-6 | 5 | ug/L | < 9 U | < 9 U | < 9.5 U, L1 | < 9 U | < 10 U | < 10 U | < 9 U | < 9.5 U, L1 |
| | Pyrene | 129-00-0 | 50 | ug/L | **0.3 J** | < 5 U | **0.50 J** | < 5 U | < 5.2 U | < 5.2 U | < 5 U | < 4.8 U |

**Table 11 - Summary of Ground Water Analytical Results**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Action Level | Action Level Unit | MW-5-100608 | MW-5-011909 | MW-6-100608 | MW-6-011509 | FB-011509 | MW-7-100608 and MW-7-100708 | MW-7-011909 | MW-8-100608 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metals | Aluminum (fume or dust) | 7429-90-5 | NA | ug/L | **6,230** | **700 B** | **8,220** | **1,400** | < 200 U | **71,400** | **3,600 B** | **16,100** |
| | Antimony | 7440-36-0 | 3 | ug/L | < 20 U | < 20 U | < 20 U | < 20 U | < 20 U | < 20 U | < 20 U | < 20 U |
| | Arsenic | 7440-38-2 | 25 | ug/L | **14.6** | **4** | **15.3** | < 20 U | < 10 U | **97.3** | **6 J** | **10.6** |
| | Barium | 7440-39-3 | 1,000 | ug/L | **204** | **100** | **210** | **80** | < 2 U | **234** | **50.1** | **152** |
| | Beryllium | 7440-41-7 | 3 | ug/L | < 2 U | < 2 U | < 2 U | < 2 U | < 2 U | **4.3** | < 2 U | < 2 U |
| | Cadmium | 7440-43-9 | 5 | ug/L | < 1 U | < 1 U | **1.3** | **0.91 J** | < 1 U | **1.2** | < 1 U | < 1 U |
| | Calcium metal | 7440-70-2 | NA | ug/L | **307,000 J1** | **211,000** | **383,000 J1** | **88,300 J1** | < 500 U | **1,490,000 J1** | **138,000** | **279,000 J1** |
| | Chromium | 7440-47-3 | 50 | ug/L | **9.2** | < 4 U | **20.8** | **2 J** | < 4 U | **143** | **4 J** | **21.7** |
| | Cobalt | 7440-48-4 | NA | ug/L | **58.1** | **70** | **6.6** | < 4 U | < 4 U | **56.6** | **3 J** | **8** |
| | Copper | 7440-50-8 | 200 | ug/L | **10.7** | **40** | **21.1** | **2 J** | < 10 U | **202** | **2 J** | **44** |
| | Iron | 7439-89-6 | 300 | ug/L | **9,120 J1** | **800** | **13,400 J1** | **2,000** | < 50 U | **99,400 J1** | **1,700** | **16,100 J1** |
| | Lead | 7439-92-1 | 25 | ug/L | **24.6** | **10** | **9.8** | < 5 U | < 5 U | **92.2** | < 5 U | **14.4** |
| | Magnesium | 7439-95-4 | 35,000 | ug/L | **93,900** | **72,000** | **66,000** | **34,800 J1** | < 200 U | **186,000** | **56,000** | **62,900** |
| | Manganese | 7439-96-5 | 300 | ug/L | **435 J1** | **100** | **639 J1** | **60** | **0.38 J** | **3,490 J1** | **60** | **474 J1** |
| | Mercury | 7439-97-6 | 0.7 | ug/L | < 0.2 U | < 0.2 U | < 0.2 U | < 0.2 U | < 0.2 U | < 0.2 U | < 0.2 U | < 0.2 U |
| | Nickel | 7440-02-0 | 100 | ug/L | **220** | 300 | **15.7** | **4 J** | < 10 U | **117** | **6 J** | **19.2** |
| | Potassium | 7440-09-7 | NA | ug/L | **33,600 J1** | **20,600** | **47,400 J1** | **13,500** | < 500 U | **77,100 J1** | **22,600** | **15,200 J1** |
| | Selenium | 7782-49-2 | 10 | ug/L | **10 UJ1** | < 0.02 U | **1 UJ1** | < 1 U | < 1 U | **1 UJ1** | < 0.02 U | **1 UJ1** |
| | Silver | 7440-22-4 | 50 | ug/L | < 3 U | < 3 U | < 3 U | < 3 U | < 3 U | < 3 U | < 3 U | < 3 U |
| | Sodium | 7440-23-5 | 20,000 | ug/L | **2,550,000** | **3,150,000 D08** | **159,000** | **448,800** | < 1,000 U | **144,000** | **105,000** | **92,300** |
| | Thallium | 7440-28-0 | 0.5 | ug/L | < 2 U | < 0.2 U | < 0.2 U | < 0.2 U | < 0.2 U | **0.51** | < 0.2 U | < 0.2 U |
| | Vanadium (fume or dust) | 7440-62-2 | NA | ug/L | **9.8** | < 5 U | **15.3** | **6** | < 5 U | **118** | **4 J** | **20.7** |
| | Zinc | 7440-66-6 | 2,000 | ug/L | **116** | **70** | **29.1** | **20.9** | < 10 U | **468** | **10.0 J** | **84.9** |
| Cyanide | Cyanide | 57-12-5 | 0.200 | mg/L | < 0.01 U | **0.01 UJ1** | < 0.01 U | < 0.01 U | < 0.01 U | < 0.01 U | **0.01 UJ1** | < 0.01 U |
| Pesticides | Methoxychlor [1,1,1-Trichloro-2,2-Bis (p-methoxphenyl)-ethane] | 72-43-5 | 35 | ug/L | < 0.047 U | NT | < 0.047 U | NT | NT | NT | NT | < 0.047 U |
| | 4,4'-DDD | 72-54-8 | 0.3 | ug/L | < 0.047 U | NT | < 0.047 U | NT | NT | NT | NT | < 0.047 U |
| | 4,4'-DDE | 72-55-9 | 0.2 | ug/L | < 0.047 U | NT | < 0.047 U | NT | NT | NT | NT | < 0.047 U |
| | 4,4'-DDT | 50-29-3 | 0.2 | ug/L | < 0.047 U | NT | < 0.047 U | NT | NT | NT | NT | < 0.047 U |
| | Aldrin | 309-00-2 | ND | ug/L | < 0.047 U | NT | < 0.047 U | NT | NT | NT | NT | < 0.047 U |
| | alpha-BHC | 319-84-6 | 0.01 | ug/L | < 0.047 U | NT | < 0.047 U | NT | NT | NT | NT | < 0.047 U |
| | alpha-Chlordane | 5103-71-9 | NA | ug/L | < 0.047 U | NT | < 0.047 U | NT | NT | NT | NT | < 0.047 U |
| | beta-BHC | 319-85-7 | 0.04 | ug/L | < 0.047 U | NT | < 0.047 U | NT | NT | NT | NT | < 0.047 U |
| | Toxaphene [Camphechlor] | 8001-35-2 | 0.06 | ug/L | < 0.47 U | NT | < 0.47 U | NT | NT | NT | NT | < 0.47 U |
| | delta-BHC | 319-86-8 | 0.04 | ug/L | < 0.047 U | NT | < 0.047 U | NT | NT | NT | NT | < 0.047 U |
| | Dieldrin | 60-57-1 | 0.004 | ug/L | < 0.047 U | NT | < 0.047 U | NT | NT | NT | NT | < 0.047 U |
| | Endosulfan I | 959-98-8 | NA | ug/L | < 0.047 U | NT | < 0.047 U | NT | NT | NT | NT | < 0.047 U |
| | Endosulfan II | 33213-65-9 | NA | ug/L | < 0.047 U | NT | < 0.047 U | NT | NT | NT | NT | < 0.047 U |
| | Endosulfan sulfate | 1031-07-8 | NA | ug/L | < 0.047 U | NT | < 0.047 U | NT | NT | NT | NT | < 0.047 U |
| | Endrin | 72-20-8 | ND | ug/L | < 0.047 U | NT | < 0.047 U | NT | NT | NT | NT | < 0.047 U |
| | Endrin Aldehyde | 7421-93-4 | 5 | ug/L | < 0.047 U | NT | < 0.047 U | NT | NT | NT | NT | < 0.047 U |
| | Endrin Ketone | 53494-70-5 | 5 | ug/L | < 0.047 U | NT | < 0.047 U | NT | NT | NT | NT | < 0.047 U |
| | gamma-BHC (Lindane) | 58-89-9 | 0.05 | ug/L | < 0.047 U | NT | < 0.047 U | NT | NT | NT | NT | < 0.047 U |
| | gamma-Chlordane | 5103-74-2 | NA | ug/L | < 0.047 U | NT | < 0.047 U | NT | NT | NT | NT | < 0.047 U |
| | Heptachlor | 76-44-8 | 0.04 | ug/L | < 0.047 U | NT | < 0.047 U | NT | NT | NT | NT | < 0.047 U |
| | Heptachlor epoxide | 1024-57-3 | 0.03 | ug/L | < 0.047 U | NT | < 0.047 U | NT | NT | NT | NT | < 0.047 U |
| PCB's | Aroclor-1016 (PCB-1016) | 12674-11-2 | 0.09** | ug/L | < 0.47 U | < 0.526 U | < 0.47 U | < 0.538 U | < 0.510 U | < 0.47 U | < 0.526 U | < 0.47 U |
| | Aroclor-1221 (PCB-1221) | 11104-28-2 | 0.09** | ug/L | < 0.47 U | < 0.526 U | < 0.47 U | < 0.538 U | < 0.510 U | < 0.47 U | < 0.526 U | < 0.47 U |
| | Aroclor-1232 (PCB-1232) | 11141-16-5 | 0.09** | ug/L | < 0.47 U | < 0.526 U | < 0.47 U | < 0.538 U | < 0.510 U | < 0.47 U | < 0.526 U | < 0.47 U |
| | Aroclor-1242 (PCB-1242) | 53469-21-9 | 0.09** | ug/L | < 0.47 U | < 0.526 U | < 0.47 U | < 0.538 U | < 0.510 U | < 0.47 U | < 0.526 U | < 0.47 U |
| | Aroclor-1248 (PCB-1248) | 12672-29-6 | 0.09** | ug/L | < 0.47 U | < 0.526 U | < 0.47 U | < 0.538 U | < 0.510 U | < 0.47 U | < 0.526 U | < 0.47 U |
| | Aroclor-1254 (PCB-1254) | 11097-69-1 | 0.09** | ug/L | < 0.47 U | < 0.526 U | < 0.47 U | < 0.538 U | < 0.510 U | < 0.47 U | < 0.526 U | < 0.47 U |
| | Aroclor-1260 (PCB-1260) | 11096-82-5 | 0.09** | ug/L | < 0.47 U | < 0.526 U | < 0.47 U | < 0.538 U | < 0.510 U | < 0.47 U | < 0.526 U | < 0.47 U |

**Table 11 - Summary of Ground Water Analytical Results**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Action Level | Action Level Unit | MW-5-100608 | MW-5-011909 | MW-6-100608 | MW-6-011509 | FB-011509 | MW-7-100608 and MW-7-100708 | MW-7-011909 | MW-8-100608 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volitile Organic Compounds | 1,1,1-Trichloroethane | 71-55-6 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | 1,1,2-Trichloroethane | 79-00-5 | 1 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | 1,1-Dichloroethane | 75-34-3 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | 1,1-Dichloroethylene (1,1-Dichloroethene) | 75-35-4 | 5 | ug/L | **0.6 J** | < 1 U | < 1 U | < 1 U | < 1 U | **2 J1** | **0.93 J** | < 1 U |
| | 1,2,4-Trichlorobenzene | 120-82-1 | 5 | ug/L | < 1 U | < 1 U | **1 UJ1** | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | 1,2-Dibromo-3-Chloropropane (DBCP) | 96-12-8 | 0.04 | ug/L | **1 UJ1** | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | **1 UJ1** |
| | 1,2-Dibromoethane (Ethylene Dibromide) | 106-93-4 | 0.0006 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | 1,2-Dichlorobenzene | 95-50-1 | 3 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | 1,2-Dichloroethane | 107-06-2 | 0.6 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | 1,2-Dichloropropane | 78-87-5 | 1 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | 1,4-Dichlorobenzene | 106-46-7 | 3 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | 2-Butanone (Methyl Ethyl Ketone) | 78-93-3 | 50 | ug/L | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U, R1 | < 5 U | < 5 U |
| | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) | 108-10-1 | NA | ug/L | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U, R1 | < 5 U | < 5 U |
| | Acetone | 67-64-1 | 50 | ug/L | **5 UJ1** | < 5 U | **3 J** | < 5 U | < 5 U | **8 J1** | < 5 U | **5 UJ1** |
| | Benzene | 71-43-2 | 1 | ug/L | **2** | **0.42 J** | **1** | **2.4** | < 1 U | **8 J1** | **1.4** | < 1 U |
| | Bromodichloromethane | 75-27-4 | 50 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | **1 J1** | < 1 U | < 1 U |
| | Bromomethane | 74-83-9 | 5 | ug/L | **1 UJ1** | < 1 U | **1 UJ1** | < 1 U | < 1 U | < 1 U, R1 | < 1 U | **1 UJ1** |
| | Carbon disulfide | 75-15-0 | 60 | ug/L | **4** | < 1 U | **0.7 J** | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | Carbon Tetrachloride | 56-23-5 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | CFC-11 (Freon 11, Trichlorofluoromethane) | 75-69-4 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | CFC-12 (Freon 12, Dichlorodifluoromethane) | 75-71-8 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | Chlorinated Fluorocarbon (Freon 113, 1,1,2-Trichloro-1,2,2-trifluoroethane) | 76-13-1 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | Chlorobenzene | 108-90-7 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | Chlorodibromomethane (Dibromochloromethane) | 124-48-1 | 50 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | Chloroethane | 75-00-3 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | Chloroform | 67-66-3 | 7 | ug/L | **0.5 J** | < 1 U | **2** | < 1 U | < 1 U | **16 J1** | < 1 U | < 1 U |
| | Chloromethane | 74-87-3 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | cis-1,2-Dichloroethene | 156-59-2 | 5 | ug/L | **310 J1** | **20** | **5** | **0.79 J** | < 1 U | **2,000 J1** | **1,300 D08, P-HS** | **56** |
| | cis-1,3-Dichloropropene | 10061-01-5 | 0.4 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | Cyclohexane | 110-82-7 | NA | ug/L | < 1 U | < 1 U | < 1 U | **3.5** | < 1 U | **1 J1** | < 1 U | < 1 U |
| | Dichloromethane (Methylene chloride) | 75-09-2 | 5 | ug/L | **1 UJ1** | < 1 U | **1 UJ1** | < 1 U | < 1 U | < 1 U, R1 | < 1 U | **1 UJ1** |
| | Ethylbenzene | 100-41-4 | 5 | ug/L | < 1 U | < 1 U | **0.7 J** | **8.5** | < 1 U | **0.8 J1** | < 1 U | < 1 U |
| | Isopropylbenzene | 98-82-8 | 5 | ug/L | < 1 U | < 1 U | < 1 U | **2.1** | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | M-Dichlorobenzene (1.3-Dichlorobenzene) | 541-73-1 | 3 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | Methyl acetate | 79-20-9 | NA | ug/L | **1 UJ1** | < 1 U | **1 UJ1** | < 1 U | < 1 U | < 1 U, R1 | < 1 U | **1 UJ1** |
| | Methyl n-butyl ketone (2-Hexanone) | 591-78-6 | 50 | ug/L | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U, R1 | < 5 U | < 5 U |
| | Methylbenzene (Toluene) | 108-88-3 | 5 | ug/L | < 1 U | < 1 U | **1** | < 1 U | < 1 U | **14 J1** | **1.8** | < 1 U |
| | Methylcyclohexane | 108-87-2 | NA | ug/L | < 1 U | < 1 U | < 1 U | **1** | < 1 U | **2 J1** | < 1 U | < 1 U |
| | Methyl Tert Butyl Ether (MTBE) | 1634-04-4 | 10 | ug/L | **3** | < 1 U | **94 J1** | **78** | < 1 U | < 1 U, R1 | **0.7 J** | < 1 U |
| | Styrene (Monomer) | 100-42-5 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | Tetrachloroethene | 127-18-4 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | **0.8 J1** | < 1 U | **0.6 J** |
| | Total Xylenes | 1330-20-7 | 5 | ug/L | < 3 U | < 3 U | **2 J** | **5.5** | < 3 U | **9 J1** | < 3 U | < 3 U |
| | trans-1,2-Dichloroethene | 156-60-5 | 5 | ug/L | **0.8 J** | < 1 U | < 1 U | < 1 U | < 1 U | **8 J1** | **9.4** | **0.5 J** |
| | trans-1,3-Dichloropropene | 10061-02-6 | 0.4 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | Tribromomethane (Bromoform) | 75-25-2 | NA | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U, R1 | < 1 U | < 1 U |
| | Trichloroethylene (Trichloroethene) | 79-01-6 | 5 | ug/L | **5** | **0.69 J** | **2** | **0.69 J** | < 1 U | 4,900 R1 | **2,800 D08, P-HS** | **57** |
| | Vinyl chloride | 75-01-4 | 2 | ug/L | **31** | **2.3** | **1** | < 1 U | < 1 U | **4 J1** | **1.8** | **3** |
| Semi-Volatile Organic Compounds | 1,2,4-Trichlorobenzene | 120-82-1 | 5 | ug/L | < 9 U | < 11 U | < 9 U | < 10 U | < 10 U | < 9 U | < 10 U | < 9 U |
| | 1,2-Benzphenanthracene (Chrysene) | 218-01-9 | 0.002 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | **2 J** |
| | 1,2-dicholorobenzene | 95-50-1 | 3 | ug/L | < 9 U | < 11 U, B | < 9 U | < 10 U | < 10 U | < 9 U | < 10 U, B | < 9 U |
| | 1,4-dichlorobenzene | 106-46-7 | 3 | ug/L | < 9 U | < 11 U, B | < 9 U | < 10 U | < 10 U | < 9 U | < 10 U, B | < 9 U |
| | 2,2'-oxybis(1-Chloropropane) [bis(2-chloro-1-methyletheyl) ether] | 108-60-1 | NA | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | 2,4,5-Trichlorophenol | 95-95-4 | NA | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | 2,4,6-Trichlorophenol | 88-06-2 | NA | ug/L | < 5 U | < 5.3 U, L1 | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U, L1 | < 5 U |
| | 2,4-Dichlorophenol | 120-83-2 | 5 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |

**Table 11 - Summary of Ground Water Analytical Results**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Action Level | Action Level Unit | MW-5-100608 | MW-5-011909 | MW-6-100608 | MW-6-011509 | FB-011509 | MW-7-100608 and MW-7-100708 | MW-7-011909 | MW-8-100608 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | 2,4-Dimethylphenol | 105-67-9 | 50 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | 2,4-Dinitrophenol | 51-28-5 | 10 | ug/L | < 9 U | < 11 U | < 9 U | < 10 U | < 10 U | < 9 U | < 10 U | < 9 U |
| | 2,4-Dinitrotoluene | 121-14-2 | 5 | ug/L | < 5 U | < 5.3 U, L1 | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | 2,6-Dinitrotoluene | 606-20-2 | 5 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | 2-Chloronaphthalene | 91-58-7 | 10 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | 2-Chlorophenol | 95-57-8 | NA | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | 2-Methylnaphthalene | 91-57-6 | NA | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | **0.4 J** | < 5.2 U | < 5 U |
| | 2-Methylphenol | 95-48-7 | NA | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | 2-Nitroaniline | 88-74-4 | 5 | ug/L | < 9 U | < 11 U | < 9 U | < 10 U | < 10 U | < 9 U | < 10 U | < 9 U |
| | 2-Nitrophenol | 88-75-5 | 5 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | 3,3'-Dichlorobenzidine | 91-94-1 | 5 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | 3,5,5-Trimethyl-2-cyclohexene-1-one (Isophorone) | 78-59-1 | 50 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | 3-Nitroaniline | 99-09-2 | 5 | ug/L | < 9 U | < 11 U | < 9 U | < 10 U | < 10 U | < 9 U | < 10 U | < 9 U |
| | 4,6-Dinitro-2-methylphenol | 534-52-1 | NA | ug/L | < 9 U | < 11 U | < 9 U | < 10 U | < 10 U | < 9 U | < 10 U | < 9 U |
| | 4-Bromophenyl phenyl ether | 101-55-3 | NA | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | 4-Chloro-3-methylphenol | 59-50-7 | NA | ug/L | < 5 U | < 5.3 U, L1 | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U, L1 | < 5 U |
| | 4-Chlorophenyl phenyl ether | 7005-72-3 | NA | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | 4-Methylphenol | 106-44-5 | NA | ug/L | < 5 U | < 5.3 U, L1 | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U, L1 | < 5 U |
| | 4-Nitrophenol | 100-02-7 | NA | ug/L | < 9 U | < 11 U | < 9 U | < 10 U | < 10 U | < 9 U | < 10 U | < 9 U |
| | Acenaphthene | 83-32-9 | 20 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | Acenaphthylene | 208-96-8 | NA | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | Anthracene | 120-12-7 | 50 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | **0.2 J** |
| | Benzo(a)anthracene | 56-55-3 | 0.002 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | **2 J** |
| | Benzo(a)pyrene | 50-32-8 | 0 | ug/L | < 5 U | < 5.3 U, L1 | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U, L1 | **2 J** |
| | Benzo(b)fluoranthene | 205-99-2 | 0.002 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | **2 J** |
| | Benzo(ghi)perylene | 191-24-2 | NA | ug/L | **5 UJ1** | < 5.3 U | **5 UJ1** | < 5 U | < 5.2 U | **5 UJ1** | < 5.2 U | **2 J** |
| | Benzo(k)fluoranthene | 207-08-9 | 0.002 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | **1 J** |
| | Benzyl alcohol | 100-51-6 | NA | ug/L | < 19 U | < 21 U | < 19 U | < 20 U | < 21 U | < 19 U | < 21 U | < 19 U |
| | Benzyl butyl phthalate (Butyl benzyl phthalate) | 85-68-7 | 50 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | Bis(2-chloroethoxy) methane | 111-91-1 | 5 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | Bis(2-chloroethyl) ether | 111-44-4 | 1 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | Bis(2-ethylhexyl) phthalate | 117-81-7 | 5 | ug/L | **4 J** | < 5.3 U | **4 J** | < 5 U | < 5.2 U | < 5 U | < 5.2 U | **5** |
| | Dibenzo(a,h)anthracene | 53-70-3 | NA | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | Dibenzofuran | 132-64-9 | NA | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | Diethyl phthalate | 84-66-2 | 50 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | Dimethyl phthalate | 131-11-3 | 50 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | Di-n-butyl phthalate | 84-74-2 | 50 | ug/L | 5 U1 | **0.39 J** | 5 U1 | 0.54 U1 | **0.43 J** | 5 U1 | **0.63 J** | 5 U1 |
| | Di-n-octyl phthalate | 117-84-0 | 50 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | **0.31 J** | < 5 U |
| | Fluoranthene | 206-44-0 | 50 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | **3 J** |
| | Fluorene | 86-73-7 | 50 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | Hexachloro-1,3-Butadiene (Hexachlorobutadiene) | 87-68-3 | 0.5 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | Hexachlorobenzene | 118-74-1 | 0.04 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | Hexachlorocyclopentadiene | 77-47-4 | 5 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | Hexachloroethane | 67-72-1 | 5 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | Indeno(1,2,3-cd)pyrene | 193-39-5 | 0.002 | ug/L | **5 UJ1** | < 5.3 U | **5 UJ1** | < 5 U | < 5.2 U | **5 UJ1** | < 5.2 U | **1 J** |
| | M-dichlorobenzene | 541-73-1 | 3 | ug/L | < 9 U | < 11 U, B | < 9 U | < 10 U | < 10 U | < 9 U | < 10 U, B | < 9 U |
| | Methanamine, N-methyl-n-nitroso (N-Nitrosodimethylamine) | 62-75-9 | NA | ug/L | < 9 U | < 11 U | < 9 U | < 10 U | < 5.2 U | < 9 U | < 10 U | < 9 U |
| | Naphthalene | 91-20-3 | 10 | ug/L | < 5 U | < 5.3 U, B | **0.2 J** | **0.41 J** | < 5.2 U | 5 U1 | < 5.2 U, B | < 5 U |
| | Nitrobenzene | 98-95-3 | 0.4 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | N-Nitrosodi-n-propylamine (N-Nitroso-Di-n-propylamine) | 621-64-7 | NA | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 10 U | < 5 U | < 5.2 U | < 5 U |
| | N-Nitrosodiphenylamine | 86-30-6 | 50 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | P-Chloroaniline (4-Chloraniline) | 106-47-8 | 5 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | Pentachlorophenol | 87-86-5 | 1 | ug/L | < 9 U | < 11 U | < 9 U | < 10 U | < 10 U | < 9 U | < 10 U | < 9 U |
| | Phenanthrene | 85-01-8 | 50 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | **1 J** |
| | Phenol | 108-95-2 | 1 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | < 5 U |
| | P-Nitroaniline (4-Nitroaniline) | 100-01-6 | 5 | ug/L | < 9 U | < 11 U, L1 | < 9 U | < 10 U | < 10 U | < 9 U | < 10 U, L1 | < 9 U |
| | Pyrene | 129-00-0 | 50 | ug/L | < 5 U | < 5.3 U | < 5 U | < 5 U | < 5.2 U | < 5 U | < 5.2 U | **3 J** |

**Table 11 - Summary of Ground Water Analytical Results**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Action Level | Action Level Unit | MW-8-011609 | MW-9-100608 | MW-9-011509 | OW101-100108 | OW101-011509 | RIZ-3-100208 | RIZ-3-011509 | RIZ-4-100208 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metals | Aluminum (fume or dust) | 7429-90-5 | NA | ug/L | **1,100** | **82,800** | **1,400** | NT | **7,300** | NT | **5,100** | **2,620** |
| | Antimony | 7440-36-0 | 3 | ug/L | < 20 U | < 20 U | < 20 U | NT | **6 J** | NT | < 20 U | < 20 U |
| | Arsenic | 7440-38-2 | 25 | ug/L | < 10 U | **58.5** | < 10 U | NT | **10 J** | NT | < 10 U | **14.6** |
| | Barium | 7440-39-3 | 1,000 | ug/L | **50** | **346** | **100** | NT | **200** | NT | **70** | **259** |
| | Beryllium | 7440-41-7 | 3 | ug/L | < 2 U | **3.9** | < 2 U | NT | < 2 U | NT | < 2 U | < 2 U |
| | Cadmium | 7440-43-9 | 5 | ug/L | < 1 U | **1** | < 1 U | NT | **4** | NT | **0.74 J** | **4.8** |
| | Calcium metal | 7440-70-2 | NA | ug/L | **130,000 J1** | **1,340,000 J1** | **137,000 J1** | NT | **156,000 J1** | NT | **164,000 J1** | **277,000** |
| | Chromium | 7440-47-3 | 50 | ug/L | **2 J** | **115** | **1 J** | NT | **200** | NT | **20** | **15.5** |
| | Cobalt | 7440-48-4 | NA | ug/L | < 4 U | **45.5** | **2 J** | NT | **30** | NT | **2 J** | < 4 U |
| | Copper | 7440-50-8 | 200 | ug/L | **3 J** | **185** | **2 J** | NT | **700** | NT | **200** | **194** |
| | Iron | 7439-89-6 | 300 | ug/L | **800** | **75,900 J1** | **10,700** | NT | **25,200** | NT | **5,600** | **15,500** |
| | Lead | 7439-92-1 | 25 | ug/L | < 5 U | **91.5** | < 5 U | NT | **200** | NT | **10.5** | **34.7** |
| | Magnesium | 7439-95-4 | 35,000 | ug/L | **41,400 J1** | **156,000** | **54,000 J1** | NT | **22,900 J1** | NT | **25,800 J1** | **52,100** |
| | Manganese | 7439-96-5 | 300 | ug/L | **20** | **2,720 J1** | **200** | NT | **1,300** | NT | **100** | **1,690** |
| | Mercury | 7439-97-6 | 0.7 | ug/L | < 0.2 U | < 0.2 U | < 0.2 U | NT | **0.313 CF6** | NT | < 0.2 U | < 0.2 U |
| | Nickel | 7440-02-0 | 100 | ug/L | **4 J** | **97.7** | **3 J** | NT | **100** | NT | **40** | **25.7** |
| | Potassium | 7440-09-7 | NA | ug/L | **6,900** | **50,500 J1** | **7,700** | NT | **8,900** | NT | **5,800** | **4,000** |
| | Selenium | 7782-49-2 | 10 | ug/L | **1.7** | **1 UJ1** | < 1 U | NT | **1 UJ1** | NT | **2** | **1 UJ1** |
| | Silver | 7440-22-4 | 50 | ug/L | < 3 U | < 3 U | < 3 U | NT | **8** | NT | < 3 U | < 3 U |
| | Sodium | 7440-23-5 | 20,000 | ug/L | **88,000 J1** | **112,000** | **227,000 J1** | NT | **348,000 J1** | NT | **6,300 J1** | **371,000** |
| | Thallium | 7440-28-0 | 0.5 | ug/L | < 0.2 U | **0.52** | < 0.2 U | NT | < 0.2 U | NT | < 0.2 U | < 0.2 U |
| | Vanadium (fume or dust) | 7440-62-2 | NA | ug/L | **1 J** | **92.8** | **2 J** | NT | **20** | NT | **6** | **5.4** |
| | Zinc | 7440-66-6 | 2,000 | ug/L | **9 J** | **503** | **20** | NT | **1,200** | NT | **600** | **358** |
| Cyanide | Cyanide | 57-12-5 | 0.200 | mg/L | < 0.01 U | < 0.01 U | < 0.01 U | NT | **0.01 UJ1** | NT | < 0.01 U | < 0.01 U |
| Pesticides | Methoxychlor [1,1,1-Trichloro-2,2-Bis (p-methoxphenyl)-ethane] | 72-43-5 | 35 | ug/L | NT | **0.047 UJ1** | NT | NT | NT | NT | NT | NT |
| | 4,4'-DDD | 72-54-8 | 0.3 | ug/L | NT | **0.047 UJ1** | NT | NT | NT | NT | NT | NT |
| | 4,4'-DDE | 72-55-9 | 0.2 | ug/L | NT | **0.047 UJ1** | NT | NT | NT | NT | NT | NT |
| | 4,4'-DDT | 50-29-3 | 0.2 | ug/L | NT | **0.047 UJ1** | NT | NT | NT | NT | NT | NT |
| | Aldrin | 309-00-2 | ND | ug/L | NT | **0.047 UJ1** | NT | NT | NT | NT | NT | NT |
| | alpha-BHC | 319-84-6 | 0.01 | ug/L | NT | **0.047 UJ1** | NT | NT | NT | NT | NT | NT |
| | alpha-Chlordane | 5103-71-9 | NA | ug/L | NT | **0.047 UJ1** | NT | NT | NT | NT | NT | NT |
| | beta-BHC | 319-85-7 | 0.04 | ug/L | NT | **0.047 UJ1** | NT | NT | NT | NT | NT | NT |
| | Toxaphene [Camphechlor] | 8001-35-2 | 0.06 | ug/L | NT | **0.47 UJ1** | NT | NT | NT | NT | NT | NT |
| | delta-BHC | 319-86-8 | 0.04 | ug/L | NT | **0.047 UJ1** | NT | NT | NT | NT | NT | NT |
| | Dieldrin | 60-57-1 | 0.004 | ug/L | NT | **0.047 UJ1** | NT | NT | NT | NT | NT | NT |
| | Endosulfan I | 959-98-8 | NA | ug/L | NT | **0.047 UJ1** | NT | NT | NT | NT | NT | NT |
| | Endosulfan II | 33213-65-9 | NA | ug/L | NT | **0.047 UJ1** | NT | NT | NT | NT | NT | NT |
| | Endosulfan sulfate | 1031-07-8 | NA | ug/L | NT | **0.047 UJ1** | NT | NT | NT | NT | NT | NT |
| | Endrin | 72-20-8 | ND | ug/L | NT | **0.047 UJ1** | NT | NT | NT | NT | NT | NT |
| | Endrin Aldehyde | 7421-93-4 | 5 | ug/L | NT | **0.047 UJ1** | NT | NT | NT | NT | NT | NT |
| | Endrin Ketone | 53494-70-5 | 5 | ug/L | NT | **0.047 UJ1** | NT | NT | NT | NT | NT | NT |
| | gamma-BHC (Lindane) | 58-89-9 | 0.05 | ug/L | NT | **0.047 UJ1** | NT | NT | NT | NT | NT | NT |
| | gamma-Chlordane | 5103-74-2 | NA | ug/L | NT | **0.047 UJ1** | NT | NT | NT | NT | NT | NT |
| | Heptachlor | 76-44-8 | 0.04 | ug/L | NT | **0.047 UJ1** | NT | NT | NT | NT | NT | NT |
| | Heptachlor epoxide | 1024-57-3 | 0.03 | ug/L | NT | **0.047 UJ1** | NT | NT | NT | NT | NT | NT |
| PCB's | Aroclor-1016 (PCB-1016) | 12674-11-2 | 0.09** | ug/L | < 0.538 U | < 0.47 U | < 0.472 U | NT | < 0.476 U | NT | < 0.472 U | < 0.47 U |
| | Aroclor-1221 (PCB-1221) | 11104-28-2 | 0.09** | ug/L | < 0.538 U | < 0.47 U | < 0.472 U | NT | < 0.476 U | NT | < 0.472 U | < 0.47 U |
| | Aroclor-1232 (PCB-1232) | 11141-16-5 | 0.09** | ug/L | < 0.538 U | < 0.47 U | < 0.472 U | NT | < 0.476 U | NT | < 0.472 U | < 0.47 U |
| | Aroclor-1242 (PCB-1242) | 53469-21-9 | 0.09** | ug/L | < 0.538 U | < 0.47 U | < 0.472 U | NT | < 0.476 U | NT | < 0.472 U | < 0.47 U |
| | Aroclor-1248 (PCB-1248) | 12672-29-6 | 0.09** | ug/L | < 0.538 U | < 0.47 U | < 0.472 U | NT | < 0.476 U | NT | < 0.472 U | < 0.47 U |
| | Aroclor-1254 (PCB-1254) | 11097-69-1 | 0.09** | ug/L | < 0.538 U | < 0.47 U | < 0.472 U | NT | < 0.476 U | NT | < 0.472 U | < 0.47 U |
| | Aroclor-1260 (PCB-1260) | 11096-82-5 | 0.09** | ug/L | < 0.538 U | < 0.47 U | < 0.472 U | NT | < 0.476 U | NT | < 0.472 U | < 0.47 U |

**Table 11 - Summary of Ground Water Analytical Results**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Action Level | Action Level Unit | MW-8-011609 | MW-9-100608 | MW-9-011509 | OW101-100108 | OW101-011509 | RIZ-3-100208 | RIZ-3-011509 | RIZ-4-100208 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volitile Organic Compounds | 1,1,1-Trichloroethane | 71-55-6 | 5 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | **3** |
| | 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,1,2-Trichloroethane | 79-00-5 | 1 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,1-Dichloroethane | 75-34-3 | 5 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | **6** |
| | 1,1-Dichloroethylene (1,1-Dichloroethene) | 75-35-4 | 5 | ug/L | **1.3** | **2 J1** | **5.8** | **1** | < 1 U | < 1 U | < 1 U | **7** |
| | 1,2,4-Trichlorobenzene | 120-82-1 | 5 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2-Dibromo-3-Chloropropane (DBCP) | 96-12-8 | 0.04 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2-Dibromoethane (Ethylene Dibromide) | 106-93-4 | 0.0006 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2-Dichlorobenzene | 95-50-1 | 3 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2-Dichloroethane | 107-06-2 | 0.6 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2-Dichloropropane | 78-87-5 | 1 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | **1 UJ1** |
| | 1,4-Dichlorobenzene | 106-46-7 | 3 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 2-Butanone (Methyl Ethyl Ketone) | 78-93-3 | 50 | ug/L | < 5 U | < 5 U, R1 | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U |
| | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) | 108-10-1 | NA | ug/L | < 5 U | < 5 U, R1 | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U |
| | Acetone | 67-64-1 | 50 | ug/L | < 5 U | < 5 U, R1 | < 5 U | **10** | < 5 U | < 5 U | < 5 U | **4 J** |
| | Benzene | 71-43-2 | 1 | ug/L | < 1 U | < 1 U, R1 | **0.25 J** | **0.6 J** | **0.29 J** | < 1 U | < 1 U | < 1 U |
| | Bromodichloromethane | 75-27-4 | 50 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Bromomethane | 74-83-9 | 5 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Carbon disulfide | 75-15-0 | 60 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Carbon Tetrachloride | 56-23-5 | 5 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | CFC-11 (Freon 11, Trichlorofluoromethane) | 75-69-4 | 5 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | CFC-12 (Freon 12, Dichlorodifluoromethane) | 75-71-8 | 5 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chlorinated Fluorocarbon (Freon 113, 1,1,2-Trichloro-1,2,2-trifluoroethane) | 76-13-1 | 5 | ug/L | < 1 U | **0.6 J** | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chlorobenzene | 108-90-7 | 5 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chlorodibromomethane (Dibromochloromethane) | 124-48-1 | 50 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chloroethane | 75-00-3 | 5 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chloroform | 67-66-3 | 7 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chloromethane | 74-87-3 | 5 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | cis-1,2-Dichloroethene | 156-59-2 | 5 | ug/L | **270 D08** | **460 J1** | **1,200 D08** | **430 D** | **590 D08** | < 1 U | < 1 U | **200 D** |
| | cis-1,3-Dichloropropene | 10061-01-5 | 0.4 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Cyclohexane | 110-82-7 | NA | ug/L | < 1 U | < 1 U, R1 | **1.4** | **0.7 J** | < 1 U | < 1 U | < 1 U | < 1 U |
| | Dichloromethane (Methylene chloride) | 75-09-2 | 5 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Ethylbenzene | 100-41-4 | 5 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Isopropylbenzene | 98-82-8 | 5 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | M-Dichlorobenzene (1.3-Dichlorobenzene) | 541-73-1 | 3 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Methyl acetate | 79-20-9 | NA | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Methyl n-butyl ketone (2-Hexanone) | 591-78-6 | 50 | ug/L | < 5 U | < 5 U, R1 | < 5 U | < 5 U | < 5 U | < 5 U | < 1 U | < 5 U |
| | Methylbenzene (Toluene) | 108-88-3 | 5 | ug/L | < 1 U | < 1 U, R1 | < 1 U | **1** | **0.61 J** | < 1 U | < 1 U | < 1 U |
| | Methylcyclohexane | 108-87-2 | NA | ug/L | < 1 U | < 1 U, R1 | **0.55 J** | **0.7 J** | < 1 U | < 1 U | < 1 U | < 1 U |
| | Methyl Tert Butyl Ether (MTBE) | 1634-04-4 | 10 | ug/L | < 1 U | < 1 U, R1 | **6.6** | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Styrene (Monomer) | 100-42-5 | 5 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Tetrachloroethene | 127-18-4 | 5 | ug/L | **0.42 J** | **1 J1** | **1.1** | **2** | **0.82 J** | < 1 U | < 1 U | < 1 U |
| | Total Xylenes | 1330-20-7 | 5 | ug/L | < 3 U | < 3 U, R1 | < 3 U | < 3 U | < 3 U | < 3 U | < 1 U | < 3 U |
| | trans-1,2-Dichloroethene | 156-60-5 | 5 | ug/L | **2.6** | **4 J1** | **8.5** | **1** | **2** | < 1 U | < 1 U | **10** |
| | trans-1,3-Dichloropropene | 10061-02-6 | 0.4 | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Tribromomethane (Bromoform) | 75-25-2 | NA | ug/L | < 1 U | < 1 U, R1 | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Trichloroethylene (Trichloroethene) | 79-01-6 | 5 | ug/L | **81** | **990 J1** | **3,800 D08** | **81** | **40** | < 1 U | **0.89 J** | **39** |
| | Vinyl chloride | 75-01-4 | 2 | ug/L | **20** | **13 J1** | < 1 U | **89** | **99 D08** | < 1 U | < 1 U | **260 D** |
| Semi-Volatile Organic Compounds | 1,2,4-Trichlorobenzene | 120-82-1 | 5 | ug/L | < 10 U | < 9 U | < 9.4 U | NT | < 9.6 U | NT | < 9.4 U | < 190 U |
| | 1,2-Benzphenanthracene (Chrysene) | 218-01-9 | 0.002 | ug/L | **0.32 J** | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | 1,2-dicholorobenzene | 95-50-1 | 3 | ug/L | < 10 U | < 9 U | < 9.4 U | NT | < 9.6 U | NT | < 9.4 U | < 190 U |
| | 1,4-dichlorobenzene | 106-46-7 | 3 | ug/L | < 10 U | < 9 U | < 9.4 U | NT | < 9.6 U | NT | < 9.4 U | < 190 U |
| | 2,2'-oxybis(1-Chloropropane) [bis(2-chloro-1-methyletheyl) ether] | 108-60-1 | NA | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | 2,4,5-Trichlorophenol | 95-95-4 | NA | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | 2,4,6-Trichlorophenol | 88-06-2 | NA | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | 2,4-Dichlorophenol | 120-83-2 | 5 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |

**Table 11 - Summary of Ground Water Analytical Results**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Action Level | Action Level Unit | MW-8-011609 | MW-9-100608 | MW-9-011509 | OW101-100108 | OW101-011509 | RIZ-3-100208 | RIZ-3-011509 | RIZ-4-100208 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | 2,4-Dimethylphenol | 105-67-9 | 50 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | 2,4-Dinitrophenol | 51-28-5 | 10 | ug/L | < 10 U | < 9 U | < 9.4 U | NT | < 9.6 U | NT | < 9.4 U | < 190 U |
| | 2,4-Dinitrotoluene | 121-14-2 | 5 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | 2,6-Dinitrotoluene | 606-20-2 | 5 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | 2-Chloronaphthalene | 91-58-7 | 10 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | 2-Chlorophenol | 95-57-8 | NA | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | 2-Methylnaphthalene | 91-57-6 | NA | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | 2-Methylphenol | 95-48-7 | NA | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | 2-Nitroaniline | 88-74-4 | 5 | ug/L | < 10 U | < 9 U | < 9.4 U | NT | < 9.6 U | NT | < 9.4 U | < 190 U |
| | 2-Nitrophenol | 88-75-5 | 5 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | 3,3'-Dichlorobenzidine | 91-94-1 | 5 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | 3,5,5-Trimethyl-2-cyclohexene-1-one (Isophorone) | 78-59-1 | 50 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | 3-Nitroaniline | 99-09-2 | 5 | ug/L | < 10 U | < 9 U | < 9.4 U | NT | < 9.6 U | NT | < 9.4 U | < 190 U |
| | 4,6-Dinitro-2-methylphenol | 534-52-1 | NA | ug/L | < 10 U | < 9 U | < 9.4 U | NT | < 9.6 U | NT | < 9.4 U | < 190 U |
| | 4-Bromophenyl phenyl ether | 101-55-3 | NA | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | 4-Chloro-3-methylphenol | 59-50-7 | NA | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | 4-Chlorophenyl phenyl ether | 7005-72-3 | NA | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | 4-Methylphenol | 106-44-5 | NA | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | 4-Nitrophenol | 100-02-7 | NA | ug/L | < 10 U | < 9 U | < 9.4 U | NT | < 9.6 U | NT | < 9.4 U | < 190 U |
| | Acenaphthene | 83-32-9 | 20 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Acenaphthylene | 208-96-8 | NA | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Anthracene | 120-12-7 | 50 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Benzo(a)anthracene | 56-55-3 | 0.002 | ug/L | **0.45 J** | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Benzo(a)pyrene | 50-32-8 | 0 | ug/L | **0.37 J** | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Benzo(b)fluoranthene | 205-99-2 | 0.002 | ug/L | **0.59 J** | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Benzo(ghi)perylene | 191-24-2 | NA | ug/L | < 5.1 U | **5 UJ1** | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Benzo(k)fluoranthene | 207-08-9 | 0.002 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Benzyl alcohol | 100-51-6 | NA | ug/L | < 20 U | < 19 U | < 19 U | NT | < 19 U | NT | < 19 U | < 380 U |
| | Benzyl butyl phthalate (Butyl benzyl phthalate) | 85-68-7 | 50 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | **2.5 J** | NT | < 4.7 U | < 94 U |
| | Bis(2-chloroethoxy) methane | 111-91-1 | 5 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Bis(2-chloroethyl) ether | 111-44-4 | 1 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Bis(2-ethylhexyl) phthalate | 117-81-7 | 5 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | **22** | NT | < 4.7 U | < 94 U |
| | Dibenzo(a,h)anthracene | 53-70-3 | NA | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Dibenzofuran | 132-64-9 | NA | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Diethyl phthalate | 84-66-2 | 50 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | **0.47 J** | NT | < 4.7 U | < 94 U |
| | Dimethyl phthalate | 131-11-3 | 50 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Di-n-butyl phthalate | 84-74-2 | 50 | ug/L | 0.52 U1 | 5 U1 | 0.48 U1 | NT | 1.5 U1 | NT | 0.42 U1 | < 94 U |
| | Di-n-octyl phthalate | 117-84-0 | 50 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Fluoranthene | 206-44-0 | 50 | ug/L | **0.54 J** | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Fluorene | 86-73-7 | 50 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Hexachloro-1,3-Butadiene (Hexachlorobutadiene) | 87-68-3 | 0.5 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Hexachlorobenzene | 118-74-1 | 0.04 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Hexachlorocyclopentadiene | 77-47-4 | 5 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Hexachloroethane | 67-72-1 | 5 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Indeno(1,2,3-cd)pyrene | 193-39-5 | 0.002 | ug/L | **0.25 J** | **5 UJ1** | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | M-dichlorobenzene | 541-73-1 | 3 | ug/L | < 10 U | < 9 U | < 9.4 U | NT | < 9.6 U | NT | < 9.4 U | < 190 U |
| | Methanamine, N-methyl-n-nitroso (N-Nitrosodimethylamine) | 62-75-9 | NA | ug/L | < 5.1 U | < 9 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 190 U |
| | Naphthalene | 91-20-3 | 10 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Nitrobenzene | 98-95-3 | 0.4 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | N-Nitrosodi-n-propylamine (N-Nitroso-Di-n-propylamine) | 621-64-7 | NA | ug/L | < 10 U | < 5 U | < 9.4 U | NT | < 9.6 U | NT | < 9.4 U | < 94 U |
| | N-Nitrosodiphenylamine | 86-30-6 | 50 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | P-Chloroaniline (4-Chloraniline) | 106-47-8 | 5 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Pentachlorophenol | 87-86-5 | 1 | ug/L | < 10 U | < 9 U | < 9.4 U | NT | < 9.6 U | NT | < 9.4 U | < 190 U |
| | Phenanthrene | 85-01-8 | 50 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | Phenol | 108-95-2 | 1 | ug/L | < 5.1 U | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |
| | P-Nitroaniline (4-Nitroaniline) | 100-01-6 | 5 | ug/L | < 10 U | < 9 U | < 9.4 U | NT | < 9.6 U | NT | < 9.4 U | < 190 U |
| | Pyrene | 129-00-0 | 50 | ug/L | **0.49 J** | < 5 U | < 4.7 U | NT | < 4.8 U | NT | < 4.7 U | < 94 U |

**Table 11 - Summary of Ground Water Analytical Results**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Action Level | Action Level Unit | RIZ-4-011509 | RIZ-7-100108 | RIZ-7-011909 | RIZ-9-100108 and RIZ-9-100208 | RIZ-9-011909 | TB-01-011509 | TB-01-011909 | TB-1-100108 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metals | Aluminum (fume or dust) | 7429-90-5 | NA | ug/L | **8,000** | **16,800** | 800 U1 | **40,300** | NT | NT | NT | NT |
| | Antimony | 7440-36-0 | 3 | ug/L | **8 J** | < 20 U | < 20 U | < 20 U | NT | NT | NT | NT |
| | Arsenic | 7440-38-2 | 25 | ug/L | **8 J** | < 10 U | < 10 U | **26.2** | NT | NT | NT | NT |
| | Barium | 7440-39-3 | 1,000 | ug/L | **300** | **105** | **30** | **415** | NT | NT | NT | NT |
| | Beryllium | 7440-41-7 | 3 | ug/L | **0.56 J** | < 2 U | < 2 U | **2** | NT | NT | NT | NT |
| | Cadmium | 7440-43-9 | 5 | ug/L | **1 J** | < 1 U | < 1 U | **8.7** | NT | NT | NT | NT |
| | Calcium metal | 7440-70-2 | NA | ug/L | **347,000 J1** | **149,000** | **70,900** | **262,000** | NT | NT | NT | NT |
| | Chromium | 7440-47-3 | 50 | ug/L | **10** | **21.1** | < 4 U | **212** | NT | NT | NT | NT |
| | Cobalt | 7440-48-4 | NA | ug/L | **6** | **5.6** | < 4 U | **22.3** | NT | NT | NT | NT |
| | Copper | 7440-50-8 | 200 | ug/L | **60** | **117** | **8 J** | **2,300** | NT | NT | NT | NT |
| | Iron | 7439-89-6 | 300 | ug/L | **15,800** | **13,700** | **1,300** | **81,100** | NT | NT | NT | NT |
| | Lead | 7439-92-1 | 25 | ug/L | **10** | **15.2** | < 5 U | **911** | NT | NT | NT | NT |
| | Magnesium | 7439-95-4 | 35,000 | ug/L | **60,000 J1** | **31,300** | **16,800** | **90,900** | NT | NT | NT | NT |
| | Manganese | 7439-96-5 | 300 | ug/L | **1,900** | **356** | **100** | **1,120** | NT | NT | NT | NT |
| | Mercury | 7439-97-6 | 0.7 | ug/L | < 0.2 U | < 0.2 U | < 0.2 U | < 0.2 U | NT | NT | NT | NT |
| | Nickel | 7440-02-0 | 100 | ug/L | **30** | **13.1** | < 10 U | **120** | NT | NT | NT | NT |
| | Potassium | 7440-09-7 | NA | ug/L | **6,200** | **8,360** | **700** | **13,600** | NT | NT | NT | NT |
| | Selenium | 7782-49-2 | 10 | ug/L | < 1 U | **1 UJ1** | < 0.02 U | **1 UJ1** | NT | NT | NT | NT |
| | Silver | 7440-22-4 | 50 | ug/L | < 3 U | < 3 U | < 3 U | **18.7** | NT | NT | NT | NT |
| | Sodium | 7440-23-5 | 20,000 | ug/L | **563,000 J1** | **56,100** | **68,600** | **7,180** | NT | NT | NT | NT |
| | Thallium | 7440-28-0 | 0.5 | ug/L | < 0.2 U | < 0.2 U | < 0.2 U | **0.44** | NT | NT | NT | NT |
| | Vanadium (fume or dust) | 7440-62-2 | NA | ug/L | **10** | **21.3** | < 5 U | **167** | NT | NT | NT | NT |
| | Zinc | 7440-66-6 | 2,000 | ug/L | **100** | **65.2** | **8 J** | **3,490** | NT | NT | NT | NT |
| Cyanide | Cyanide | 57-12-5 | 0.200 | mg/L | < 0.01 U | < 0.01 U | **0.01 UJ1** | < 0.01 U | NT | NT | NT | NT |
| Pesticides | Methoxychlor [1,1,1-Trichloro-2,2-Bis (p-methoxphenyl)-ethane] | 72-43-5 | 35 | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| | 4,4'-DDD | 72-54-8 | 0.3 | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| | 4,4'-DDE | 72-55-9 | 0.2 | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| | 4,4'-DDT | 50-29-3 | 0.2 | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| | Aldrin | 309-00-2 | ND | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| | alpha-BHC | 319-84-6 | 0.01 | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| | alpha-Chlordane | 5103-71-9 | NA | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| | beta-BHC | 319-85-7 | 0.04 | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| | Toxaphene [Camphechlor] | 8001-35-2 | 0.06 | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| | delta-BHC | 319-86-8 | 0.04 | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| | Dieldrin | 60-57-1 | 0.004 | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endosulfan I | 959-98-8 | NA | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endosulfan II | 33213-65-9 | NA | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endosulfan sulfate | 1031-07-8 | NA | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endrin | 72-20-8 | ND | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endrin Aldehyde | 7421-93-4 | 5 | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| | Endrin Ketone | 53494-70-5 | 5 | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| | gamma-BHC (Lindane) | 58-89-9 | 0.05 | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| | gamma-Chlordane | 5103-74-2 | NA | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| | Heptachlor | 76-44-8 | 0.04 | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| | Heptachlor epoxide | 1024-57-3 | 0.03 | ug/L | NT | NT | NT | NT | NT | NT | NT | NT |
| PCB's | Aroclor-1016 (PCB-1016) | 12674-11-2 | 0.09** | ug/L | < 0.472 U | < 0.47 U | < 0.472 U | NT | < 0.521 U | NT | NT | NT |
| | Aroclor-1221 (PCB-1221) | 11104-28-2 | 0.09** | ug/L | < 0.472 U | < 0.47 U | < 0.472 U | NT | < 0.521 U | NT | NT | NT |
| | Aroclor-1232 (PCB-1232) | 11141-16-5 | 0.09** | ug/L | < 0.472 U | < 0.47 U | < 0.472 U | NT | < 0.521 U | NT | NT | NT |
| | Aroclor-1242 (PCB-1242) | 53469-21-9 | 0.09** | ug/L | < 0.472 U | < 0.47 U | < 0.472 U | NT | < 0.521 U | NT | NT | NT |
| | Aroclor-1248 (PCB-1248) | 12672-29-6 | 0.09** | ug/L | < 0.472 U | < 0.47 U | < 0.472 U | NT | < 0.521 U | NT | NT | NT |
| | Aroclor-1254 (PCB-1254) | 11097-69-1 | 0.09** | ug/L | < 0.472 U | < 0.47 U | < 0.472 U | NT | < 0.521 U | NT | NT | NT |
| | Aroclor-1260 (PCB-1260) | 11096-82-5 | 0.09** | ug/L | < 0.472 U | < 0.47 U | < 0.472 U | NT | < 0.521 U | NT | NT | NT |

**Table 11 - Summary of Ground Water Analytical Results**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Action Level | Action Level Unit | RIZ-4-011509 | RIZ-7-100108 | RIZ-7-011909 | RIZ-9-100108 and RIZ-9-100208 | RIZ-9-011909 | TB-01-011509 | TB-01-011909 | TB-1-100108 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volitile Organic Compounds | 1,1,1-Trichloroethane | 71-55-6 | 5 | ug/L | **1.8** | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,1,2-Trichloroethane | 79-00-5 | 1 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,1-Dichloroethane | 75-34-3 | 5 | ug/L | **3.1** | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,1-Dichloroethylene (1,1-Dichloroethene) | 75-35-4 | 5 | ug/L | **6.8** | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2,4-Trichlorobenzene | 120-82-1 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2-Dibromo-3-Chloropropane (DBCP) | 96-12-8 | 0.04 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2-Dibromoethane (Ethylene Dibromide) | 106-93-4 | 0.0006 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2-Dichlorobenzene | 95-50-1 | 3 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2-Dichloroethane | 107-06-2 | 0.6 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2-Dichloropropane | 78-87-5 | 1 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,4-Dichlorobenzene | 106-46-7 | 3 | ug/L | < 1 U | < 1 U | < 1 U | **1 UJ1** | < 1 U | < 1 U | < 1 U | < 1 U |
| | 2-Butanone (Methyl Ethyl Ketone) | 78-93-3 | 50 | ug/L | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U |
| | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) | 108-10-1 | NA | ug/L | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U |
| | Acetone | 67-64-1 | 50 | ug/L | < 5 U | < 5 U | < 5 U | **6** | < 5 U | < 5 U | < 5 U | < 5 U |
| | Benzene | 71-43-2 | 1 | ug/L | **0.18 J** | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Bromodichloromethane | 75-27-4 | 50 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Bromomethane | 74-83-9 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Carbon disulfide | 75-15-0 | 60 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Carbon Tetrachloride | 56-23-5 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | CFC-11 (Freon 11, Trichlorofluoromethane) | 75-69-4 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | CFC-12 (Freon 12, Dichlorodifluoromethane) | 75-71-8 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chlorinated Fluorocarbon (Freon 113, 1,1,2-Trichloro-1,2,2-trifluoroethane) | 76-13-1 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chlorobenzene | 108-90-7 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chlorodibromomethane (Dibromochloromethane) | 124-48-1 | 50 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chloroethane | 75-00-3 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chloroform | 67-66-3 | 7 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chloromethane | 74-87-3 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | cis-1,2-Dichloroethene | 156-59-2 | 5 | ug/L | **260 D08** | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | cis-1,3-Dichloropropene | 10061-01-5 | 0.4 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Cyclohexane | 110-82-7 | NA | ug/L | < 1 U | **1** | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Dichloromethane (Methylene chloride) | 75-09-2 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Ethylbenzene | 100-41-4 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Isopropylbenzene | 98-82-8 | 5 | ug/L | < 1 U | **6** | **3.2** | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | M-Dichlorobenzene (1.3-Dichlorobenzene) | 541-73-1 | 3 | ug/L | < 1 U | **1 UJ1** | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Methyl acetate | 79-20-9 | NA | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Methyl n-butyl ketone (2-Hexanone) | 591-78-6 | 50 | ug/L | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U |
| | Methylbenzene (Toluene) | 108-88-3 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Methylcyclohexane | 108-87-2 | NA | ug/L | < 1 U | **0.7 J** | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Methyl Tert Butyl Ether (MTBE) | 1634-04-4 | 10 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Styrene (Monomer) | 100-42-5 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Tetrachloroethene | 127-18-4 | 5 | ug/L | **1.6** | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Total Xylenes | 1330-20-7 | 5 | ug/L | < 3 U | < 3 U | < 3 U | < 3 U | < 3 U | < 3 U | < 3 U | < 3 U |
| | trans-1,2-Dichloroethene | 156-60-5 | 5 | ug/L | **10** | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | trans-1,3-Dichloropropene | 10061-02-6 | 0.4 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Tribromomethane (Bromoform) | 75-25-2 | NA | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Trichloroethylene (Trichloroethene) | 79-01-6 | 5 | ug/L | **110 D08** | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Vinyl chloride | 75-01-4 | 2 | ug/L | **170 D08** | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| Semi-Volatile Organic Compounds | 1,2,4-Trichlorobenzene | 120-82-1 | 5 | ug/L | < 9.4 U | < 9 U | < 9.4 U | < 190 U | < 19 U, D02 | NT | NT | NT |
| | 1,2-Benzphenanthracene (Chrysene) | 218-01-9 | 0.002 | ug/L | < 4.7 U | < 5 U | < 4.7 U | **9 J** | **14 D02** | NT | NT | NT |
| | 1,2-dicholorobenzene | 95-50-1 | 3 | ug/L | < 9.4 U | < 9 U | < 9.4 U, B | < 190 U | < 19 U, B, D02 | NT | NT | NT |
| | 1,4-dichlorobenzene | 106-46-7 | 3 | ug/L | < 9.4 U | < 9 U | < 9.4 U, B | < 190 U | < 19 U, B, D02 | NT | NT | NT |
| | 2,2'-oxybis(1-Chloropropane) [bis(2-chloro-1-methyletheyl) ether] | 108-60-1 | NA | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | 2,4,5-Trichlorophenol | 95-95-4 | NA | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | 2,4,6-Trichlorophenol | 88-06-2 | NA | ug/L | < 4.7 U | < 5 U | < 4.7 U, L1 | < 95 U | < 9.5 U, L1, D02 | NT | NT | NT |
| | 2,4-Dichlorophenol | 120-83-2 | 5 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |

**Table 11 - Summary of Ground Water Analytical Results**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Action Level | Action Level Unit | RIZ-4-011509 | RIZ-7-100108 | RIZ-7-011909 | RIZ-9-100108 and RIZ-9-100208 | RIZ-9-011909 | TB-01-011509 | TB-01-011909 | TB-1-100108 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | 2,4-Dimethylphenol | 105-67-9 | 50 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | 2,4-Dinitrophenol | 51-28-5 | 10 | ug/L | < 9.4 U | < 9 U | < 9.4 U | < 190 U | < 19 U, D02 | NT | NT | NT |
| | 2,4-Dinitrotoluene | 121-14-2 | 5 | ug/L | < 4.7 U | < 5 U | < 4.7 U, L1 | < 95 U | < 9.5 U, L1, D02 | NT | NT | NT |
| | 2,6-Dinitrotoluene | 606-20-2 | 5 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | 2-Chloronaphthalene | 91-58-7 | 10 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | 2-Chlorophenol | 95-57-8 | NA | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | 2-Methylnaphthalene | 91-57-6 | NA | ug/L | **0.54 J** | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | 2-Methylphenol | 95-48-7 | NA | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | 2-Nitroaniline | 88-74-4 | 5 | ug/L | < 9.4 U | < 9 U | < 9.4 U | < 190 U | < 19 U, D02 | NT | NT | NT |
| | 2-Nitrophenol | 88-75-5 | 5 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | 3,3'-Dichlorobenzidine | 91-94-1 | 5 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | 3,5,5-Trimethyl-2-cyclohexene-1-one (Isophorone) | 78-59-1 | 50 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | 3-Nitroaniline | 99-09-2 | 5 | ug/L | < 9.4 U | < 9 U | < 9.4 U | < 190 U | < 19 U, D02 | NT | NT | NT |
| | 4,6-Dinitro-2-methylphenol | 534-52-1 | NA | ug/L | < 9.4 U | < 9 U | < 9.4 U | < 190 U | < 19 U, D02 | NT | NT | NT |
| | 4-Bromophenyl phenyl ether | 101-55-3 | NA | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | 4-Chloro-3-methylphenol | 59-50-7 | NA | ug/L | < 4.7 U | < 5 U | < 4.7 U, L1 | < 95 U | < 9.5 U, L1, D02 | NT | NT | NT |
| | 4-Chlorophenyl phenyl ether | 7005-72-3 | NA | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | 4-Methylphenol | 106-44-5 | NA | ug/L | < 4.7 U | < 5 U | < 4.7 U, L1 | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | 4-Nitrophenol | 100-02-7 | NA | ug/L | < 9.4 U | < 9 U | < 9.4 U | < 190 U | < 19 U, D02 | NT | NT | NT |
| | Acenaphthene | 83-32-9 | 20 | ug/L | < 4.7 U | **2 J** | **2.7 J** | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | Acenaphthylene | 208-96-8 | NA | ug/L | < 4.7 U | **0.5 J** | **0.68 J** | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | Anthracene | 120-12-7 | 50 | ug/L | < 4.7 U | **0.3 J** | **0.3 J** | < 95 U | **1.1 J, D02** | NT | NT | NT |
| | Benzo(a)anthracene | 56-55-3 | 0.002 | ug/L | < 4.7 U | < 5 U | < 4.7 U | **7 J** | **10 D02** | NT | NT | NT |
| | Benzo(a)pyrene | 50-32-8 | 0 | ug/L | < 4.7 U | < 5 U | < 4.7 U, L1 | **9 J** | **13 J1** | NT | NT | NT |
| | Benzo(b)fluoranthene | 205-99-2 | 0.002 | ug/L | < 4.7 U | < 5 U | < 4.7 U | **17 J** | **22 D02** | NT | NT | NT |
| | Benzo(ghi)perylene | 191-24-2 | NA | ug/L | < 4.7 U | < 5 U | < 4.7 U | **13 J** | **15 D02** | NT | NT | NT |
| | Benzo(k)fluoranthene | 207-08-9 | 0.002 | ug/L | < 4.7 U | < 5 U | < 4.7 U | **7 J** | **6 J, D02** | NT | NT | NT |
| | Benzyl alcohol | 100-51-6 | NA | ug/L | < 19 U | < 19 U | < 19 U | < 380 U | < 38 U, D02 | NT | NT | NT |
| | Benzyl butyl phthalate (Butyl benzyl phthalate) | 85-68-7 | 50 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | Bis(2-chloroethoxy) methane | 111-91-1 | 5 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | Bis(2-chloroethyl) ether | 111-44-4 | 1 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | Bis(2-ethylhexyl) phthalate | 117-81-7 | 5 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | **12, D02** | NT | NT | NT |
| | Dibenzo(a,h)anthracene | 53-70-3 | NA | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | **3.6 J, D02** | NT | NT | NT |
| | Dibenzofuran | 132-64-9 | NA | ug/L | < 4.7 U | **2 J** | **2.6 J** | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | Diethyl phthalate | 84-66-2 | 50 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | Dimethyl phthalate | 131-11-3 | 50 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | Di-n-butyl phthalate | 84-74-2 | 50 | ug/L | 0.5 U1 | **0.4 BJ** | **0.57 J** | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | Di-n-octyl phthalate | 117-84-0 | 50 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | **3.3 J, D02** | NT | NT | NT |
| | Fluoranthene | 206-44-0 | 50 | ug/L | < 4.7 U | < 5 U | < 4.7 U | **13 J** | **25, D02** | NT | NT | NT |
| | Fluorene | 86-73-7 | 50 | ug/L | < 4.7 U | **3 J** | **3.8 J** | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | Hexachloro-1,3-Butadiene (Hexachlorobutadiene) | 87-68-3 | 0.5 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | Hexachlorobenzene | 118-74-1 | 0.04 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | Hexachlorocyclopentadiene | 77-47-4 | 5 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | Hexachloroethane | 67-72-1 | 5 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | Indeno(1,2,3-cd)pyrene | 193-39-5 | 0.002 | ug/L | < 4.7 U | < 5 U | < 4.7 U | **9 J** | **14 D02** | NT | NT | NT |
| | M-dichlorobenzene | 541-73-1 | 3 | ug/L | < 9.4 U | < 9 U | < 9.4 U, B | < 190 U | < 19 U, B, D02 | NT | NT | NT |
| | Methanamine, N-methyl-n-nitroso (N-Nitrosodimethylamine) | 62-75-9 | NA | ug/L | < 4.7 U | < 9 U | < 9.4 U | < 190 U | < 19 U, D02 | NT | NT | NT |
| | Naphthalene | 91-20-3 | 10 | ug/L | < 4.7 U | < 5 U | 0.65 U1 | < 95 U | < 9.5 U, D02, B | NT | NT | NT |
| | Nitrobenzene | 98-95-3 | 0.4 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | N-Nitrosodi-n-propylamine (N-Nitroso-Di-n-propylamine) | 621-64-7 | NA | ug/L | < 9.4 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | N-Nitrosodiphenylamine | 86-30-6 | 50 | ug/L | < 4.7 U | **0.6 J** | **1.4 J** | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | P-Chloroaniline (4-Chloraniline) | 106-47-8 | 5 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | Pentachlorophenol | 87-86-5 | 1 | ug/L | < 9.4 U | < 9 U | < 9.4 U | < 190 U | < 19 U, D02 | NT | NT | NT |
| | Phenanthrene | 85-01-8 | 50 | ug/L | < 4.7 U | **1 J** | **2.0 J** | **5 J** | **9.1 J, D02** | NT | NT | NT |
| | Phenol | 108-95-2 | 1 | ug/L | < 4.7 U | < 5 U | < 4.7 U | < 95 U | < 9.5 U, D02 | NT | NT | NT |
| | P-Nitroaniline (4-Nitroaniline) | 100-01-6 | 5 | ug/L | < 9.4 U | < 9 U | < 9.4 U, L1 | < 190 U | < 19 U, L1, D02 | NT | NT | NT |
| | Pyrene | 129-00-0 | 50 | ug/L | < 4.7 U | < 5 U | < 4.7 U | **10 J** | **21 D02** | NT | NT | NT |

**Table 11 - Summary of Ground Water Analytical Results**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Action Level | Action Level Unit | TB--100208 | Trip Blank | Trip-1-093008 | Trip-2-093008 | Trip-3-093008 |
|---|---|---|---|---|---|---|---|---|---|
| Metals | Aluminum (fume or dust) | 7429-90-5 | NA | ug/L | NT | NT | NT | NT | NT |
| | Antimony | 7440-36-0 | 3 | ug/L | NT | NT | NT | NT | NT |
| | Arsenic | 7440-38-2 | 25 | ug/L | NT | NT | NT | NT | NT |
| | Barium | 7440-39-3 | 1,000 | ug/L | NT | NT | NT | NT | NT |
| | Beryllium | 7440-41-7 | 3 | ug/L | NT | NT | NT | NT | NT |
| | Cadmium | 7440-43-9 | 5 | ug/L | NT | NT | NT | NT | NT |
| | Calcium metal | 7440-70-2 | NA | ug/L | NT | NT | NT | NT | NT |
| | Chromium | 7440-47-3 | 50 | ug/L | NT | NT | NT | NT | NT |
| | Cobalt | 7440-48-4 | NA | ug/L | NT | NT | NT | NT | NT |
| | Copper | 7440-50-8 | 200 | ug/L | NT | NT | NT | NT | NT |
| | Iron | 7439-89-6 | 300 | ug/L | NT | NT | NT | NT | NT |
| | Lead | 7439-92-1 | 25 | ug/L | NT | NT | NT | NT | NT |
| | Magnesium | 7439-95-4 | 35,000 | ug/L | NT | NT | NT | NT | NT |
| | Manganese | 7439-96-5 | 300 | ug/L | NT | NT | NT | NT | NT |
| | Mercury | 7439-97-6 | 0.7 | ug/L | NT | NT | NT | NT | NT |
| | Nickel | 7440-02-0 | 100 | ug/L | NT | NT | NT | NT | NT |
| | Potassium | 7440-09-7 | NA | ug/L | NT | NT | NT | NT | NT |
| | Selenium | 7782-49-2 | 10 | ug/L | NT | NT | NT | NT | NT |
| | Silver | 7440-22-4 | 50 | ug/L | NT | NT | NT | NT | NT |
| | Sodium | 7440-23-5 | 20,000 | ug/L | NT | NT | NT | NT | NT |
| | Thallium | 7440-28-0 | 0.5 | ug/L | NT | NT | NT | NT | NT |
| | Vanadium (fume or dust) | 7440-62-2 | NA | ug/L | NT | NT | NT | NT | NT |
| | Zinc | 7440-66-6 | 2,000 | ug/L | NT | NT | NT | NT | NT |
| Cyanide | Cyanide | 57-12-5 | 0.200 | mg/L | NT | NT | NT | NT | NT |
| Pesticides | Methoxychlor [1,1,1-Trichloro-2,2-Bis (p-methoxphenyl)-ethane] | 72-43-5 | 35 | ug/L | NT | NT | NT | NT | NT |
| | 4,4'-DDD | 72-54-8 | 0.3 | ug/L | NT | NT | NT | NT | NT |
| | 4,4'-DDE | 72-55-9 | 0.2 | ug/L | NT | NT | NT | NT | NT |
| | 4,4'-DDT | 50-29-3 | 0.2 | ug/L | NT | NT | NT | NT | NT |
| | Aldrin | 309-00-2 | ND | ug/L | NT | NT | NT | NT | NT |
| | alpha-BHC | 319-84-6 | 0.01 | ug/L | NT | NT | NT | NT | NT |
| | alpha-Chlordane | 5103-71-9 | NA | ug/L | NT | NT | NT | NT | NT |
| | beta-BHC | 319-85-7 | 0.04 | ug/L | NT | NT | NT | NT | NT |
| | Toxaphene [Camphechlor] | 8001-35-2 | 0.06 | ug/L | NT | NT | NT | NT | NT |
| | delta-BHC | 319-86-8 | 0.04 | ug/L | NT | NT | NT | NT | NT |
| | Dieldrin | 60-57-1 | 0.004 | ug/L | NT | NT | NT | NT | NT |
| | Endosulfan I | 959-98-8 | NA | ug/L | NT | NT | NT | NT | NT |
| | Endosulfan II | 33213-65-9 | NA | ug/L | NT | NT | NT | NT | NT |
| | Endosulfan sulfate | 1031-07-8 | NA | ug/L | NT | NT | NT | NT | NT |
| | Endrin | 72-20-8 | ND | ug/L | NT | NT | NT | NT | NT |
| | Endrin Aldehyde | 7421-93-4 | 5 | ug/L | NT | NT | NT | NT | NT |
| | Endrin Ketone | 53494-70-5 | 5 | ug/L | NT | NT | NT | NT | NT |
| | gamma-BHC (Lindane) | 58-89-9 | 0.05 | ug/L | NT | NT | NT | NT | NT |
| | gamma-Chlordane | 5103-74-2 | NA | ug/L | NT | NT | NT | NT | NT |
| | Heptachlor | 76-44-8 | 0.04 | ug/L | NT | NT | NT | NT | NT |
| | Heptachlor epoxide | 1024-57-3 | 0.03 | ug/L | NT | NT | NT | NT | NT |
| PCB's | Aroclor-1016 (PCB-1016) | 12674-11-2 | 0.09** | ug/L | NT | NT | NT | NT | NT |
| | Aroclor-1221 (PCB-1221) | 11104-28-2 | 0.09** | ug/L | NT | NT | NT | NT | NT |
| | Aroclor-1232 (PCB-1232) | 11141-16-5 | 0.09** | ug/L | NT | NT | NT | NT | NT |
| | Aroclor-1242 (PCB-1242) | 53469-21-9 | 0.09** | ug/L | NT | NT | NT | NT | NT |
| | Aroclor-1248 (PCB-1248) | 12672-29-6 | 0.09** | ug/L | NT | NT | NT | NT | NT |
| | Aroclor-1254 (PCB-1254) | 11097-69-1 | 0.09** | ug/L | NT | NT | NT | NT | NT |
| | Aroclor-1260 (PCB-1260) | 11096-82-5 | 0.09** | ug/L | NT | NT | NT | NT | NT |

**Table 11 - Summary of Ground Water Analytical Results**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Action Level | Action Level Unit | TB--100208 | Trip Blank | Trip-1-093008 | Trip-2-093008 | Trip-3-093008 |
|---|---|---|---|---|---|---|---|---|---|
| Volitile Organic Compounds | 1,1,1-Trichloroethane | 71-55-6 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,1,2-Trichloroethane | 79-00-5 | 1 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,1-Dichloroethane | 75-34-3 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,1-Dichloroethylene (1,1-Dichloroethene) | 75-35-4 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2,4-Trichlorobenzene | 120-82-1 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2-Dibromo-3-Chloropropane (DBCP) | 96-12-8 | 0.04 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2-Dibromoethane (Ethylene Dibromide) | 106-93-4 | 0.0006 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2-Dichlorobenzene | 95-50-1 | 3 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2-Dichloroethane | 107-06-2 | 0.6 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,2-Dichloropropane | 78-87-5 | 1 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 1,4-Dichlorobenzene | 106-46-7 | 3 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | 2-Butanone (Methyl Ethyl Ketone) | 78-93-3 | 50 | ug/L | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U |
| | 4-Methyl-2-Pentanone (Methyl Isobutyl Ketone) | 108-10-1 | NA | ug/L | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U |
| | Acetone | 67-64-1 | 50 | ug/L | < 5 U | < 5 U | < 5 U | **2 J** | **4 J** |
| | Benzene | 71-43-2 | 1 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Bromodichloromethane | 75-27-4 | 50 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Bromomethane | 74-83-9 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Carbon disulfide | 75-15-0 | 60 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Carbon Tetrachloride | 56-23-5 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | CFC-11 (Freon 11, Trichlorofluoromethane) | 75-69-4 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | CFC-12 (Freon 12, Dichlorodifluoromethane) | 75-71-8 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chlorinated Fluorocarbon (Freon 113, 1,1,2-Trichloro-1,2,2-trifluoroethane) | 76-13-1 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chlorobenzene | 108-90-7 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chlorodibromomethane (Dibromochloromethane) | 124-48-1 | 50 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chloroethane | 75-00-3 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chloroform | 67-66-3 | 7 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Chloromethane | 74-87-3 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | cis-1,2-Dichloroethene | 156-59-2 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | cis-1,3-Dichloropropene | 10061-01-5 | 0.4 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Cyclohexane | 110-82-7 | NA | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Dichloromethane (Methylene chloride) | 75-09-2 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | **0.6 J** |
| | Ethylbenzene | 100-41-4 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Isopropylbenzene | 98-82-8 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | M-Dichlorobenzene (1.3-Dichlorobenzene) | 541-73-1 | 3 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Methyl acetate | 79-20-9 | NA | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Methyl n-butyl ketone (2-Hexanone) | 591-78-6 | 50 | ug/L | < 5 U | < 5 U | < 5 U | < 5 U | < 5 U |
| | Methylbenzene (Toluene) | 108-88-3 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Methylcyclohexane | 108-87-2 | NA | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Methyl Tert Butyl Ether (MTBE) | 1634-04-4 | NA | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Styrene (Monomer) | 100-42-5 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Tetrachloroethene | 127-18-4 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Total Xylenes | 1330-20-7 | 5 | ug/L | < 3 U | < 3 U | < 3 U | < 3 U | < 3 U |
| | trans-1,2-Dichloroethene | 156-60-5 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | trans-1,3-Dichloropropene | 10061-02-6 | 0.4 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Tribromomethane (Bromoform) | 75-25-2 | NA | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Trichloroethylene (Trichloroethene) | 79-01-6 | 5 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| | Vinyl chloride | 75-01-4 | 2 | ug/L | < 1 U | < 1 U | < 1 U | < 1 U | < 1 U |
| Semi-Volatile Organic Compounds | 1,2,4-Trichlorobenzene | 120-82-1 | 5 | ug/L | NT | NT | NT | NT | NT |
| | 1,2-Benzphenanthracene (Chrysene) | 218-01-9 | 0.002 | ug/L | NT | NT | NT | NT | NT |
| | 1,2-dicholorobenzene | 95-50-1 | 3 | ug/L | NT | NT | NT | NT | NT |
| | 1,4-dichlorobenzene | 106-46-7 | 3 | ug/L | NT | NT | NT | NT | NT |
| | 2,2'-oxybis(1-Chloropropane) [bis(2-chloro-1-methyletheyl) ether] | 108-60-1 | NA | ug/L | NT | NT | NT | NT | NT |
| | 2,4,5-Trichlorophenol | 95-95-4 | NA | ug/L | NT | NT | NT | NT | NT |
| | 2,4,6-Trichlorophenol | 88-06-2 | NA | ug/L | NT | NT | NT | NT | NT |
| | 2,4-Dichlorophenol | 120-83-2 | 5 | ug/L | NT | NT | NT | NT | NT |

**Table 11 - Summary of Ground Water Analytical Results**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| | Chemical Name | Cas No. | Action Level | Action Level Unit | TB--100208 | Trip Blank | Trip-1-093008 | Trip-2-093008 | Trip-3-093008 |
|---|---|---|---|---|---|---|---|---|---|
| Semi-Volatile Organic Compounds | 2,4-Dimethylphenol | 105-67-9 | 50 | ug/L | NT | NT | NT | NT | NT |
| | 2,4-Dinitrophenol | 51-28-5 | 10 | ug/L | NT | NT | NT | NT | NT |
| | 2,4-Dinitrotoluene | 121-14-2 | 5 | ug/L | NT | NT | NT | NT | NT |
| | 2,6-Dinitrotoluene | 606-20-2 | 5 | ug/L | NT | NT | NT | NT | NT |
| | 2-Chloronaphthalene | 91-58-7 | 10 | ug/L | NT | NT | NT | NT | NT |
| | 2-Chlorophenol | 95-57-8 | NA | ug/L | NT | NT | NT | NT | NT |
| | 2-Methylnaphthalene | 91-57-6 | NA | ug/L | NT | NT | NT | NT | NT |
| | 2-Methylphenol | 95-48-7 | NA | ug/L | NT | NT | NT | NT | NT |
| | 2-Nitroaniline | 88-74-4 | 5 | ug/L | NT | NT | NT | NT | NT |
| | 2-Nitrophenol | 88-75-5 | 5 | ug/L | NT | NT | NT | NT | NT |
| | 3,3'-Dichlorobenzidine | 91-94-1 | 5 | ug/L | NT | NT | NT | NT | NT |
| | 3,5,5-Trimethyl-2-cyclohexene-1-one (Isophorone) | 78-59-1 | 50 | ug/L | NT | NT | NT | NT | NT |
| | 3-Nitroaniline | 99-09-2 | 5 | ug/L | NT | NT | NT | NT | NT |
| | 4,6-Dinitro-2-methylphenol | 534-52-1 | NA | ug/L | NT | NT | NT | NT | NT |
| | 4-Bromophenyl phenyl ether | 101-55-3 | NA | ug/L | NT | NT | NT | NT | NT |
| | 4-Chloro-3-methylphenol | 59-50-7 | NA | ug/L | NT | NT | NT | NT | NT |
| | 4-Chlorophenyl phenyl ether | 7005-72-3 | NA | ug/L | NT | NT | NT | NT | NT |
| | 4-Methylphenol | 106-44-5 | NA | ug/L | NT | NT | NT | NT | NT |
| | 4-Nitrophenol | 100-02-7 | NA | ug/L | NT | NT | NT | NT | NT |
| | Acenaphthene | 83-32-9 | 20 | ug/L | NT | NT | NT | NT | NT |
| | Acenaphthylene | 208-96-8 | NA | ug/L | NT | NT | NT | NT | NT |
| | Anthracene | 120-12-7 | 50 | ug/L | NT | NT | NT | NT | NT |
| | Benzo(a)anthracene | 56-55-3 | 0.002 | ug/L | NT | NT | NT | NT | NT |
| | Benzo(a)pyrene | 50-32-8 | 0 | ug/L | NT | NT | NT | NT | NT |
| | Benzo(b)fluoranthene | 205-99-2 | 0.002 | ug/L | NT | NT | NT | NT | NT |
| | Benzo(ghi)perylene | 191-24-2 | NA | ug/L | NT | NT | NT | NT | NT |
| | Benzo(k)fluoranthene | 207-08-9 | 0.002 | ug/L | NT | NT | NT | NT | NT |
| | Benzyl alcohol | 100-51-6 | NA | ug/L | NT | NT | NT | NT | NT |
| | Benzyl butyl phthalate (Butyl benzyl phthalate) | 85-68-7 | 50 | ug/L | NT | NT | NT | NT | NT |
| | Bis(2-chloroethoxy) methane | 111-91-1 | 5 | ug/L | NT | NT | NT | NT | NT |
| | Bis(2-chloroethyl) ether | 111-44-4 | 1 | ug/L | NT | NT | NT | NT | NT |
| | Bis(2-ethylhexyl) phthalate | 117-81-7 | 5 | ug/L | NT | NT | NT | NT | NT |
| | Dibenzo(a,h)anthracene | 53-70-3 | NA | ug/L | NT | NT | NT | NT | NT |
| | Dibenzofuran | 132-64-9 | NA | ug/L | NT | NT | NT | NT | NT |
| | Diethyl phthalate | 84-66-2 | 50 | ug/L | NT | NT | NT | NT | NT |
| | Dimethyl phthalate | 131-11-3 | 50 | ug/L | NT | NT | NT | NT | NT |
| | Di-n-butyl phthalate | 84-74-2 | 50 | ug/L | NT | NT | NT | NT | NT |
| | Di-n-octyl phthalate | 117-84-0 | 50 | ug/L | NT | NT | NT | NT | NT |
| | Fluoranthene | 206-44-0 | 50 | ug/L | NT | NT | NT | NT | NT |
| | Fluorene | 86-73-7 | 50 | ug/L | NT | NT | NT | NT | NT |
| | Hexachloro-1,3-Butadiene (Hexachlorobutadiene) | 87-68-3 | 0.5 | ug/L | NT | NT | NT | NT | NT |
| | Hexachlorobenzene | 118-74-1 | 0.04 | ug/L | NT | NT | NT | NT | NT |
| | Hexachlorocyclopentadiene | 77-47-4 | 5 | ug/L | NT | NT | NT | NT | NT |
| | Hexachloroethane | 67-72-1 | 5 | ug/L | NT | NT | NT | NT | NT |
| | Indeno(1,2,3-cd)pyrene | 193-39-5 | 0.002 | ug/L | NT | NT | NT | NT | NT |
| | M-dichlorobenzene | 541-73-1 | 3 | ug/L | NT | NT | NT | NT | NT |
| | Methanamine, N-methyl-n-nitroso (N-Nitrosodimethylamine) | 62-75-9 | NA | ug/L | NT | NT | NT | NT | NT |
| | Naphthalene | 91-20-3 | 10 | ug/L | NT | NT | NT | NT | NT |
| | Nitrobenzene | 98-95-3 | 0.4 | ug/L | NT | NT | NT | NT | NT |
| | N-Nitrosodi-n-propylamine (N-Nitroso-Di-n-propylamine) | 621-64-7 | NA | ug/L | NT | NT | NT | NT | NT |
| | N-Nitrosodiphenylamine | 86-30-6 | 50 | ug/L | NT | NT | NT | NT | NT |
| | P-Chloroaniline (4-Chloraniline) | 106-47-8 | 5 | ug/L | NT | NT | NT | NT | NT |
| | Pentachlorophenol | 87-86-5 | 1 | ug/L | NT | NT | NT | NT | NT |
| | Phenanthrene | 85-01-8 | 50 | ug/L | NT | NT | NT | NT | NT |
| | Phenol | 108-95-2 | 1 | ug/L | NT | NT | NT | NT | NT |
| | P-Nitroaniline (4-Nitroaniline) | 100-01-6 | 5 | ug/L | NT | NT | NT | NT | NT |
| | Pyrene | 129-00-0 | 50 | ug/L | NT | NT | NT | NT | NT |

**Table 11 Endnotes**
**Summary of Ground Water Sample Analytical Results Compared to NYSDEC TOGS 1.1.1 Standards and Guidance Values**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

Notes:

- Action Level: Class GA ground water standards and guidance values referenced in Table 1 of the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 document titled *Ambient Water Quality Standard and Guidance Values and Groundwater Effluent Limitations* (TOGS 1.1.1) dated June 1998 (as amended by addendum dated April 2000 and June 2004).
- Bold faced type indicates a detection of the compound
- Shaded cells indicate an exceedance of TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values.
- mg/L milligrams per liter (parts per million)
- µg/L micrograms per liter (parts per billion)
- NA No Standard or Guidance Value available
- NT Not tested
- ** Applies to the sum of Polychlorinated biphenyls.

Qualifiers

| | |
|---|---|
| no qualifier | The compound was positively identified at the associated numerical value which is the concentration of the compound in the sample. |
| N | Test America Qualifier – indicates presumptive evidence of a compound. |
| E | Test America Qualifier – indicates a value estimated or not reported due to the presence of interferences. |
| B | Test America Qualifier – Analyte found in blank and sample. |
| CF6 | Test America Qualifier – Results confirmed by reanalysis. |
| D | Test America Qualifier – This flag indentifies all compounds identified in an analysis at the secondary dilution factor. |
| D02 | Test America Qualifier – Dilution required due to sample matrix effects. |
| D08 | Test America Qualifier – Dilution required due to high concentration of analytes. |
| J | Test America Qualifier – The value was designated as estimated as a result of the data validation criteria. Also used to indicate tentatively identified compounds (TICs) or when an organic compound is present, but the concentration is less than the Contract Required Quantitation Limit (CRQL). The value is usable as an estimated result. Estimated value; results may be biased. |

| | |
|---|---|
| L1 | Test America Qualifier – Laboratory control sample and/or laboratory control sample duplicate recovery was above acceptable limits. |
| MPS | Test America Qualifier – The post spike and/or serial dilution were outside the acceptable limits due to sample matrix interference. See blank spike (LCS). |
| P-HS | Test America Qualifier – Sample container contained headspace. |
| U | Test America Qualifier – Compound analyzed for but not detected above the reported detection limit. The associated numerical value is the detection limit. The value is usable as a non-detect at the detection limit. |
| J1 | Environmental Data Validation Qualifier – Validator assigned qualifier as J, O'Brien & Gere changed qualifier designation to J1 to differentiate from Test America qualifier. Data are to be used cautiously as they are estimated data with some quality control issues. |
| R1 | Environmental Data Validation Qualifier – Validator assigned qualifier as R, O'Brien & Gere changed qualifier designation to R1 to differentiate from Test America qualifier. Data are not usable due to severe quality control issues. |
| UJ1 | Environmental Data Validation Qualifier – Validator assigned qualifier as UJ, O'Brien & Gere changed qualifier designation to UJ1 to differentiate from Test America qualifier. Data are to be used cautiously as they are estimated data with some quality control issues. |
| U1 | Environmental Data Validation Qualifier – Validator assigned qualifier as U, O'Brien & Gere changed qualifier designation to U1 to differentiate from Test America qualifier. Data are useable as a non-detect as there are no quality control issues. |

Table 12 - Summary of Maximum Detected Ground Water Concentrations of Three Chlorinated Solvents
City of Rochester
24 Seneca Avenue Site
Rochester, New York
ERP Site No. E-828132

| Monitoring Well | Contaminants detected at concentrations above TOGS 1.1.1 ground water standards and guidance values | | | | | |
|---|---|---|---|---|---|---|
| | cis-1,2-dichloroethene (ug/L) | TOGs 1.1.1 (ug/L) | trichloroethene | TOGs 1.1.1 (ug/L) | vinyl chloride | TOGs 1.1.1 (ug/L) |
| **MW-1** | 27 | 5 | 34 | 5 | ND | 2 |
| **MW-4** | 110 | 5 | 14 | 5 | 59 | 2 |
| **MW-5** | 310 | 5 | 5 | 5 | 31 | 2 |
| **MW-6** | 5 | 5 | 2 | 5 | 1 | 2 |
| **MW-7** | 2,000 | 5 | 2,800 | 5 | 4 | 2 |
| **MW-8** | 270 | 5 | 81 | 5 | 20 | 2 |
| **MW-9** | 1,200 | 5 | 3,800 | 5 | 13 | 2 |
| **OW-101** | 590 | 5 | 81 | 5 | 99 | 2 |
| **RIZ-4** | 260 | 5 | 110 | 5 | 260 | 2 |

**Notes**
ND = Not Detected
Shaded cells indicate locations where two highest Site concentrations were detected

**Table 13 - Summary of Soil Gas Sample Analytical Results**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

| Compound | Soil Vapor SV-1-24SA-012009 (µg/m$^3$) 1/20/2009 | Soil Vapor SV-2-24SA-012109 (µg/m$^3$) 1/21/2009 | Soil Vapor SV-3-24SA-012009 (µg/m$^3$) 1/20/2009 | Soil Vapor SV-4-24SA-012109 (µg/m$^3$) 1/21/2009 | Soil Vapor SV-5-24SA-012009 (µg/m$^3$) 1/20/2009 | Soil Vapor SV-6-24SA-012009 (µg/m$^3$) 1/20/2009 | Soil Vapor SV-7-24SA-012009 (µg/m$^3$) 1/20/2009 |
|---|---|---|---|---|---|---|---|
| Naphthalene | ND | ND | ND | ND | ND | ND | ND |
| Dichlorodifluoromethane | ND | ND | ND | **3.5 J** | ND | ND | ND |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | ND | ND | ND | ND | ND | ND |
| Chloromethane | ND | ND | ND | ND | ND | ND | ND |
| Vinyl chloride | ND | ND | ND | ND | ND | ND | ND |
| Bromomethane | ND | ND | ND | ND | ND | ND | ND |
| Chloroethane | ND | ND | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | ND | ND | ND | **2.8 J** | ND | ND | ND |
| 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | ND | ND | **7.3 J** | ND | ND | ND |
| Methylene chloride | **11 J B** | **9.4 J B** | **7.1 J B** | **5.8 J B** | **30 B** | **40 B** | **27 B** |
| 1,1-Dichloroethane | ND | ND | ND | ND | ND | ND | ND |
| cis-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND |
| Chloroform | ND | ND | ND | **27** | **3.6 J** | ND | ND |
| 1,1,1-Trichloroethane | ND | ND | ND | **5.0 J** | ND | ND | ND |
| Carbon tetrachloride | ND | ND | ND | ND | ND | ND | ND |
| Benzene | **3.5 J** | **5.5 J** | ND | ND | **12** | **9.2** | **8.0** |
| 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | ND |
| Trichloroethene | **11 UJ1** | **8.4 J** | **11 UJ1** | **32 J1** | **22 J1** | **11 UJ1** | **13 J1** |
| 1,2-Dichlorpropane | ND | ND | ND | ND | ND | ND | ND |
| cis-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND |
| Toluene | **11** | **15** | **2.2 J** | **3.3 J** | **270** | **56** | **56** |
| trans-1,3-Dichloropropene | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND |
| Tetrachloroethene | ND | ND | ND | **4.8 J** | ND | ND | **7.3 J** |
| 1,2-Dibromoethane (EDB) | ND | ND | ND | ND | ND | ND | ND |
| Chlorobenzene | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | ND | ND | ND | ND | **50** | **5.6 J** | **5.6 J** |
| m-Xylene & p-Xylene | **6.3 J** | **8.6** | ND | ND | **190** | **17** | **23** |
| o-Xylene | ND | ND | ND | ND | **47** | **3.9 J** | **5.6 J** |
| Styrene | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | ND | ND | ND | ND | **11** | ND | ND |
| 1,2,4-Trimethylbenzene | ND | ND | ND | ND | **23** | ND | **4.6 J** |
| 1,3-Dichlorobenzene | ND | ND | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | ND | ND | ND | ND | ND | ND | ND |
| Benzyl chloride | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | ND | ND | ND |
| Hexachlorobutadiene | ND | ND | ND | ND | ND | ND | ND |

**Notes**
See Endnotes for Table 13

**Table 13 Endnotes**
**Summary of Soil Gas Sample Analytical Results**
**City of Rochester**
**24 Seneca Avenue Site**
**Rochester, New York**
**ERP Site No. E-828132**

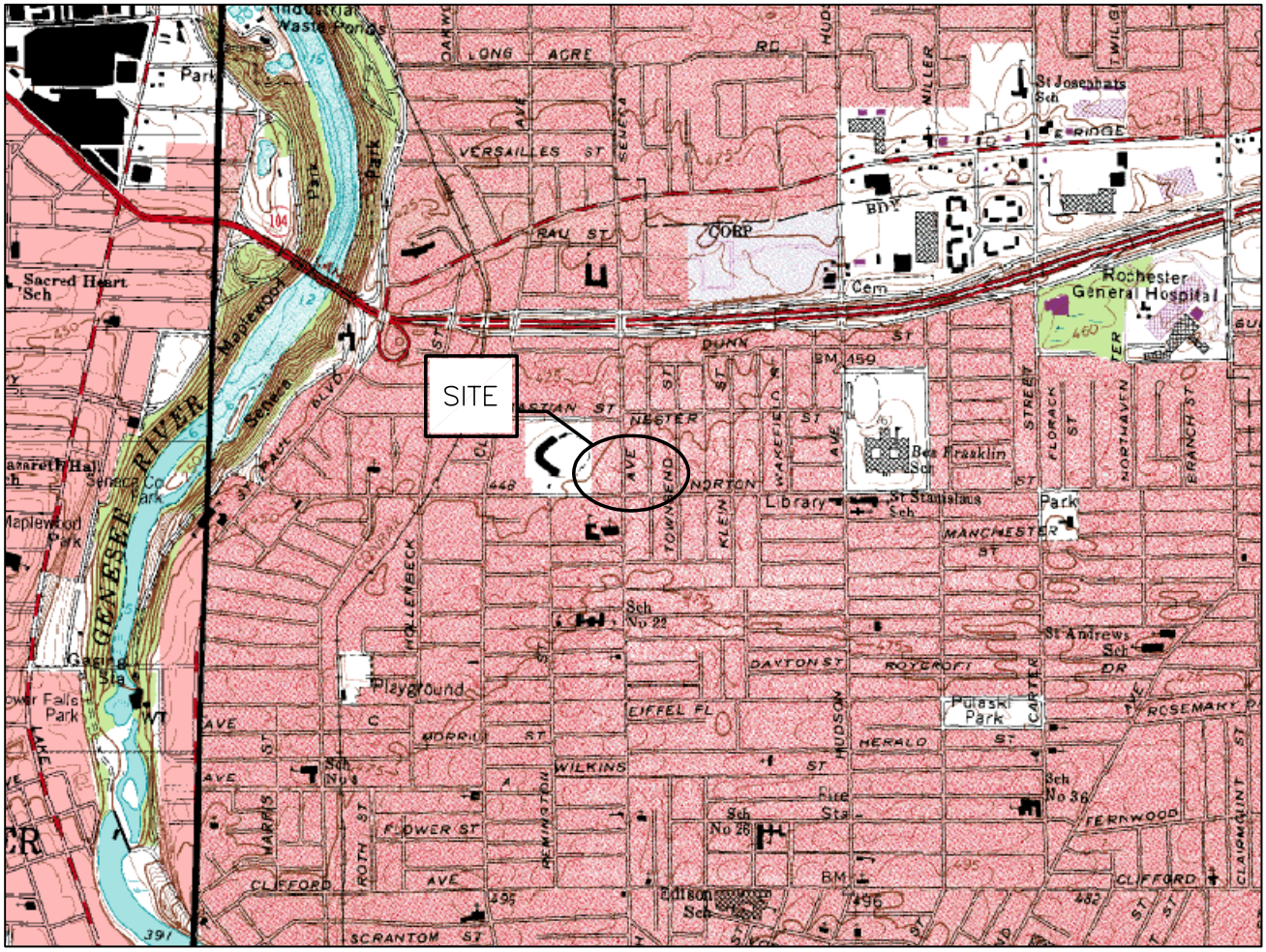
Notes:

- Bold faced type indicates a detection of the compound
- Results are reported in micrograms per cubic meter ($\mu g/m^3$).

Qualifiers

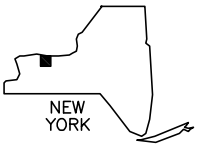
| | |
|---|---|
| no qualifier | The compound was positively identified at the associated numerical value which is the concentration of the compound in the sample. |
| B | Test America Qualifier – Method blank contamination. The associated method blank contains the target analyte at a reportable level. |
| J | Test America Qualifier – The value was designated as estimated as a result of the data validation criteria. Also used to indicate tentatively identified compounds (TICs) or when an organic compound is present, but the concentration is less than the Contract Required Quantitation Limit (CRQL). The value is usable as an estimated result. Estimated value; results may be biased. |
| ND | Test America Qualifier – Compound analyzed for but not detected above the reported detection limit. The associated numerical value is the detection limit. The value is usable as a non-detect at the detection limit. |
| J1 | Environmental Data Validation Qualifier – Validator assigned qualifier as J, O'Brien & Gere changed qualifier designation to J1 to differentiate from Test America qualifier. Data are to be used cautiously as they are estimated data with some quality control issues. |
| UJ1 | Environmental Data Validation Qualifier – Validator assigned qualifier as UJ, O'Brien & Gere changed qualifier designation to UJ1 to differentiate from Test America qualifier. Data are to be used cautiously as they are estimated data with some quality control issues. |

# FIGURES




Not to Scale

Map Source: U.S.G.S. Quadrangle, Rochester East




QUADRANGLE LOCATION

# SITE LOCATION MAP
# 24 SENECA AVENUE
# CITY OF ROCHESTER
# MONROE COUNTY, NEW YORK

FILE NO. 11862.41933
APRIL 2009

O'BRIEN & GERE ENGINEERS INC.

4/22/2009 10:25:17 AM

I:\Rochester-C.11862\41933.24-Seneca-Ri-Aa\Docs\DWG\2009-04-22_Figure_2.dwg

NESTER ( 50' WIDE ) STREET

40
N=1163427.106
E=1408289.225
RCS

522
N=1163423.094
E=1408293.490

N 86°39'02" E 238.92'

STREET LINE

523
N=1163437.053
E=1408532.002

RCS
337
N=1163441.435
E=1408535.842

PROJECT BENCHMARK
ELEVATION = 451.43'
DRILL HOLE CIRCLE SET IN NE COR. OF
RECEIVING DOCK FLOOR, NO. 11 NESTER ST.

( Not to Scale )

260.00'

265.38'

SBL 91.55-02-53
Now or Formerly
EVH PROPERTIES, LLC.

1 STORY
MASONRY BUILDING

Garage

Concrete Sidewalk

Bldg. 1.3'

Bldg. 0.7'

Bldg. 1.7'

Bldg. 15.8'

PROPERTY LINE

N 87°56'26" E 198.5' 238.98'

24.7'

Bldg. 0.1'

RIZ-7

MW-5

MW-4

813.82'

N 3°20'58" W 415.82'

RIZ-8

CONCRETE RAMP

1 STORY
MASONRY BUILDING

MW-8

97.7'

16.9'

CONCRETE RAMP

MW-1

RIZ-4

PAVED AREA

10.7'

OV-101

47.1'

CONCRETE RAMP

103.1'

553.83'

819.23'

Bldg. 0.5'

Bldg. Jog 0.0'

RIZ-2

AVENUE ( 66' WIDE )

SENECA

STREET

MW-6

SBL 91.63-01-11
Now or Formerly
24 SENECA AVENUE INC.
AREA= 2.784+/- ACRES
= 121,254+/- SQUARE FEET

1 STORY
MASONRY BUILDING

S 3°20'58" E

( 50' WIDE )

BREMEN

MW-7

Bldg. 3.0'

Bldg. 3.0'

PAVED

Bldg. 24.8'

10.0'

N 86°39'02" E
79.67'

PROPERTY LINE

RIZ-6

SBL 91.63-01-10
Now or Formerly
24 SENECA AVENUE INC.
AREA= 0.254+/- ACRE
= 11,066+/- SQUARE FEET

RIZ-9

PAVED

138.00'

139.80'

S 3°20'58" E

1 STORY
MASONRY
BLDG

Bldg. 0.2'

RIZ-5

MW-3

574 NORTON STREET

Tranformer
On Conc. Pad

521
N=1162610.664
E=1408341.939

Utility Met Box
On Conc. Pad

79.69'

STREET LINE

PAVED

159.29'

MW-9

S 87°56'37" W 238.98'

RCS
306
N=1162606.712
E=1408337.390

RCS
308
N=1162615.541
E=1408584.345

524
N=1162619.239
E=1408579.866

Bldg. 7.9'

NORTON ( 66' WIDE ) STREET

PROJECT BENCHMARK
ELEVATION = 459.434'
RTS MONUMENT NO.091630207, SE CORNER
OF NORTON STREET AND JOSEPH AVENUE

GRID ( N. A. D. 83 )

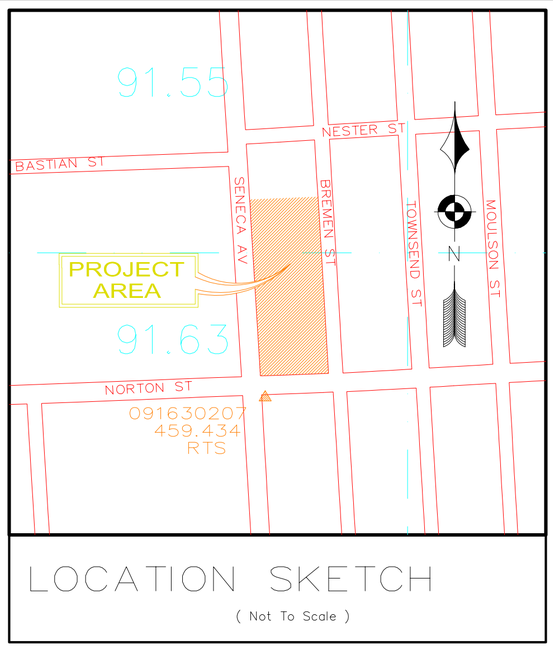
N

RIZ-3

UNDERGROUND UTILITIES SHOWN HEREON WERE PLOTTED FROM FIELD LOCATION OF UTILITY SURFACE EVIDENCE IN CONJUNCTION WITH PROVIDED RECORD MAPPING.
THE LOCATION OF ALL UNDERGROUND UTILITIES SHOULD BE STAKED OUT BY THE RESPECTIVE UTILITY COMPANY PRIOR TO ANY CONSTRUCTION OR EXCAVATION. CRITICAL LOCATION MUST BE VERIFIED BY EXCAVATION

DRAWING ALTERATION

THE FOLLOWING IS AN EXCERPT FROM THE NEW YORK EDUCATION LAW ARTICLE 145 SECTION 7209 AND APPLIES TO THIS DRAWING.
IT IS A VIOLATION OF THIS FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.




LOCATION SKETCH
( Not To Scale )

## NOTES AND REFERENCES:

1. ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.
2. THIS SURVEY IS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS AND WITH THE STANDARDS JOINTLY ADOPTED BY THE GENESEE VALLEY LAND SURVEYORS ASSOCIATION AND THE MONROE COUNTY BAR ASSOCIATION.
3. CITY OF ROCHESTER SURVEY MAPPING, DISTRICT 6, MAP 22
4. CITY OF ROCHESTER ASSESSMENT MAPPING (SBL) NO. 91.55 & 91.63
5. DEED CHAINS FROM MAPS & SURVEYS OFFICE ON MICROFICHE, BY SBL'S SHOWN.
6. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY (DRIVEWAY, APRONS AND UTILITY CONNECTIONS) WILL BE THE RESPONSIBILITY OF THE INDIVIDUAL LOT DEVELOPER. THE DEVELOPER OF EACH LOT MUST OBTAIN PERMITS FROM THE DEPARTMENT OF ENVIRONMENTAL SERVICES FOR ALL WORK WITHIN THE RIGHT-OF-WAY.
7. ANY WORK IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE SEPERATE PERMITS FROM THE ENGINEERING BUREAU PERMIT OFFICE; ROOM 121 B
8. CITY OF ROCHESTER. MAP & SURVEYS PROJECT NO. 2006-013 TO 2006-18
9. MONROE COUNTY CLERK'S OFFICE, LIBER 40 OF MAPS, PAGE 8.
10. SOME DIRECT BUILDINGS MEASUREMENTS ARE INACCESIBLE AND ARE CALCULATED FROM INDEPENDENT LOCATION.

NOTE:
No building or re-grading is to commence on this site without an approved site and grading plan, approved by the City Engineer, being submitted to the City of Rochester and prior to the issuance of a building permit. This plan must be completed by a Professional Engineer or Land Surveyor and prior to any building or grading of the existing or natural drainage on this site.

## HORIZONTAL CONTROL

THE HORIZONTAL DATUM SHOWN HEREON IS REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, NAD 1983 TRANSVERSE MERCATOR PROJECTION, WESTERN ZONE, THROUGH CONTROL TIES TO THE FOLLOWING MONUMENTATION AND THE CITY JOBS NO. 90-025, 92-082, 92-088, 94-028 & 99-065.

1. KODAK TOWER NO.106690115 - N 1153155.993 E 1405400.552
2. BAUSCH & LOMB TOWER NO.121320114 -N 1151006.739 E 1409112.815
3. USC&GS MONUMENT "DUNN" NO. 091570101 - N 1164011.350 E 1410554.269
4. USC&GS MONUMENT "HARGRAVE" NO. 091390103 - N 1165675.024 E 1407825.032
5. USC&GS MONUMENT "SOBIESKI" NO. 091730105 - N 1161787.197 E 1410682.851

-THE PERIMETER AND TIES TO CONTROL MONUMENTS WERE ACCOMPLISHED USING PROCEDURES NECESSARY TO ACHIEVE A MINIMUM ACCURACY OF ONE PART IN TEN THOUSAND (1/10000) OR GREATER.

-COORDINATES SHOWN HEREON ARE AT GRID, DISTANCES ARE AT GROUND.

-COMBINED FACTOR (SEA LEVEL & SCALE FACTOR) = 0.99999398

-GROUND DISTANCES X COMBINED FACTOR = GRID DISTANCE.

## VERTICAL CONTROL

THE VERTICAL DATUM SHOWN HEREON IS REFERENCED TO THE ROCHESTER CITY DATUM THROUGH CONTROL TIES TO THE FOLLOWING MONUMENTS:

1. USC&GS MONUMENT "HARGRAVE" NO. 091390103, ELEV. = 433.830'
2. USC&GS MONUMENT "DUNN" NO. 091570101, ELEV.= 460.308'
3. RTS MONUMENT NO. 091460103, SOUTH LINE EAST RIDGE ROAD. ELEVATION = 428.550'
4. RTS MONUMENT NO. 091630207, SE. COR. JOSEPH AVE. AND NORTON ST. ELEVATION = 459.434'
5. RTS MONUMENT NO. 091660105, SW. COR. NORTON ST. AND CARTER. ST. ELEVATION = 468.536'
6. RTS MONUMENT NO. 091650303, SW COR. NORTON ST. AND NORTH ST. ELEVATION = 466.189'

## LEGEND:

- 509 – CONTOUR ( 1.0' INTERVAL )
- – CONTOUR ( 0.25' INTERVAL )
- – CHAIN LINK FENCE
- – DECIDUOUS TREE WITH DIAMETER
- – HYDRANT
- CB – CATCH BASIN
- T 1210 511.46 SIGN – SIGN POST
- E 1129 504.65 RG&E MH – RG&E HANDHOLE
- 1134 506.79 WP WOOD UTIL POLE WOOD / 1134 504.88 – METAL/WOODEN LAMP POST
- T 1132 504.83 TELE. MH – TELEPHONE MANHOLE
- S 1576 510.79 SEWER MH – SEWER MANHOLE
- WV – WATER VALVE
- GV – GAS VALVE
- 1146 Bollard 509.48 – BOLLARD
- RIZ-1 / MW-7 Monit. Well – MONITORING WELL & NUMBER
- – GATE ( CENTER )

FIGURE 2

NOTES

1. Basemap titled "Boundary & Topographic Survey Map" and dated November 12, 2008 obtained from City of Rochester, New York Department of Environmental Services.

BOUNDARY &
TOPOGRAPHIC SURVEY MAP
24 SENECA AVENUE
CITY OF ROCHESTER
MONROE COUNTY, NEW YORK

FILE NO. 11862.41933
APRIL 2009

O'BRIEN & GERE


# FIGURE 3

## LEGEND

- Storm Grate (Approximate)
- Building Footprint
- Approximate Property Boundary
- Approximate location of interior walls
- 574 Norton Street Parcel
- Grate/Floor Drain (approximate location)
- Pipe, unknown use (approximate location)
- Overburden Monitoring Well (Rizzo, 1993)
- Bedrock Monitoring Well (AEL, 1998)
- Historical Data/Sample Point
- Reported former UST location
- Utility - Electric
- Utility - Gas
- Utility - Water
- Utility - Fiber Optic
- Utility - Overhead Line
- Utility - 4" Sanitary Sewer
- Utility - Storm Sewer
- Utility - Catch Basin Pipe

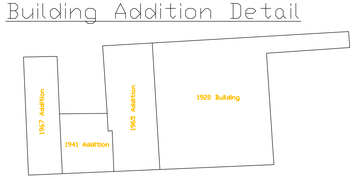
## NOTES

1. All locations are approximate.
2. Hatched area (574 Norton Street) near southwest corner of Site is not part of the 24 Seneca Avenue parcel but was included in the RI investigation.
3. Interior wall locations identified are based upon O'Brien & Gere field observations conducted on 12/18/07.
4. Map Source: NYSGIS Clearinghouse, 2005
5. Historical data points obtained from the following drawings:
   a) Oil and Hazardous Materials Site Evaluation, H&A, dated July 1989
   b) Level 2 Environmental Site Assessment, Rizzo, April 1993
   c) Phase II Environmental Investigation, AEL, October 1996.
6. Locations of Historic Buildings and Site Features Obtained From SGD Phase I ESA, November 2007.

30 0 60

1"=30'

## Building Addition Detail




# HISTORIC SITE FEATURE MAP
# 24 SENECA AVENUE
# CITY OF ROCHESTER
# MONROE COUNTY, NEW YORK

FILE NO. 11862.41933
APRIL 2009

O'BRIEN & GERE

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# FIGURE 4

## LEGEND

- MW-1 — MONITORING WELL DESTROYED OR DAMAGED
- RIZ-1 — OVERBURDEN MONITORING WELL LOCATION
- MW-1 — BEDROCK MONITORING WELL LOCATION
- SB-01 — GEOPROBE SOIL BORING LOCATION
- TP-01 — TEST PIT LOCATION
- SS-01 — SURFACE SOIL SAMPLE LOCATION
- PCB-01 — PCB SAMPLE LOCATION
- SV-1 — SOIL VAPOR SAMPLE LOCATION
- 574 NORTON STREET PARCEL
- BUILDING FOOTPRINT
- APPROXIMATE PROPERTY BOUNDARY

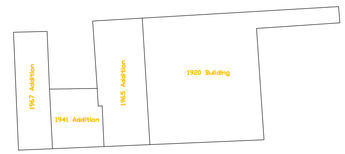
## NOTES

1. All locations are approximate.
2. Hatched area (574 Norton Street) near southwest corner of Site is not part of the 24 Seneca Avenue parcel but was included in the RI investigation.
3. Map Source: NYSGIS Clearinghouse, 2005

30 0 60

1"=30'

## Building Addition Detail




SAMPLE LOCATION MAP
24 SENECA AVENUE
CITY OF ROCHESTER
MONROE COUNTY, NEW YORK

FILE NO. 11862.41933
APRIL 2009

O'BRIEN & GERE


# FIGURE 5

## LEGEND

- RIZ-9 — OVERBURDEN MONITORING WELL LOCATION
- RIZ-2 — OVERBURDEN MONITORING WELL LOCATION (NOT GAUGED DUE TO DAMAGE OR LACK OF WATER)
- 574 NORTON STREET PARCEL
- BUILDING FOOTPRINT
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE GROUND WATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR

## NOTES

1. GROUND WATER ELEVATIONS FOR RIZ-3, RIZ-4, OW101 GAUGED JANUARY 15, 2009.
2. GROUND WATER ELEVATIONS FOR RIZ-7, RIZ-9 GAUGED JANUARY 19, 2009.
3. SYNOPTIC ROUND OF WATER LEVELS WAS NOT COLLECTED ON THE SAME DAY DUE TO EXISTING SNOW PACK WHICH PRECLUDED ACCESS TO SOME OF THE WELLS.
4. TOP OF CURB BOX ELEVATION WAS USED FOR CONTOURING PURPOSES AT RIZ-4 DUE TO ACCESS NOT BEING AVAILABLE TO SURVEY ELEVATION OF TOP OF PVC RISER.
5. HATCHED AREA (574 NORTON STREET) NEAR SOUTHWEST CORNER OF SITE IS NOT PART OF THE 24 SENECA AVENUE PARCEL BUT WAS INCLUDED IN THE RI INVESTIGATION.
6. MAP SOURCE: NYSGIS CLEARINGHOUSE, 2005

30 0 60

1"=30'

## Building Addition Detail


# OVERBURDEN GROUND WATER CONTOUR MAP, JANUARY 2009
# 24 SENECA AVENUE
# CITY OF ROCHESTER
# MONROE COUNTY, NEW YORK

FILE NO. 11862.41933
APRIL 2009

O'BRIEN & GERE

# FIGURE 5a


## LEGEND

- MW-2 — BEDROCK MONITORING WELL LOCATION (NOT GAUGED, WELL DESTROYED)
- MW-1 — BEDROCK MONITORING WELL LOCATION
- 574 NORTON STREET PARCEL
- BUILDING FOOTPRINT
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE GROUND WATER FLOW DIRECTION

## NOTES

1. GROUND WATER ELEVATIONS FOR MW-3, MW-6, MW-9, GAUGED JANUARY 15, 2009.
2. GROUND WATER ELEVATION FOR MW-8 GAUGED JANUARY 16, 2009.
3. GROUND WATER ELEVATIONS FOR MW-1, MW-4, MW-5, MW-7, GAUGED JANUARY 19, 2009.
4. SYNOPTIC ROUND OF WATER LEVELS WAS NOT COLLECTED ON THE SAME DAY DUE TO EXISTING SNOW PACK WHICH PRECLUDED ACCESS TO SOME OF THE WELLS.
5. TOP OF CURB BOX ELEVATION WAS USED FOR CONTOURING PURPOSES AT MW-1 DUE TO ACCESS NOT BEING AVAILABLE TO SURVEY ELEVATION OF TOP OF PVC RISER.
6. HATCHED AREA (574 NORTON STREET) NEAR SOUTHWEST CORNER OF SITE IS NOT PART OF THE 24 SENECA AVENUE PARCEL BUT WAS INCLUDED IN THE RI INVESTIGATION.
7. MAP SOURCE: NYSGIS CLEARINGHOUSE, 2005

30 0 60

1"=30'

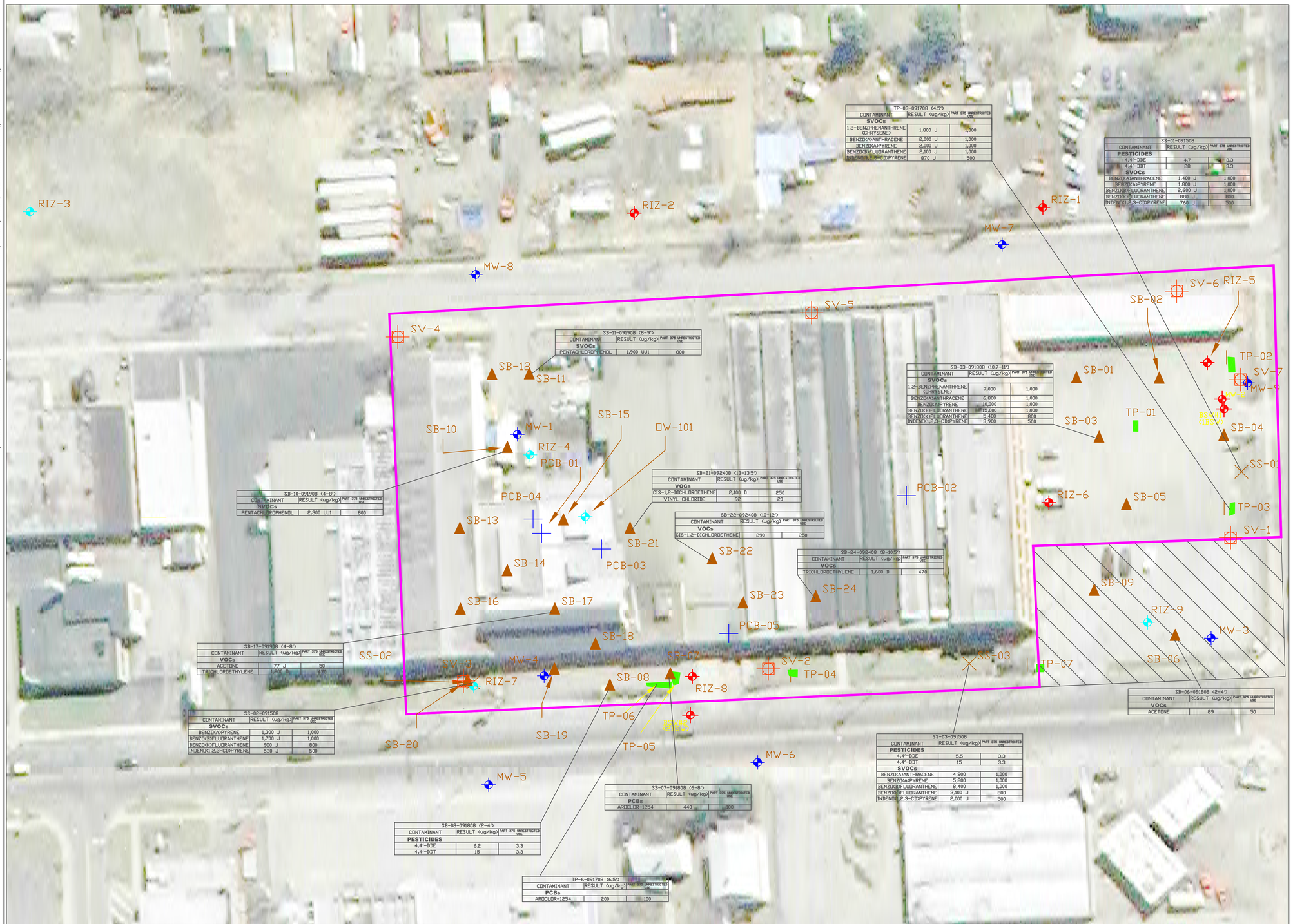
Building Addition Detail


BEDROCK GROUND WATER CONTOUR MAP, JANUARY 2009
24 SENECA AVENUE
CITY OF ROCHESTER
MONROE COUNTY, NEW YORK

FILE NO. 11862.41933
APRIL 2009

O'BRIEN & GERE

# FIGURE 6




TP-03-091708 (4.5')

| CONTAMINANT | RESULT (ug/kg) | PART 375 UNRESTRICTED USE |
|---|---|---|
| **SVOCs** | | |
| 1,2-BENZPHENANTHRENE (CHRYSENE) | 1,800 J | 1,000 |
| BENZO(A)ANTHRACENE | 2,000 J | 1,000 |
| BENZO(A)PYRENE | 2,000 J | 1,000 |
| BENZO(B)FLUORANTHENE | 2,100 J | 1,000 |
| INDENO(1,2,3-CD)PYRENE | 870 J | 500 |

SS-01-091508

| CONTAMINANT | RESULT (ug/kg) | PART 375 UNRESTRICTED USE |
|---|---|---|
| **PESTICIDES** | | |
| 4,4'-DDE | 4.7 | 3.3 |
| 4,4'-DDT | 28 | 3.3 |
| **SVOCs** | | |
| BENZO(A)ANTHRACENE | 1,400 J | 1,000 |
| BENZO(A)PYRENE | 1,800 J | 1,000 |
| BENZO(B)FLUORANTHENE | 2,600 J | 1,000 |
| BENZO(K)FLUORANTHENE | 880 J | 800 |
| INDENO(1,2,3-CD)PYRENE | 760 J | 500 |

SB-11-091908 (8-9')

| CONTAMINANT | RESULT (ug/kg) | PART 375 UNRESTRICTED USE |
|---|---|---|
| **SVOCs** | | |
| PENTACHLOROPHENOL | 1,900 UJ | 800 |

SB-03-091808 (10.7-11')

| CONTAMINANT | RESULT (ug/kg) | PART 375 UNRESTRICTED USE |
|---|---|---|
| **SVOCs** | | |
| 1,2-BENZPHENANTHRENE (CHRYSENE) | 7,000 | 1,000 |
| BENZO(A)ANTHRACENE | 6,800 | 1,000 |
| BENZO(A)PYRENE | 10,000 | 1,000 |
| BENZO(B)FLUORANTHENE | 15,000 | 1,000 |
| BENZO(K)FLUORANTHENE | 5,400 | 800 |
| INDENO(1,2,3-CD)PYRENE | 3,900 | 500 |

SB-10-091908 (4-8')

| CONTAMINANT | RESULT (ug/kg) | PART 375 UNRESTRICTED USE |
|---|---|---|
| **SVOCs** | | |
| PENTACHLOROPHENOL | 2,300 UJ | 800 |

SB-21-092408 (13-13.5')

| CONTAMINANT | RESULT (ug/kg) | PART 375 UNRESTRICTED USE |
|---|---|---|
| **VOCs** | | |
| CIS-1,2-DICHLOROETHENE | 2,100 D | 250 |
| VINYL CHLORIDE | 92 | 20 |

SB-22-092408 (10-12')

| CONTAMINANT | RESULT (ug/kg) | PART 375 UNRESTRICTED USE |
|---|---|---|
| **VOCs** | | |
| CIS-1,2-DICHLOROETHENE | 290 | 250 |

SB-24-092408 (8-10.5')

| CONTAMINANT | RESULT (ug/kg) | PART 375 UNRESTRICTED USE |
|---|---|---|
| **VOCs** | | |
| TRICHLOROETHYLENE | 1,600 D | 470 |

SB-17-091908 (4-8')

| CONTAMINANT | RESULT (ug/kg) | PART 375 UNRESTRICTED USE |
|---|---|---|
| **VOCs** | | |
| ACETONE | 77 J | 50 |
| TRICHLOROETHYLENE | 1,800 D | 470 |

SS-02-091508

| CONTAMINANT | RESULT (ug/kg) | PART 375 UNRESTRICTED USE |
|---|---|---|
| **SVOCs** | | |
| BENZO(A)PYRENE | 1,300 J | 1,000 |
| BENZO(B)FLUORANTHENE | 1,700 J | 1,000 |
| BENZO(K)FLUORANTHENE | 900 J | 800 |
| INDENO(1,2,3-CD)PYRENE | 520 J | 500 |

SB-07-091808 (6-8')

| CONTAMINANT | RESULT (ug/kg) | PART 375 UNRESTRICTED USE |
|---|---|---|
| **PCBs** | | |
| AROCLOR-1254 | 440 | 100 |

SB-08-091808 (2-4')

| CONTAMINANT | RESULT (ug/kg) | PART 375 UNRESTRICTED USE |
|---|---|---|
| **PESTICIDES** | | |
| 4,4'-DDE | 6.2 | 3.3 |
| 4,4'-DDT | 15 | 3.3 |

TP-6-091708 (6.5')

| CONTAMINANT | RESULT (ug/kg) | PART 375 UNRESTRICTED USE |
|---|---|---|
| **PCBs** | | |
| AROCLOR-1254 | 200 | 100 |

SB-06-091808 (2-4')

| CONTAMINANT | RESULT (ug/kg) | PART 375 UNRESTRICTED USE |
|---|---|---|
| **VOCs** | | |
| ACETONE | 89 | 50 |

SS-03-091508

| CONTAMINANT | RESULT (ug/kg) | PART 375 UNRESTRICTED USE |
|---|---|---|
| **PESTICIDES** | | |
| 4,4'-DDE | 5.5 | 3.3 |
| 4,4'-DDT | 15 | 3.3 |
| **SVOCs** | | |
| BENZO(A)ANTHRACENE | 4,900 | 1,000 |
| BENZO(A)PYRENE | 5,800 | 1,000 |
| BENZO(B)FLUORANTHENE | 8,400 | 1,000 |
| BENZO(K)FLUORANTHENE | 3,100 J | 800 |
| INDENO(1,2,3-CD)PYRENE | 2,000 J | 500 |

## LEGEND

- MW-1 — MONITORING WELL DESTROYED OR DAMAGED
- RIZ-1 — OVERBURDEN MONITORING WELL LOCATION
- MW-1 — BEDROCK MONITORING WELL LOCATION
- SB-01 — GEOPROBE SOIL BORING LOCATION
- TP-01 — TEST PIT LOCATION
- SS-01 — SURFACE SOIL SAMPLE LOCATION
- PCB-01 — PCB SAMPLE LOCATION
- SV-1 — SOIL VAPOR SAMPLE LOCATION
- 574 NORTON STREET PARCEL
- BUILDING FOOTPRINT
- APPROXIMATE PROPERTY BOUNDARY

## NOTES

1. All locations are approximate.
2. Hatched area (574 Norton Street) near southwest corner of Site is not part of the 24 Seneca Avenue parcel but was included in the RI investigation.
3. Map Source: NYSGIS Clearinghouse, 2005

30 0 60

1"=30'

## Building Addition Detail


SOIL SAMPLE LOCATIONS THAT EXCEED 6 NYCRR PART 375 UNRESTRICTED USE SCOs (EXCLUDING METALS)
24 SENECA AVENUE
CITY OF ROCHESTER
MONROE COUNTY, NEW YORK

FILE NO. 11862.41933
MAY 2009

O'BRIEN & GERE



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# FIGURE 7


| MW-8-100608 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **VOCs** | | |
| DBCP | 1 UJ1 | 0.04 |
| CIS-1,2-DICHLOROETHENE | 56 | 5 |
| TRICHLOROETHYLENE | 57 | 5 |
| VINYL CHLORIDE | 3 | 2 |
| **SVOCs** | | |
| 1,2-BENZPHENANTHRENE (CHYRSENE) | 2 J | 0.002 |
| BENZO(A)ANTHRACENE | 2 J | 0.002 |
| BENZO(A)PYRENE | 2 J | ND |
| BENZO(K)FLUORANTHENE | 2 J | 0.002 |
| BENZO(K)FLUORANTHENE | 1 J | 0.002 |
| BIS(2-ETHYLHEXYL) PHTHALATE | 5 | 5 |
| INDENO(1,2,3-CD)PYRENE | 1 J | 0.002 |

| DW101-100108 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **VOCs** | | |
| CIS-1,2-DICHLOROETHENE | 430 D | 5 |
| TRICHLOROETHYLENE | 81 | 5 |
| VINYL CHLORIDE | 89 | 2 |

| DW101-011509 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **VOCs** | | |
| CIS-1,2-DICHLOROETHENE | 590 D08 | 5 |
| TRICHLOROETHYLENE | 40 | 5 |
| VINYL CHLORIDE | 99 D08 | 2 |

| MW-7-100608 & 100708 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **VOCs** | | |
| BENZENE | 8 J1 | 1 |
| CHLOROFORM | 16 J1 | 7 |
| CIS-1,2-DICHLOROETHENE | 2,000 J1 | 5 |
| METHYLBENZENE (TOLUENE) | 14 J1 | 5 |
| TOTAL XYLENES | 9 J1 | 5 |
| TRANS-1,2-DICHLOROETHENE | 8 J1 | 5 |
| VINYL CHLORIDE | 4 J1 | 2 |
| **SVOCs** | | |
| INDENO(1,2,3-CD)PYRENE | 5 UJ1 | 0.002 |

| MW-7-011909 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **VOCs** | | |
| BENZENE | 1.4 | 1 |
| CIS-1,2-DICHLOROETHENE | 1,300 D08, P-HS | 5 |
| TRANS-1,2-DICHLOROETHENE | 9.4 | 5 |
| TRICHLOROETHYLENE | 2,000 D08, P-HS | 5 |

| MW-9-100608 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **PESTICIDES** | | |
| ALPHA-BHC | 0.047 UJ1 | 0.01 |
| BETA-BHC | 0.047 UJ1 | 0.04 |
| DELTA-BHC | 0.047 UJ1 | 0.04 |
| DIELDRIN | 0.047 UJ1 | 0.004 |
| HEPTACHLOR | 0.047 UJ1 | 0.04 |
| HEPTACHLOR EPOXIDE | 0.047 UJ1 | 0.03 |
| **VOCs** | | |
| CIS-1,2-DICHLOROETHENE | 460 J1 | 5 |
| TRICHLOROETHYLENE | 990 J1 | 5 |
| VINYL CHLORIDE | 13 J1 | 2 |
| **SVOCs** | | |
| INDENO(1,2,3-CD)PYRENE | 5 UJ1 | 0.002 |

| MW-9-011509 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **VOCs** | | |
| 1,1-DICHLOROETHENE | 58 | 5 |
| CIS-1,2-DICHLOROETHENE | 1,200 D08 | 5 |
| TRANS-1,2-DICHLOROETHENE | 8.5 | 5 |
| TRICHLOROETHYLENE | 3,800 D08 | 5 |

| MW-1-093008 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **PESTICIDES** | | |
| ALDRIN | 0.026 J | ND |
| **VOCs** | | |
| CIS-1,2-DICHLOROETHENE | 15 | 5 |
| TRICHLOROETHYLENE | 34 | 5 |
| **SVOCs** | | |
| 1,2-BENZPHENANTHRENE (CHYRSENE) | 0.3 J | 0.002 |
| 1,2-DICHLOROBENZENE | 9 UJ1 | 0.002 |
| BENZO(A)ANTHRACENE | 0.2 J | 0.002 |
| BENZO(A)PYRENE | 0.2 J | ND |
| BENZO(K)FLUORANTHENE | 0.2 J | 0.002 |
| BIS(2-ETHYLHEXYL) PHTHALATE | 13 | 5 |
| INDENO(1,2,3-CD)PYRENE | 0.2 J | 0.002 |

| MW-1-011909 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **VOCs** | | |
| CIS-1,2-DICHLOROETHENE | 27 P-HS | 5 |
| TRICHLOROETHYLENE | 30 P-HS | 5 |
| **SVOCs** | | |
| 1,2-BENZPHENANTHRENE (CHYRSENE) | 0.45 J | 0.002 |
| BENZO(A)ANTHRACENE | 0.33 J | 0.002 |
| BENZO(A)PYRENE | 0.33 J,L1 | ND |
| BENZO(K)FLUORANTHENE | 0.67 J | 0.002 |
| BENZO(K)FLUORANTHENE | 0.15 J | 0.002 |
| BIS(2-ETHYLHEXYL) PHTHALATE | 23 | 5 |
| INDENO(1,2,3-CD)PYRENE | 0.42 J | 0.002 |

| RIZ-9-100108 & 100208 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **SVOCs** | | |
| 1,2-BENZPHENANTHRENE (CHYRSENE) | 9 J | 0.002 |
| BENZO(A)ANTHRACENE | 7 J | 0.002 |
| BENZO(A)PYRENE | 9 J | ND |
| BENZO(K)FLUORANTHENE | 17 J | 0.002 |
| BENZO(K)FLUORANTHENE | 7 J | 0.002 |
| INDENO(1,2,3-CD)PYRENE | 9 J | 0.002 |

| RIZ-9-011909 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **SVOCs** | | |
| 1,2-BENZPHENANTHRENE (CHYRSENE) | 14 D02 | 0.002 |
| BENZO(A)ANTHRACENE | 10 D02 | 0.002 |
| BENZO(A)PYRENE | 13 J2 | ND |
| BENZO(K)FLUORANTHENE | 22 D02 | 0.002 |
| BENZO(K)FLUORANTHENE | 6 J, D02 | 0.002 |
| BIS(2-ETHYLHEXYL) PHTHALATE | 12 D02 | 5 |
| INDENO(1,2,3-CD)PYRENE | 14 D02 | 0.002 |

| RIZ-4-100908 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **VOCs** | | |
| 1,1-DICHLOROETHANE | 6 | 5 |
| 1,1-DICHLOROETHYLENE | 7 | 5 |
| 1,2-DICHLOROPROPANE | 1 UJ1 | 1 |
| CIS-1,2-DICHLOROETHENE | 260 D | 5 |
| TRANS-1,2-DICHLOROETHENE | 10 | 5 |
| TRICHLOROETHYLENE | 99 | 5 |
| VINYL CHLORIDE | 260 | 2 |

| RIZ-4-011509 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **VOCs** | | |
| 1,1-DICHLOROETHYLENE | 6.8 | 5 |
| CIS-1,2-DICHLOROETHENE | 260 D08 | 5 |
| TRANS-1,2-DICHLOROETHENE | 10 | 5 |
| TRICHLOROETHYLENE | 110 D08 | 5 |
| VINYL CHLORIDE | 170 D08 | 2 |

| RIZ-7-100108 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **VOCs** | | |
| ISOPROPYLBENZENE | 6 | 5 |

| MW-4-093008 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **VOCs** | | |
| BENZENE | 1 | 1 |
| CIS-1,2-DICHLOROETHENE | 110 D | 5 |
| TRICHLOROETHYLENE | 14 | 5 |
| VINYL CHLORIDE | 59 | 2 |
| **SVOCs** | | |
| 1,2-DICHLOROBENZENE | 9 UJ1 | 3 |
| 1,4-DICHLOROBENZENE | 9 UJ1 | 3 |
| M-DICHLOROBENZENE | 9 UJ1 | 3 |

| MW-4-011909 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **VOCs** | | |
| CIS-1,2-DICHLOROETHENE | 81 | 5 |
| TRICHLOROETHYLENE | 14 | 5 |
| VINYL CHLORIDE | 35 | 2 |

| MW-5-100608 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **VOCs** | | |
| DBCP | 1 UJ1 | 0.04 |
| BENZENE | 2 | 1 |
| CIS-1,2-DICHLOROETHENE | 310 J1 | 5 |
| TRICHLOROETHYLENE | 5 | 5 |
| VINYL CHLORIDE | 31 | 2 |
| **SVOCs** | | |
| INDENO(1,2,3-CD)PYRENE | 5 UJ1 | 0.002 |

| MW-5-011909 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **VOCs** | | |
| CIS-1,2-DICHLOROETHENE | 20 | 5 |
| VINYL CHLORIDE | 2.3 | 2 |

| MW-6-100608 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **VOCs** | | |
| BENZENE | 1 | 1 |
| CIS-1,2-DICHLOROETHENE | 5 | 5 |
| MTBE | 94 J | 10 |
| **SVOCs** | | |
| INDENO(1,2,3-CD)PYRENE | 5 UJ1 | 0.002 |

| MW-6-011509 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **VOCs** | | |
| BENZENE | 2.4 | 1 |
| ETHYLBENZENE | 8.5 | 5 |
| MTBE | 78 | 10 |
| TOTAL XYLENES | 5.5 | 5 |

| MW-3-093008 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **PESTICIDES** | | |
| ENDRIN | 0.021 J | ND |
| **VOCs** | | |
| BENZENE | 290 D | 1 |
| ETHYLBENZENE | 10 | 5 |
| ISOPROPYLBENZENE | 19 | 5 |
| MTBE | 260 D | 10 |
| TOTAL XYLENES | 7 | 5 |
| **SVOCs** | | |
| M-DICHLOROBENZENE | 9 UJ1 | 3 |
| PHENOL | 2.8 | 1 |

| MW-3-011509 | | |
|---|---|---|
| CONTAMINANT | RESULT (ug/L) | NYSDEC TOGS 1.1.1 |
| **PESTICIDES** | | |
| ENDRIN | 0.021 J | ND |
| **VOCs** | | |
| BENZENE | 170 D08 | 1 |
| ISOPROPYLBENZENE | 16 | 5 |
| MTBE | 190 D08 | 10 |
| **SVOCs** | | |
| PHENOL | 1.6 J | 1 |

## LEGEND

- MW-1 — MONITORING WELL DESTROYED OR DAMAGED
- RIZ-1 — OVERBURDEN MONITORING WELL LOCATION
- MW-1 — BEDROCK MONITORING WELL LOCATION
- SB-01 — GEOPROBE SOIL BORING LOCATION
- TP-01 — TEST PIT LOCATION
- SS-01 — SURFACE SOIL SAMPLE LOCATION
- PCB-01 — PCB SAMPLE LOCATION
- SV-1 — SOIL VAPOR SAMPLE LOCATION
- 574 NORTON STREET PARCEL
- BUILDING FOOTPRINT
- APPROXIMATE PROPERTY BOUNDARY

## NOTES

1. All locations are approximate.
2. Hatched area (574 Norton Street) near southwest corner of Site is not part of the 24 Seneca Avenue parcel but was included in the RI investigation.
3. Map Source: NYSGIS Clearinghouse, 2005

30 0 60

1"=30'

## Building Addition Detail


GROUND WATER SAMPLE LOCATIONS THAT EXCEED NYSDEC TOGS 1.1.1 (EXCLUDING METALS)
24 SENECA AVENUE
CITY OF ROCHESTER
MONROE COUNTY, NEW YORK

FILE NO. 11862.41933
MAY 2009

O'BRIEN & GERE



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