MOVE YOUR ENVIRONMENT FORWARD

June 3, 2024

New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233
Contract #D009808

**RE: Draft Remedial Investigation Report, 251 Walsh Road Site**
**NYSDEC Site ID #336077**
**(HRP #DEC1018.P3)**

Dear Mr. Domaracki:

Attached is the Remedial Investigation Report for the 251 Walsh Road Site located on 251 Walsh Avenue, New Windsor, New York. This report includes the comments sent on April 16, 2024.

All the edits were addressed except for the additional Figure request. Only three VOC samples were collected from the overburden wells on-site in 2023 and we determined that we did not have enough data to create a contour map.

Comment Notes:
Section 5.3 comment for clarity on sample filtration was added to Section 3.4. The Section 5 soil comment was addressed in the contaminant source section. The Section 4.2 comments were addressed in Section 3.4.

Thank you for letting HRP assist you with this work. If you have any questions or require additional information, please feel free to contact us at (518) 877-7101.

Sincerely,
HRP Associates, Inc.

David Stoll

David C. Stoll, PG
Senior Project Manager

Attachments

# REMEDIAL INVESTIGATION REPORT

**251 Walsh Road Site- Site #336077**
251 Walsh Avenue
New Windsor, New York

Prepared For:

Contract# D009808, Work Assignment No. 18
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7012

Prepared By:

HRP Associates, Inc.
1 Fairchild Square, Suite 110
Clifton Park, NY 12065

HRP #: DEC1018.P3

Issued On: June 3, 2024

## General Information

### Project/Site Information:

251 Walsh Road Site
251 Walsh Avenue
New Windsor, New York

### Consultant Information:

HRP Associates, Inc.
1 Fairchild Square, Suite 110
Clifton Park, NY 12065
Phone: 518-877-7101
Fax: 518-877-8561
E-mail: David.stoll@hrpassociates.com
Project Number: DEC1018.P3

### Client Information:

New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233
Contract #D009808

**Report Date** 1/23/2024

**Report Author:**

Leah Topping
Project Consultant

**Client Manager:**

David Stoll P.G.
Senior Project Manager

**EP Certification:**

*I certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Remedial Investigation Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.*

David Stoll P.G. – Senior Project Manager

**TABLE OF CONTENTS**

## Figures



## Tables



## Appendices

# 1.0 INTRODUCTION

HRP Associates, Inc. (HRP) was contracted by the New York State Department of Environmental Conservation (NYSDEC) to conduct a Remedial Investigation (RI) at the 251 Walsh Road Site, located at 251 Walsh Avenue, New Windsor, New York, (Site #336077), referred to as the Site (**Figure 1**).

Interpretations presented within this report are based primarily on the investigations described herein. Site history and background information were compiled by HRP based on review of previous environmental investigation reports obtained from the NYSDEC. Applicable data from available previous investigations conducted at the Site have been included in sections of this report.

The Site, which is zoned commercial/industrial, has been the subject of a May 2015 Site Characterization report prepared by Parsons for the NYSDEC that determined:

- Chlorinated solvents were present in the Site's soil gas, groundwater and soils above relevant standards, criteria, and guidance (SCGs).
- Metals were present in the Site's soil and groundwater above relevant standards, criteria, and guidance (SCGs).

Based on the results from previous investigations, the Site is listed on the NYSDEC "Environmental Site Remediation Database" as a Class 2 Site which is designated by the NYSDEC as a Site where:

- The disposal of hazardous waste has been confirmed and the presence of such hazardous waste or its components or breakdown products represents a significant threat to public health or the environment.

## 1.1 Report Organization

The text of this report is divided into seven sections. Immediately following the text are the references, tables, figures, and appendices. A summary of each report section is provided below.

**Section 1.0** Introduction: The purpose of the RI report; the report organization; the Site background including Site description, Site history, summary of previous relevant studies, areas requiring further investigation; and scope of work are discussed.

**Section 2.0** Physical Characteristics of the Study Area: Includes results of field activities to determine physical characteristics, including surface features, geology, soils, hydrogeology, demography, and land use.

**Section 3.0** Study Area Investigations: Summarizes field activities associated with the RI, including surficial and subsurface soil investigations, groundwater investigations, soil vapor investigations and contaminant source investigations. Technical correspondence documenting field activities are also summarized in this section.

**Section 4.0** Nature and Extent of Impacts: Presents the results of remedial investigation organized by environmental media, including the degree of impacts in relation to relevant SCGs and an assessment of contaminant fate and transport. The conceptual

Site model, which incorporates all site data to describe the nature and extent of impacts in relation to the physical features and processes of the Site and potential migration pathways, is presented.

**Section 5.0** Qualitative Human Health Exposure Assessment: Presents the results of a general human health and environmental impact assessment completed at the Site. The assessment identifies potential impacts sources, exposure pathways and discusses potential remedial action objectives to eliminate contaminant exposure.

**Section 6.0** Fish and Wildlife Resources Impact Analysis: Includes discussion of applicability of a Fish and Wildlife Resources Impact Analysis and potential ecological impacts of contaminants of concern from the site.

**Section 7.0** Conclusions: Summarizes the results and findings of the RI, including an evaluation of data gaps.

**Section 8.0** References

## 1.2 Purpose and Objectives

The purpose of the RI was to further characterize the nature and extent of soil, groundwater, surface water, and soil vapor impacts at the Walsh Road Site to determine whether the current Site conditions pose a risk to human health and the environment. The primary tasks of the RI's Scope of Work were to:

- Delineate the areal and vertical extent of contaminants in all media at or emanating from the site;

- Determine the surface and subsurface characteristics of the site, including topography, geology and hydrogeology, including depth to groundwater;

- Identify the sources of contamination, the migration pathways, and actual or potential receptors of contaminants on or through air, soil, bedrock, sediment, groundwater, surface water, utilities, and structures at a contaminated site, without regard to property boundaries;

- Collect and evaluate all data necessary for a fish and wildlife resource impact analysis (FWRIA), pursuant to section 3.10, to determine all actual and potential adverse impact to fish and wildlife resources;

- Collect and evaluate all data necessary to evaluate the actual and potential threats to public health and the environment. This would include evaluating all current and future potential public health exposure pathways, in accordance with Appendix 3B, as well as potential impacts to biota; and

- Collect the data necessary to evaluate any release to an environmental medium and develop remedial alternative(s) to address the release.

## 1.3 Site Description

The Site is 251 Walsh Avenue in the Town of New Windsor, Orange County, New York and is situated in a mixed-use industrial, commercial, and residential area. The Site is listed as a Class 2 Site in the State Registry of Inactive Hazardous Waste Sites (State Superfund Sites, **Figure 1**), which indicates that it represents a significant threat to public health, or the environment and action is required.

The 1.2-acre is situated on tax parcel-Section 13, Block 5, Lot 58, Sublot 2 as shown in **Figure 2A** and **Figure 2B**. The Site is occupied by a 18,000 square foot, single story, industrial facility constructed out of cinderblocks on concrete slab. The building contains multiple access points and a loading dock on the northern side of the building. The building is centrally located with the remainder of the property being mostly paved with some minor landscaping in the front along Walsh Avenue. The property is currently owned by AWWB Estates LLC, and the building is leased as a industrial property for rent.

Properties surrounding the Site and their approximate distances to the Site are described below.

*North*

- 145 John Street:  145 John LLC (110 feet to the North). This building was presumed to be part of the original radio manufacturing facility (possibly the solvent usage/storage area) based upon a review of Sanborn maps.
- 144 John Street: 144 John Street LLC (395 feet to the North) Former National Gypsum Co. Paper Mill

*South*

- 256 Walsh Avenue:  Salko Kitchens Inc (50 feet to the South)
- 254 Walsh Avenue:  Residential Property (50 feet to the Southwest)

*East*

- 259 Walsh Avenue:  Rhodes Funeral Home (20 feet to the east)
- 275 Walsh Avenue:  New Windsor Fire Department (120 feet to the east)

*West*

- 247 Walsh Avenue:  Federal Block Corporation (50 feet to the west)

## 1.4 Site History

The exact date for the construction of the former radio part manufacturing facility building is unknown. A 1913 Sanborn fire insurance map shows a "Radio Coil Manufacturing" facility building located on the current Site. The Sanborn fire insurance map is overlayed on the current site boundary on **Figure 3**

The 2015 SCR states that between the 1940s and the 1970s, the facility manufactured electronic components that were cleaned with solvents. The solvents were reportedly stored in an exterior shed located on the north side of the building in the rear parking lot area.

The exact location of this shed could not be determined but a review of the 1913 and 1913/modified 1950 Sanborn maps for the Site indicate the shed may have been located near the northeast corner of the current Site boundary, as shown on **Figure 3**. The northeast corner of the current Site boundary was investigated during the RI and the results for all RI sampling are provided below.

## 1.5 Previous Investigations

Several environmental investigations were completed at the Site between 1995 and 2017. Historical data collected at the Site in 2013 are presented in the May 2015, SC report prepared by Parsons, dated May 2015. The remaining data collected at the Site during the prior investigations was not available for review by HRP and referenced through the Parsons, 2015 report as detailed below.

Findings of the Parsons May 2015 SC Report include:

- Multiple detections of CVOCs, including PCE, TCE, and 1,1,1-TCA were reportedly detected in overburden groundwater samples at concentrations exceeding the NYSDEC Ambient Water Quality Class GA standards.

- CVOCs were not reportedly detected in groundwater samples collected from the upgradient monitoring wells.

- CVOCs, including PCE, TCE, 1,1-dichloroethene (1,1-DCE), and 1,1-dichloroethane (1,1-DCA), were reportedly detected in soil vapor on-site.

- The soil vapor samples collected on the northeastern corner and northwestern corner of the Site building, and the eastern corner of the back parking lot reportedly had detected concentrations of CVOCs including TCE, 1,1-DCE, 1,1-DCA and PCE. CVOCs were also detected in the three sub-slab soil vapor samples collected during the SC specifically: TCE, 1,1,1-TCA, PCE, and 1,1-DCE.

- CVOCs, including PCE and TCE, were detected in subsurface soil samples at concentrations below the recommended cleanup standards for commercial properties.

- Arsenic was the only metal detected at a concentration exceeding the commercial use SCO.

- Several polynuclear aromatic hydrocarbons (PAHs) were reportedly detected in soil samples at concentrations exceeding the SCO for commercial properties.

- Several PAH compounds including benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, dibenzo (a, h) anthracene, and indeno (1,2,3-cd) pyrene were detected in soil samples at concentrations exceeding the commercial use SCOs

## 1.6 Areas Requiring Further Investigation

Based upon work completed previously at the Site, the following data gaps were identified for further investigation:

- An on-site (251 Walsh Avenue) source of CVOC impacts was not identified.
- CVOC impacts on and off Site was not fully delineated.
- A soil vapor intrusion investigation had not been performed for off-Site properties, with potential for vapor intrusion around the Site.
- Off-site sampling of sediment and surface water had not been performed to determine if on-site impacts are affecting off-site waterways.

The methodology and results of these investigations are detailed in the remaining sections of this report.

# 2.0 PHYSICAL CHARACTERISTICS OF THE SITE

## 2.1 Topography

Topography at the Site is generally flat and lies at an elevation of approximately 145 feet above mean sea level. The surrounding topography slopes downwards to the north towards Quassaic Creek. The Site is capped by pavement surrounding the building with a gravel parking/vegetated strip on the northern side of the building.

## 2.2 Hydrology

**Surface Water**

Quassaic Creek is the closest surface body water located approximately 1,000 feet north of the Site (**Figure 1**). Quassaic Creek flows in an easterly direction approximately 1 mile before discharging into the Hudson River. The Quassaic Creek is classified by the NYSDEC as a class "B" waterbody. According to 6 NYCRR Part 701: "The best usages of Class B waters are primary and secondary contact recreation and fishing. These waters shall be suitable for fish, shellfish and wildlife propagation and survival."

**Groundwater**

Overburden monitoring wells recorded groundwater depths during the RI sampling event that ranged from 4.75 ft bg (MW-101 OB) to 11.71 ft bg (MW-102 OB). Groundwater well construction logs and low flow logs are included in **Appendix A**. Bedrock monitoring wells recorded groundwater depths during the RI sampling that ranged from 4.14 ft bg (MW-100 BR) to 20.07 ft bg (MW-103 BR). Groundwater within this locale appears to exist under unconfined conditions and flows to the north/northwest (**Figure 4**).

The nearest known water supply well is a Federal USGS Well located approximately 1.6 miles west of the Site. The well is associated with the Newburgh Water Department. Potable water at the Site is reportedly provided by a public water supply.

**Wetlands**

No obvious wetlands were observed on-Site during the RI. According to the New York State Environmental Resource Mapper (ERM), no New York State regulated freshwater wetlands are present at, or adjacent to, the Site. The nearest NYSDEC regulated wetland is R3RBH, a freshwater wetland, located approximately 600 feet southeast of the Site. R3RBH is riverine, and measures approximately 1.47 acres according to the ERM.

**Floodplains**

The Site is located in an area designated as FEMA Flood Zone 36071C0332E where base flood elevations have been determined. The site has been designated as "Zone X", indicating a minimal flood hazard over a 100-year period.

## 2.3 Geology

### Soils and Surficial Geology

Based on RI soil sampling, Site soils generally consisted of 5 feet of sand and gravel overlaying up to 5 feet of clay silt and fine gravel. The overburden materials were consistent with alluvial/glacial gravels, sands, and silts underlain by till (upwards of 10 ft bg) overlying bedrock.

Surficial geology at the Site is mapped as glacially deposited till. The till is described as poorly sorted and has thickness variable from 1 to 50 meters (Caldwell et. al., 1986). According to the United States Department of Agriculture Natural Resources Conservation Service Web Soil Survey, 100% of the Site area is mapped as Hoosick gravelly sandy loam, featuring 3 to 8 percent slopes. A typical soil profile for Hoosick gravelly sandy loam is gravelly sandy loam from 0 to 6 inches, very gravelly sandy loam from 6 to 28 inches, and very gravelly sand from 28 to 60 inches.

### Bedrock Geology

Existing bedrock logs do not describe the bedrock geology, only noting the existence of competent rock. According to the Lower Hudson Valley Bedrock Map, bedrock is likely Ordovician Taconic Melange which has been defined as Early Cambrian through Middle Ordovician aged pelite with interbedded, poorly sorted, pebbles and clasts. Bedrock was encountered approximately 40 to 60 ft bg during bedrock monitoring well installation.

# 3.0 SITE INVESTIGATION

The work completed for this RI was generally consistent with the scope of work described in the NYSDEC approved Remedial Investigation Work Plan (Work Plan) dated July 11, 2021, as well as the RI Work Plan Addendum dated July 17, 2023. A description of the study area investigations conducted during this RI and RI Addendum are presented in this Section. Tasks included in the RI included sampling, analysis, and evaluation of soil, groundwater, and soil vapor conditions at the Site as well as adjacent properties. Tasks in the RI Addendum included additional sampling, analysis, and evaluation of soil and groundwater on-site.

The investigation tasks described in the work plan utilized the NYSDEC's DER-10 Technical Guidance. HRP field personnel followed the procedures outlined in the previously approved generic Field Activity Plan (FAP), Quality Assurance Project Plan (QAPP), and Health and Safety Plan (HASP). As required by the NYSDEC, the Work Plan for this Work Assignment (WA) incorporated the following Site-specific components:

- Scope of Work (SOW) Summary;
- Health and Safety Plan (HASP); and
- Community Air Monitoring Plan (CAMP).

Field work for this RI was conducted in several mobilizations to the Site and included the following tasks:

- Installation of 26 soil borings and 8 monitoring wells, (4 overburden and 4 bedrock wells) installed from September 15, 2021 to October 22, 2021;
- Collection of 52 subsurface soil samples from September 15 to 17, 2021;
  Collection of 11 groundwater samples on October 28, and October 29, 2021;
- Collection of 3 sediment samples on October 28, 2021;
- Collection of 4 surface water samples on October 28, 2021;
- Collection of indoor air, soil vapor, and outdoor air samples on October 21, 2021 and March 3, 2022;
- Installation of 2 soil borings and 2 overburden wells on September 15, 2023;
- Collection of 4 subsurface soil samples on September 15, 2023; and
- Collection of 6 groundwater samples on October 9, 2023.

Site plans including soil boring, monitoring well, and on-site soil vapor locations are depicted on **Figure 2A**. Off-site surface water and sediment sample locations are depicted on **Figure 2B,** and off-site soil vapor sample locations are depicted on **Figure 2A. Table 1A** presents the summary of sample locations.

## 3.1 Underground Utility Clearance and Ground Penetrating Radar (GPR)

A ground penetrating radar (GPR) and electromagnetic (EM) survey was conducted at the Site on September 9, 2021, by Underground Surveying LLC. GPR surveying is a nonintrusive, subsurface geophysical investigation technique that detects subsurface obstructions by transmitting electromagnetic waves from a 400MHz shielded antenna into the ground. The antenna then monitors the strength and time delay of the return signal. The return signal is then evaluated for any anomalies, which by their size, shape and orientation can be interpreted as voids, underground storage tanks, utility pipelines, soil-bedrock interface, or areas of different sediment compaction. A radio frequency (RF) line locator was also used to identify subsurface utility lines based on the presence of 120 hertz signal (electric) and transmitted signals from the RF transmitter.

The objective of the GPR survey was to clear soil boring locations of subsurface obstructions, mark utilities entering the Site, and identify any subsurface anomalies. The GPR survey was conducted across the Site. A sewer line was identified along Walsh Avenue and soil boring locations were moved accordingly to avoid contact with the sewer line. No other utilities or anomalies were included in the report and no other proposed boring locations were altered by the findings of the GPR survey. Soil boring, monitoring well and soil vapor locations are depicted on **Figure 2A**.

## 3.2 Community Air Monitoring Plan (CAMP)

A Community Air Monitoring Plan (CAMP) was included in the RI Work Plan and RI Work Plan Addendum. Real-time air monitoring was conducted for VOCs and particulates (i.e., dust) at the downwind perimeter of each designated work area when ground intrusive activities were being conducted, including soil boring and monitoring well installation. This sampling provides a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative activities. Additionally, the CAMP data helps to confirm that work activities did not spread impacts off-site through the air.

VOCs were monitored at the upwind and downwind perimeters of the immediate work area (i.e., the exclusion zone) on a continuous basis during intrusive work or as otherwise specified. The monitoring work was performed using a Mini Rae 3000 photo ionization detector (PID) equipped with a 10.6 eV bulb. The PID was routinely calibrated per manufacturer's instructions for the contaminant(s) of concern or for an appropriate surrogate. The PID was placed in a weather-proof box that sat on a tripod approximately four feet off the ground. The downwind PID readings did not exceed 5 ppm during the field investigations.

Particulate concentrations were monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations during intrusive work. The particulate monitoring was performed using a TSI Dust Trak II, a real-time monitor capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The Dust Trak was routinely zero checked and was placed in a weatherproof box that sat on a tripod approximately four feet off the ground. The equipment was equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration was visually assessed during all work activities.

In some instances, while setting up or moving the Dust Trak, apparent spikes in particulate readings were triggered by handling of the equipment (i.e., blocking air flow to the inlet). Particulate readings did not exceed 100 mcg/m$^3$ during field investigations activities other than the instances described above during all field activities. Visible dust was not observed on-site during RI field work. All tables for VOC and particulate concentration readings can be found in the CAMP documents (**Appendix B**).

## 3.3 Soil Characterization

**Soil Boring Installation**

To evaluate soil conditions, HRP and Soil Testing Inc. mobilized to the Site from September 15 through 17, 2021 to collect representative soil samples from 26 soil borings using a truck-mounted drill rig. Soil borings were advanced to a maximum depth of 25 ft bg. Soil samples were collected continuously in 5-foot intervals in areas around the Site building.

HRP and CoreDown Drilling mobilized to the Site on September 15, 2023 to collect representative soil samples from an additional two borings using a truck-mounted drill rig. Soil borings were advanced to a maximum depth of 20 ft bg. In general, the soil boring locations were biased towards the north section of the property, behind the back door of the facility and towards an area where a solvent storage shed was believed to have been located. The sample justification summary for each soil sample location is provided on **Table 1A**. The soil boring locations are depicted on **Figure 2A**; soil boring logs are found in **Appendix A**.

After sample collection, a small portion (1-2 oz.) of each sample was placed in a polyethylene bag and allowed to attain ambient temperature before PID headspace analysis. PID headspace measurements were collected by inserting the PID probe tip into the polyethylene bag. During PID headspace analysis, each sample was evaluated for obvious physical evidence of impacts (i.e., odor, staining). Each sample was placed in laboratory-provided containers, labeled, and preserved on ice in a cooler. PID headspace analysis measurements and soil descriptions are presented in **Appendix A**. All non-disposable soil sampling equipment was decontaminated between sampling locations using an Alconox wash followed by a clean water rinse.

Up to two soil samples were collected from each boring for laboratory analysis, including one sample collected at a relatively shallow depth (within 3 feet of ground surface) and one sample collected from a relatively deeper depth (below 10 ft bg).

In total between the two sampling events, HRP collected 53 soil samples from the 28 installed soil borings in total. All subsurface samples were analyzed for Total Compound List (TCL) VOCs via EPA Method 8260C, and 16 subsurface samples for TCL semi-volatile organic compounds (SVOCs) via EPA Method 8270D, and Target Analyte List (TAL) Metals via EPA Method 6010C & 7471B. A list of the laboratory analytical methods used for each sample are provided on **Table 1A.** In addition to the Site samples, a total of 4 sets of QA/QC samples were submitted for laboratory analysis including matrix spike and matrix spike duplicate.

## 3.4 Groundwater Characterization

**Monitoring Well Installation**

A total of 10 groundwater monitoring wells were installed at the Site during the RI (2021) and RI Addendum (2023), including 6 shallow overburden wells and 4 bedrock wells. Additional sampling was proposed for properties downgradient (north) of the Site. Property owners were contacted on October 28, 2021 and January 5, 2022 for property access but responses were not received. Should additional data from the Site indicate off-site contamination is a concern, additional attempts at off-site access will be requested.

A truck-mounted hollow stem auger (HSA) drill rig was used to advance through the overburden material and set the 6 overburden monitoring wells at approximate depths of 20 ft bg. The 4 bedrock wells were installed using an HSA drill rig to advance through the overburden material until bedrock refusal was encountered then switched to an air rotary drill bit to advance through bedrock. The depth to bedrock at the Site was between 40 to 60 ft bg as determined by site investigation activities. The bedrock wells were advanced approximately 5 feet into bedrock. The 4 bedrock monitoring wells were each completed at depths of approximately 60 ft bg. A summary of the monitoring well construction details is provided on **Tabel 1B** and the well construction logs are included in **Appendix A**.

Monitoring well construction for both the overburden and bedrock wells consisted of 2-inch diameter PVC with slotted screen and associated solid riser piping to bring the wells to grade. The overburden wells were constructed using 10 feet of 0.010-inch slotted screen. The bedrock wells were constructed using 5 feet of 0.010-inch slotted screen. The installed wells were completed using a granular sand pack installed to a depth of 1 to 2 feet above the screened interval followed by a 1 to 2-foot-thick bentonite grout seal.

Wells were completed at the surface with either a stick-up protective casing or a flush-mounted protective cover and concrete collar, as deemed appropriate by field personnel based on placement. The soil cuttings generated from the well installation were used to fill void spaces during the well construction or containerized, as necessary. All equipment was appropriately decontaminated between sampling locations.

**Monitoring Well Development**

The newly installed wells were developed after completion by pumping and surging to remove gross particulates. All existing monitoring wells were gauged to determine the viability of the well. Any existing monitoring wells with silt settled on the bottom of the well were redeveloped following the parameters used for the newly installed wells.

All purge water obtained during well development was containerized and disposed of in accordance with NYSDEC DER-10. All development equipment was decontaminated between sampling locations or disposed of after one-time use.

**Monitoring Well Sampling**

Groundwater monitoring well sampling activities were completed at least one week after well development to allow equilibration to ambient conditions. An elevation survey of all the wells (new and existing) was performed against a level benchmark to determine groundwater elevations and flow direction at the Site. The elevation survey included top of casing and groundwater elevations. Prior to groundwater sampling, depth to water (DTW) measurements were collected from all monitoring wells using a water level indicator, graduated in 0.01-foot intervals. The groundwater elevation data collected from each well was subsequently used to construct a groundwater contour map to determine the direction of groundwater flow and hydraulic gradient on the Site.

Groundwater samples were collected from the newly installed wells and viable existing monitoring wells (11 total samples were collected during the October 2021 sampling event and 6 during the October 2023 sampling event as directed by NYSDEC) using low-flow sampling techniques. The field parameters collected during low-flow groundwater sampling included: temperature, pH, oxidativereductive potential (ORP), dissolved oxygen (DO), and specific conductance. The sample justification summary for each groundwater sample location is provided on **Table 1A**.

The groundwater samples taken during the October 2021 sampling event were submitted to Eurofins/Test America, an NYSDOH Environmental Laboratory Approval Program (ELAP) and NYSDEC approved laboratory for analysis of the following parameters:

- TCL VOCs +10 by US EPA Method 8260C;
- TCL SVOCs +10 by US EPA Method 8270D;
- TAL metals by US EPA Methods 6010C & 7471B; and
- Per- and Poly-Fluoroalkyl Compounds (PFAS) Analyte list compounds by modified US EPA Method 537.1 (seven samples).

The groundwater samples taken during the October 2023 sampling event were submitted to Pace Analytical, an NYSDOH ELAP and NYSDEC approved laboratory for analysis of the following parameters:

- TCL VOCs +10 by US EPA Method 8260C;

A list of the laboratory analytical methods used for each sample are provided on **Table 1A.** Samples submitted for laboratory analysis were not filtered. Quality control samples were also collected during groundwater sampling to ensure the precision and accuracy of the results. A Duplicate sample was collected at a frequency of 1 per 20 samples. One trip blank per cooler of groundwater samples was also analyzed for TCL VOCs +10. Purge water generated during the monitoring of well sampling activities was disposed of off-site as described in **Section 3.8**.

In addition to the Site samples, 4 QA/QC samples were submitted including:

- DUP 12.4.2020 and Dup a duplicate of MW-13 and MW-8 respectively; and
- One matrix spike and one matrix spike duplicate sample collected from MW-13 and MW-8 respectively.

### 3.5 Surface Water and Sediment Characterization

A total of 4 surface water and 3 sediment samples were collected from the Quassaic Creek during the October 2021 sampling event. The sample justification summary for each surface water and sediment sample location is provided on **Table 1A**. These samples were collected to further evaluate fate and transport mechanisms of contaminants from the Site. Samples were collected downgradient of the Site. The surface water and sediment sample locations are shown in **Figure 2B**.

The locations of the surface water and sediment samples were also located in close proximity to the former paper mill described in **Section 1.4** and layout of the former mill is shown on **Figure 3**. The surface water/sediment sample SW-1/SW-1A is located up stream of the dam. Sample SW-2/SW-2A is located at the midpoint between the upstream and downstream portions of the creek, relative to the former mill. Sample SW-3/SW-3A was collected downstream of the former paper mill. An additional surface water sample was collected from an outfall located 430 feet north of the Site boundary and 90 feet from the eastern side of the former paper mill. The location of the influent side of the outfall and its origin are unknown, but it may be related to the former paper mill.

The surface water samples were submitted to Eurofins/Test America for analysis of:

- TCL VOCs +10 by US EPA Method 8260C;
- TCL SVOCs +20 by US EPA Method 8270D;
- TAL metals by US EPA Method 6010C & 7470A; and
- PFAS Analyte list compounds by modified US EPA Method 537.1

The sediment samples were submitted to Eurofins/Test America for analysis of:

- TCL VOCs +10 by US EPA Method 8260C;
- TCL SVOCs +20 by US EPA Method 8270D; and
- TAL metals by US EPA Method 6010C & 7471B;

A list of the laboratory analytical methods used for each sample are provided on **Table 1A.**

## 3.6 Onsite Soil Vapor Intrusion

Nine sub-slab soil vapor sampling locations were installed inside the Site building using permanent stainless steel sampling points. The remaining 3 soil vapor sampling points were completed as temporary soil vapor sampling points. The 9 indoor air samples were collected at the same locations as the 12 sub-slab soil vapor sampling points (on-site) in accordance with NYSDEC guidance. The soil vapor and indoor/ambient sampling locations are presented in **Figure 2A**.

Two rounds of soil vapor intrusion (SVI) investigations were performed to evaluate the migration of soil vapor impacts and verify previous site data. The first SVI investigation was conducted on October 21, 2021 and consisted of the collection of 12 on-site soil gas samples, 10 indoor air samples, and one ambient air sample. The 12 on-site soil gas samples included 9 interior sub-slab soil vapor sampling locations and 3 exterior soil gas sampling locations. No off-site soil vapor sampling took place during this event pending off-site access.

On March 3, 2022 HRP mobilized to the Site to complete a second round of SVI sampling. A second round was completed to address inconsistencies between round one SVI data and site characterization data. It was also confirmed that the occurrence of elevated levels of ethanol in round one of sampling were not due to cross contamination.

The soil vapor sampling points were installed using an electric rotary hammer drill equipped with half-inch drill bit to access the underlying soil. The sampling points were sealed from the ambient air using non-VOC containing putty and/or stainless-steel permanent kits. Prior to sampling, the integrity of the seal was evaluated using helium and a helium detector. If the sample collection probe failed the tightness test, the subsurface probe seal was modified, and the integrity testing repeated. Once sampled, the vapor points were backfilled and patched with concrete (for temporary points) and/or sealed with secured stainless-steel covers (for any permanent points). The soil vapor samples were collected using a laboratory provided 6-liter Summa canister using 8-hour flow controllers for commercial buildings and 24-hour flow controllers for residential buildings.

The soil gas samples were completed and sampled in accordance with the NYSDOH's Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006. Specific locations were chosen in consultation with the NYSDEC and the NYSDOH and as field conditions allow as shown on **Figure 2A.**

Indoor and ambient air samples were collected simultaneously with sub-slab soil vapor samples using 6-liter Summa canisters were placed approximately five feet above the ground surface at a height corresponding to the average breathing level. The sampling duration was approximately 8-hours, collected at a flow rate of < 0.2 liters/minute.

The soil vapor, indoor air, and ambient air samples were submitted to Eurofins/Test America laboratory and analyzed for:

- VOCs using US EPA Method TO-15.

The sample justification summary for each soil vapor, indoor air and outdoor air sample location is provided on **Table 1A**.

### 3.7 Offsite Soil Vapor Intrusion

Adjacent residential and commercial offsite properties were sampled on March 3, 2022 as part of the second round of the SVI investigation. The following offsite properties were sampled for SVI and indoor air impacts:

- SVI was conducted at a 2-story single family residence at 255 Walsh Ave
- SVI was conducted for an office building in the southeast corner of the brick year located at 247 Walsh Ave
- Indoor air sampling was conducted at the New Windsor Fire Department located at 275 Walsh Ave

The local firehouse was recently renovated and the fire department requested HRP to only collected an indoor air sample to avoid damaging the new fire station floor. These sample locations are also shown in **Figure 2A**. The results of this sampling event are included in **Section 4.5**. The sample justification summary for each soil vapor, indoor air and outdoor air sample location is provided on **Table 1A**.

### 3.8 Site Survey

HRP mobilized to the Site on October 28, 2021 for a relative elevation survey. The relative elevation of the ground, top of casing, and pvc was taken at each of the newly installed monitoring wells (excluding MW-9 and MW-10 which were not installed until September of 2023) and the preexisting monitoring wells on-site. The relative elevation survey utilized the arbitrary datum of 100 ft located at the bottom flange of the fire hydrant on the corner of Walsh Avenue and John Street.

Relative elevations were recorded in feet. Elevations were recorded to the nearest foot. Measurements were calculated from the data to get the relative feet of each of the measurements. The relative elevations were used with the depth to groundwater to get the groundwater flow. The survey plan is included as **Appendix C**.

### 3.9 Disposal of Investigation Derived Waste

Investigation Derived Waste (IDW), which included but not limited to soil cuttings, purged groundwater, and decontamination fluids were generated during the RI was handled in accordance with NYSDEC DER-10. Handling and storage of IDW included the use of New York State Department of Transportation (NYSDOT)-approved 55-gallon drums. These drums were labeled as IDW and temporarily staged on-site in a secure area prior to characterization and off-site disposal.

### 3.10 Deviations from Work Plan

During the RI, deviations from the work plan were as follows:

- Only two groundwater samples, instead of the originally intended seven samples, were analyzed for PFAS compounds. Groundwater PFAS sampling results are included in **Table 3**. Instead, the three surface water samples were collected from the Quassaic Creek, and the one sample collected from the outfall by the creek were analyzed for PFAS compounds after discussions with NYSDEC staff.
- Several off-site soil vapor sampling points were proposed north and northeast of the site (i.e. SV-3, SV-6, SV-13) but were unable to be installed due to property access issues.

# 4.0 LABORATORY ANALYTICAL RESULTS

To identify the nature and extent of contamination at the Site, HRP sampled and submitted soil samples to a NYSDOH ELAP (Environmental Laboratory Approval Program) certified laboratory for analysis of VOCs. HRP sampled and submitted groundwater samples to a NYSDOH ELAP (Environmental Laboratory Approval Program) certified laboratory for analysis of PFAS, VOCs, and 1,4-dioxane.

Eurofins TestAmerica Laboratory an approved NYSDOH ELAP provided the analytical laboratory services for this project for the 2021 mobilization. Pace Analytical Laboratory an approved NYSDOH ELAP provided the analytical laboratory services for this project for the 2022 and 2023 mobilizations. Laboratory results are included in **Appendix D**. A NYSDEC-approved data validator, Analytical Quality Associates Inc., provided data validation services for this project. Data qualifiers and their definitions are included in **Appendix E**. The presentation of results within this text does not include data qualifiers. Detected chemical compounds in the various media sampled as part of the RI and the analytical results are presented in **Tables 2A, 2B and 3-6**.

Compounds detected in the various media tested during this RI were compared to the following New York State standards, criteria, and soil guidance values (SCGs):

- NYSDEC Division of Water Technical and Operational Guidance Series (TOGS 1.1.1); Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations dated October 1993; Revised June 1998; ERRATA Sheet dated January 1999; Addendum dated April 2000; and Addendum dated 2023. Surface water results were compared to the NYSDEC Class B surface water criteria for all samples collected from the Quassaic Creek (a class B stream).

- NYSDEC guidance document "Screening and Assessment of Contaminated Sediment" Dated June 24, 2014 (FSGVs). Specifically, results were compared to the threshold criteria for the following Sediment Classification Categories: Class A (to presents little or no potential for risk to aquatic life), Class B (additional information is needed to determine the potential risk to aquatic life), and Class C (high potential for the sediments to be toxic to aquatic life).

- NYSDEC Regulation, 6 NYCRR Subpart 375-6, "Remedial Program Soil Cleanup Objectives" which applies to the development and implementation of the remedial programs for soil and other media set forth in subparts 375-2 through 375-4 [Inactive Hazardous Waste Disposal Site Remedial Program, Brownfield Cleanup Program, and Environmental Restoration Program] and includes the soil cleanup objective tables developed pursuant to ECL 27-1415(6). To be consistent with the current uses of the Site as a warehouse soil analytical results for this investigation were compared against NYSDEC 6 NYCRR Part 375-6 Unrestricted Use (UU), Commercial Use (CU), Restricted Residential Use (RR), and the Protection of Groundwater (PGW) Soil Cleanup Objectives (SCOs).

- NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York dated October 2006 and Updated Soil Vapor/ Indoor Air Decision Matrices A and B. The guidance values on Matrix A correspond to Carbon Tetrachloride, 1,1-dichloroethene, cis-1,2-DCE, and TCE. The guidance values on Matrix B correspond to methylene Chloride, PCE and 1,1,1-TCA. The decision matrixes provide recommended actions based on the concertation of certain chemicals in the indoor air in conjunction with the concentrations found in the sub slab samples. Recommended actions include "No Further Action", "Identify Source(s) and Resample or Mitigate," "Monitor" and "Mitigate."

## 4.1 Nature and Extent of Soil Impacts

**Observations**

No obvious visual or olfactory evidence (i.e., odors or staining) of contamination was noted in soil samples collected for this RI. Soil boring logs are presented in **Appendix A.**

**Volatile Organic Compounds (VOCs) in Soil**

CVOCs exceeding CUSCOs were not detected in any of the subsurface soil samples collected during the completion of the RI. PCE was detected at a concentration of 11 mg/kg in sample MW-10 (18-20), exceeding the UUSCO of 1.3 mg/kg. Soil CVOC sample results are presented on **Table 2A.** Contaminants of concern (PCE, TCE and 1,1,1-TCA) are depicted in **Figure 5**. Soil laboratory reports are included in **Appendix D**.

**Semi-Volatile Organic Compounds (SVOCs) in Soil**

SVOCs were detected at levels exceeding commercial and unrestricted SCOs in the sample P-20 (0-3). Benzo(a)pyrene was detected at a concentration of 4.8 mg/kg , exceeding the CU SCO of 1.0 mg/kg. Benzo(b)fluoranthene was detected at a concentration of 7.1 mg/kg, exceeding the CU SCO of 5.6 mg/kg. Dibenzo (a, H) anthracene was detected at a concentration of 0.89 mg/kg, exceeding the CU SCO of 0.56 mg/kg**.** Soil SVOC sample results are presented on **Table 2B**. Soil laboratory reports are included in **Appendix D**.

**Metals in Soil**

Metals exceeding commercial use SCOs were not detected in any of the subsurface soil samples collected during the completion of the RI. Soil metals sample results are presented on **Table 2B**. Soil laboratory reports are included in **Appendix D**.

## 4.2 Nature and Extent of Groundwater Impacts

**Observations**

No obvious visual or olfactory evidence (i.e., odors, sheens, or turbidity) of contamination was noted in groundwater samples collected for this RI. Groundwater monitoring logs are presented in **Appendix A.**

**CVOCs in Groundwater**

Several VOC compounds were detected in the overburden and bedrock groundwater samples collected from onsite monitoring wells during the RI. PCE, TCE, and Cis-1,2-dichloroethene (cis-1,2-DCE) were detected at concentrations exceeding the NYSDEC Class GA groundwater criteria in samples collected from three overburden groundwater monitoring wells (MW-8, MW-10 and MW-100 OB) at the Site. PCE was detected in groundwater samples collected from MW-8, MW-10 MW-100 OB at concentrations of 22 µg/L, 39 µg/L and 760 µg/L, exceeding the Class GA criteria of 5 µg/L. TCE was detected in groundwater samples collected from MW-10 and MW-100 OB at a concentrations of 15 µg/L and 28 µg/L, exceeding the Class GA criteria of 5 µg/L**.** Cis-1,2-DCE was detected in groundwater samples collected from MW-10 and MW-100 OB at a concentrations of 18 µg/L and 27 µg/L, exceeding the Class GA criteria of 5 µg/L. PCE was detected in the groundwater sample collected from the bedrock well MW-100 BR at a concentration of 84 µg/L, exceeding the Class GA criteria of 5 µg/L. All groundwater VOC sample results are presented on **Table 3** and are depicted on **Figure 6**. Groundwater laboratory reports are included in **Appendix D**.

**SVOCs in Groundwater**

Several SVOC compounds were detected in groundwater samples collected from the onsite overburden and bedrock wells during the RI. Phenol was detected in the groundwater sample collected from the bedrock well MW-101 BR at a concentration of 7.2 µg/L, exceeding the Class GA criteria of 1.0 µg/L. All groundwater SVOC sample results are presented on **Table 3 and Figure 6**. Groundwater laboratory reports are included in **Appendix D**.

**Metals in Groundwater**

Several metal compounds were detected in the overburden and bedrock groundwater samples collected from 10 of 11 onsite monitoring wells during the RI. Antimony, barium, iron, manganese and sodium were detected at concentrations exceeding the NYSDEC Class GA groundwater criteria in samples collected from six overburden groundwater monitoring wells (MW-1, MW-7, MW-8, MW-100 OB, MW-101 OB, and MW-103 OB) and four bedrock wells (MW-100 BR, MW-101 BR, MW-102 BR and MW-103 BR). All groundwater metals sample results are presented on **Table 3**. Groundwater laboratory reports are included in **Appendix D**.

**Per- and Poly-Fluoroalkyl Compounds (PFAS) and 1,4 Dioxane in Groundwater**

PFAS samples were collected from MW-103 OB and MW-103 BR. Several PFAS compounds were detected at concentrations exceeding the laboratory reporting limits, but well below the Class GA criteria in the groundwater samples collected from MW-103 OB/BR. No groundwater samples had detected concentrations of 1,4-dioxane above the laboratory reporting limit. Groundwater PFAS results are presented on **Table 3 and Figure 6**. Groundwater laboratory reports are included in **Appendix D**.

## 4.3 Nature and Extent of Surface Water Impacts

Three surface water samples were collected from the nearby Quassaic Creek, and 1 surface water sample was collected from a nearby outfall. These samples were analyzed for VOCs, SVOCs, Metals, and PFAS. PCE was detected at a concentration of 1.2 µg/L in surface water sample collected from the outfall, exceeding the NYSDEC Class B Surface Water Fish Propagation A(C) and Fish Survival A(A) Criteria of 1 µg/L. VOCs were not detected above the laboratory reporting limit for surface water samples SW-1, SW-2 or SW-2. SVOCs were not detected at concretions above the laboratory reporting limit for any of the surface water samples collected during the RI. Several metal compounds were detected above the laboratory reporting limits in all four surface water samples. Copper, Iron and Lead were detected at concentrations exceeding the Class B Surface water Fish Propagation A(C) criteria. Several PFAS compounds were detected at concentrations exceeding the laboratory reporting limits, but well below the Class B surface water criteria in all surface water samples collected during the RI. All surface water results are presented on **Table 4** and are depicted on **Figure 7**. Surface water laboratory reports are included in **Appendix D**.

### 4.4 Nature and Extent of Sediment Impacts

Three sediment samples (SW-1A, SW-2A and SW-3A) were collected from the nearby Quassaic Creek collocated with the corresponding surface water samples (SW-1, SW-2 and SW-3). These samples were analyzed for VOCs, SVOCs, and metals. No detections of VOCs were recorded in any of the sediment samples. Sediment sample SW-2A had a detected concentration of total polynuclear aromatic hydrocarbons (PAHs) of 9,050 ug/kg, exceeding the Class A and Class B sediment guidance thresholds of <4,000 ug/kg and 4,000 – 35,000 ug/kg, respectively. Sample SW-3A had a detected concentration of total polynuclear aromatic hydrocarbons (PAHs) of 270,000 ug/kg, exceeding the Class A, Class B and Class C sediment guidance thresholds of < 4,000 ug/kg, 4,000 – 35,000 ug/kg and > 35,000 ug/kg, respectively. Sediments with contaminant concentrations in exceedance of the class C sediment guidance threshold are considered to the highly contaminated and are likely to pose a risk to aquatic life. Several metal compounds including arsenic, cadmium, chromium and silver were detected in all sediment samples at concentrations exceeding the applicable Class A sediment guidance thresholds. Copper, lead, mercury, nickel, and zinc were detected in sediment samples at concentrations exceeding the applicable Class A and Class B sediment guidance thresholds. All sediment results are presented on **Table 5** and are depicted on **Figure 8**. Sediment laboratory reports are included in **Appendix D**.

### 4.5 Nature and Extent of Soil Vapor Impacts

VOCs were not detected at concentrations exceeding the 2017 NYSDOH SVI Guidance values during the initial onsite SVI sampling conducted in 2021. Following a review of the SVI analytical results, HRP identified that ethanol, a non-promulgated VOC compound, was detected in multiple samples at concentrations ranging from 5,700 – 11,000 ug/m$^3$. The ethanol detections may have resulted from poor sample handling and analysis in the laboratory; however, the laboratory was unable to confirm this supposition.

HRP mobilized to the Site in March, 2022 and collected a new set of onsite SVI samples to better quantify the soil vapor and indoor air quality on the Site. Several VOC compounds including TCE, PCE, and methylene chloride were detected in onsite sub slab vapor and indoor air samples at concentrations exceeding the applicable 2017 NYSDOH SVI Guidance. The detected VOC concentrations in sub-slab and indoor samples SV-7/IA-7 and SV-11/IA-11 resulted in a NYSDOH recommendation of identify source(s) and resample or mitigate the source of the impacts. Offsite SVI samples collected from 255 Walsh Ave (SV-15/IA-15) and 247 Walsh Ave (SV-4Comm/IA-Comm) contained several detected VOC compounds at concentrations exceeding the laboratory reporting limit. Methylene chloride was detected in sample SV-15/IA-15 at a concentration that resulted in a NYSDOH recommendation to identify source(s) and resample or mitigate the source of the impacts. The offsite SVI sample SV-4Comm/IA-Comm resulted in a recommendation of no further action. The detected VOC concentrations in the indoor air sample collected from 275 Walsh Ave were all within the "no further action" indoor air thresholds as listed in the 2017 NYSDOH SVI Guidance. The soil vapor results collected during the 2022 mobilization are depicted on **Figure 9.** All soil vapor analytical data and its comparison to the 2017 NYSDOH SVI Guidance values are provided on **Table 6**. Soil vapor laboratory reports are included in **Appendix D**.

### 4.6 Data Validation and Usability

Analytical data obtained during the SC were validated to evaluate the usability of the data. Data Usability Summary Reports (DUSRs) are provided in Appendix F. The DUSRs indicate which data are subject to limitations and identify certain data that are flagged as rejected and should not be used.

Detailed information on data quality is included in the DUSR and included as **Appendix E**.

### 4.7 Conceptual Site Model

Based on the historical information and the data collected during the RI, the VOCs (specifically PCE, TCE, cis-1,2-DCE and 1,1,1-TCA) detected in onsite soil, groundwater and soil vapor are likely indicative of a historical release that occurred in the northern portion of the site. The samples collected from the near surface and subsurface soils had minor VOC impacts in the northern portion of the Site, and the VOC impacts present in onsite soils have been fully delineated. No discrete release area was detected in the onsite soils, however the spatial distribution of VOC groundwater impacts indicates the likely release area was in the vicinity of MW-100 OB/BR and extends north to MW-10 due to the northern/northwestern groundwater flow direction. The groundwater VOC impacts have been fully delineated, and the dissolved-phase overburden groundwater plume is located withing the Site boundary. Fate and transport in each environmental media including soil, overburden groundwater, bedrock groundwater, surface water, sediment, and soil vapor are discussed below.

**<u>Subsurface Soil Fate and Transport</u>**

Contaminants released to the surface or shallow subsurface flow vertically deeper into the subsurface under the force of gravity. The contaminants will move through preferential flow pathways such as tree roots, electrical conduits, pipes, and fractures. As these compounds move through the subsurface, they will become sorbed to the surrounding media. The rate of sorption within a given media is controlled by the physical and chemical characteristics of that media and the contaminant.

Based on field observations and laboratory analytical results, the CVOC impacts are not indicative of a source area, as defined by 6 NYCRR Part 375. No outdoor surface or subsurface soil samples contained detected concentrations of VOCs in exceedance of the UUSCOs with the exception of MW-10 (18-20), which had a detected TCE concentration of 11 mg/kg. None of the shallow indoor soil samples (P-1, P-23, P-24, P-25 and P26) had detected concentrations of VOCs in exceedance of the UUSCOs. The low-level detected VOC soil concentrations were limited to the northern portion of the main site building and the northern parking area.  A historical release of chlorinated solvents may have occurred in the northern portion of the Site, resulting in the VOC groundwater impacts discussed below but no specific soil source area was detected.

The only soil sample with detected concentrations of SVOC compounds (benzo(a)pyrene, benzo(b)fluorene, dibenzo(a,h)anthracene) exceeding the CUSCOs was sample P-20 (0-3). No SVOC compounds were detected in exceedance of the laboratory reporting limits for sample P-20 (8-10) which indicates that the SVOC soil impacts are limited to the surface and near surface soils in this region of the site. The metals exceedances in on-site soils were generally limited to surface and near surface soils between 0-3 feet below grade in the southern and eastern portions of the Site. The SVOC and metal soil impacts are indicative of the general historical commercial use of the property. The soil sample locations with SVOC and metal impacts (P-2, P-11, P-12, P-20 and P-26) are located beneath impervious surfaces such as the parking lot and Site building, which will limit the potential exposure to sensitive receptors.

**Groundwater Fate and Transport**

Contamination in the unsaturated zone in the subsurface can percolate downward until it reaches the saturated zone. Contaminants in groundwater can be found in two phases: free-phase product associated with NAPL (Non-Aqueous Phase Liquid) and dissolved-phase contaminants. The detected CVOC concentrations in the on-site groundwater samples indicate the presence of a dissolved-phase groundwater plume but the concentrations are too low to indicate the on-site presence of NAPL. Dissolved-phase contaminants move through the subsurface via dispersion and diffusion in the direction of groundwater flow. Diffusion is a process where contaminants at a high concentration move to an area of lower concentration to achieve a stable equilibrium. Dispersion is the spreading of a contaminant due its movement through the media of the aquifer. The movement of groundwater through a subsurface source area will cause the contamination to spread over an area much larger than the original source, but at a reduced concentration.

The groundwater beneath the northern portions of the Site is impacted with CVOCs at detected concentrations in exceedance of the NYSDEC Class GA criteria. The extent of the CVOC impacts is limited to the immediate area around MW-100 OB/BR, MW-10 and MW-8. The CVOC groundwater detections are shown in **Figure 6**. The CVOC groundwater impacts likely emanated from a former on-site CVOC release area in the northern region of the Site likely located near MW-100 OB/BR. The CVOC soil results, discussed above, indicate that nearly all of CVOC mass has migrated to the groundwater. The measured groundwater flow direction beneath the Site flows to the north/northeast and mirrors the limited spatial distribution of the CVOC residual impacts. The groundwater contaminated has been fully delineated with minor CVOC exceedances present in the farthest down gradient monitoring well (MW-10). The concentrations of CVOCs rapidly decrease with distance from the presumed historical release area near the northern portion of the main site building and are not indicative on an ongoing release of chlorinated solvents.

The minor SVOC exceedance in the on-site groundwater was limited to MW-101BR and is not indicative on an ongoing source. The SVOC soil impacts detected in the southwestern portion of the Site have not impacted the onsite groundwater quality with the nearest down gradient well (MW-7) showing no SVOC impacts. The sporadic metal impacts present in the onsite groundwater are not indicative of a discrete soil source area. The metals detected in the on-site groundwater (antimony, barium, iron, manganese, and sodium) are common naturally occurring elements in New York State soils and bedrock that are often detected in groundwater. Road salt is also a common source of sodium in groundwater. These results indicate that the metals impacts detected in onsite surface soils are not adversely affecting the on-site groundwater quality. The overburden and bedrock groundwater samples collected from MW-103 OB/BR had detected concentrations of PFAS compounds well below the NYSDEC class GA criteria and are not adversely impacting the onsite groundwater quality.

**Surface Water and Sediment Fate and Transport**

Contaminates in the air, soil and groundwater can be transported to surface water bodies via wind, precipitation, overland transport and the migration of contaminants in groundwater. Contaminated surface water can have a significant impact on sediments through a process known as sedimentation, where suspended particles and pollutants in the water settle and accumulate at the bottom of water bodies. This interaction between contaminated surface water and sediments can lead to various negative environmental and ecological consequences.

The surface water samples collected from the Quassaic Creek and the nearby outfall were impacted with metals (copper, iron, lead) at concentrations in exceedance of the NYSDEC Class B Surface Water criteria. The surface water sampled collected from the outfall had a detected PCE concentration of 1.2 ug/L, which also exceeded the NYSDEC Class B Surface Water criteria of 1 ug/L. The origin of the outfall are unknown but it is not thought to be related to the Site. The outfall is located beneath an area that was developed prior to the construction of the Site. The data indicated that the VOC, SVOC and metal concentrations present in onsite soil and groundwater would likely have insufficient mass to migrate to the creek at concentrations exceeding the applicable regulatory criteria. The sediment samples collected from the creek were impacted with SVOCs and metals at concentrations in exceedance of the NYSDEC Class A, B and C Sediment threshold guidance values. The concentrations of the SVOC and metal impacts increased with distance downstream from the concrete dam.

The Site boundary is approximately 500 feet upgradient from the creek and several current and former commercial/industrial properties are located between the Site and the creek. A potential source of the surface water and sediment impacts is the former Nation Gypsum Company Paper Mill. As previously discussed in **Section 1.4**, the historical Sanborn maps show that multiple machine shops, coal bins, boilers, and multiple direct surface water channels connecting the facility to the creek. The Site was demolished prior to 1995 and has remained vacant. Machine shops are a potential source of VOC compounds due to the common use of chlorinated solvents and petroleum-based lubricants. Coal bins are a common source of SVOCs and metals such as benzo(a)pyrene, benzo(a)anthracene pyrene, arsenic, cadmium, lead and nickel. These SVOC and metal compounds were detected in the sediment samples (SW-1, SW-2A and SW-3A) located in close proximity to the former paper mill, and the contaminant concentrations increase downstream of the former mill. If impacted soils are present in surface soils on the former mill property, erosion of these impacted materials may represent an ongoing source of contamination to the creek. The based on the Sanborn maps and other historical documents reviewed for the RI, there is not obvious connection between the Site and the former paper mill.

**<u>Soil Vapor Fate and Transport</u>**

Contaminants can volatilize directly from soil and groundwater. The concentration of a contaminant in soil vapor is proportional to the contaminant's concentration in groundwater or soil and its equilibrium vapor pressure. The equilibrium vapor pression is the maximum pressure exerted by a vapor while at equilibrium with a solid or liquid phase source at a given temperature. The equilibrium vapor pressure TCE is approximately three times as large as PCE. Soil vapor moves along preferential pathways from the source to the surface. If the soil vapor encounters a low permeability surface, (concrete slab), then its concentration can accumulate to levels that require mitigation.

The soil vapor beneath the building on the Site has been impacted by the soil and groundwater CVOC impacts. The concentrations of PCE, TCE and methylene chloride in the on-site soil vapor are slightly elevated above regulatory standards.

The detected concentration of methylene chloride in the offsite SVI sample SV-15/IA-15 collected from 255 Walsh Ave resulted in the NYSDOH recommendation to identify sources and resample or mitigate. The property is hydraulically upgradient of the Site boundary and methylene chloride was not detected in any onsite soil or groundwater sample in exceedance of the applicable regulatory criteria. The data collected during the RI does not indicate that the Site is the source of the indoor air impacts detected in sample SV-15/IA-15. Methylene chloride is a common laboratory solvent and may not be present in the subsurface

# 5.0 QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT

A qualitative human health exposure assessment was performed to evaluate the potential risk (if present) to receptors from Site-related contaminants. This assessment was performed for current and future conditions.

An exposure pathway describes how an individual may be exposed to contaminants originating from the Site. As defined by DER-10, an exposure pathway has five elements: 1) a contaminant source, 2) contaminant release and transport mechanisms, 3) a point of exposure, 4) a route of exposure, and 5) a receptor population. An exposure pathway is complete when all five elements of an exposure pathway exist. An exposure pathway is considered a potential pathway when one or more of the elements currently does not exist but could in the future.

Exposure assessments are discussed below, organized by environmental media.

## 5.1 Soil

The five exposure pathway elements for on-site soils are evaluated below:

| Exposure Pathway Element | Analysis |
|---|---|
| Contaminant Source | CVOC, SVOC, and metal impacts to Site soils have been delineated and are limited to subsurface soils. No exceedances of CSCOs were observed in the samples analyzed for CVOCs and metals. A single exceedance of SVOCs was observed under the parking lot and exceeded CSCOs. Surface soil in the strip of wooded area on the norther boundary of the site was not sampled due to lack of exceedances in soil across the site. The CVOC soil source is contained in the northern portion of the site. The SVOC soil source area is limited to the western edge of the property. |
| Contaminant Release and Transport Mechanism | Contaminants in on-site soils could be transported to an exposed population via volatilization into the soil vapor or leaching into the groundwater. |
| Point of Exposure | There is currently no direct exposure pathway to impacted soils as impacts are limited to subsurface soils, which are contained under the clean soil and hardscape and no intrusive activities are occurring on-site that disturb soils and generate inhalable dust. During possible future development or remedial activities, specifically disturbance of soils, the potential for exposures to subsurface would increase for on-site workers, utility workers, trespassers, and visitors. |
| Route of Exposure | Potential routes of exposure to soils include dermal contact, ingestion, and inhalation of soil particulates. |
| Receptor Population | The Receptor population is limited to future Site workers. |

Based on the above analysis an exposure pathway is not expected to exist unless future construction activities take place which disturbs on-site subsurface soils.

## 5.2 Groundwater

The five exposure pathway elements for the overburden and bedrock groundwater on and around the Site are evaluated below:

| Exposure Pathway Element | Analysis |
|---|---|
| Contaminant Source | CVOC and SVOC impacts to groundwater are limited to the overburden aquifer in the area north and west of the building and are understood to be residual impacts related to historical releases. Neither CVOC nor SVOC impacts have been identified in bedrock groundwater. Metals have been detected at elevated concentrations in the groundwater, but it is suspected to be caused by groundwater interference with bedrock. |
| Contaminant Release and Transport Mechanism | Groundwater flows north, based on the nature and extent of CVOC impacts observed during 2021 and 2023 sampling events, the concentration of CVOCs in the groundwater reduced between the sampling periods. SVOC groundwater impacts are limited to the western portion of the Site and there is no evidence of off-site contaminant transport. During transport it is expected that the concentrations of contaminants in the groundwater will likely reduce due to natural attenuation and dilution. Should on-site data in the contaminant source zone or northern boundary monitoring wells indicate the assumptions above (natural attenuation and dilution) are not occurring, additional actions may be taken. These actions will inform on groundwater contamination migration. |
| Point of Exposure | There is currently no direct exposure pathway to groundwater impacts at or around the Site. The Site and surrounding area are served by public drinking water sourced from the town of New Windsor. There are no known drinking water supply wells. Receptors could come into contact with on-site groundwater if private wells are installed at the property.<br><br>An additional potential exposure exists if ground intrusive activities are completed at the Site. During possible future development or during remedial action, the potential for direct exposure to groundwater would increase for on-site workers. |
| Route of Exposure | Potential routes of exposure to groundwater include dermal contact and ingestion of groundwater. |
| Receptor Population | The receptor population is limited to future Site workers or occupants. |

Based on the above analysis an exposure pathway is not expected to exist unless on-site construction activities take place in which groundwater is encountered or if a new water supply well is constructed at the Site.

## 5.3 Soil Vapor

The five exposure pathway elements for the soil vapor on and around the Site are evaluated below:

| Exposure Pathway Element | Analysis |
|---|---|
| Contaminant Source | Based on compounds detected, CVOCs and SVOC impacts exist in soil vapor beneath the slab of the main Site building. |
| Contaminant Release and Transport Mechanism | Based on groundwater results from monitoring wells, these VOC impacts are not migrating through off-site groundwater. Therefore, soil vapor migration onto off-site properties is not anticipated. |
| Point of Exposure | Data collected to date indicates soil vapor intrusion is occurring in some areas of the building. |
| Route of Exposure | Potential routes of exposure to soil vapor includes the inhalation of contaminants in indoor air. |
| Receptor Population | The receptor population is limited to Site workers and occupants, visitors, and future Site workers or occupants. |

Based on the above analysis an exposure pathway exists and detected concentrations of select CVOCs (PCE, TCE and methylene chloride) may pose a potential threat to the on-site warehouse building occupants and surrounding impacted properties. Sampling results from collocated sub slab and indoor air samples suggest monitoring as per NYSDOH Decision Matrices. SVI Questionnaires and chemical inventories are included in **Appendix A**.

## 5.4 Surface Water and Sediment

The results of the RI indicate that the types and concentrations of contaminants in onsite media differ significantly from those detected in the creek. The impacts in the creek are likely associated with the industries adjacent to the creek rather than the Site, as no discernible direct transport pathway from the Site to the creek was identified.

## 6.0 FISH AND WILDLIFE RESOURCES IMPACT ANALYSIS

HRP's review of the NYSDEC ERM, and other available maps and resources identified the following ecologically significant areas within a half mile radius of the Site.

There is a stream, Quassaic Creek, located within a 0.5-mile radius of the Site that is listed as within a half mile of an environmentally sensitive area listed as "rare plants and animals". The Hudson River is approximately 4,000 feet east of the Site.

The Site and surrounding area are in a mixed commercial and residential setting. The ecological features are limited to wooded areas except for the waterbodies stated above. Based on the nature and extent of soil and groundwater impacts, the ecologically significant areas described above are not close enough to the Site to be impacted.

A topographic map showing fish and wildlife resource features within one-half mile of the Site is depicted on **Figure 10.**

Based on the concentrations of contaminants observed in the sediment and surface water samples collected, as determined pursuant to NYSDEC's DER-10 Section 3.10.1(c)(1), a Fish and Wildlife Resources Impact Analysis is not required as part of this RI.

# 7.0 CONCLUSIONS

All data collected to date indicates the presence of low level CVOC impacts in soil, groundwater, and soil vapor samples collected throughout the Site. The findings of the RI Report delineated onsite impacts as well as determined the fate and transport of impacts.

VOC detections in soil were limited to the northern portion of the Site and were generally detected at concentrations not exceeding the applicable UUSCOs. The soil data results were not indicative of a recent release of chlorinated solvents and the data did not indicate that an ongoing soil source area was present on the Site. VOC groundwater impacts were limited to the northern parking areas of the Site. The groundwater data indicates that a VOC dissolved phase groundwater plume emanating from the area near MW-100 OB/BR has migrated down gradient to the areas of MW-8a and MW-10. The likely source of the groundwater VOC impacts was a historical surface to near surface release of chlorinated solvents that partitioned from the soil to the groundwater. The groundwater VOC concentrations significantly decrease with distance from MW-100 OB/BR and the VOC groundwater impacts do not appear to impact the adjacent properties. The onsite SVI sampling indicated that the VOC impacts in the soil and groundwater have caused impacts the Site's indoor air quality. Four of the eleven pair sub slab indoor air samples indicated mitigation or further sampling was needed to determine the cause of indoor air impacts. One sample, SV-15 had increased concentrations of methylene chloride requiring mitigation/resampling per NYSDOH decision matrix that may have been caused by indoor air pollution from chemicals kept in the same room. The results of the offsite SVI sampling indicate that the Site has not impacted the indoor air quality of the adjacent properties.

The surface water and sediment samples indicate that the creek has been impacted by SVOCs and metals. As stated in the preceding sections of the RI, the composition and levels of onsite contaminants significantly differ from those found in the creek. The SVOC and metal impacts detected in the creek surface water and sediment samples are likely related to the former paper mill and not from Site.

## 7.1 Evaluation of Data Gaps

The on-site CVOC impacts present in the soil, groundwater, and soil vapor have been fully delineated. The low levels of impacts observed are indicative of the historic industrial usage of the Site. The impacts observed from the sampling events are present at levels that do not warrant further investigation or mitigation.

Further investigations of Sanborn Fire Maps from the Library of Congress website to determine the cause of elevated concentrations of PAHs in the surface water and sediment samples from Quassaic Creek indicated the presence of another building on-site as well as a former paper mill along this Creek. Previous environmental investigations indicated the presence of a "shed" where the solvents were stored and was located at the northwestern corner of the property. The Sanborn map indicated the presence of a building labeled, "Radio Parts Manufacturing" and was positioned at the northwest corner of the property at the bend of John Street. The Sanborn map indicates the building was a part of the same property as the building labeled "Radio Coil Manufacturing." Between the last available Sanborn map and the classification of the Site on the State Superfund Program, the parcel had been subdivided into two parcels. The 251 Walsh Road Site only includes the tax parcel which abuts Walsh Avenue with the main building located in the center of the parcel. The Superfund Site does not include the parcel containing the "Radio Parts Manufacturing" building. The reported "shed" on the northern portion of the site reportedly contained the solvents used in the manufacturing process. These impacts may be related to the former papermill (owned by National Gypsum Company) that was formally located adjacent to Quassaic Creek. The plant has been demolished; only the former smokestack remains. The remainder of the property is woody and vegetated.

## 8.0 **REFERENCES**

Bugliosi, E. F., & Trudell, R. A. (n.d.). *Potential yields of wells in unconsolidated aquifers in upstate New York--lower Hudson sheet*. map.

Fisher, DW, Isachsen, Y.W. and Rickard, L.V., *1970 Geologic Map of New York*, New York State Museum and Science Service, Map and Chart Series No. 15

Parsons, *Site Characterization Report for the Walsh Road Site (NYSDEC #336077) New Windsor, Orange County, New York*, New York State Department of Environmental Conservation, 2015

Sanborn Fire Insurance Maps, Library of Congress, 1950, https://www.loc.gov/item/sanborn06119_003.5/

Sanborn Fire Insurance Maps, Library of Congress, 1957, https://www.loc.gov/item/sanborn06119_004/

# FIGURES


0 1,000 2,000 4,000 6,000 8,000 Feet

1 inch = 2,000 feet

N

USGS Quadrangle Information
Quad ID: 41074-D1
Name: Bay Cornwall, New York
Date Rev: 1976
Date Pub: 1981

**Figure 1**
**Site Location Map**
**251 Walsh Avenue**
**New Windsor, New York**
**HRP # DEC1018.P3**
**Scale 1" = 2,000'**


HRP
MOVE YOUR ENVIRONMENT FORWARD
ONE FAIRCHILD SQUARE
SUITE 110
CLIFTON PARK, NY 12065
(518) 877-7101
HRPASSOCIATES.COM


Path: S:\Data\NYDEC - NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION\NEW WINDSOR\251 WALSH ROAD, NEW WINDSOR, NY\DEC1018P3\GIS\Figure 1 - Site Location.mxd


ONE FAIRCHILD SQUARE
SUITE 110
CLIFTON PARK, NY 12065
(518) 877-7101
HRPASSOCIATES.COM

North

0 25 50 Feet

| Revisions | | |
|---|---|---|
| No. | Date | |
| | | |

| Designed By: | Drawn By: | Reviewed By: |
|---|---|---|
| LLT | CMS | DCS |

| Issue Date: | Project No: | Sheet Size: |
|---|---|---|
| 1/22/2024 | DEC1018.P3 | 11x17 |

# Site Plan
## Soil, Groundwater and Soil Vapor Locations

251 Walsh Rd Site
C#36077
251 Walsh Avenue,
New Windsor, New York

Figure No.
**2A**

Path: S:\Data\NYDEC - NYSDEC\NEW WINDSOR, NY\DEC1018P3\GIS\WalshRoad\WalshRoad2.aprx


HRP
MOVE YOUR ENVIRONMENT FORWARD

ONE FAIRCHILD SQUARE
SUITE 110
CLIFTON PARK, NY 12065
(518) 877-7101
HRPASSOCIATES.COM

North

0 50 100 Feet

| Revisions | | | | | |
|---|---|---|---|---|---|
| No. | Date | | | | |

Designed By: LLT
Drawn By: CMS
Reviewed By: DCS

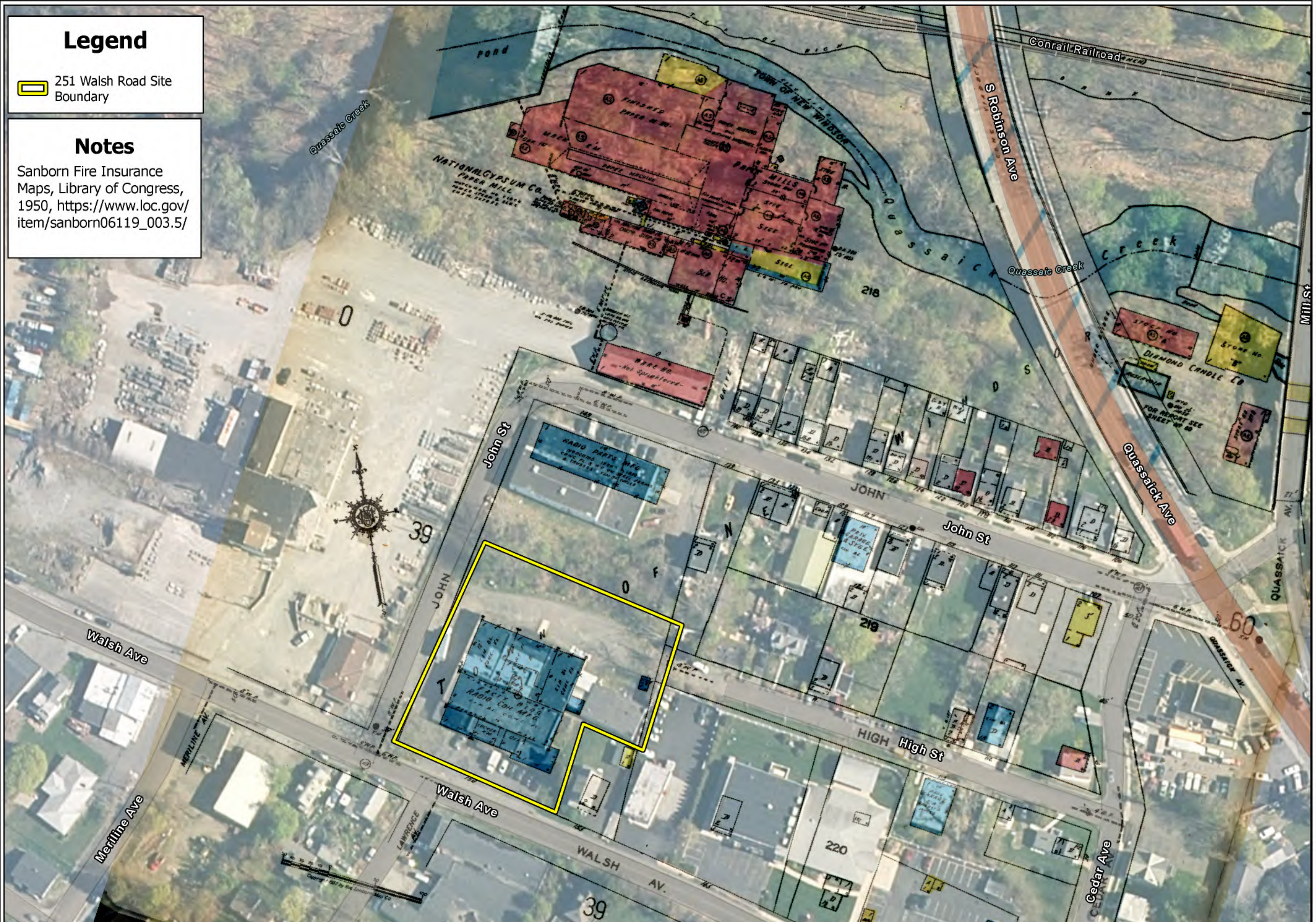
Issue Date: 1/22/2024
Project No: DEC1018.P3
Sheet Size: 11x17

Site Plan
Surface Water and Sediment Sampling Locations

251 Walsh Rd Site
C#36077
251 Walsh Avenue,
New Windsor, New York

Figure No.
# 2B

Path: S:\Data\NYDEC - NYSDEC\NEW WINDSOR, NY\DEC1018P3\GIS\WalshRoad\WalshRoad2.aprx




HRP
MOVE YOUR ENVIRONMENT FORWARD

ONE FAIRCHILD SQUARE
SUITE 110
CLIFTON PARK, NY 12065
(518) 877-7101
HRPASSOCIATES.COM

North

0 50 100 Feet

| Revisions | | |
|---|---|---|
| No. | Date | |

Designed By: LLT

Drawn By: CMS

Reviewed By: DCS

Issue Date: 1/5/2024

Project No: DEC1018.P3

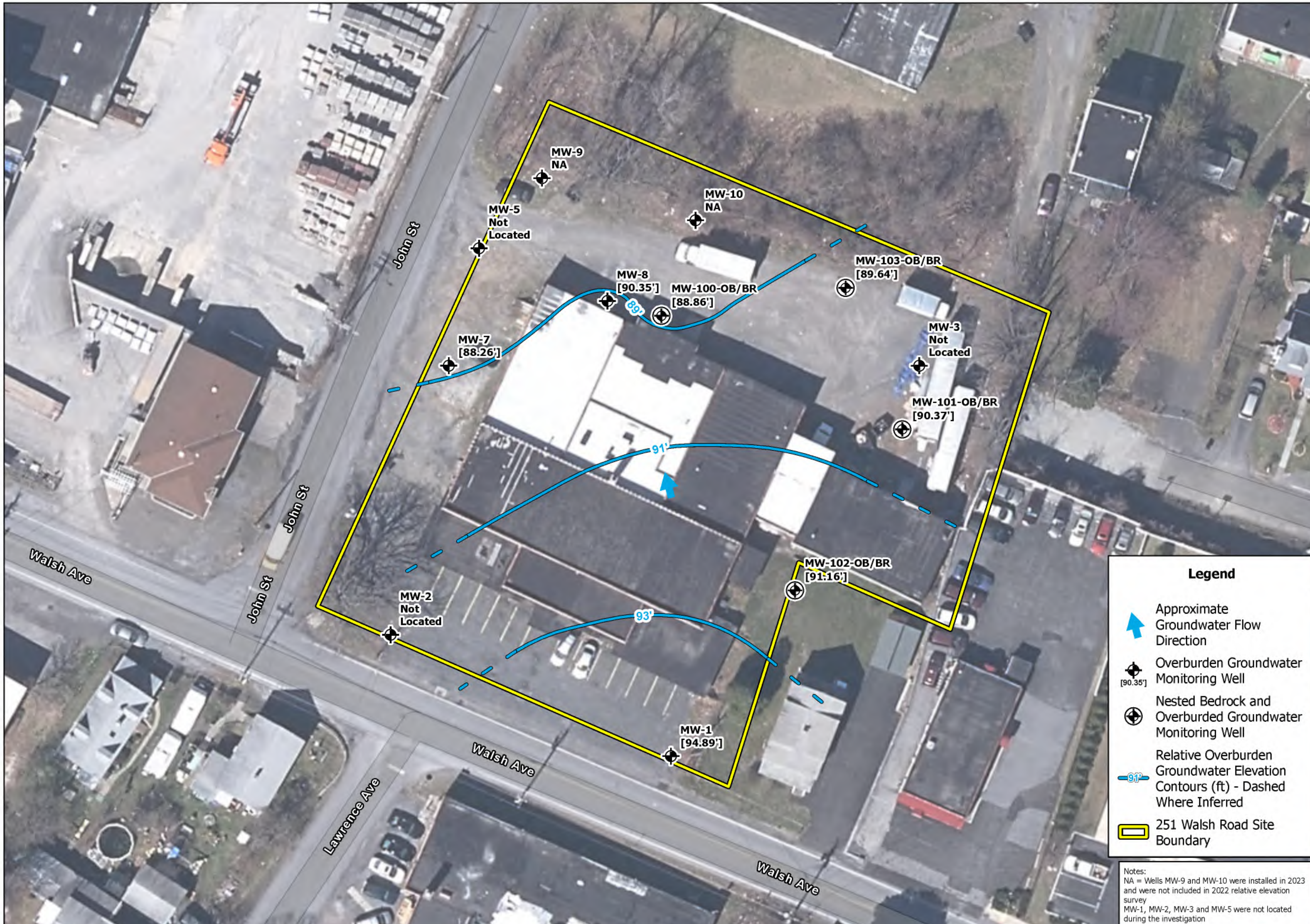
Sheet Size: 11x17

# Sanborn Fire Map

251 Walsh Rd Site
C#36077
251 Walsh Avenue,
New Windsor, New York

Figure No.
**3**

Path: S:\Data\NYDEC - NYSDEC\NEW WINDSOR\251 WALSH ROAD, NEW WINDSOR, NY\DEC1018P3\GIS\WalshRoad\WalshRoad2.aprx




Path: S:\Data\NYDEC\NYDEC - NYSDEC\NEW WINDSOR, NY\DEC1018P3\GIS\WalshRoad\WalshRoad2.aprx


HRP
MOVE YOUR ENVIRONMENT FORWARD
ONE FAIRCHILD SQUARE
SUITE 110
CLIFTON PARK, NY 12065
(518) 877-7101
HRPASSOCIATES.COM


North

0 10 20 40 Feet

| Revisions | | | | | |
|---|---|---|---|---|---|
| No. | Date | | | | |

Designed By: CMS

Drawn By: LLT

Reviewed By: DS

Issue Date: 01/24/2024

Project No: DEC1018.P3

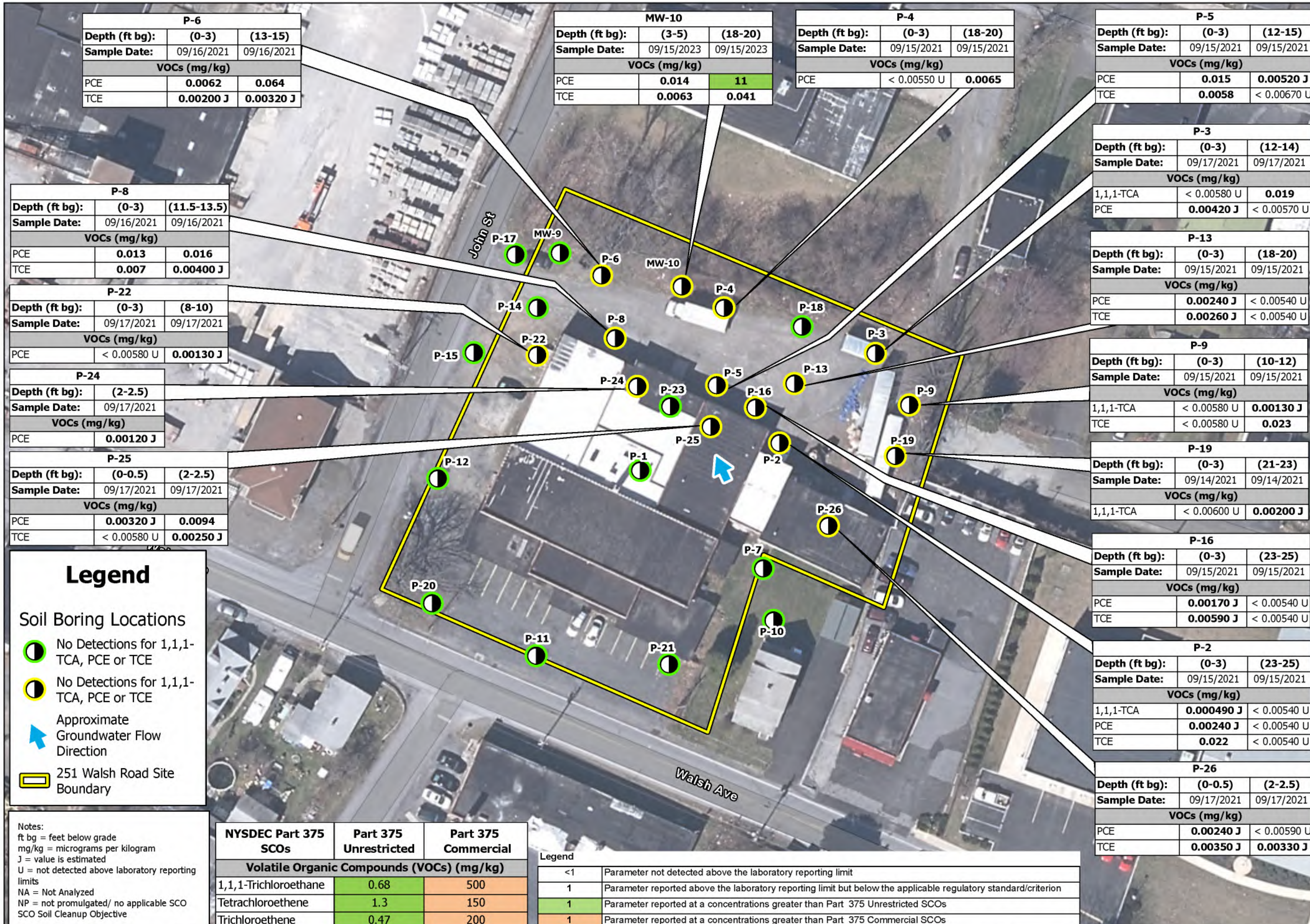
Sheet Size: 11x17

# Relative Overburden Groundwater Elevations

251 Walsh Road Site
251 Walsh Avenue
New Windsor, New York

Figure No.

4




| P-6 | | |
|---|---|---|
| Depth (ft bg): | (0-3) | (13-15) |
| Sample Date: | 09/16/2021 | 09/16/2021 |
| VOCs (mg/kg) | | |
| PCE | 0.0062 | 0.064 |
| TCE | 0.00200 J | 0.00320 J |

| MW-10 | | |
|---|---|---|
| Depth (ft bg): | (3-5) | (18-20) |
| Sample Date: | 09/15/2023 | 09/15/2023 |
| VOCs (mg/kg) | | |
| PCE | 0.014 | 11 |
| TCE | 0.0063 | 0.041 |

| P-4 | | |
|---|---|---|
| Depth (ft bg): | (0-3) | (18-20) |
| Sample Date: | 09/15/2021 | 09/15/2021 |
| VOCs (mg/kg) | | |
| PCE | < 0.00550 U | 0.0065 |

| P-5 | | |
|---|---|---|
| Depth (ft bg): | (0-3) | (12-15) |
| Sample Date: | 09/15/2021 | 09/15/2021 |
| VOCs (mg/kg) | | |
| PCE | 0.015 | 0.00520 J |
| TCE | 0.0058 | < 0.00670 U |

| P-3 | | |
|---|---|---|
| Depth (ft bg): | (0-3) | (12-14) |
| Sample Date: | 09/17/2021 | 09/17/2021 |
| VOCs (mg/kg) | | |
| 1,1,1-TCA | < 0.00580 U | 0.019 |
| PCE | 0.00420 J | < 0.00570 U |

| P-8 | | |
|---|---|---|
| Depth (ft bg): | (0-3) | (11.5-13.5) |
| Sample Date: | 09/16/2021 | 09/16/2021 |
| VOCs (mg/kg) | | |
| PCE | 0.013 | 0.016 |
| TCE | 0.007 | 0.00400 J |

| P-13 | | |
|---|---|---|
| Depth (ft bg): | (0-3) | (18-20) |
| Sample Date: | 09/15/2021 | 09/15/2021 |
| VOCs (mg/kg) | | |
| PCE | 0.00240 J | < 0.00540 U |
| TCE | 0.00260 J | < 0.00540 U |

| P-22 | | |
|---|---|---|
| Depth (ft bg): | (0-3) | (8-10) |
| Sample Date: | 09/17/2021 | 09/17/2021 |
| VOCs (mg/kg) | | |
| PCE | < 0.00580 U | 0.00130 J |

| P-9 | | |
|---|---|---|
| Depth (ft bg): | (0-3) | (10-12) |
| Sample Date: | 09/15/2021 | 09/15/2021 |
| VOCs (mg/kg) | | |
| 1,1,1-TCA | < 0.00580 U | 0.00130 J |
| TCE | < 0.00580 U | 0.023 |

| P-24 | |
|---|---|
| Depth (ft bg): | (2-2.5) |
| Sample Date: | 09/17/2021 |
| VOCs (mg/kg) | |
| PCE | 0.00120 J |

| P-19 | | |
|---|---|---|
| Depth (ft bg): | (0-3) | (21-23) |
| Sample Date: | 09/14/2021 | 09/14/2021 |
| VOCs (mg/kg) | | |
| 1,1,1-TCA | < 0.00600 U | 0.00200 J |

| P-25 | | |
|---|---|---|
| Depth (ft bg): | (0-0.5) | (2-2.5) |
| Sample Date: | 09/17/2021 | 09/17/2021 |
| VOCs (mg/kg) | | |
| PCE | 0.00320 J | 0.0094 |
| TCE | < 0.00580 U | 0.00250 J |

| P-16 | | |
|---|---|---|
| Depth (ft bg): | (0-3) | (23-25) |
| Sample Date: | 09/15/2021 | 09/15/2021 |
| VOCs (mg/kg) | | |
| PCE | 0.00170 J | < 0.00540 U |
| TCE | 0.00590 J | < 0.00540 U |

| P-2 | | |
|---|---|---|
| Depth (ft bg): | (0-3) | (23-25) |
| Sample Date: | 09/15/2021 | 09/15/2021 |
| VOCs (mg/kg) | | |
| 1,1,1-TCA | 0.000490 J | < 0.00540 U |
| PCE | 0.00240 J | < 0.00540 U |
| TCE | 0.022 | < 0.00540 U |

| P-26 | | |
|---|---|---|
| Depth (ft bg): | (0-0.5) | (2-2.5) |
| Sample Date: | 09/17/2021 | 09/17/2021 |
| VOCs (mg/kg) | | |
| PCE | 0.00240 J | < 0.00590 U |
| TCE | 0.00350 J | 0.00330 J |

## Legend

Soil Boring Locations

- No Detections for 1,1,1-TCA, PCE or TCE
- No Detections for 1,1,1-TCA, PCE or TCE
- Approximate Groundwater Flow Direction
- 251 Walsh Road Site Boundary

Notes:
ft bg = feet below grade
mg/kg = micrograms per kilogram
J = value is estimated
U = not detected above laboratory reporting limits
NA = Not Analyzed
NP = not promulgated/ no applicable SCO
SCO Soil Cleanup Objective

| NYSDEC Part 375 SCOs | Part 375 Unrestricted | Part 375 Commercial |
|---|---|---|
| Volatile Organic Compounds (VOCs) (mg/kg) | | |
| 1,1,1-Trichloroethane | 0.68 | 500 |
| Tetrachloroethene | 1.3 | 150 |
| Trichloroethene | 0.47 | 200 |

| Legend | |
|---|---|
| <1 | Parameter not detected above the laboratory reporting limit |
| 1 | Parameter reported above the laboratory reporting limit but below the applicable regulatory standard/criterion |
| 1 | Parameter reported at a concentrations greater than Part 375 Unrestricted SCOs |
| 1 | Parameter reported at a concentrations greater than Part 375 Commercial SCOs |


HRP
MOVE YOUR ENVIRONMENT FORWARD
ONE FAIRCHILD SQUARE
SUITE 110
CLIFTON PARK, NY 12065
(518) 877-7101
HRPASSOCIATES.COM


North

0 25 50 Feet

| Revisions | | |
|---|---|---|
| No. | Date | |

Designed By: LLT
Drawn By: CMS
Reviewed By: DS

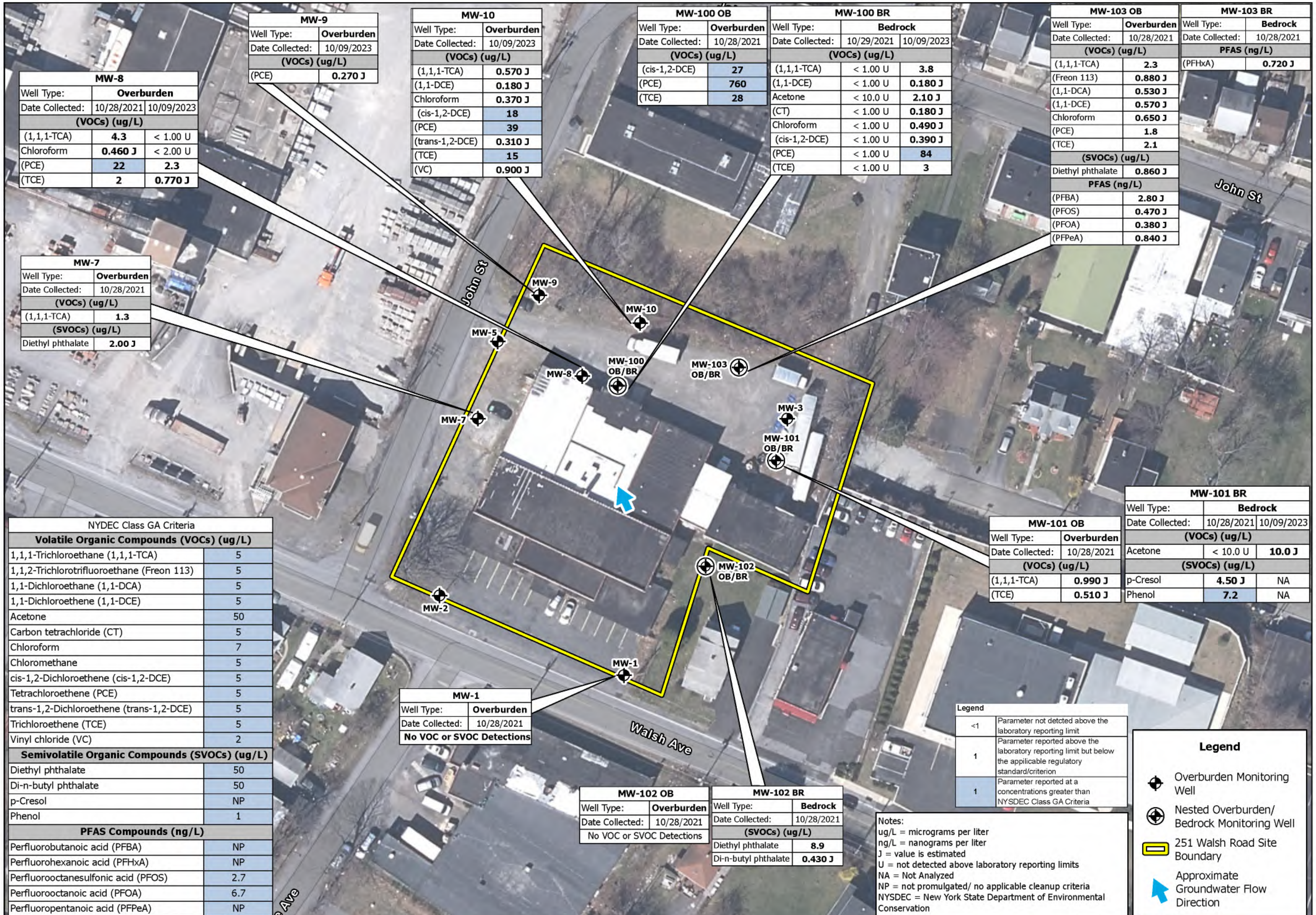
Issue Date: 12/22/2023
Project No: DEC1018.P3
Sheet Size: 11x17

Soil Laboratory Analytical Results 1,1,1-TCA, PCE and TCE (Detections Only)

251 Walsh Rd Site
C#36077
251 Walsh Avenue,
New Windsor, New York

Figure No.

5




| MW-9 | |
|---|---|
| Well Type: | Overburden |
| Date Collected: | 10/09/2023 |
| (VOCs) (ug/L) | |
| (PCE) | 0.270 J |

| MW-8 | | |
|---|---|---|
| Well Type: | Overburden | |
| Date Collected: | 10/28/2021 | 10/09/2023 |
| (VOCs) (ug/L) | | |
| (1,1,1-TCA) | 4.3 | < 1.00 U |
| Chloroform | 0.460 J | < 2.00 U |
| (PCE) | 22 | 2.3 |
| (TCE) | 2 | 0.770 J |

| MW-10 | |
|---|---|
| Well Type: | Overburden |
| Date Collected: | 10/09/2023 |
| (VOCs) (ug/L) | |
| (1,1,1-TCA) | 0.570 J |
| (1,1-DCE) | 0.180 J |
| Chloroform | 0.370 J |
| (cis-1,2-DCE) | 18 |
| (PCE) | 39 |
| (trans-1,2-DCE) | 0.310 J |
| (TCE) | 15 |
| (VC) | 0.900 J |

| MW-100 OB | |
|---|---|
| Well Type: | Overburden |
| Date Collected: | 10/28/2021 |
| (VOCs) (ug/L) | |
| (cis-1,2-DCE) | 27 |
| (PCE) | 760 |
| (TCE) | 28 |

| MW-100 BR | | |
|---|---|---|
| Well Type: | Bedrock | |
| Date Collected: | 10/29/2021 | 10/09/2023 |
| (VOCs) (ug/L) | | |
| (1,1,1-TCA) | < 1.00 U | 3.8 |
| (1,1-DCE) | < 1.00 U | 0.180 J |
| Acetone | < 10.0 U | 2.10 J |
| (CT) | < 1.00 U | 0.180 J |
| Chloroform | < 1.00 U | 0.490 J |
| (cis-1,2-DCE) | < 1.00 U | 0.390 J |
| (PCE) | < 1.00 U | 84 |
| (TCE) | < 1.00 U | 3 |

| MW-103 OB | |
|---|---|
| Well Type: | Overburden |
| Date Collected: | 10/28/2021 |
| (VOCs) (ug/L) | |
| (1,1,1-TCA) | 2.3 |
| (Freon 113) | 0.880 J |
| (1,1-DCA) | 0.530 J |
| (1,1-DCE) | 0.570 J |
| Chloroform | 0.650 J |
| (PCE) | 1.8 |
| (TCE) | 2.1 |
| (SVOCs) (ug/L) | |
| Diethyl phthalate | 0.860 J |
| PFAS (ng/L) | |
| (PFBA) | 2.80 J |
| (PFOS) | 0.470 J |
| (PFOA) | 0.380 J |
| (PFPeA) | 0.840 J |

| MW-103 BR | |
|---|---|
| Well Type: | Bedrock |
| Date Collected: | 10/28/2021 |
| PFAS (ng/L) | |
| (PFHxA) | 0.720 J |

| MW-7 | |
|---|---|
| Well Type: | Overburden |
| Date Collected: | 10/28/2021 |
| (VOCs) (ug/L) | |
| (1,1,1-TCA) | 1.3 |
| (SVOCs) (ug/L) | |
| Diethyl phthalate | 2.00 J |

| MW-101 OB | |
|---|---|
| Well Type: | Overburden |
| Date Collected: | 10/28/2021 |
| (VOCs) (ug/L) | |
| (1,1,1-TCA) | 0.990 J |
| (TCE) | 0.510 J |

| MW-101 BR | | |
|---|---|---|
| Well Type: | Bedrock | |
| Date Collected: | 10/28/2021 | 10/09/2023 |
| (VOCs) (ug/L) | | |
| Acetone | < 10.0 U | 10.0 J |
| (SVOCs) (ug/L) | | |
| p-Cresol | 4.50 J | NA |
| Phenol | 7.2 | NA |

| MW-1 | |
|---|---|
| Well Type: | Overburden |
| Date Collected: | 10/28/2021 |
| No VOC or SVOC Detections | |

| MW-102 OB | |
|---|---|
| Well Type: | Overburden |
| Date Collected: | 10/28/2021 |
| No VOC or SVOC Detections | |

| MW-102 BR | |
|---|---|
| Well Type: | Bedrock |
| Date Collected: | 10/28/2021 |
| (SVOCs) (ug/L) | |
| Diethyl phthalate | 8.9 |
| Di-n-butyl phthalate | 0.430 J |

| NYDEC Class GA Criteria | |
|---|---|
| **Volatile Organic Compounds (VOCs) (ug/L)** | |
| 1,1,1-Trichloroethane (1,1,1-TCA) | 5 |
| 1,1,22-Trichlorotrifluoroethane (Freon 113) | 5 |
| 1,1-Dichloroethane (1,1-DCA) | 5 |
| 1,1-Dichloroethene (1,1-DCE) | 5 |
| Acetone | 50 |
| Carbon tetrachloride (CT) | 5 |
| Chloroform | 7 |
| Chloromethane | 5 |
| cis-1,2-Dichloroethene (cis-1,2-DCE) | 5 |
| Tetrachloroethene (PCE) | 5 |
| trans-1,2-Dichloroethene (trans-1,2-DCE) | 5 |
| Trichloroethene (TCE) | 5 |
| Vinyl chloride (VC) | 2 |
| **Semivolatile Organic Compounds (SVOCs) (ug/L)** | |
| Diethyl phthalate | 50 |
| Di-n-butyl phthalate | 50 |
| p-Cresol | NP |
| Phenol | 1 |
| **PFAS Compounds (ng/L)** | |
| Perfluorobutanoic acid (PFBA) | NP |
| Perfluorohexanoic acid (PFHxA) | NP |
| Perfluorooctanesulfonic acid (PFOS) | 2.7 |
| Perfluorooctanoic acid (PFOA) | 6.7 |
| Perfluoropentanoic acid (PFPeA) | NP |

Legend

| | |
|---|---|
| <1 | Parameter not detcted above the laboratory reporting limit |
| 1 | Parameter reported above the laboratory reporting limit but below the applicable regulatory standard/criterion |
| 1 | Parameter reported at a concentrations greater than NYSDEC Class GA Criteria |

Notes:
ug/L = micrograms per liter
ng/L = nanograms per liter
J = value is estimated
U = not detected above laboratory reporting limits
NA = Not Analyzed
NP = not promulgated/ no applicable cleanup criteria
NYSDEC = New York State Department of Environmental Conservation

**Legend**

- Overburden Monitoring Well
- Nested Overburden/ Bedrock Monitoring Well
- 251 Walsh Road Site Boundary
- Approximate Groundwater Flow Direction

HRP
MOVE YOUR ENVIRONMENT FORWARD

ONE FAIRCHILD SQUARE
SUITE 110
CLIFTON PARK, NY 12065
(518) 877-7101
HRPASSOCIATES.COM

North

0 30 60 Feet

| Revisions | | |
|---|---|---|
| No. | Date | |

Designed By: LLT
Drawn By: CMS
Reviewed By: DS

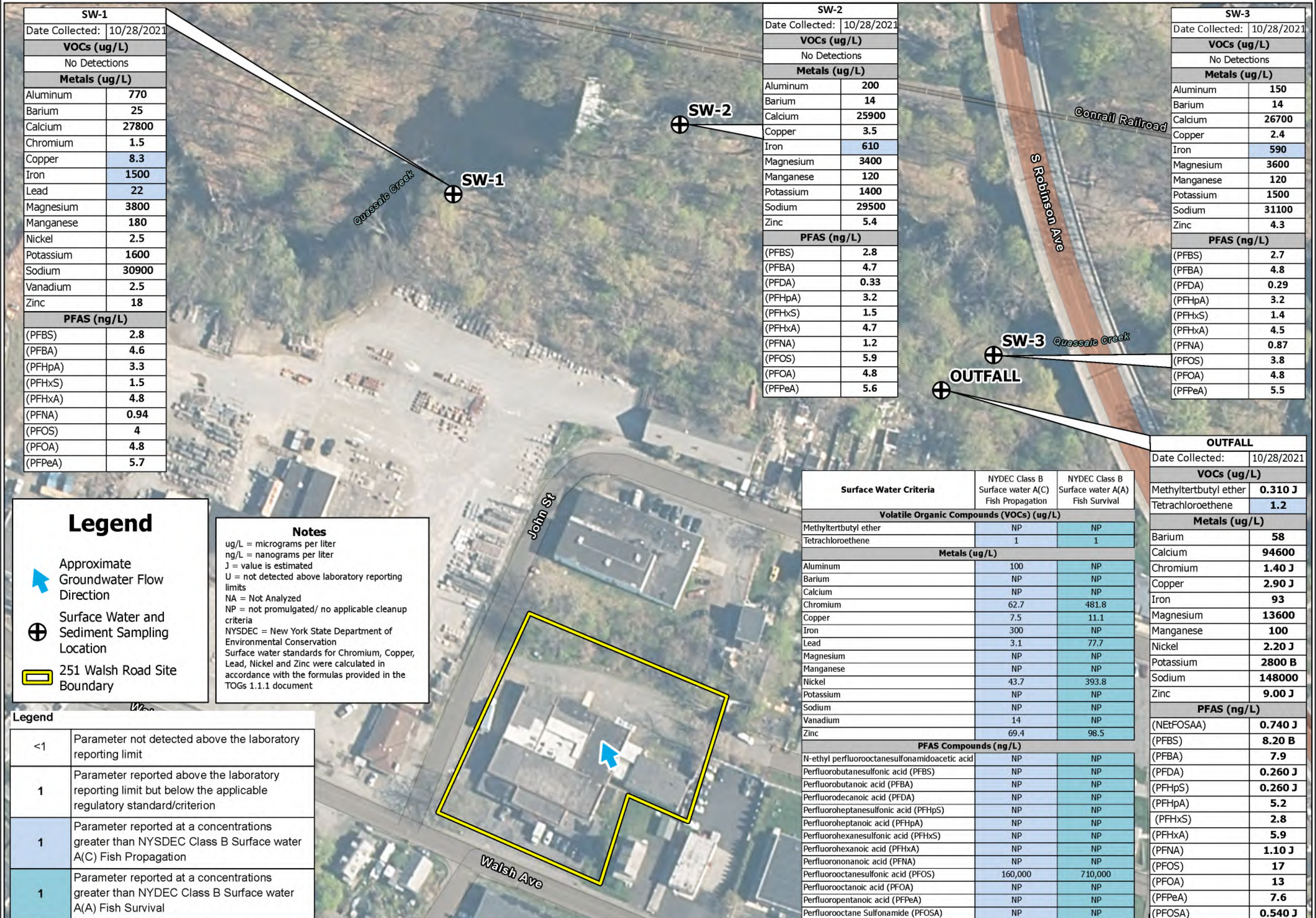
Issue Date: 12/22/2023
Project No: DEC1018.P3
Sheet Size: 11x17

# Groundwater Laboratory Analytical Results VOCs, SVOCs and PFAS

251 Walsh Rd Site
C#36077
251 Walsh Avenue,
New Windsor, New York

Figure No.
6

Path: S:\Data\NYDEC - NYSDEC\NEW WINDSOR, NYDEC1018P3\GIS\WalshRoad\WalshRoad2.aprx




| SW-1 | |
|---|---|
| Date Collected: | 10/28/2021 |
| **VOCs (ug/L)** | |
| No Detections | |
| **Metals (ug/L)** | |
| Aluminum | 770 |
| Barium | 25 |
| Calcium | 27800 |
| Chromium | 1.5 |
| Copper | 8.3 |
| Iron | 1500 |
| Lead | 22 |
| Magnesium | 3800 |
| Manganese | 180 |
| Nickel | 2.5 |
| Potassium | 1600 |
| Sodium | 30900 |
| Vanadium | 2.5 |
| Zinc | 18 |
| **PFAS (ng/L)** | |
| (PFBS) | 2.8 |
| (PFBA) | 4.6 |
| (PFHpA) | 3.3 |
| (PFHxS) | 1.5 |
| (PFHxA) | 4.8 |
| (PFNA) | 0.94 |
| (PFOS) | 4 |
| (PFOA) | 4.8 |
| (PFPeA) | 5.7 |

| SW-2 | |
|---|---|
| Date Collected: | 10/28/2021 |
| **VOCs (ug/L)** | |
| No Detections | |
| **Metals (ug/L)** | |
| Aluminum | 200 |
| Barium | 14 |
| Calcium | 25900 |
| Copper | 3.5 |
| Iron | 610 |
| Magnesium | 3400 |
| Manganese | 120 |
| Potassium | 1400 |
| Sodium | 29500 |
| Zinc | 5.4 |
| **PFAS (ng/L)** | |
| (PFBS) | 2.8 |
| (PFBA) | 4.7 |
| (PFDA) | 0.33 |
| (PFHpA) | 3.2 |
| (PFHxS) | 1.5 |
| (PFHxA) | 4.7 |
| (PFNA) | 1.2 |
| (PFOS) | 5.9 |
| (PFOA) | 4.8 |
| (PFPeA) | 5.6 |

| SW-3 | |
|---|---|
| Date Collected: | 10/28/2021 |
| **VOCs (ug/L)** | |
| No Detections | |
| **Metals (ug/L)** | |
| Aluminum | 150 |
| Barium | 14 |
| Calcium | 26700 |
| Copper | 2.4 |
| Iron | 590 |
| Magnesium | 3600 |
| Manganese | 120 |
| Potassium | 1500 |
| Sodium | 31100 |
| Zinc | 4.3 |
| **PFAS (ng/L)** | |
| (PFBS) | 2.7 |
| (PFBA) | 4.8 |
| (PFDA) | 0.29 |
| (PFHpA) | 3.2 |
| (PFHxS) | 1.4 |
| (PFHxA) | 4.5 |
| (PFNA) | 0.87 |
| (PFOS) | 3.8 |
| (PFOA) | 4.8 |
| (PFPeA) | 5.5 |

| OUTFALL | |
|---|---|
| Date Collected: | 10/28/2021 |
| **VOCs (ug/L)** | |
| Methyltertbutyl ether | 0.310 J |
| Tetrachloroethene | 1.2 |
| **Metals (ug/L)** | |
| Barium | 58 |
| Calcium | 94600 |
| Chromium | 1.40 J |
| Copper | 2.90 J |
| Iron | 93 |
| Magnesium | 13600 |
| Manganese | 100 |
| Nickel | 2.20 J |
| Potassium | 2800 B |
| Sodium | 148000 |
| Zinc | 9.00 J |
| **PFAS (ng/L)** | |
| (NEtFOSAA) | 0.740 J |
| (PFBS) | 8.20 B |
| (PFBA) | 7.9 |
| (PFDA) | 0.260 J |
| (PFHpS) | 0.260 J |
| (PFHpA) | 5.2 |
| (PFHxS) | 2.8 |
| (PFHxA) | 5.9 |
| (PFNA) | 1.10 J |
| (PFOS) | 17 |
| (PFOA) | 13 |
| (PFPeA) | 7.6 |
| (PFOSA) | 0.540 J |

| Surface Water Criteria | NYDEC Class B Surface water A(C) Fish Propagation | NYDEC Class B Surface water A(A) Fish Survival |
|---|---|---|
| **Volatile Organic Compounds (VOCs) (ug/L)** | | |
| Methyltertbutyl ether | NP | NP |
| Tetrachloroethene | 1 | 1 |
| **Metals (ug/L)** | | |
| Aluminum | 100 | NP |
| Barium | NP | NP |
| Calcium | NP | NP |
| Chromium | 62.7 | 481.8 |
| Copper | 7.5 | 11.1 |
| Iron | 300 | NP |
| Lead | 3.1 | 77.7 |
| Magnesium | NP | NP |
| Manganese | NP | NP |
| Nickel | 43.7 | 393.8 |
| Potassium | NP | NP |
| Sodium | NP | NP |
| Vanadium | 14 | NP |
| Zinc | 69.4 | 98.5 |
| **PFAS Compounds (ng/L)** | | |
| N-ethyl perfluorooctanesulfonamidoacetic acid | NP | NP |
| Perfluorobutanesulfonic acid (PFBS) | NP | NP |
| Perfluorobutanoic acid (PFBA) | NP | NP |
| Perfluorodecanoic acid (PFDA) | NP | NP |
| Perfluoroheptanesulfonic acid (PFHpS) | NP | NP |
| Perfluoroheptanoic acid (PFHpA) | NP | NP |
| Perfluorohexanesulfonic acid (PFHxS) | NP | NP |
| Perfluorohexanoic acid (PFHxA) | NP | NP |
| Perfluorononanoic acid (PFNA) | NP | NP |
| Perfluorooctanesulfonic acid (PFOS) | 160,000 | 710,000 |
| Perfluorooctanoic acid (PFOA) | NP | NP |
| Perfluoropentanoic acid (PFPeA) | NP | NP |
| Perfluorooctane Sulfonamide (PFOSA) | NP | NP |

## Legend

Approximate Groundwater Flow Direction

Surface Water and Sediment Sampling Location

251 Walsh Road Site Boundary

## Notes

ug/L = micrograms per liter
ng/L = nanograms per liter
J = value is estimated
U = not detected above laboratory reporting limits
NA = Not Analyzed
NP = not promulgated/ no applicable cleanup criteria
NYSDEC = New York State Department of Environmental Conservation
Surface water standards for Chromium, Copper, Lead, Nickel and Zinc were calculated in accordance with the formulas provided in the TOGs 1.1.1 document

| Legend | |
|---|---|
| <1 | Parameter not detected above the laboratory reporting limit |
| 1 | Parameter reported above the laboratory reporting limit but below the applicable regulatory standard/criterion |
| 1 | Parameter reported at a concentrations greater than NYSDEC Class B Surface water A(C) Fish Propagation |
| 1 | Parameter reported at a concentrations greater than NYDEC Class B Surface water A(A) Fish Survival |


HRP
MOVE YOUR ENVIRONMENT FORWARD
ONE FAIRCHILD SQUARE
SUITE 110
CLIFTON PARK, NY 12065
(518) 877-7101
HRPASSOCIATES.COM


North

0 50 100 Feet

| Revisions | |
|---|---|
| No. | Date |

Designed By: LLT

Drawn By: CMS

Reviewed By: DS

Issue Date: 1/3/2024

Project No: DEC1018.P3

Sheet Size: 11x17

# Surface Water Laboratory Analytical Results (Detections Only) VOC , Metals and PFAS

251 Walsh Rd Site
C#36077
251 Walsh Avenue,
New Windsor, New York

Figure No.

7


| SW-1A | |
|---|---|
| Date Collected: | 10/28/2021 |
| **SVOCs (µg/kg)** | |
| Total PAHs | ND |
| **Metals (mg/kg)** | |
| Aluminum, Total | 14,700 |
| Arsenic | 4.4 |
| Barium | 76.6 |
| Beryllium | 0.71 |
| Cadmium | 0.18 |
| Calcium | 19,300 |
| Chromium, Total | 17 |
| Cobalt | 10.6 |
| Copper | 22.9 |
| Iron | 26,400 |
| Lead | 12.7 |
| Magnesium | 8,220 |
| Manganese | 647 |
| Mercury | 0.021 |
| Nickel | 26 |
| Potassium, Total | 2,820 |
| Sodium, Total | 101 |
| Vanadium | 20.5 |
| Zinc | 59.1 |

| SW-2A | |
|---|---|
| Date Collected: | 10/28/2021 |
| **SVOCs (µg/kg)** | |
| Total PAHs | 9,050 |
| **Metals (mg/kg)** | |
| Aluminum, Total | 10,800 |
| Arsenic | 4.9 |
| Barium | 73.6 |
| Beryllium | 0.49 |
| Cadmium | 0.21 |
| Calcium | 3,110 |
| Chromium, Total | 14.9 |
| Cobalt | 6.9 |
| Copper | 53.1 |
| Iron | 26,200 |
| Lead | 97.3 |
| Magnesium | 4,950 |
| Manganese | 273 |
| Mercury | 0.13 |
| Nickel | 23 |
| Potassium, Total | 1,560 |
| Silver | 0.43 |
| Sodium, Total | 160 |
| Vanadium | 36.5 |
| Zinc | 122 |

| SW-3A | |
|---|---|
| Date Collected: | 10/28/2021 |
| **SVOCs (µg/kg)** | |
| Total PAHs | 270,000 |
| **Metals (mg/kg)** | |
| Aluminum, Total | 12,000 |
| Antimony | 1.3 |
| Arsenic | 6.4 |
| Barium | 77.6 |
| Beryllium | 0.62 |
| Cadmium | 0.39 |
| Calcium | 14,500 |
| Chromium, Total | 16.9 |
| Cobalt | 9 |
| Copper | 49.1 |
| Iron | 23,100 |
| Lead | 127 |
| Magnesium | 8,810 |
| Manganese | 429 |
| Mercury | 0.26 |
| Nickel | 24.7 |
| Potassium, Total | 2,170 |
| Silver | 0.47 |
| Sodium, Total | 146 |
| Vanadium | 32.6 |
| Zinc | 127 |

| TOGS 5.1.9 Guidance | Class A Sediment | Class B Sediment | Class C Sediment |
|---|---|---|---|
| **Semi-Volatile Organic Compounds (SVOCs) (µg/kg)** | | | |
| Total PAHs | < 4,000 | 4,000 - 35,000 | > 35,000 |
| **Metals (mg/kg)** | | | |
| Aluminum, Total | NP | NP | NP |
| Antimony | NP | NP | NP |
| Arsenic | < 10 | 10 - 33 | > 33 |
| Barium | NP | NP | NP |
| Beryllium | NP | NP | NP |
| Cadmium | < 1 | 1 - 5 | > 5 |
| Calcium | NP | NP | NP |
| Chromium, Total | < 43 | 43 - 110 | > 110 |
| Cobalt | NP | NP | NP |
| Copper | < 32 | 32 - 150 | > 150 |
| Iron | NP | NP | NP |
| Lead | < 36 | 36 - 130 | > 130 |
| Magnesium | NP | NP | NP |
| Manganese | NP | NP | NP |
| Mercury | < 0.2 | 0.2 - 1 | > 1 |
| Nickel | < 23 | 23 - 49 | > 49 |
| Potassium, Total | NP | NP | NP |
| Silver | < 1 | 1 - 2.2 | > 2.2 |
| Sodium, Total | NP | NP | NP |
| Vanadium | NP | NP | NP |
| Zinc | < 120 | 120 - 460 | > 460 |

## Legend

- Approximate Groundwater Flow Direction
- 251 Walsh Road Site Boundary
- Sediment Sample Locations

**Legend**

| | |
|---|---|
| < 1 | Parameter not detected above the method detection limit |
| 1 | Parameter reported above the laboratory method detection limit but below the applicable regulatory standard/criterion |
| 1 | Parameter reported at a concentration greater than TOGS 5.1.9 Guidance Class A sediments |
| 1 | Parameter reported at a concentration greater than TOGS 5.1.9 Guidance Class B sediments |
| 1 | Parameter reported at a concentration greater than TOGS 5.1.9 Guidance Class C sediments |

Notes:
µg/kg = micrograms per kilogram
mg/kg - milligrams per kilogram
U = not detected above laboratory reporting limits
NP = Not Promulgated
TOGS 5.1.9 = Technical & Operational Guidance Series 5.1.9 Management of Sediment and Dredged Materials Guidance


HRP
MOVE YOUR ENVIRONMENT FORWARD
ONE FAIRCHILD SQUARE
SUITE 110
CLIFTON PARK, NY 12065
(518) 877-7101
HRPASSOCIATES.COM


North

0 50 100 Feet

| Revisions | No. | Date |
|---|---|---|
| | | |

Designed By: LLT
Drawn By: CMS
Reviewed By: DS

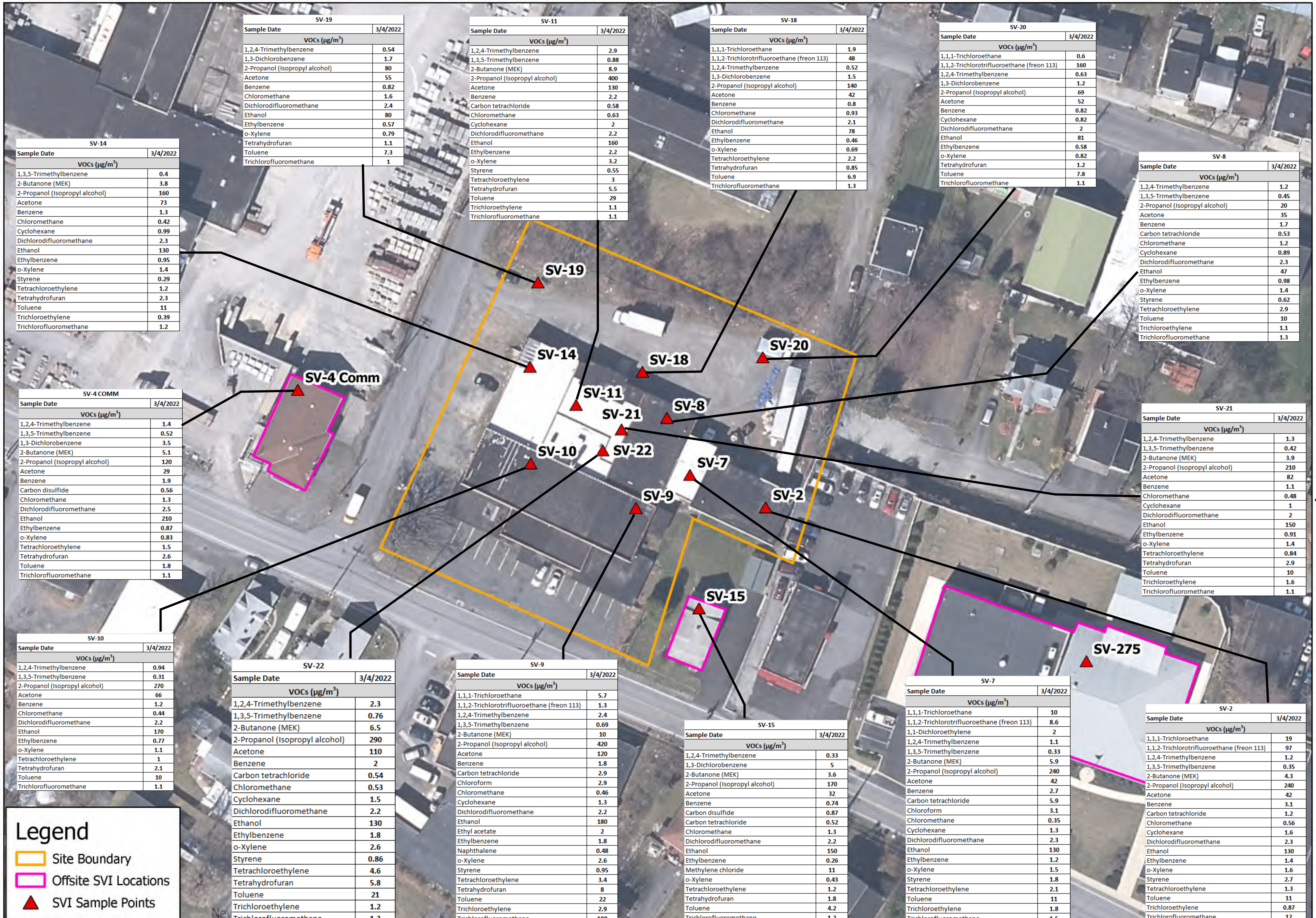
Issue Date: 1/3/2024
Project No: DEC1018.P3
Sheet Size: 11x17

Sediment Laboratory Analytical Results (Detections Only) PAHs and Metals

251 Walsh Rd Site
C#36077
251 Walsh Avenue,
New Windsor, New York

Figure No.
**8**

Path: S:\Data\NYDEC - NYSDEC\NEW WINDSOR\251 WALSH ROAD, NEW WINDSOR, NY\DEC1018P3\GIS\WalshRoad\WalshRoad2.aprx




| SV-19 | |
|---|---|
| Sample Date | 3/4/2022 |
| VOCs (µg/m³) | |
| 1,2,4-Trimethylbenzene | 0.54 |
| 1,3-Dichlorobenzene | 1.7 |
| 2-Propanol (Isopropyl alcohol) | 80 |
| Acetone | 55 |
| Benzene | 0.82 |
| Chloromethane | 1.6 |
| Dichlorodifluoromethane | 2.4 |
| Ethanol | 80 |
| Ethylbenzene | 0.57 |
| o-Xylene | 0.79 |
| Tetrahydrofuran | 1.1 |
| Toluene | 7.3 |
| Trichlorofluoromethane | 1 |

| SV-11 | |
|---|---|
| Sample Date | 3/4/2022 |
| VOCs (µg/m³) | |
| 1,2,4-Trimethylbenzene | 2.9 |
| 1,3,5-Trimethylbenzene | 0.88 |
| 2-Butanone (MEK) | 8.9 |
| 2-Propanol (Isopropyl alcohol) | 400 |
| Acetone | 130 |
| Benzene | 2.2 |
| Carbon tetrachloride | 0.58 |
| Chloromethane | 0.63 |
| Cyclohexane | 2 |
| Dichlorodifluoromethane | 2.2 |
| Ethanol | 160 |
| Ethylbenzene | 2.2 |
| o-Xylene | 3.2 |
| Styrene | 0.55 |
| Tetrachloroethylene | 3 |
| Tetrahydrofuran | 5.5 |
| Toluene | 29 |
| Trichloroethylene | 1.1 |
| Trichlorofluoromethane | 1.1 |

| SV-18 | |
|---|---|
| Sample Date | 3/4/2022 |
| VOCs (µg/m³) | |
| 1,1,1-Trichloroethane | 1.9 |
| 1,1,2-Trichlorotrifluoroethane (freon 113) | 48 |
| 1,2,4-Trimethylbenzene | 0.52 |
| 1,3-Dichlorobenzene | 1.5 |
| 2-Propanol (Isopropyl alcohol) | 140 |
| Acetone | 42 |
| Benzene | 0.8 |
| Chloromethane | 0.93 |
| Dichlorodifluoromethane | 2.1 |
| Ethanol | 78 |
| Ethylbenzene | 0.46 |
| o-Xylene | 0.69 |
| Tetrachloroethylene | 2.2 |
| Tetrahydrofuran | 0.85 |
| Toluene | 6.9 |
| Trichlorofluoromethane | 1.3 |

| SV-20 | |
|---|---|
| Sample Date | 3/4/2022 |
| VOCs (µg/m³) | |
| 1,1,1-Trichloroethane | 0.6 |
| 1,1,2-Trichlorotrifluoroethane (freon 113) | 160 |
| 1,2,4-Trimethylbenzene | 0.63 |
| 1,3-Dichlorobenzene | 1.2 |
| 2-Propanol (Isopropyl alcohol) | 69 |
| Acetone | 52 |
| Benzene | 0.82 |
| Cyclohexane | 0.82 |
| Dichlorodifluoromethane | 2 |
| Ethanol | 81 |
| Ethylbenzene | 0.58 |
| o-Xylene | 0.82 |
| Tetrahydrofuran | 1.2 |
| Toluene | 7.8 |
| Trichlorofluoromethane | 1.1 |

| SV-14 | |
|---|---|
| Sample Date | 3/4/2022 |
| VOCs (µg/m³) | |
| 1,3,5-Trimethylbenzene | 0.4 |
| 2-Butanone (MEK) | 3.8 |
| 2-Propanol (Isopropyl alcohol) | 160 |
| Acetone | 73 |
| Benzene | 1.3 |
| Chloromethane | 0.42 |
| Cyclohexane | 0.99 |
| Dichlorodifluoromethane | 2.3 |
| Ethanol | 130 |
| Ethylbenzene | 0.95 |
| o-Xylene | 1.4 |
| Styrene | 0.29 |
| Tetrachloroethylene | 1.2 |
| Tetrahydrofuran | 2.3 |
| Toluene | 11 |
| Trichloroethylene | 0.39 |
| Trichlorofluoromethane | 1.2 |

| SV-8 | |
|---|---|
| Sample Date | 3/4/2022 |
| VOCs (µg/m³) | |
| 1,2,4-Trimethylbenzene | 1.2 |
| 1,3,5-Trimethylbenzene | 0.45 |
| 2-Propanol (Isopropyl alcohol) | 20 |
| Acetone | 35 |
| Benzene | 1.7 |
| Carbon tetrachloride | 0.53 |
| Chloromethane | 1.2 |
| Cyclohexane | 0.89 |
| Dichlorodifluoromethane | 2.3 |
| Ethanol | 47 |
| Ethylbenzene | 0.98 |
| o-Xylene | 1.4 |
| Styrene | 0.62 |
| Tetrachloroethylene | 2.9 |
| Toluene | 10 |
| Trichloroethylene | 1.1 |
| Trichlorofluoromethane | 1.3 |

| SV-4 COMM | |
|---|---|
| Sample Date | 3/4/2022 |
| VOCs (µg/m³) | |
| 1,2,4-Trimethylbenzene | 1.4 |
| 1,3,5-Trimethylbenzene | 0.52 |
| 1,3-Dichlorobenzene | 3.5 |
| 2-Butanone (MEK) | 5.1 |
| 2-Propanol (Isopropyl alcohol) | 120 |
| Acetone | 29 |
| Benzene | 1.9 |
| Carbon disulfide | 0.56 |
| Chloromethane | 1.3 |
| Dichlorodifluoromethane | 2.5 |
| Ethanol | 210 |
| Ethylbenzene | 0.87 |
| o-Xylene | 0.83 |
| Tetrachloroethylene | 1.5 |
| Tetrahydrofuran | 2.6 |
| Toluene | 1.8 |
| Trichlorofluoromethane | 1.1 |

| SV-21 | |
|---|---|
| Sample Date | 3/4/2022 |
| VOCs (µg/m³) | |
| 1,2,4-Trimethylbenzene | 1.3 |
| 1,3,5-Trimethylbenzene | 0.42 |
| 2-Butanone (MEK) | 3.9 |
| 2-Propanol (Isopropyl alcohol) | 210 |
| Acetone | 82 |
| Benzene | 1.1 |
| Chloromethane | 0.48 |
| Cyclohexane | 1 |
| Dichlorodifluoromethane | 2 |
| Ethanol | 150 |
| Ethylbenzene | 0.91 |
| o-Xylene | 1.4 |
| Tetrachloroethylene | 0.84 |
| Tetrahydrofuran | 2.9 |
| Toluene | 10 |
| Trichloroethylene | 1.6 |
| Trichlorofluoromethane | 1.1 |

| SV-10 | |
|---|---|
| Sample Date | 3/4/2022 |
| VOCs (µg/m³) | |
| 1,2,4-Trimethylbenzene | 0.94 |
| 1,3,5-Trimethylbenzene | 0.31 |
| 2-Propanol (Isopropyl alcohol) | 270 |
| Acetone | 66 |
| Benzene | 1.2 |
| Chloromethane | 0.44 |
| Dichlorodifluoromethane | 2.2 |
| Ethanol | 170 |
| Ethylbenzene | 0.77 |
| o-Xylene | 1.1 |
| Tetrachloroethylene | 1 |
| Tetrahydrofuran | 2.1 |
| Toluene | 10 |
| Trichlorofluoromethane | 1.1 |

| SV-22 | |
|---|---|
| Sample Date | 3/4/2022 |
| VOCs (µg/m³) | |
| 1,2,4-Trimethylbenzene | 2.3 |
| 1,3,5-Trimethylbenzene | 0.76 |
| 2-Butanone (MEK) | 6.5 |
| 2-Propanol (Isopropyl alcohol) | 290 |
| Acetone | 110 |
| Benzene | 2 |
| Carbon tetrachloride | 0.54 |
| Chloromethane | 0.53 |
| Cyclohexane | 1.5 |
| Dichlorodifluoromethane | 2.2 |
| Ethanol | 130 |
| Ethylbenzene | 1.8 |
| o-Xylene | 2.6 |
| Styrene | 0.86 |
| Tetrachloroethylene | 4.6 |
| Tetrahydrofuran | 5.8 |
| Toluene | 21 |
| Trichloroethylene | 1.2 |
| Trichlorofluoromethane | 1.3 |

| SV-9 | |
|---|---|
| Sample Date | 3/4/2022 |
| VOCs (µg/m³) | |
| 1,1,1-Trichloroethane | 5.7 |
| 1,1,2-Trichlorotrifluoroethane (freon 113) | 1.3 |
| 1,2,4-Trimethylbenzene | 2.4 |
| 1,3,5-Trimethylbenzene | 0.69 |
| 2-Butanone (MEK) | 10 |
| 2-Propanol (Isopropyl alcohol) | 420 |
| Acetone | 120 |
| Benzene | 1.8 |
| Carbon tetrachloride | 2.9 |
| Chloroform | 2.9 |
| Chloromethane | 0.46 |
| Cyclohexane | 1.3 |
| Dichlorodifluoromethane | 2.2 |
| Ethanol | 180 |
| Ethyl acetate | 2 |
| Ethylbenzene | 1.8 |
| Naphthalene | 0.48 |
| o-Xylene | 2.6 |
| Styrene | 0.95 |
| Tetrachloroethylene | 3.4 |
| Tetrahydrofuran | 8 |
| Toluene | 22 |
| Trichloroethylene | 2.9 |
| Trichlorofluoromethane | 190 |

| SV-15 | |
|---|---|
| Sample Date | 3/4/2022 |
| VOCs (µg/m³) | |
| 1,2,4-Trimethylbenzene | 0.33 |
| 1,3-Dichlorobenzene | 5 |
| 2-Butanone (MEK) | 3.6 |
| 2-Propanol (Isopropyl alcohol) | 170 |
| Acetone | 32 |
| Benzene | 0.74 |
| Carbon disulfide | 0.87 |
| Carbon tetrachloride | 0.52 |
| Chloromethane | 1.3 |
| Dichlorodifluoromethane | 2.2 |
| Ethanol | 150 |
| Ethylbenzene | 0.26 |
| Methylene chloride | 11 |
| o-Xylene | 0.43 |
| Tetrachloroethylene | 1.2 |
| Tetrahydrofuran | 1.8 |
| Toluene | 4.2 |
| Trichlorofluoromethane | 1.2 |

| SV-7 | |
|---|---|
| Sample Date | 3/4/2022 |
| VOCs (µg/m³) | |
| 1,1,1-Trichloroethane | 10 |
| 1,1,2-Trichlorotrifluoroethane (freon 113) | 8.6 |
| 1,1-Dichloroethylene | 2 |
| 1,2,4-Trimethylbenzene | 1.1 |
| 1,3,5-Trimethylbenzene | 0.33 |
| 2-Butanone (MEK) | 5.9 |
| 2-Propanol (Isopropyl alcohol) | 240 |
| Acetone | 42 |
| Benzene | 2.7 |
| Carbon tetrachloride | 5.9 |
| Chloroform | 3.1 |
| Chloromethane | 0.35 |
| Cyclohexane | 1.3 |
| Dichlorodifluoromethane | 2.3 |
| Ethanol | 130 |
| Ethylbenzene | 1.2 |
| o-Xylene | 1.5 |
| Styrene | 1.8 |
| Tetrachloroethylene | 2.1 |
| Toluene | 11 |
| Trichloroethylene | 1.8 |
| Trichlorofluoromethane | 1.5 |

| SV-2 | |
|---|---|
| Sample Date | 3/4/2022 |
| VOCs (µg/m³) | |
| 1,1,1-Trichloroethane | 19 |
| 1,1,2-Trichlorotrifluoroethane (freon 113) | 97 |
| 1,2,4-Trimethylbenzene | 1.2 |
| 1,3,5-Trimethylbenzene | 0.35 |
| 2-Butanone (MEK) | 4.3 |
| 2-Propanol (Isopropyl alcohol) | 240 |
| Acetone | 42 |
| Benzene | 3.1 |
| Carbon tetrachloride | 1.2 |
| Chloromethane | 0.56 |
| Cyclohexane | 1.6 |
| Dichlorodifluoromethane | 2.3 |
| Ethanol | 130 |
| Ethylbenzene | 1.4 |
| o-Xylene | 1.6 |
| Styrene | 2.7 |
| Tetrachloroethylene | 1.3 |
| Toluene | 11 |
| Trichloroethylene | 0.87 |
| Trichlorofluoromethane | 12 |

HRP
MOVE YOUR ENVIRONMENT FORWARD
ONE FAIRCHILD SQUARE
SUITE 110
CLIFTON PARK, NY 12065
(518) 877-7101
HRPASSOCIATES.COM

North

0 30 60 Feet

| Revisions | |
|---|---|
| No. | Date |

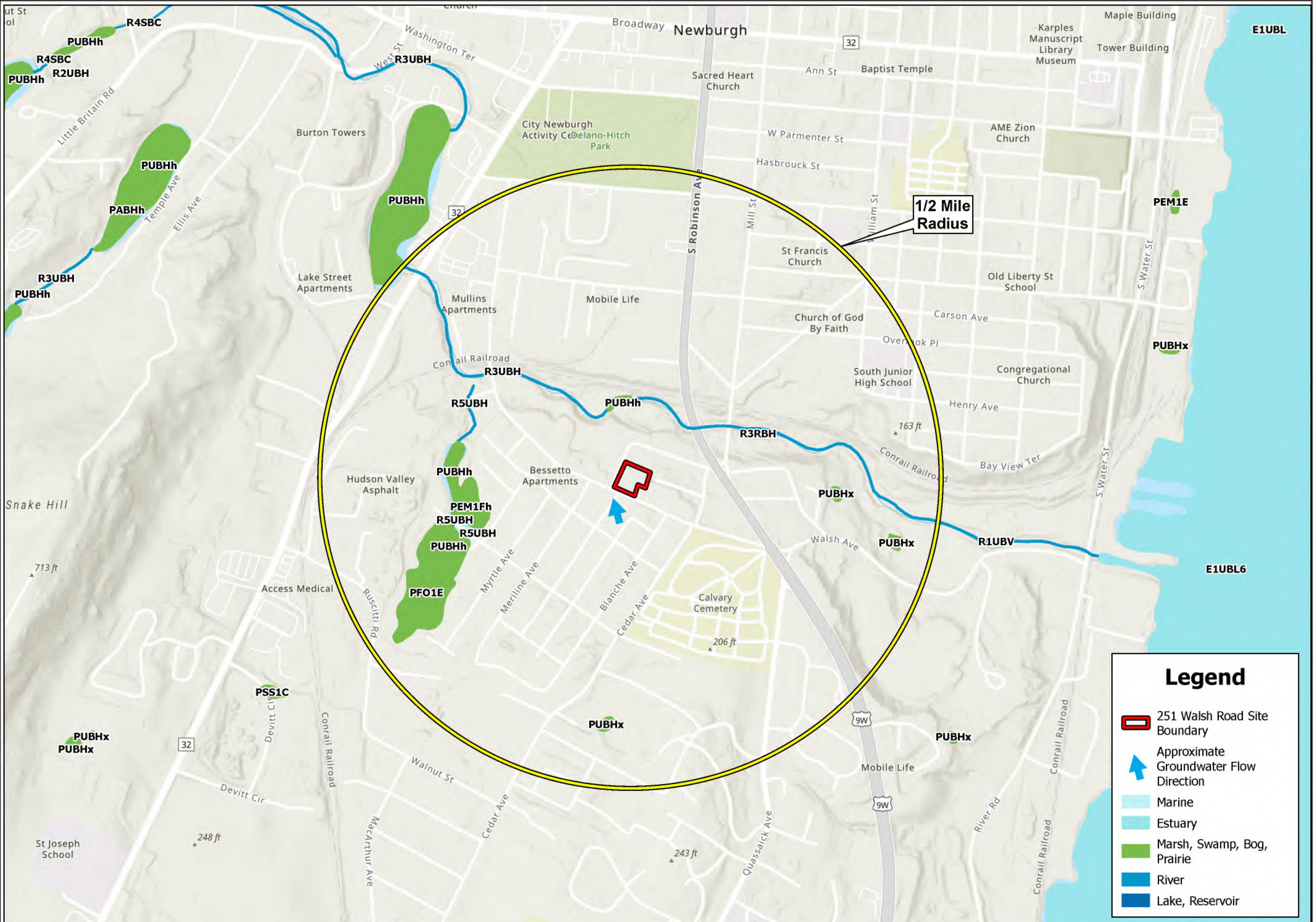
Designed By: CMS
Drawn By: CMS
Reviewed By: DS

Issue Date: 04/25/2022
Project No: DEC1018.P3
Sheet Size: 11x17

# Soil Vapor Detections VOCs- 2022

Walsh Road Site
251 Walsh Road
New Windsor, New York

FIGURE NO.
9




HRP
MOVE YOUR ENVIRONMENT FORWARD
ONE FAIRCHILD SQUARE
SUITE 110
CLIFTON PARK, NY 12065
(518) 877-7101
HRPASSOCIATES.COM

North

0 400 800 Feet

| Revisions | | | | |
|---|---|---|---|---|
| No. | Date | | | |

Designed By: LLT

Drawn By: CMS

Reviewed By: DCS

Issue Date: 1/5/2024

Project No: DEC1018.P3

Sheet Size: 11x17

Fish and Wildlife Resource Map

251 Walsh Rd Site C#36077
251 Walsh Avenue, New Windsor, New York

Figure No.
**10**

Path: S:\Data\NYDEC - NYSDEC\NEW WINDSOR, NY\DEC1018P3\GIS\WalshRoad\WalshRoad2.aprx

# TABLES

Table 1A
Sampling Summary
Site # 336077
251 Walsh Avenue, New Windsor, NY

| AOC and Sample Justification | Sample ID | Depth (Ft bg) | Analyses | standards exceeded |
|---|---|---|---|---|
| **Subsurface Soil Samples** | | | | |
| **AOC 1 - Building Slab**<br><br>**Investigate impacts to soil underneath the building** | P-1 | 0 - 0.5 | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010<br>Polychlorinated Biphenyls (PCBs) EPA 8082 | None |
| | P-23 | 2 - 2.5 | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010<br>Polychlorinated Biphenyls (PCBs) EPA 8082 | None |
| | P-24 | 2 - 2.5 | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010<br>Polychlorinated Biphenyls (PCBs) EPA 8082 | None |
| | P-25 | 0 - 0.5<br>2 - 2.5 | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010<br>Polychlorinated Biphenyls (PCBs) EPA 8082 | None |
| | P-26 | 0 - 0.5<br>2 - 2.5 | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010<br>Polychlorinated Biphenyls (PCBs) EPA 8082 | None |
| **AOC 2- Location of supposed reported shed**<br><br>**Investigate impacts to the northern portion of the Site where the reported shed was located** | P-2 | 0 - 3<br>23 - 25 | TCL VOCs EPA 8260 | None |
| | P-4 | 0 - 3<br>18 - 20 | TCL VOCs EPA 8260 | None |
| | P-5 | 0 - 3<br>13 - 15 | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010<br>Polychlorinated Biphenyls (PCBs) EPA 8082 | None |
| | P-6 | 0 - 3<br>13 - 15 | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010<br>Polychlorinated Biphenyls (PCBs) EPA 8082 | None |
| | P-14 | 0 - 3<br>13 - 15 | TCL VOCs EPA 8260 | None |
| | P-16 | 0 - 3<br>23 - 25 | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010<br>Polychlorinated Biphenyls (PCBs) EPA 8082 | None |
| | P-17 | 0 - 3<br>10 - 12 | TCL VOCs EPA 8260 | None |
| | P-18 | 0 - 3<br>15 - 17 | TCL VOCs EPA 8260 | None |
| | MW-9 | 3 - 5<br>18 - 20 | TCL VOCs EPA 8260 | None |
| | MW-10 | 3 - 5<br>18 - 20 | TCL VOCs EPA 8260 | UUSCO |
| **AOC 3- Elevated VOC concentrations observed in previous investigation**<br><br>**Investigate impacts to the soil where impacts were observed in previous investigations** | P-3 | 0 - 3<br>12 - 14 | TCL VOCs EPA 8260 | None |
| | P-8 | 0 - 3<br>11.5 - 13.5 | TCL VOCs EPA 8260 | None |
| | P-9 | 0 - 3<br>10 - 12 | TCL VOCs EPA 8260 | None |
| | P-13 | 0 - 3<br>18 - 20 | TCL VOCs EPA 8260 | None |
| | P-15 | 0 - 3<br>13 - 15 | TCL VOCs EPA 8260 | None |
| | P-19 | 0 - 3<br>21 - 23 | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010<br>Polychlorinated Biphenyls (PCBs) EPA 8082 | None |
| | P-22 | 0 - 3<br>8 - 10 | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010<br>Polychlorinated Biphenyls (PCBs) EPA 8082 | None |
| **AOC 4 -  Full delineation of impacts**<br><br>**Investigate full spatial extent of plume on and off-site** | P-7 | 0 - 3<br>13 - 15 | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010<br>Polychlorinated Biphenyls (PCBs) EPA 8082 | None |
| | P-10 | 0 - 3<br>13 - 15 | TCL VOCs EPA 8260 | None |
| | P-12 | 0 - 3<br>15 - 17 | TCL VOCs EPA 8260 | None |
| | P-11 | 0 - 3<br>8 - 10 | TCL VOCs EPA 8260 | None |
| | P-20 | 0 - 3<br>11 - 13 | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010<br>Polychlorinated Biphenyls (PCBs) EPA 8082 | UUSCO<br>CUSCO |
| | P-21 | 0 - 3<br>8 - 10 | TCL VOCs EPA 8260 | None |

Table 1A
Sampling Summary
Site # 336077
251 Walsh Avenue, New Windsor, NY

| AOC and Sample Justification | Sample ID | Well Type | Analyses | standards exceeded |
|---|---|---|---|---|
| **Overburden and Bedrock Groundwater Samples** | | | | |
| **AOC 2- Location of supposed reported shed**<br><br>**Investigate impacts to the northern portion of the Site where the reported shed was located** | MW-9 | Overburden | TCL VOCs EPA 8260 | None |
| | MW-10 | Overburden | TCL VOCs EPA 8260 | NYSDEC Class GA Criteria |
| **AOC 3- Elevated VOC concentrations observed in previous investigation**<br><br>**Investigate impacts to the soil where impacts were observed in previous investigations** | MW-1 | Overburden | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010 | NYSDEC Class GA Criteria |
| | MW-7 | Overburden | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010 | NYSDEC Class GA Criteria |
| | MW-8 | Overburden | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010 | NYSDEC Class GA Criteria |
| | MW-100-OB | Overburden | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010 | NYSDEC Class GA Criteria |
| | MW-100-BR | Bedrock | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010 | NYSDEC Class GA Criteria |
| | MW-101-OB | Overburden | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010 | NYSDEC Class GA Criteria |
| | MW-101-BR | Bedrock | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010 | NYSDEC Class GA Criteria |
| | MW-103-OB | Overburden | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010<br>PFAS EPA 537.1 | NYSDEC Class GA Criteria |
| | MW-103-BR | Bedrock | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010<br>PFAS EPA 537.1 | NYSDEC Class GA Criteria |
| **AOC 4 - Full delineation of impacts**<br><br>**Investigate full spatial extent of plume on and off-site** | MW-102-OB | Overburden | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010<br>PFAS EPA 537.1 | None |
| | MW-102-BR | Bedrock | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010<br>PFAS EPA 537.1 | NYSDEC Class GA Criteria |

Table 1A
Sampling Summary
Site # 336077
251 Walsh Avenue, New Windsor, NY



| AOC and Sample Justification | Sample ID | Sample Type | Analyses | Standards exceeded |
|---|---|---|---|---|
| **Surface Water and Sediment Samples** | | | | |
| **AOC 4 - Full delineation of impacts**<br><br>**Investigate full spatial extent of plume on and off-site** | SW-1 | Surface water | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010<br>PFAS EPA 537.1 | NYSDEC Class B<br>Surface Water A(C) Fish Propagation |
| | SW-1A | Sediment | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010 | NYSDEC TOGs 5.1.9 Guidence Class B Sediment |
| | SW-2 | Surface water | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010<br>PFAS EPA 537.1 | NYSDEC Class B<br>Surface Water A(C) Fish Propagation |
| | SW-2A | Sediment | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010 | NYSDEC TOGs 5.1.9 Guidence Class B Sediment |
| | SW-3 | Surface water | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010<br>PFAS EPA 537.1 | NYSDEC Class B<br>Surface Water A(C) Fish Propagation |
| | SW-3A | Sediment | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010 | NYSDEC TOGs 5.1.9 Guidence Class C Sediment |
| | Outfall | Surface water | TCL VOCs EPA 8260<br>TCL SVOCs EPA 8270<br>TAL Metals EPA 6010<br>PFAS EPA 537.1 | NYSDEC Class B<br>Surface Water A(C) Fish Propagation |

Table 1A
Sampling Summary
Site # 336077
251 Walsh Avenue, New Windsor, NY

| AOC and Sample Justification | Sample ID | Sample Type | Analyses | Guidence Recommendations |
|---|---|---|---|---|
| **Soil Vapor intrusion Sampling** | | | | |
| **AOC 1 - Building Slab**<br><br>**Investigate impacts to soil vapor underneath the building and impacts to indoor air quality** | SV-2 | Sub-slab | VOCs EPA TO-15 | None |
| | SV-7 | Sub-slab | VOCs EPA TO-15 | None |
| | SV-8 | Sub-slab | VOCs EPA TO-15 | None |
| | SV-9 | Sub-slab | VOCs EPA TO-15 | None |
| | SV-10 | Sub-slab | VOCs EPA TO-15 | None |
| | SV-11 | Sub-slab | VOCs EPA TO-15 | None |
| | SV-14 | Sub-slab | VOCs EPA TO-15 | None |
| | SV-21 | Sub-slab | VOCs EPA TO-15 | None |
| | SV-22 | Sub-slab | VOCs EPA TO-15 | None |
| | IA-2 | Indoor Air | VOCs EPA TO-15 | None |
| | IA-7 | Indoor Air | VOCs EPA TO-15 | NYSDOH 2017 Matrix Recommendations - Identify sources and resample or Mitigate |
| | IA-8 | Indoor Air | VOCs EPA TO-15 | None |
| | IA-9 | Indoor Air | VOCs EPA TO-15 | None |
| | IA-10 | Indoor Air | VOCs EPA TO-15 | None |
| | IA-11 | Indoor Air | VOCs EPA TO-15 | NYSDOH 2017 Matrix Recommendations - Identify sources and resample or Mitigate |
| | IA-14 | Indoor Air | VOCs EPA TO-15 | None |
| | IA-21 | Indoor Air | VOCs EPA TO-15 | None |
| **AOC 2- Location of supposed reported shed**<br><br>**Investigate impacts to the northern portion of the Site where the reported shed was located** | SV-20 | soil vapor point | VOCs EPA TO-15 | None |
| | OA-20 | outdoor air | VOCs EPA TO-15 | None |
| **AOC 4 - Full delineation of impacts**<br><br>**Investigate full spatial extent of plume on and off-site** | SV-18 | soil vapor point | VOCs EPA TO-15 | None |
| | SV-19 | soil vapor point | VOCs EPA TO-15 | None |
| | SV-20 | soil vapor point | VOCs EPA TO-15 | None |
| | SV-4 Comm (offsite) | Sub-slab | VOCs EPA TO-15 | None |
| | IA Comm (offsite) | Indoor Air | VOCs EPA TO-15 | None |
| | SV-15 (offsite) | Sub-slab | VOCs EPA TO-15 | NYSDOH 2017 Matrix Recommendations - Identify sources and resample or Mitigate |
| | IA-15 (offsite) | Indoor Air | VOCs EPA TO-15 | NYSDOH 2017 Matrix Recommendations - Identify sources and resample or Mitigate |
| | SV-275 (offsite) | Indoor Air | VOCs EPA TO-15 | None |

**Table 1B**
**Summary of Monitoring Well Construction and Groundwater Elevation Information**
**251 Walsh Road**
**Site # 336077**
**251 Walsh Avenue, New Windsor, NY**

| Monitoring Well Designation | | MW-1 | MW-7 | MW-8 | MW-100 BR | MW-100 OB | MW-101 BR | MW-101 OB | MW-102 BR | MW-102 OB | MW-103 BR | MW-103 OB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Installation Date | | Unknown | Unknown | Unknown | 9/20/2021 | 9/20/2021 | 9/18/2021 | 9/20/2021 | 9/22/2021 | 9/20/2021 | 9/18/2021 | 9/20/2021 |
| Top of Casing Elevation (Compared to benchmark) | | 100.75 | 95.88 | 97.33 | 96.33 | 96.29 | 95.23 | 95.12 | 103.02 | 102.87 | 97.56 | 94.70 |
| Screened Interval (ft btoc) | | Unknown | Unknown | Unknown | 65-70 | 9-19 | 55-60 | 12-22 | 67-72 | 11-21 | 60-65 | 8-18 |
| Well Diameter (inches) | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Measurement Date | Gauging Data | | | | | | | | | | | |
| 10/21/2021 | Depth to Water (ft btoc) | 5.88 | 7.62 | 6.98 | 4.14 | 7.43 | 9.81 | 4.75 | 11.55 | 11.71 | 20.07 | 5.06 |
| | Groundwater Elevation (ft bbm) | 94.87 | 88.26 | 90.35 | 92.19 | 88.86 | 85.42 | 90.37 | 91.47 | 91.16 | 77.49 | 89.64 |
| | Measured Depth to Bottom (ft btoc) | 13.42 | 19.85 | 18.34 | 71.80 | 19.02 | 56.69 | 16.15 | 69.43 | 20.48 | 65.13 | 22.30 |

**Notes**
Benchmark (arbitrary datum)= 100 ft
ft btoc = feet below top of casing
ft bbm = feet below benchmark
MW-1, MW-7, MW-8 - only ground elevation collected, no top of casing

Table 2A
Soil Laboratory Analytical Results (Detections Only)
VOCs
Site #336077
251 Walsh Road, New Windsor, New York

| Location: | Part 375 Unrestricted | Part 375 Commercial | P-1 | P-2 | | P-3 | | P-4 | | P-5 | | P-6 | | P-7 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft bg): | | | (0-0.5) | (0-3) | (23-25) | (0-3) | (12-14) | (0-3) | (18-20) | (0-3) | (12-15) | (0-3) | (13-15) | (0-3) | (13-15) |
| Sample Date: | | | 09/17/2021 | 09/15/2021 | 09/15/2021 | 09/17/2021 | 09/17/2021 | 09/15/2021 | 09/15/2021 | 09/15/2021 | 09/15/2021 | 09/16/2021 | 09/16/2021 | 09/16/2021 | 09/16/2021 |
| Laboratory Sample ID: | | | 480-189796-51 | 480-189796-5 | 480-189796-6 | 480-189796-52 | 480-189796-53 | 480-189796-15 | 480-189796-16 | 480-189796-13 | 480-189796-14 | 480-189796-20 | 480-189796-21 | 480-189796-28 | 480-189796-29 |
| **Volatile Organic Compounds (VOCs) (mg/kg)** | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 0.68 | 500 | < 0.00600 U | **0.000490 J** | < 0.00540 U | < 0.00580 U | **0.019** | < 0.00550 U | < 0.00570 U | < 0.00550 U | < 0.00670 U | < 0.00580 U | < 0.00590 U | < 0.00620 U | < 0.00640 U |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | NP | NP | < 0.00600 U | < 0.00600 U | < 0.00540 U | < 0.00580 U | **0.00190 J** | < 0.00550 U | < 0.00570 U | < 0.00550 U | < 0.00670 U | < 0.00580 U | < 0.00590 U | < 0.00620 U | < 0.00640 U |
| 1,1-Dichloroethane | 0.27 | 240 | < 0.00600 U | < 0.00600 U | < 0.00540 U | < 0.00580 U | **0.015** | < 0.00550 U | < 0.00570 U | < 0.00550 U | < 0.00670 U | < 0.00580 U | < 0.00590 U | < 0.00620 U | < 0.00640 U |
| 1,1-Dichloroethene | 0.33 | 500 | < 0.00600 U | < 0.00600 U | < 0.00540 U | < 0.00580 U | **0.00470 J** | < 0.00550 U | < 0.00570 U | < 0.00550 U | < 0.00670 U | < 0.00580 U | < 0.00590 U | < 0.00620 U | < 0.00640 U |
| Acetone | 0.05 | 500 | < 0.0300 U | < 0.0300 U | **0.00830 J** | < 0.0290 U | **0.0140 J** | < 0.0280 U | < 0.0280 U | < 0.0280 U | < 0.0330 U | < 0.0290 U | < 0.0300 U | < 0.0310 U | < 0.0320 U |
| Carbon tetrachloride | 0.76 | 22 | < 0.00600 U | < 0.00600 U | < 0.00540 U | < 0.00580 U | < 0.00570 U | < 0.00550 U | < 0.00570 U | < 0.00550 U | < 0.00670 U | < 0.00580 U | < 0.00590 U | < 0.00620 U | < 0.00640 U |
| Chloroform | 0.37 | 350 | < 0.00600 U | **0.000660 J** | **0.000510 J** | **0.000730 J** | **0.00140 J** | < 0.00550 U | < 0.00570 U | < 0.00550 U | < 0.00670 U | < 0.00580 U | < 0.00590 U | < 0.00620 U | < 0.00640 U |
| cis-1,2-Dichloroethene | 0.25 | 500 | < 0.00600 U | < 0.00600 U | < 0.00540 U | < 0.00580 U | < 0.00570 U | < 0.00550 U | < 0.00570 U | < 0.00550 U | < 0.00670 U | < 0.00580 U | < 0.00590 U | < 0.00620 U | < 0.00640 U |
| Methylene chloride | 0.05 | 500 | < 0.00600 U | < 0.00600 U | **0.00460 J** | < 0.00580 U | **0.00370 J** | < 0.00550 U | < 0.00570 U | < 0.00550 U | < 0.00670 U | < 0.00580 U | < 0.00590 U | < 0.00620 U | < 0.00640 U |
| Tetrachloroethene | 1.3 | 150 | < 0.00600 U | **0.00240 J** | < 0.00540 U | **0.00420 J** | < 0.00570 U | < 0.00550 U | **0.0065** | **0.015** | **0.00520 J** | **0.0062** | **0.064** | < 0.00620 U | < 0.00640 U |
| Toluene | 0.7 | 500 | < 0.00600 U | < 0.00600 U | < 0.00540 U | < 0.00580 U | < 0.00570 U | < 0.00550 U | < 0.00570 U | < 0.00550 U | < 0.00670 U | < 0.00580 U | < 0.00590 U | < 0.00620 U | < 0.00640 U |
| Trichloroethene | 0.47 | 200 | < 0.00600 U | **0.022** | < 0.00540 U | < 0.00580 U | < 0.00570 U | < 0.00550 U | < 0.00570 U | **0.0058** | < 0.00670 U | **0.00200 J** | **0.00320 J** | < 0.00620 U | < 0.00640 U |

| Location: | Part 375 Unrestricted | Part 375 Commercial | P-8 | | P-9 | | P-10 | | P-11 | | P-12 | | P-13 | | P-14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft bg): | | | (0-3) | (11.5-13.5) | (0-3) | (10-12) | (0-3) | (13-15) | (0-3) | (8-10) | (0-3) | (15-17) | (0-3) | (18-20) | (0-3) | (13-15) |
| Sample Date: | | | 09/16/2021 | 09/16/2021 | 09/15/2021 | 09/15/2021 | 09/16/2021 | 09/16/2021 | 09/16/2021 | 09/16/2021 | 09/17/2021 | 09/17/2021 | 09/15/2021 | 09/15/2021 | 09/16/2021 | 09/16/2021 |
| Laboratory Sample ID: | | | 480-189796-17 | 480-189796-18 | 480-189796-3 | 480-189796-4 | 480-189796-30 | 480-189796-31 | 480-189796-35 | 480-189796-36 | 480-189796-43 | 480-189796-44 | 480-189796-9 | 480-189796-10 | 480-189796-27 | 480-189796-33 |
| **Volatile Organic Compounds (VOCs) (mg/kg)** | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 0.68 | 500 | < 0.00560 U | < 0.00620 U | < 0.00580 U | **0.00130 J** | < 0.00550 U | < 0.00620 U | < 0.00590 U | < 0.00640 U | < 0.00630 U | < 0.00590 U | < 0.00530 U | < 0.00540 U | < 0.00580 U | < 0.00560 U |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | NP | NP | < 0.00560 U | < 0.00620 U | < 0.00580 U | < 0.00550 U | < 0.00550 U | < 0.00620 U | < 0.00590 U | < 0.00640 U | < 0.00630 U | < 0.00590 U | < 0.00530 U | < 0.00540 U | < 0.00580 U | < 0.00560 U |
| 1,1-Dichloroethane | 0.27 | 240 | < 0.00560 U | < 0.00620 U | < 0.00580 U | < 0.00550 U | < 0.00550 U | < 0.00620 U | < 0.00590 U | < 0.00640 U | < 0.00630 U | < 0.00590 U | < 0.00530 U | < 0.00540 U | < 0.00580 U | < 0.00560 U |
| 1,1-Dichloroethene | 0.33 | 500 | < 0.00560 U | < 0.00620 U | < 0.00580 U | < 0.00550 U | < 0.00550 U | < 0.00620 U | < 0.00590 U | < 0.00640 U | < 0.00630 U | < 0.00590 U | < 0.00530 U | < 0.00540 U | < 0.00580 U | < 0.00560 U |
| Acetone | 0.05 | 500 | < 0.0280 U | < 0.0310 U | < 0.0290 U | < 0.0270 U | < 0.0280 U | < 0.0310 U | < 0.0300 U | < 0.0320 U | < 0.0310 U | < 0.0300 U | < 0.0260 U | **0.00590 J** | < 0.0290 U | **0.00520 J** |
| Carbon tetrachloride | 0.76 | 22 | < 0.00560 U | < 0.00620 U | < 0.00580 U | **0.000760 J** | < 0.00550 U | < 0.00620 U | < 0.00590 U | < 0.00640 U | < 0.00630 U | < 0.00590 U | < 0.00530 U | < 0.00540 U | < 0.00580 U | < 0.00560 U |
| Chloroform | 0.37 | 350 | < 0.00560 U | < 0.00620 U | < 0.00580 U | **0.00240 J** | < 0.00550 U | < 0.00620 U | **0.000680 J** | < 0.00640 U | < 0.00630 U | **0.000490 J** | **0.000650 J** | **0.000390 J** | < 0.00580 U | **0.000370 J** |
| cis-1,2-Dichloroethene | 0.25 | 500 | < 0.00560 U | **0.00490 J** | < 0.00580 U | < 0.00550 U | < 0.00550 U | < 0.00620 U | < 0.00590 U | < 0.00640 U | < 0.00630 U | < 0.00590 U | **0.000720 J** | < 0.00540 U | < 0.00580 U | < 0.00560 U |
| Methylene chloride | 0.05 | 500 | < 0.00560 U | < 0.00620 U | < 0.00580 U | < 0.00550 U | < 0.00550 U | < 0.00620 U | **0.00520 J** | < 0.00640 U | < 0.00630 U | < 0.00590 U | < 0.00530 U | **0.0066** | < 0.00580 U | **0.0083** |
| Tetrachloroethene | 1.3 | 150 | **0.013** | **0.016** | < 0.00580 U | < 0.00550 U | < 0.00550 U | < 0.00620 U | < 0.00590 U | < 0.00640 U | < 0.00630 U | < 0.00590 U | **0.00240 J** | < 0.00540 U | < 0.00580 U | < 0.00560 U |
| Toluene | 0.7 | 500 | < 0.00560 U | < 0.00620 U | **0.000650 J** | < 0.00550 U | < 0.00550 U | < 0.00620 U | < 0.00590 U | < 0.00640 U | < 0.00630 U | < 0.00590 U | < 0.00530 U | < 0.00540 U | < 0.00580 U | < 0.00560 U |
| Trichloroethene | 0.47 | 200 | **0.007** | **0.00400 J** | < 0.00580 U | **0.023** | < 0.00550 U | < 0.00620 U | < 0.00590 U | < 0.00640 U | < 0.00630 U | < 0.00590 U | **0.00260 J** | < 0.00540 U | < 0.00580 U | < 0.00560 U |

| Location: | Part 375 Unrestricted | Part 375 Commercial | P-15 | | P-16 | | P-17 | | P-18 | | P-19 | | P-20 | | P-21 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft bg): | | | (0-3) | (13-15) | (0-3) | (23-25) | (0-3) | (10-12) | (0-3) | (15-17) | (0-3) | (21-23) | (0-3) | (11-13) | (8-10) | (0-3) |
| Sample Date: | | | 09/17/2021 | 09/17/2021 | 09/15/2021 | 09/15/2021 | 09/16/2021 | 09/16/2021 | 09/15/2021 | 09/15/2021 | 09/14/2021 | 09/14/2021 | 09/17/2021 | 09/17/2021 | 09/16/2021 | 09/16/2021 |
| Laboratory Sample ID: | | | 480-189796-41 | 480-189796-42 | 480-189796-11 | 480-189796-12 | 480-189796-24 | 480-189796-25 | 480-189796-7 | 480-189796-8 | 480-189796-1 | 480-189796-2 | 480-189796-45 | 480-189796-46 | 480-189796-34 | 480-189796-32 |
| **Volatile Organic Compounds (VOCs) (mg/kg)** | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 0.68 | 500 | < 0.00620 U | < 0.00520 U | < 0.00620 U | < 0.00540 U | < 0.00640 U | < 0.00530 U | < 0.00580 U | < 0.00550 U | < 0.00600 U | **0.00200 J** | < 0.00580 U | < 0.00560 U | < 0.00570 U | < 0.00610 U |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | NP | NP | < 0.00620 U | < 0.00520 U | < 0.00620 U | < 0.00540 U | < 0.00640 U | < 0.00530 U | < 0.00580 U | < 0.00550 U | < 0.00600 U | < 0.00580 U | < 0.00580 U | < 0.00560 U | < 0.00570 U | < 0.00610 U |
| 1,1-Dichloroethane | 0.27 | 240 | < 0.00620 U | < 0.00520 U | < 0.00620 U | < 0.00540 U | < 0.00640 U | < 0.00530 U | < 0.00580 U | < 0.00550 U | < 0.00600 U | < 0.00580 U | < 0.00580 U | < 0.00560 U | < 0.00570 U | < 0.00610 U |
| 1,1-Dichloroethene | 0.33 | 500 | < 0.00620 U | < 0.00520 U | < 0.00620 U | < 0.00540 U | < 0.00640 U | < 0.00530 U | < 0.00580 U | < 0.00550 U | < 0.00600 U | < 0.00580 U | < 0.00580 U | < 0.00560 U | < 0.00570 U | < 0.00610 U |
| Acetone | 0.05 | 500 | < 0.0310 U | **0.00530 J** | < 0.0310 U | < 0.0270 U | < 0.0320 U | < 0.0270 U | < 0.0290 U | **0.00530 J** | < 0.0300 U | **0.0100 J** | < 0.0290 U | < 0.0280 U | **0.00540 J** | < 0.0300 U |
| Carbon tetrachloride | 0.76 | 22 | < 0.00620 U | < 0.00520 U | < 0.00620 U | < 0.00540 U | < 0.00640 U | < 0.00530 U | < 0.00580 U | < 0.00550 U | < 0.00600 U | < 0.00580 U | < 0.00580 U | < 0.00560 U | < 0.00570 U | < 0.00610 U |
| Chloroform | 0.37 | 350 | < 0.00620 U | < 0.00520 U | < 0.00620 U | < 0.00540 U | < 0.00640 U | < 0.00530 U | **0.000370 J** | **0.000480 J** | < 0.00600 U | **0.000790 J** | < 0.00580 U | < 0.00560 U | < 0.00570 U | < 0.00610 U |
| cis-1,2-Dichloroethene | 0.25 | 500 | < 0.00620 U | < 0.00520 U | **0.00260 J** | < 0.00540 U | < 0.00640 U | < 0.00530 U | < 0.00580 U | < 0.00550 U | < 0.00600 U | < 0.00580 U | < 0.00580 U | < 0.00560 U | < 0.00570 U | < 0.00610 U |
| Methylene chloride | 0.05 | 500 | < 0.00620 U | < 0.00520 U | < 0.00620 U | < 0.00540 U | < 0.00640 U | < 0.00530 U | < 0.00580 U | **0.012** | < 0.00600 U | **0.015** | < 0.00580 U | < 0.00560 U | < 0.00570 U | **0.0062** |
| Tetrachloroethene | 1.3 | 150 | < 0.00620 U | < 0.00520 U | **0.00170 J** | < 0.00540 U | < 0.00640 U | < 0.00530 U | < 0.00580 U | < 0.00550 U | < 0.00600 U | < 0.00580 U | < 0.00580 U | < 0.00560 U | < 0.00570 U | < 0.00610 U |
| Toluene | 0.7 | 500 | < 0.00620 U | < 0.00520 U | < 0.00620 U | < 0.00540 U | < 0.00640 U | < 0.00530 U | < 0.00580 U | < 0.00550 U | < 0.00600 U | < 0.00580 U | < 0.00580 U | < 0.00560 U | < 0.00570 U | < 0.00610 U |
| Trichloroethene | 0.47 | 200 | < 0.00620 U | < 0.00520 U | **0.00590 J** | < 0.00540 U | < 0.00640 U | < 0.00530 U | < 0.00580 U | < 0.00550 U | < 0.00600 U | < 0.00580 U | < 0.00580 U | < 0.00560 U | < 0.00570 U | < 0.00610 U |

| Location: | Part 375 Unrestricted | Part 375 Commercial | P-22 | | P-23 | P-24 | P-25 | | P-26 | | MW-9 | | MW-10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft bg): | | | (0-3) | (8-10) | (2-2.5) | (2-2.5) | (0-0.5) | (2-2.5) | (0-0.5) | (2-2.5) | (3-5) | (18-20) | (3-5) | (18-20) |
| Sample Date: | | | 09/17/2021 | 09/17/2021 | 09/17/2021 | 09/17/2021 | 09/17/2021 | 09/17/2021 | 09/17/2021 | 09/17/2021 | 09/15/2023 | 09/15/2023 | 09/15/2023 | 09/15/2023 |
| Laboratory Sample ID: | | | 480-189796-39 | 480-189796-40 | 480-189796-49 | 480-189796-50 | 480-189796-37 | 480-189796-38 | 480-189796-47 | 480-189796-48 | 23I2069-01 | 23I2069-02 | 23I2069-03 | 23I2069-04 |
| **Volatile Organic Compounds (VOCs) (mg/kg)** | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 0.68 | 500 | < 0.00580 U | < 0.00560 U | < 0.00610 U | < 0.00550 U | < 0.00580 U | < 0.00530 U | < 0.00600 U | < 0.00590 U | < 0.00220 U | < 0.00200 U | < 0.00210 U | < 0.00220 U |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | NP | NP | < 0.00580 U | < 0.00560 U | < 0.00610 U | < 0.00550 U | < 0.00580 U | < 0.00530 U | < 0.00600 U | < 0.00590 U | < 0.0110 U | < 0.00990 U | < 0.0110 U | < 0.0110 U |
| 1,1-Dichloroethane | 0.27 | 240 | < 0.00580 U | < 0.00560 U | < 0.00610 U | < 0.00550 U | < 0.00580 U | < 0.00530 U | < 0.00600 U | < 0.00590 U | < 0.00220 U | < 0.00200 U | < 0.00210 U | < 0.00220 U |
| 1,1-Dichloroethene | 0.33 | 500 | < 0.00580 U | < 0.00560 U | < 0.00610 U | < 0.00550 U | < 0.00580 U | < 0.00530 U | < 0.00600 U | < 0.00590 U | < 0.00440 U | < 0.00390 U | < 0.00430 U | < 0.00440 U |
| Acetone | 0.05 | 500 | < 0.0290 U | < 0.0280 U | < 0.0310 U | < 0.0270 U | < 0.0290 U | < 0.0260 U | < 0.0300 U | < 0.0300 U | **0.0100 J** | < 0.0990 U | < 0.110 U | < 0.110 U |
| Carbon tetrachloride | 0.76 | 22 | < 0.00580 U | < 0.00560 U | < 0.00610 U | < 0.00550 U | < 0.00580 U | < 0.00530 U | < 0.00600 U | < 0.00590 U | < 0.00220 U | < 0.00200 U | < 0.00210 U | < 0.00220 U |
| Chloroform | 0.37 | 350 | < 0.00580 U | < 0.00560 U | < 0.00610 U | < 0.00550 U | < 0.00580 U | < 0.00530 U | < 0.00600 U | < 0.00590 U | < 0.00440 U | < 0.00390 U | < 0.00430 U | < 0.00440 U |
| cis-1,2-Dichloroethene | 0.25 | 500 | < 0.00580 U | < 0.00560 U | < 0.00610 U | < 0.00550 U | < 0.00580 U | < 0.00530 U | < 0.00600 U | < 0.00590 U | < 0.00220 U | < 0.00200 U | **0.00140 J** | **0.0063** |
| Methylene chloride | 0.05 | 500 | < 0.00580 U | < 0.00560 U | < 0.00610 U | < 0.00550 U | < 0.00580 U | < 0.00530 U | < 0.00600 U | < 0.00590 U | < 0.0220 U | < 0.0200 U | < 0.0210 U | **0.00270 J** |
| Tetrachloroethene | 1.3 | 150 | < 0.00580 U | **0.00130 J** | < 0.00610 U | **0.00120 J** | **0.00320 J** | **0.0094** | **0.00240 J** | < 0.00590 U | < 0.00220 U | < 0.00200 U | **0.014** | **11** |
| Toluene | 0.7 | 500 | < 0.00580 U | < 0.00560 U | < 0.00610 U | < 0.00550 U | < 0.00580 U | < 0.00530 U | < 0.00600 U | < 0.00590 U | < 0.00220 U | < 0.00200 U | **0.00190 J** | < 0.00220 U |
| Trichloroethene | 0.47 | 200 | < 0.00580 U | < 0.00560 U | < 0.00610 U | < 0.00550 U | < 0.00580 U | **0.00250 J** | **0.00350 J** | **0.00330 J** | < 0.00220 U | < 0.00200 U | **0.0063** | **0.041** |

**Legend**

| | |
|---|---|
| <1 | Parameter not detected above the laboratory reporting limit |
| **1** | Parameter reported above the laboratory reporting limit but below the applicable regulatory |
| **1** | Parameter reported at a concentrations greater than Part 375 Unrestricted SCOs |
| **1** | Parameter reported at a concentrations greater than Part 375 Commercial SCOs |

**Notes:**
ft bg = feet below grade
mg/kg = micrograms per kilogram
J = value is estimated
U = not detected above laboratory reporting limits
NA = Not Analyzed
NP = not promulgated/ no applicable SCO

Table 2B
Soil Laboratory Analytical Results (Detections Only)
SVOCs and Metals
Site #336077
251 Walsh Road, New Windsor, New York

| Location: | Part 375 Unrestricted | Part 375 Commercial | P-1 | P-5 | P-6 | P-7 | P-12 | P-14 | P-16 | P-20 | | P-22 | | P-24 | P-25 | | P-26 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft bg): | | | **(0-0.5)** | **(0-3)** | **(13-15)** | **(13-15)** | **(0-3)** | **(13-15)** | **(0-3)** | **(0-3)** | **(11-13)** | **(0-3)** | **(2-2.5)** | **(2-2.5)** | **(0-0.5)** | **(2-2.5)** | **(0-0.5)** | **(2-2.5)** |
| Sample Date: | | | 09/17/2021 | 09/15/2021 | 09/16/2021 | 09/16/2021 | 09/17/2021 | 09/16/2021 | 09/15/2021 | 09/17/2021 | 09/17/2021 | 09/17/2021 | 09/17/2021 | 09/17/2021 | 09/17/2021 | 09/17/2021 | 09/17/2021 | 09/17/2021 |
| Laboratory Sample ID: | | | 480-189796-51 | 480-189796-13 | 480-189796-21 | 480-189796-29 | 480-189796-43 | 480-189796-33 | 480-189796-11 | 480-189796-45 | 480-189796-46 | 480-189796-39 | 480-189796-49 | 480-189796-50 | 480-189796-37 | 480-189796-38 | 480-189796-47 | 480-189796-48 |
| **Semivolalite Organic Compounds (SVOC) (mg/kg)** | | | | | | | | | | | | | | | | | | |
| Acenaphthene | 20 | 500 | < 0.200 U | < 0.190 U | < 0.200 U | < 0.220 U | < 0.210 U | NA | < 0.210 U | **0.730 J** | < 0.200 U | < 0.200 U | < 0.210 U | < 0.190 U | < 0.190 U | < 0.190 U | < 0.210 U | < 0.200 U |
| Acenaphthylene | 100 | 500 | < 0.200 U | < 0.190 U | < 0.200 U | < 0.220 U | **0.150 J** | NA | < 0.210 U | **0.890 J** | < 0.200 U | < 0.200 U | < 0.210 U | < 0.190 U | < 0.190 U | < 0.190 U | < 0.210 U | < 0.200 U |
| Anthracene | 100 | 500 | < 0.200 U | < 0.190 U | < 0.200 U | < 0.220 U | **0.0700 J** | NA | < 0.210 U | **1.5** | < 0.200 U | < 0.200 U | < 0.210 U | < 0.190 U | < 0.190 U | < 0.190 U | < 0.210 U | < 0.200 U |
| Benzo(a)anthracene | 1 | 5.6 | < 0.200 U | < 0.190 U | < 0.200 U | < 0.220 U | **0.3** | NA | < 0.210 U | **5** | < 0.200 U | < 0.200 U | < 0.210 U | < 0.190 U | < 0.190 U | < 0.190 U | **0.0410 J** | < 0.200 U |
| Benzo(a)pyrene | 1 | 1 | < 0.200 U | < 0.190 U | < 0.200 U | < 0.220 U | **0.32** | NA | **0.0390 J** | **4.8** | < 0.200 U | < 0.200 U | < 0.210 U | < 0.190 U | < 0.190 U | < 0.190 U | **0.0370 J** | < 0.200 U |
| Benzo(b)fluoranthene | 1 | 5.6 | **0.0410 J** | < 0.190 U | < 0.200 U | < 0.220 U | **0.63** | NA | **0.0560 J** | **7.1** | < 0.200 U | < 0.200 U | < 0.210 U | **0.0360 J** | < 0.190 U | < 0.190 U | **0.0490 J** | < 0.200 U |
| Benzo(ghi)perylene | 100 | 500 | < 0.200 U | < 0.190 U | < 0.200 U | < 0.220 U | **0.26** | NA | < 0.210 U | **3.6** | < 0.200 U | < 0.200 U | < 0.210 U | < 0.190 U | < 0.190 U | < 0.190 U | **0.0250 J** | < 0.200 U |
| Benzo(k)fluoranthene | 0.8 | 56 | < 0.200 U | < 0.190 U | < 0.200 U | < 0.220 U | < 0.210 U | NA | **0.0290 J** | **2.3** | < 0.200 U | < 0.200 U | < 0.210 U | < 0.190 U | < 0.190 U | < 0.190 U | **0.0300 J** | < 0.200 U |
| Bis(2-ethylhexyl)phthalate | NP | NP | **0.0920 J** | < 0.190 U | < 0.200 U | < 0.220 U | < 0.210 U | NA | < 0.210 U | < 1.00 U | < 0.200 U | < 0.200 U | **0.0990 J** | < 0.190 U | **0.150 J** | < 0.190 U | **0.100 J** | **0.0930 J** |
| Carbazole | NP | NP | < 0.200 U | < 0.190 U | < 0.200 U | < 0.220 U | < 0.210 U | NA | < 0.210 U | **0.570 J** | < 0.200 U | < 0.200 U | < 0.210 U | < 0.190 U | < 0.190 U | < 0.190 U | < 0.210 U | < 0.200 U |
| Chrysene | 1 | 56 | < 0.200 U | < 0.190 U | < 0.200 U | < 0.220 U | **0.34** | NA | < 0.210 U | **5.2** | < 0.200 U | < 0.200 U | < 0.210 U | < 0.190 U | < 0.190 U | < 0.190 U | **0.0500 J** | < 0.200 U |
| Dibenzo(a,h)anthracene | 0.33 | 0.56 | < 0.200 U | < 0.190 U | < 0.200 U | < 0.220 U | **0.0890 J** | NA | < 0.210 U | **0.890 J** | < 0.200 U | < 0.200 U | < 0.210 U | < 0.190 U | < 0.190 U | < 0.190 U | < 0.210 U | < 0.200 U |
| Dibenzofuran | 7 | 350 | < 0.200 U | < 0.190 U | < 0.200 U | < 0.220 U | < 0.210 U | NA | < 0.210 U | **0.190 J** | < 0.200 U | < 0.200 U | < 0.210 U | < 0.190 U | < 0.190 U | < 0.190 U | < 0.210 U | < 0.200 U |
| Fluoranthene | 100 | 500 | < 0.200 U | < 0.190 U | < 0.200 U | < 0.220 U | **0.49** | NA | **0.0920 J** | **10** | < 0.200 U | < 0.200 U | **0.0360 J** | **0.0330 J** | < 0.190 U | < 0.190 U | **0.0820 J** | < 0.200 U |
| Fluorene | 30 | 500 | < 0.200 U | < 0.190 U | < 0.200 U | < 0.220 U | < 0.210 U | NA | < 0.210 U | **0.550 J** | < 0.200 U | < 0.200 U | < 0.210 U | < 0.190 U | < 0.190 U | < 0.190 U | < 0.210 U | < 0.200 U |
| Indeno(1,2,3-cd)pyrene | 0.5 | 5.6 | < 0.200 U | < 0.190 U | < 0.200 U | < 0.220 U | **0.22** | NA | < 0.210 U | **3** | < 0.200 U | < 0.200 U | < 0.210 U | < 0.190 U | < 0.190 U | < 0.190 U | < 0.210 U | < 0.200 U |
| Phenanthrene | 100 | 500 | < 0.200 U | < 0.190 U | < 0.200 U | < 0.220 U | **0.160 J** | NA | < 0.210 U | **5.6** | < 0.200 U | < 0.200 U | < 0.210 U | < 0.190 U | < 0.190 U | < 0.190 U | < 0.210 U | < 0.200 U |
| Pyrene | 100 | 500 | < 0.200 U | < 0.190 U | < 0.200 U | < 0.220 U | **0.53** | NA | **0.0820 J** | **8.7** | < 0.200 U | < 0.200 U | **0.0510 J** | **0.0420 J** | < 0.190 U | < 0.190 U | **0.0620 J** | < 0.200 U |

| Location: | Part 375 Unrestricted | Part 375 Commercial | P-1 | P-2 | | P-8 | P-11 | P-12 | P-14 | P-21 | P-22 | | P-24 | P-25 | | P-26 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft bg): | | | **(0-0.5)** | **(0-3)** | **(23-25)** | **(11.5-13.5)** | **(8-10)** | **(0-3)** | **(13-15)** | **(0-3)** | **(0-3)** | **(2-2.5)** | **(2-2.5)** | **(0-0.5)** | **(2-2.5)** | **(0-0.5)** | **(2-2.5)** |
| Sample Date: | | | 09/17/2021 | 09/15/2021 | 09/15/2021 | 09/16/2021 | 09/16/2021 | 09/17/2021 | 09/16/2021 | 09/16/2021 | 09/17/2021 | 09/17/2021 | 09/17/2021 | 09/17/2021 | 09/17/2021 | 09/17/2021 | 09/17/2021 |
| Laboratory Sample ID: | | | 480-189796-51 | 480-189796-5 | 480-189796-6 | 480-189796-18 | 480-189796-36 | 480-189796-43 | 480-189796-33 | 480-189796-32 | 480-189796-39 | 480-189796-49 | 480-189796-50 | 480-189796-37 | 480-189796-38 | 480-189796-47 | 480-189796-48 |
| **Metals (mg/kg)** | | | | | | | | | | | | | | | | | |
| Aluminum | NP | NP | **14900** | **18600** | **10100** | **10800** | **17300** | **17000** | **13200** | **17500** | **14500** | **13600** | **13100** | **13100** | **10800** | **14300** | **16300** |
| Arsenic | 13 | 16 | **7.2** | **9.3** | **4.1** | **4.7** | **1.40 J** | **7.2** | **4.8** | **6.8** | **5.9** | **4.4** | **5.3** | **4** | **4.5** | **4.6** | **6.9** |
| Barium | 350 | 400 | **53.9** | **73.1** | **39.3** | **38.7** | **72.1** | **68.3** | **66.9** | **45.4** | **50.9** | **55.1** | **45.5** | **43.6** | **42.9** | **52.3** | **66.4** |
| Beryllium | 7.2 | 590 | **0.77** | **0.91** | **0.48** | **0.43** | **0.65** | **0.75** | **0.61** | **0.71** | **0.63** | **0.6** | **0.54** | **0.7** | **0.53** | **0.59** | **0.75** |
| Cadmium | 2.5 | 9.3 | **0.140 J** | **0.130 J** | **0.33** | **0.120 J** | **0.0830 J** | **0.27** | **0.140 J** | **0.0880 J** | **0.130 J** | **0.38** | **0.120 J** | **0.190 J** | **0.140 J** | **0.160 J** | **0.190 J** |
| Calcium | NP | NP | **6890** | **1860** | **73100** | **2880** | **1640** | **9120** | **33600** | **817** | **2850** | **11600** | **4200** | **20200** | **16200** | **5120** | **7010** |
| Chromium | 30 | 1500 | **18.7** | **23.3** | **13.4** | **13.6** | **19.4** | **20.6** | **16.1** | **16.4** | **16** | **15.7** | **14** | **15.4** | **12.8** | **16.6** | **19.8** |
| Cobalt | NP | NP | **14.4** | **16.5** | **9** | **7.4** | **13.5** | **13** | **11.1** | **10.8** | **11.4** | **10.5** | **9.3** | **11** | **9.4** | **10.6** | **13.4** |
| Copper | 50 | 270 | **29.6** | **28.9** | **18.7** | **16.8** | **27.1** | **29.2** | **24.3** | **31.6** | **20** | **24.2** | **20.9** | **23.3** | **21.4** | **23.8** | **28.2** |
| Iron | NP | NP | **30000** | **33300** | **21100** | **17000** | **24300** | **29900** | **25100** | **27000** | **26000** | **24600** | **21200** | **25500** | **21000** | **26800** | **30900** |
| Lead | 63 | 1000 | **19** | **23.5** | **10.4** | **11.7** | **16.5** | **40.2** | **13.7** | **14.7** | **12.9** | **20.1** | **38** | **12.1** | **23.6** | **19** | **31.3** |
| Magnesium | NP | NP | **5660** | **5280** | **7000** | **4370** | **5690** | **7910** | **7610** | **4550** | **5620** | **5520** | **4260** | **7380** | **5150** | **6060** | **5970** |
| Manganese | 1600 | 10000 | **465** | **317** | **503** | **341** | **163** | **648** | **547** | **625** | **613** | **618** | **527** | **629** | **507** | **617** | **642** |
| Mercury | 0.18 | 2.8 | **0.048** | **0.041** | **0.0120 J** | **0.0180 J** | **0.0230 J** | **0.19** | **0.0150 J** | **0.033** | **0.0240 J** | **0.12** | **0.049** | **0.0170 J** | **0.057** | **0.0210 J** | **0.083** |
| Nickel | 30 | 310 | **27.6** | **32.9** | **21.1** | **18.7** | **31.5** | **29.1** | **26** | **23.2** | **25.3** | **25.9** | **19.9** | **24.9** | **21** | **25.5** | **31.8** |
| Potassium | NP | NP | **2250** | **3010** | **1620** | **1330** | **2820** | **2060** | **2400** | **1700** | **1730** | **1930** | **1660** | **2150** | **1720** | **2110** | **1890** |
| Selenium | 3.9 | 1500 | **2.10 J** | **1.30 J** | < 4.70 U | < 4.90 U | < 5.30 U | **2.40 J** | < 4.70 U | < 5.10 U | **2.20 J** | **1.80 J** | **1.40 J** | < 4.50 U | < 4.10 U | **1.80 J** | **2.60 J** |
| Silver | 2 | 1500 | **0.500 J** | **0.290 J** | < 0.710 U | **0.360 J** | **0.370 J** | **0.320 J** | < 0.710 U | < 0.770 U | **0.300 J** | **0.500 J** | < 0.680 U | **0.220 J** | **0.210 J** | < 0.740 U | < 0.730 U |
| Sodium | NP | NP | **71.6 J** | **720** | **114 J** | **112 J** | **535** | **200** | **105 J** | **155 J** | **99.0 J** | **141 J** | **55.7 J** | **88.4 J** | **70.7 J** | **79.2 J** | **86.9 J** |
| Vanadium | NP | NP | **23** | **27.4** | **13.8** | **16.8** | **22.4** | **25.2** | **19** | **21.1** | **21.3** | **18.6** | **18.1** | **18.7** | **15.8** | **19** | **22** |
| Zinc | 109 | 10000 | **68.3** | **74.7** | **51** | **46.4** | **74.2** | **97.2** | **62.3** | **58.7** | **63.4** | **77** | **59.1** | **69.2** | **59.7** | **71.6** | **79.7** |

**Legend**

| | |
|---|---|
| <1 | Parameter not detected above the laboratory reporting limit |
| **1** | Parameter reported above the laboratory reporting limit but below the applicable regulatory standard/criterion |
| **1** | Parameter reported at a concentrations greater than Part 375 Unrestricted SCOs |
| **1** | Parameter reported at a concentrations greater than Part 375 Commercial SCOs |

**Notes:**
ft bg = feet below grade
mg/kg = micrograms per kilogram
J = value is estimated
U = not detected above laboratory reporting limits
NA = Not Analyzed
NP = not promulgated/ no applicable SCO
SCO Soil Cleanup Objective

Table 3
Groundwater Laboratory Analysis (Detections Only)
VOCs, SVOCs, Metals, PFAS
Site #336077
251 Walsh Road, New Windsor, New York

| Sample ID: | NYDEC Class GA Criteria | MW-1 | MW-7 | MW-8 | | MW-9 | MW-10 | MW-100 OB | MW-100 BR | | MW-101 OB | MW-101 BR | | MW-102 OB | MW-102 BR | MW-103 OB | MW-103 BR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Well Type | | Overburden | Overburden | Overburden | | Overburden | Overburden | Overburden | Bedrock | | Overburden | Bedrock | | Overburden | Bedrock | Overburden | Bedrock | |
| Date Collected: | | 10/28/2021 | 10/28/2021 | 10/28/2021 | 10/09/2023 | 10/09/2023 | 10/09/2023 | 10/28/2021 | 10/29/2021 | 10/09/2023 | 10/28/2021 | 10/28/2021 | 10/09/2023 | 10/28/2021 | 10/28/2021 | 10/28/2021 | 10/28/2021 | 10/09/2023 |
| Lab Report Number: | | 4801918341 | 4801918341 | 4801918341 | 23J1498 | 23J1498 | 23J1498 | 4801918341 | 4801918341 | 23J1498 | 4801918341 | 4801918341 | 23J1498 | 4801918341 | 4801918341 | 4801918341 | 4801918341 | 23J1498 |
| Volatile Organic Compounds (VOCs) (ug/L) | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | < 1.00 U | 1.3 | 4.3 | < 1.00 U | < 1.00 U | 0.570 J | < 20.0 U | < 1.00 U | 3.8 | 0.990 J | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | 2.3 | < 1.00 U | < 1.00 U |
| 1,1,2-Trichlorotrifluoroethane (Freon 113) | 5 | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 20.0 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | 0.880 J | < 1.00 U | < 1.00 U |
| 1,1-Dichloroethane | 5 | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 20.0 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | 0.530 J | < 1.00 U | < 1.00 U |
| 1,1-Dichloroethene | 5 | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | 0.180 J | < 20.0 U | < 1.00 U | 0.180 J | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | 0.570 J | < 1.00 U | < 1.00 U |
| Acetone | 50 | < 10.0 U | < 10.0 U | < 10.0 U | < 50.0 U | < 50.0 U | < 50.0 U | < 200 U | < 10.0 U | 2.10 J | < 10.0 U | < 10.0 U | 10.0 J | < 10.0 U | < 10.0 U | < 10.0 U | < 10.0 U | < 50.0 U |
| Carbon tetrachloride | 5 | < 1.00 U | < 1.00 U | < 1.00 U | < 5.00 U | < 5.00 U | < 5.00 U | < 20.0 U | < 1.00 U | 0.180 J | < 1.00 U | < 1.00 U | < 5.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 5.00 U |
| Chloroform | 7 | < 1.00 U | < 1.00 U | 0.460 J | < 2.00 U | < 2.00 U | 0.370 J | < 20.0 U | < 1.00 U | 0.490 J | < 1.00 U | < 1.00 U | < 2.00 U | < 1.00 U | < 1.00 U | 0.650 J | < 1.00 U | < 2.00 U |
| Chloromethane | 5 | < 1.00 U | < 1.00 U | < 1.00 U | < 2.00 U | < 2.00 U | < 2.00 U | < 20.0 U | < 1.00 U | < 2.00 U | < 1.00 U | < 1.00 U | < 2.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 2.00 U |
| cis-1,2-Dichloroethene | 5 | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | 18 | 27 | < 1.00 U | 0.390 J | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U |
| Tetrachloroethene | 5 | < 1.00 U | < 1.00 U | 22 | 2.3 | 0.270 J | 39 | 760 | < 1.00 U | 84 | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | 1.8 | < 1.00 U | < 1.00 U |
| trans-1,2-Dichloroethene | 5 | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | 0.310 J | < 20.0 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U |
| Trichloroethene | 5 | < 1.00 U | < 1.00 U | 2 | 0.770 J | < 1.00 U | 15 | 28 | < 1.00 U | 3 | 0.510 J | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | 2.1 | < 1.00 U | < 1.00 U |
| Vinyl chloride | 2 | < 1.00 U | < 1.00 U | < 1.00 U | < 2.00 U | < 2.00 U | 0.900 J | < 20.0 U | < 1.00 U | < 2.00 U | < 1.00 U | < 1.00 U | < 2.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 1.00 U | < 2.00 U |
| Semivolatile Organic Compounds (SVOCs) (ug/L) | | | | | | | | | | | | | | | | | | |
| Diethyl phthalate | 50 | < 5.00 U | 2.00 J | < 5.00 U | NA | NA | NA | < 5.00 U | < 5.00 U | NA | < 5.00 U | < 5.00 U | NA | < 5.00 U | 8.9 | 0.860 J | < 5.00 U | NA |
| Di-n-butyl phthalate | 50 | < 5.00 U | < 5.00 U | < 5.00 U | NA | NA | NA | < 5.00 U | < 5.00 U | NA | < 5.00 U | < 5.00 U | NA | < 5.00 U | 0.430 J | < 5.00 U | < 5.00 U | NA |
| p-Cresol | NP | < 10.0 U | < 10.0 U | < 10.0 U | NA | NA | NA | < 10.0 U | < 10.0 U | NA | < 10.0 U | 4.50 J | NA | < 10.0 U | < 10.0 U | < 10.0 U | < 10.0 U | NA |
| Phenol | 1 | < 5.00 U | < 5.00 U | < 5.00 U | NA | NA | NA | < 5.00 U | < 5.00 U | NA | < 5.00 U | 7.2 | NA | < 5.00 U | < 5.00 U | < 5.00 U | < 5.00 U | NA |
| Metals (ug/L) | | | | | | | | | | | | | | | | | | |
| Aluminum | NP | 1300 | 70.0 J | < 200 U | NA | NA | NA | < 200 U | 160 J | NA | 190 J | 770 | NA | < 200 U | 360 | 69.0 J | 120 J | NA |
| Antimony | 3 | < 20.0 U | < 20.0 U | < 20.0 U | NA | NA | NA | < 20.0 U | < 20.0 U | NA | < 20.0 U | < 20.0 U | NA | < 20.0 U | 7.60 J | < 20.0 U | < 20.0 U | NA |
| Arsenic | 25 | < 15.0 U | < 15.0 U | < 15.0 U | NA | NA | NA | < 15.0 U | < 15.0 U | NA | < 15.0 U | < 15.0 U | NA | < 15.0 U | < 15.0 U | < 15.0 U | < 15.0 U | NA |
| Barium | 1000 | 20 | 95 | 30 | NA | NA | NA | 39 | 200 | NA | 110 | 1200 | NA | 6.1 | 260 | 190 | 230 | NA |
| Beryllium | 3 | < 2.00 U | < 2.00 U | < 2.00 U | NA | NA | NA | < 2.00 U | < 2.00 U | NA | < 2.00 U | < 2.00 U | NA | < 2.00 U | < 2.00 U | < 2.00 U | < 2.00 U | NA |
| Cadmium | 5 | < 2.00 U | < 2.00 U | < 2.00 U | NA | NA | NA | < 2.00 U | < 2.00 U | NA | < 2.00 U | < 2.00 U | NA | < 2.00 U | < 2.00 U | < 2.00 U | < 2.00 U | NA |
| Calcium | NP | 18500 | 116000 | 103000 | NA | NA | NA | 97900 | 126000 | NA | 137000 | 408000 | NA | 34000 | 66400 | 137000 | 42700 | NA |
| Chromium | 50 | 1.20 J | < 4.00 U | < 4.00 U | NA | NA | NA | < 4.00 U | < 4.00 U | NA | < 4.00 U | 11 | NA | < 4.00 U | 2.00 J | < 4.00 U | 1.40 J | NA |
| Cobalt | NP | < 4.00 U | < 4.00 U | < 4.00 U | NA | NA | NA | < 4.00 U | < 4.00 U | NA | < 4.00 U | < 4.00 U | NA | < 4.00 U | < 4.00 U | < 4.00 U | < 4.00 U | NA |
| Copper | 200 | 3.50 J | < 10.0 U | < 10.0 U | NA | NA | NA | 2.20 J | < 10.0 U | NA | 1.60 J | 3.40 J | NA | < 10.0 U | < 10.0 U | < 10.0 U | < 10.0 U | NA |
| Iron | 300 | 1500 | 54 | < 50.0 U | NA | NA | NA | < 50.0 U | 430 | NA | 230 | 21.0 J | NA | 80 | 470 | 42.0 J | < 50.0 U | NA |
| Lead | 25 | < 10.0 U | < 10.0 U | < 10.0 U | NA | NA | NA | < 10.0 U | < 10.0 U | NA | < 10.0 U | < 10.0 U | NA | < 10.0 U | < 10.0 U | < 10.0 U | < 10.0 U | NA |
| Magnesium | 35000 | 3500 | 21100 | 17300 | NA | NA | NA | 15100 | 28500 | NA | 28200 | < 200 U | NA | 5500 | 18000 | 28900 | 11500 | NA |
| Manganese | 300 | 95 | 18 | 3.9 | NA | NA | NA | 75 | 340 | NA | 310 | < 3.00 U | NA | 20 | 16 | 420 | < 3.00 U | NA |
| Mercury | 0.7 | < 0.200 U | < 0.200 U | < 0.200 U | NA | NA | NA | 0.53 | 0.7 | NA | 0.120 J | < 0.200 U | NA | < 0.200 U | < 0.200 U | < 0.200 U | < 0.200 U | NA |
| Nickel | 100 | < 10.0 U | < 10.0 U | < 10.0 U | NA | NA | NA | < 10.0 U | < 10.0 U | NA | < 10.0 U | < 10.0 U | NA | < 10.0 U | < 10.0 U | < 10.0 U | < 10.0 U | NA |
| Potassium | NP | 1800 | 2100 | 2000 | NA | NA | NA | 1600 | 6100 | NA | 2300 | 146000 | NA | 690 | 15000 | 2500 | 17900 | NA |
| Selenium | 10 | < 25.0 U | < 25.0 U | < 25.0 U | NA | NA | NA | < 25.0 U | < 25.0 U | NA | < 25.0 U | < 25.0 U | NA | < 25.0 U | < 25.0 U | < 25.0 U | < 25.0 U | NA |
| Silver | 50 | < 6.00 U | < 6.00 U | < 6.00 U | NA | NA | NA | < 6.00 U | < 6.00 U | NA | < 6.00 U | < 6.00 U | NA | < 6.00 U | < 6.00 U | < 6.00 U | < 6.00 U | NA |
| Sodium | 20000 | 78600 | 70800 | 139000 | NA | NA | NA | 181000 | 69500 | NA | 130000 | 69000 | NA | 7900 | 22800 | 131000 | 39600 | NA |
| Thallium | 0.5 | < 20.0 U | < 20.0 U | < 20.0 U | NA | NA | NA | < 20.0 U | < 20.0 U | NA | < 20.0 U | < 20.0 U | NA | < 20.0 U | < 20.0 U | < 20.0 U | < 20.0 U | NA |
| Vanadium | NP | 3.70 J | < 5.00 U | < 5.00 U | NA | NA | NA | < 5.00 U | < 5.00 U | NA | < 5.00 U | < 5.00 U | NA | < 5.00 U | 2.30 J | < 5.00 U | 6.4 | NA |
| Zinc | 2000 | 5.20 J | 2.30 J | < 10.0 U | NA | NA | NA | < 10.0 U | 4.10 J | NA | 2.30 J | 13 | NA | < 10.0 U | 2.10 J | 1.70 J | < 10.0 U | NA |
| PFAS Compounds (ng/L) | | | | | | | | | | | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | NP | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 2.80 J | < 4.10 U | NA |
| Perfluorohexanoic acid (PFHxA) | NP | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | < 1.60 U | 0.720 J | NA |
| Perfluorooctanesulfonic acid (PFOS) | 2.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.470J | < 1.70 U | NA |
| Perfluorooctanoic acid (PFOA) | 6.7 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.380 J | < 1.70 U | NA |
| Perfluoropentanoic acid (PFPeA) | NP | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 0.840 J | < 1.70 U | NA |

**Legend**

| | |
|---|---|
| <1 | Parameter not detcted above the laboratory reporting limit |
| **1** | Parameter reported above the laboratory reporting limit but below the applicable regulatory standard/criterion |
| **1** | Parameter reported at a concentrations greater than NYSDEC Class GA Criteria |

**Notes:**
ug/L = micrograms per liter
ng/L = nanograms per liter
J = value is estimated
U = not detected above laboratory reporting limits
NA = Not Analyzed
NP = not promulgated/ no applicable cleanup criteria
NYSDEC = New York State Department of Environmental Conservation

Table 4
Surface Water Laboratory Analysis (Detections Only)
VOCs, SVOCs, Metals, PFAS
Site #336077
251 Walsh Road, New Windsor, New York

| **ID:** | NYDEC Class B Surface water A(C) Fish Propagation | NYDEC Class B Surface water A(A) Fish Survival | **OUTFALL** | **SW-1** | **SW-2** | **SW-3** |
|---|---|---|---|---|---|---|
| **Date Collected:** | | | 10/28/2021 | 10/28/2021 | 10/28/2021 | 10/28/2021 |
| **Lab Report Number:** | | | 4801918391 | 4801918391 | 4801918391 | 4801918391 |
| **Volatile Organic Compounds (VOCs) (ug/L)** | | | | | | |
| Methyltertbutyl ether | NP | NP | **0.310 J** | < 0.16 | < 0.16 | < 0.16 |
| Tetrachloroethene | 1 | 1 | **1.2** | < 0.36 | < 0.36 | < 0.36 |
| **Semivolatile Organic Compounds (SVOCs) (ug/L)** | | | | | | |
| No Detections | | | | | | |
| **Metals (ug/L)** | | | | | | |
| Aluminum | 100 | NP | < 200 U | **770** | **200** | **150** |
| Barium | NP | NP | **58** | **25** | **14** | **14** |
| Calcium | NP | NP | **94600** | **27800** | **25900** | **26700** |
| Chromium | 62.7 | 481.8 | **1.40 J** | **1.5** | < 10.0 U | < 10.0 U |
| Copper | 7.5 | 11.1 | **2.90 J** | **8.3** | **3.5** | **2.4** |
| Iron | 300 | NP | **93** | **1500** | **610** | **590** |
| Lead | 3.1 | 77.7 | < 10.0 U | **22** | < 30.0 U | < 30.0 U |
| Magnesium | NP | NP | **13600** | **3800** | **3400** | **3600** |
| Manganese | NP | NP | **100** | **180** | **120** | **120** |
| Nickel | 43.7 | 393.8 | **2.20 J** | **2.5** | < 1.30 U | < 1.30 U |
| Potassium | NP | NP | **2800 B** | **1600** | **1400** | **1500** |
| Sodium | NP | NP | **148000** | **30900** | **29500** | **31100** |
| Vanadium | 14 | NP | < 5.00 U | **2.5** | < 1.50 U | < 1.50 U |
| Zinc | 69.4 | 98.5 | **9.00 J** | **18** | **5.4** | **4.3** |
| **PFAS Compounds (ng/L)** | | | | | | |
| N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA) | NP | NP | **0.740 J** | < 0.61 U | < 0.62 U | < 0.62 U |
| Perfluorobutanesulfonic acid (PFBS) | NP | NP | **8.20 B** | **2.8** | **2.8** | **2.7** |
| Perfluorobutanoic acid (PFBA) | NP | NP | **7.9** | **4.6** | **4.7** | **4.8** |
| Perfluorodecanoic acid (PFDA) | NP | NP | **0.260 J** | < 0.25 U | **0.33** | **0.29** |
| Perfluoroheptanesulfonic acid (PFHpS) | NP | NP | **0.260 J** | < 0.19 U | < 0.19 U | < 0.2 U |
| Perfluoroheptanoic acid (PFHpA) | NP | NP | **5.2** | **3.3** | **3.2** | **3.2** |
| Perfluorohexanesulfonic acid (PFHxS) | NP | NP | **2.8** | **1.5** | **1.5** | **1.4** |
| Perfluorohexanoic acid (PFHxA) | NP | NP | **5.9** | **4.8** | **4.7** | **4.5** |
| Perfluorononanoic acid (PFNA) | NP | NP | **1.10 J** | **0.94** | **1.2** | **0.87** |
| Perfluorooctanesulfonic acid (PFOS) | 160,000 | 710,000 | **17** | **4** | **5.9** | **3.8** |
| Perfluorooctanoic acid (PFOA) | NP | NP | **13** | **4.8** | **4.8** | **4.8** |
| Perfluoropentanoic acid (PFPeA) | NP | NP | **7.6** | **5.7** | **5.6** | **5.5** |
| Perfluorooctane Sulfonamide (PFOSA) | NP | NP | **0.540 J** | < 0.47 U | < 0.48 U | < 0.48 U |

**Notes:**
ug/L = micrograms per liter
ng/L = nanograms per liter
J = value is estimated
U = not detected above laboratory reporting limits
NA = Not Analyzed
NP = not promulgated/ no applicable cleanup criteria
NYSDEC = New York State Department of Environmental Conservation

**Legend**

| | |
|---|---|
| <1 | Parameter not detected above the laboratory reporting limit |
| **1** | Parameter reported above the laboratory reporting limit but below the applicable regulatory standard/criterion |
| **1** | Parameter reported at a concentrations greater than NYSDEC Class B Surface water A(C) Fish Propagation |
| **1** | Parameter reported at a concentrations greater than NYDEC Class B Surface water A(A) Fish Survival |

Surface water standards for Chromium, Copper, Lead, Nickel and Zinc were calculated in accordance with the formulas provided in the TOGs 1.1.1 document

Table 5
Sediment Laboratory Analysis (Detections Only)
VOCs, SVOCs, Metals
Site #336077
251 Walsh Road, New Windsor, New York

| ID: | TOGS 5.1.9 | TOGS 5.1.9 | TOGS 5.1.9 | SW-1A | SW-2A | SW-3A |
|---|---|---|---|---|---|---|
| Date Collected: | Guidance Class A | Guidance Class B | Guidance Class C | 10/28/2021 | 10/28/2021 | 10/28/2021 |
| Lab Report No.: | Sediment | Sediment | Sediment | 4801918391 | 4801918391 | 4801918391 |
| **Volatile Organic Compounds (VOCs) (µg/kg)** | | | | | | |
| **No Detections** | | | | | | |
| **Semi-Volatile Organic Compounds (SVOCs) (µg/kg)** | | | | | | |
| 2-Methylnaphthalene | NP | NP | NP | < 39 U | < 39 U | **3,000** |
| Acenaphthene | NP | NP | NP | < 28 U | < 28 U | **2,100** |
| Acenaphthylene | NP | NP | NP | < 25 U | < 25 U | **9,400** |
| Anthracene | NP | NP | NP | < 48 U | < 48 U | **8,600** |
| Benzo(a)anthracene | NP | NP | NP | < 19 U | **730** | **23,000** |
| Benzo(a)pyrene | NP | NP | NP | < 28 U | **660** | **17,000** |
| Benzo(b)fluoranthene | NP | NP | NP | < 31 U | **880** | **16,000** |
| Benzo(ghi)perylene | NP | NP | NP | < 20 U | **580** | **13,000** |
| Benzo(k)fluoranthene | NP | NP | NP | < 25 U | **420** | **4,900** |
| Chrysene | NP | NP | NP | < 43 U | **800** | **25,000** |
| Dibenzo(a,H)anthracene | NP | NP | NP | < 43 U | < 43 U | **3,300** |
| Fluoranthene | NP | NP | NP | < 20 U | **1,800** | **32,000** |
| Fluorene | NP | NP | NP | < 23 U | < 23 U | **7,400** |
| Indeno(1,2,3-cd)pyrene | NP | NP | NP | < 24 U | **480** | **8,300** |
| Perylene | NP | NP | NP | < 29 U | < 29 U | **11,000** |
| Phenanthrene | NP | NP | NP | < 28 U | **1,200** | **44,000** |
| Pyrene | NP | NP | NP | < 23 U | **1,500** | **53,000** |
| Total PAHs | < 4,000 | 4,000 - 35,000 | > 35,000 | N/A | **9,050** | **270,000** |
| **Metals (mg/kg)** | | | | | | |
| Aluminum, Total | NP | NP | NP | **14,700** | **10,800** | **12,000** |
| Antimony | NP | NP | NP | < 0.45 U | < 0.45 U | **1.3** |
| Arsenic | < 10 | 10 - 33 | > 33 | **4.4** | **4.9** | **6.4** |
| Barium | NP | NP | NP | **76.6** | **73.6** | **77.6** |
| Beryllium | NP | NP | NP | **0.71** | **0.49** | **0.62** |
| Cadmium | < 1 | 1 - 5 | > 5 | **0.18** | **0.21** | **0.39** |
| Calcium | NP | NP | NP | **19,300** | **3,110** | **14,500** |
| Chromium, Total | < 43 | 43 - 110 | > 110 | **17** | **14.9** | **16.9** |
| Cobalt | NP | NP | NP | **10.6** | **6.9** | **9** |
| Copper | < 32 | 32 - 150 | > 150 | **22.9** | **53.1** | **49.1** |
| Iron | NP | NP | NP | **26,400** | **26,200** | **23,100** |
| Lead | < 36 | 36 - 130 | > 130 | **12.7** | **97.3** | **127** |
| Magnesium | NP | NP | NP | **8,220** | **4,950** | **8,810** |
| Manganese | NP | NP | NP | **647** | **273** | **429** |
| Mercury | < 0.2 | 0.2 - 1 | > 1 | **0.021** | **0.13** | **0.26** |
| Nickel | < 23 | 23 - 49 | > 49 | **26** | **23** | **24.7** |
| Potassium, Total | NP | NP | NP | **2,820** | **1,560** | **2,170** |
| Silver | < 1 | 1 - 2.2 | > 2.2 | < 0.22 U | **0.43** | **0.47** |
| Sodium, Total | NP | NP | NP | **101** | **160** | **146** |
| Vanadium | NP | NP | NP | **20.5** | **36.5** | **32.6** |
| Zinc | < 120 | 120 - 460 | > 460 | **59.1** | **122** | **127** |

**Legend**

| | |
|---|---|
| < 1 | Parameter not detected above the method detection limit |
| **1** | Parameter reported above the laboratory method detection limit but below the applicable regulatory standard/criterion |
| **1** | Parameter reported at a concentration greater than TOGS 5.1.9 Guidance Class A sediments |
| **1** | Parameter reported at a concentration greater than TOGS 5.1.9 Guidance Class B sediments |
| **1** | Parameter reported at a concentration greater than TOGS 5.1.9 Guidance Class C sediments |

**Notes:**

µg/kg = micrograms per kilogram

mg/kg - milligrams per kilogram

U = not detected above laboratory reporting limits

NP = Not Promulgated

TOGS 5.1.9 = Technical & Operational Guidance Series 5.1.9 Management of Sediment and Dredged Materials Guidance

Class A = low risk to aquatic life

Class B = slightly to moderately contaminated and additional testing is required to evaluate the potential risks to aquatic life

Class C = highly contaminated and likely to pose a risk to aquatic life

**Table 6**
**Soil Vapor Laboratory Analytical Results (Detections Only)**
**VOCs**
**251 Walsh Road Site**
**Site #336077**
**251 Walsh Avenue, New Windsor, NY**

| Sample Date | Location | Compound | Sub-Slab Air Conentrations (μg/m³) | Indoor Air Concentration (μg/m³) | Outdoor Air Concentration (μg/m³) | NYSDOH 2017 Matrix Recommendations | Final Action Recommended |
|---|---|---|---|---|---|---|---|
| 10/21/2021 | SV-2/IA-2 | 1,1,1-Trichloroethane | < 10 | < 1.3 | < 0.2 | No action required | No further action is required. |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | **89** | < 0.38 | < 0.061 | | |
| | | 1,1-Dichloroethane | < 1.4 | < 0.18 | < 0.028 | No action required | |
| | | 1,2,4-Trimethylbenzene | < 4.9 | **6.2** | < 0.098 | | |
| | | 1,3,5-Trimethylbenzene | < 5.4 | < 0.68 | < 0.11 | | |
| | | 1,3-Dichlorobenzene | < 4.8 | < 0.6 | < 0.096 | | |
| | | 2-Butanone (MEK) | < 11 | **7.1** | **1.2** | | |
| | | Benzene | < 1.3 | **11** | **0.69** | | |
| | | Carbon tetrachloride | < 2.2 | < 0.28 | **0.56** | No action required | |
| | | Chloromethane | < 6.8 | < 0.85 | **0.91** | | |
| | | cis-1,2-Dichloroethylene | < 2 | < 0.25 | < 0.04 | | |
| | | Cyclohexane | < 4 | **8.7** | < 0.079 | | |
| | | Dichlorodifluoromethane | < 3.5 | < 0.43 | **1.8** | | |
| | | Ethanol | **8,700** | **190** | **12** | | |
| | | Ethylbenzene | < 2.8 | **6.4** | < 0.056 | | |
| | | m/p-Xylenes | < 6.3 | **21** | **0.95** | | |
| | | Methylene chloride | < 68 | < 8.5 | **3.9** | No action required | |
| | | o-Xylene | < 3.3 | **6.7** | **0.44** | | |
| | | Styrene | < 5.1 | < 0.64 | < 0.1 | | |
| | | t-Butyl alcohol | < 5 | < 0.63 | < 0.1 | | |
| | | Tetrachloroethylene | < 2.4 | < 0.3 | < 0.047 | | |
| | | Toluene | **23** | **53** | **1.7** | | |
| | | Trichloroethylene | < 3.5 | < 0.44 | < 0.07 | | |
| | | Trichlorofluoromethane | < 3.1 | < 0.39 | **1.2** | | |
| 10/21/2021 | SV-7/IA-7 | 1,1,1-Trichloroethane | < 9.2 | < 0.2 | < 0.2 | No action required | No further action is required. |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | < 2.8 | < 0.061 | < 0.061 | | |
| | | 1,1-Dichloroethane | < 1.3 | < 0.028 | < 0.028 | No action required | |
| | | 1,2,4-Trimethylbenzene | < 4.5 | **3.3** | < 0.098 | | |
| | | 1,3,5-Trimethylbenzene | < 4.9 | **1** | < 0.11 | | |
| | | 1,3-Dichlorobenzene | < 4.4 | < 0.096 | < 0.096 | | |
| | | 2-Butanone (MEK) | < 9.8 | **5.6** | **1.2** | | |
| | | Benzene | < 1.2 | **5** | **0.69** | | |
| | | Carbon tetrachloride | < 2 | **0.44** | **0.56** | No action required | |
| | | Chloromethane | < 6.2 | **1.2** | **0.91** | | |
| | | cis-1,2-Dichloroethylene | < 1.8 | < 0.04 | < 0.04 | | |
| | | Cyclohexane | < 3.6 | **5.5** | < 0.079 | | |
| | | Dichlorodifluoromethane | < 3.1 | **1** | **1.8** | | |
| | | Ethanol | **8,500** | **76** | **12** | | |
| | | Ethylbenzene | < 2.6 | **2.9** | < 0.056 | | |
| | | m/p-Xylenes | < 5.7 | **9.6** | **0.95** | | |
| | | Methylene chloride | < 62 | **1.5** | **3.9** | No action required | |
| | | o-Xylene | < 3 | **3.3** | **0.44** | | |
| | | Styrene | < 4.6 | **1.4** | < 0.1 | | |
| | | t-Butyl alcohol | < 4.5 | < 0.1 | < 0.1 | | |
| | | Tetrachloroethylene | < 2.2 | **1.9** | < 0.047 | | |
| | | Toluene | < 13 | **32** | **1.7** | | |
| | | Trichloroethylene | < 3.2 | **0.96** | < 0.07 | | |
| | | Trichlorofluoromethane | < 2.8 | **1.1** | **1.2** | | |
| 10/21/2021 | SV-8/IA-8 | 1,1,1-Trichloroethane | < 16 | < 0.2 | < 0.2 | No action required | No further action is required. |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | < 5 | < 0.061 | < 0.061 | | |
| | | 1,1-Dichloroethane | < 2.3 | < 0.028 | < 0.028 | No action required | |
| | | 1,2,4-Trimethylbenzene | < 8 | **0.75** | < 0.098 | | |
| | | 1,3,5-Trimethylbenzene | < 8.8 | **0.45** | < 0.11 | | |
| | | 1,3-Dichlorobenzene | < 7.8 | < 0.096 | < 0.096 | | |
| | | 2-Butanone (MEK) | < 18 | **2.1** | **1.2** | | |
| | | Benzene | < 2.1 | **1.2** | **0.69** | | |
| | | Carbon tetrachloride | < 3.6 | **0.39** | **0.56** | No action required | |
| | | Chloromethane | < 11 | **1.2** | **0.91** | | |
| | | cis-1,2-Dichloroethylene | < 3.2 | < 0.04 | < 0.04 | | |
| | | Cyclohexane | < 6.5 | **1.1** | < 0.079 | | |
| | | Dichlorodifluoromethane | < 5.6 | **1.1** | **1.8** | | |
| | | Ethanol | **7,100** | **21** | **12** | | |
| | | Ethylbenzene | < 4.6 | **0.65** | < 0.056 | | |
| | | m/p-Xylenes | < 10 | **2.1** | **0.95** | | |
| | | Methylene chloride | < 110 | **1.5** | **3.9** | No action required | |
| | | o-Xylene | < 5.3 | **0.83** | **0.44** | | |
| | | Styrene | < 8.3 | < 0.1 | < 0.1 | | |
| | | t-Butyl alcohol | < 8.2 | < 0.1 | < 0.1 | | |
| | | Tetrachloroethylene | < 3.9 | **0.79** | < 0.047 | | |
| | | Toluene | < 24 | **5.4** | **1.7** | | |
| | | Trichloroethylene | < 5.7 | **0.24** | < 0.07 | | |
| | | Trichlorofluoromethane | < 5 | **1.1** | **1.2** | | |

**Table 6**
**Soil Vapor Laboratory Analytical Results (Detections Only)**
**VOCs**
**251 Walsh Road Site**
**Site #336077**
**251 Walsh Avenue, New Windsor, NY**

| Sample Date | Location | Compound | Sub-Slab Air Conentrations (µg/m$^3$) | Indoor Air Concentration (µg/m$^3$) | Outdoor Air Concentration (µg/m$^3$) | NYSDOH 2017 Matrix Recommendations | Final Action Recommended |
|---|---|---|---|---|---|---|---|
| **10/21/2021** | **SV-9/IA-9** | 1,1,1-Trichloroethane | < 5 | < 0.2 | < 0.2 | No action required | No further action is required. |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | < 1.5 | < 0.061 | < 0.061 | | |
| | | 1,1-Dichloroethane | < 0.71 | < 0.028 | < 0.028 | No action required | |
| | | 1,2,4-Trimethylbenzene | < 2.5 | **0.55** | < 0.098 | | |
| | | 1,3,5-Trimethylbenzene | < 2.7 | **0.42** | < 0.11 | | |
| | | 1,3-Dichlorobenzene | < 2.4 | < 0.096 | < 0.096 | | |
| | | 2-Butanone (MEK) | < 5.4 | **2.1** | **1.2** | | |
| | | Benzene | < 0.64 | **1.1** | **0.69** | | |
| | | Carbon tetrachloride | < 1.1 | **0.43** | **0.56** | No action required | |
| | | Chloromethane | < 3.4 | **1** | **0.91** | | |
| | | cis-1,2-Dichloroethylene | < 0.99 | < 0.04 | < 0.04 | | |
| | | Cyclohexane | < 2 | **1.2** | < 0.079 | | |
| | | Dichlorodifluoromethane | < 1.7 | **1.1** | **1.8** | | |
| | | Ethanol | **11,000** | **22** | **12** | | |
| | | Ethylbenzene | < 1.4 | **0.58** | < 0.056 | | |
| | | m/p-Xylenes | < 3.1 | **1.9** | **0.95** | | |
| | | Methylene chloride | < 34 | **1.8** | **3.9** | No action required | |
| | | o-Xylene | < 1.6 | **0.74** | **0.44** | | |
| | | Styrene | < 2.6 | < 0.1 | < 0.1 | | |
| | | t-Butyl alcohol | **51** | < 0.1 | < 0.1 | | |
| | | Tetrachloroethylene | < 1.2 | **0.75** | < 0.047 | | |
| | | Toluene | < 7.3 | **5.4** | **1.7** | | |
| | | Trichloroethylene | < 1.7 | **0.23** | < 0.07 | | |
| | | Trichlorofluoromethane | **160** | **1.1** | **1.2** | | |
| **10/21/2021** | **SV-10/IA-10** | 1,1,1-Trichloroethane | < 4 | < 0.2 | < 0.2 | No action required | No further action is required. |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | < 1.2 | < 0.061 | < 0.061 | | |
| | | 1,1-Dichloroethane | < 0.57 | < 0.028 | < 0.028 | No action required | |
| | | 1,2,4-Trimethylbenzene | < 2 | **1.4** | < 0.098 | | |
| | | 1,3,5-Trimethylbenzene | < 2.2 | **0.74** | < 0.11 | | |
| | | 1,3-Dichlorobenzene | < 1.9 | < 0.096 | < 0.096 | | |
| | | 2-Butanone (MEK) | < 4.3 | **3.5** | **1.2** | | |
| | | Benzene | < 0.51 | **0.98** | **0.69** | | |
| | | Carbon tetrachloride | < 0.88 | **0.44** | **0.56** | No action required | |
| | | Chloromethane | < 2.7 | **1.1** | **0.91** | | |
| | | cis-1,2-Dichloroethylene | < 0.79 | < 0.04 | < 0.04 | | |
| | | Cyclohexane | < 1.6 | **0.84** | < 0.079 | | |
| | | Dichlorodifluoromethane | < 1.4 | **1.1** | **1.8** | | |
| | | Ethanol | **7,400** | **20** | **12** | | |
| | | Ethylbenzene | < 1.1 | **0.8** | < 0.056 | | |
| | | m/p-Xylenes | < 2.5 | **3** | **0.95** | | |
| | | Methylene chloride | < 27 | **1.5** | **3.9** | No action required | |
| | | o-Xylene | < 1.3 | **1.3** | **0.44** | | |
| | | Styrene | < 2 | **0.64** | < 0.1 | | |
| | | t-Butyl alcohol | **45** | < 0.1 | < 0.1 | | |
| | | Tetrachloroethylene | < 0.95 | **1.7** | < 0.047 | | |
| | | Toluene | < 5.9 | **5** | **1.7** | | |
| | | Trichloroethylene | < 1.4 | **0.39** | < 0.07 | | |
| | | Trichlorofluoromethane | < 1.2 | **1.1** | **1.2** | | |
| **10/21/2021** | **SV-11/IA-11** | 1,1,1-Trichloroethane | < 2 | < 0.2 | < 0.2 | No action required | No further action is required. |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | < 0.61 | < 0.061 | < 0.061 | | |
| | | 1,1-Dichloroethane | < 0.28 | < 0.028 | < 0.028 | No action required | |
| | | 1,2,4-Trimethylbenzene | < 0.98 | **2.2** | < 0.098 | | |
| | | 1,3,5-Trimethylbenzene | < 1.1 | **0.84** | < 0.11 | | |
| | | 1,3-Dichlorobenzene | < 0.96 | < 0.096 | < 0.096 | | |
| | | 2-Butanone (MEK) | **21** | **3.1** | **1.2** | | |
| | | Benzene | < 0.26 | **2.4** | **0.69** | | |
| | | Carbon tetrachloride | < 0.44 | **0.42** | **0.56** | No action required | |
| | | Chloromethane | < 1.4 | **1.1** | **0.91** | | |
| | | cis-1,2-Dichloroethylene | < 0.4 | < 0.04 | < 0.04 | | |
| | | Cyclohexane | < 0.79 | **2.2** | < 0.079 | | |
| | | Dichlorodifluoromethane | < 0.69 | **1.1** | **1.8** | | |
| | | Ethanol | **7,400** | **64** | **12** | | |
| | | Ethylbenzene | < 0.56 | **1.9** | < 0.056 | | |
| | | m/p-Xylenes | **6.4** | **6.6** | **0.95** | | |
| | | Methylene chloride | < 14 | **4.7** | **3.9** | No action required | |
| | | o-Xylene | < 0.65 | **2.5** | **0.44** | | |
| | | Styrene | < 1 | **1.7** | < 0.1 | | |
| | | t-Butyl alcohol | **63** | < 0.1 | < 0.1 | | |
| | | Tetrachloroethylene | < 0.47 | **2** | < 0.047 | | |
| | | Toluene | **8.8** | **12** | **1.7** | | |
| | | Trichloroethylene | < 0.7 | **0.61** | < 0.07 | | |
| | | Trichlorofluoromethane | < 0.62 | **1.1** | **1.2** | | |

**Table 6**
**Soil Vapor Laboratory Analytical Results (Detections Only)**
**VOCs**
**251 Walsh Road Site**
**Site #336077**
**251 Walsh Avenue, New Windsor, NY**

| Sample Date | Location | Compound | Sub-Slab Air Conentrations (µg/m³) | Indoor Air Concentration (µg/m³) | Outdoor Air Concentration (µg/m³) | NYSDOH 2017 Matrix Recommendations | Final Action Recommended |
|---|---|---|---|---|---|---|---|
| **10/21/2021** | **SV-14/IA-14** | 1,1,1-Trichloroethane | < 2 | < 0.2 | < 0.2 | No action required | No further action is required. |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | < 0.61 | < 0.061 | < 0.061 | | |
| | | 1,1-Dichloroethane | < 0.28 | < 0.028 | < 0.028 | No action required | |
| | | 1,2,4-Trimethylbenzene | < 0.98 | **1.2** | < 0.098 | | |
| | | 1,3,5-Trimethylbenzene | < 1.1 | **0.54** | < 0.11 | | |
| | | 1,3-Dichlorobenzene | **5.2** | < 0.096 | < 0.096 | | |
| | | 2-Butanone (MEK) | **19** | **1.8** | **1.2** | | |
| | | Benzene | < 0.26 | **0.72** | **0.69** | | |
| | | Carbon tetrachloride | < 0.44 | **0.56** | **0.56** | No action required | |
| | | Chloromethane | < 1.4 | **0.85** | **0.91** | | |
| | | cis-1,2-Dichloroethylene | < 0.4 | < 0.04 | < 0.04 | | |
| | | Cyclohexane | < 0.79 | < 0.079 | < 0.079 | | |
| | | Dichlorodifluoromethane | < 0.69 | **1.7** | **1.8** | | |
| | | Ethanol | **7,300** | **15** | **12** | | |
| | | Ethylbenzene | < 0.56 | **0.52** | < 0.056 | | |
| | | m/p-Xylenes | < 1.3 | **2.2** | **0.95** | | |
| | | Methylene chloride | < 14 | **1.8** | **3.9** | No action required | |
| | | o-Xylene | < 0.65 | **1** | **0.44** | | |
| | | Styrene | < 1 | < 0.1 | < 0.1 | | |
| | | t-Butyl alcohol | **59** | < 0.1 | < 0.1 | | |
| | | Tetrachloroethylene | < 0.47 | **0.96** | < 0.047 | | |
| | | Toluene | < 2.9 | **2.9** | **1.7** | | |
| | | Trichloroethylene | < 0.7 | **0.35** | < 0.07 | | |
| | | Trichlorofluoromethane | < 0.62 | **1.2** | **1.2** | | |
| **10/21/2021** | **SV-19/OA-19** | 1,1,1-Trichloroethane | < 2 | < 0.2 | < 0.2 | No action required | No further action is required. |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | < 0.61 | < 0.061 | < 0.061 | | |
| | | 1,1-Dichloroethane | < 0.28 | < 0.028 | < 0.028 | No action required | |
| | | 1,2,4-Trimethylbenzene | < 0.98 | < 0.098 | < 0.098 | | |
| | | 1,3,5-Trimethylbenzene | < 1.1 | < 0.11 | < 0.11 | | |
| | | 1,3-Dichlorobenzene | **15** | < 0.096 | < 0.096 | | |
| | | 2-Butanone (MEK) | **45** | **2.5** | **1.2** | | |
| | | Benzene | < 0.26 | **0.66** | **0.69** | | |
| | | Carbon tetrachloride | < 0.44 | **0.52** | **0.56** | No action required | |
| | | Chloromethane | **15** | **1.1** | **0.91** | | |
| | | cis-1,2-Dichloroethylene | < 0.4 | < 0.04 | < 0.04 | | |
| | | Cyclohexane | < 0.79 | < 0.079 | < 0.079 | | |
| | | Dichlorodifluoromethane | < 0.69 | **1.7** | **1.8** | | |
| | | Ethanol | **7,600** | **12** | **12** | | |
| | | Ethylbenzene | < 0.56 | < 0.056 | < 0.056 | | |
| | | m/p-Xylenes | < 1.3 | **0.93** | **0.95** | | |
| | | Methylene chloride | < 14 | **12** | **3.9** | No action required | |
| | | o-Xylene | < 0.65 | **0.37** | **0.44** | | |
| | | Styrene | < 1 | < 0.1 | < 0.1 | | |
| | | t-Butyl alcohol | **110** | < 0.1 | < 0.1 | | |
| | | Tetrachloroethylene | < 0.47 | < 0.047 | < 0.047 | | |
| | | Toluene | < 2.9 | **1.6** | **1.7** | | |
| | | Trichloroethylene | < 0.7 | < 0.07 | < 0.07 | | |
| | | Trichlorofluoromethane | < 0.62 | **1.2** | **1.2** | | |
| **10/21/2021** | **SV-20/OA-20** | 1,1,1-Trichloroethane | < 10 | < 0.2 | < 0.2 | No action required | No further action is required. |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | **510** | < 0.061 | < 0.061 | | |
| | | 1,1-Dichloroethane | **60** | < 0.028 | < 0.028 | No action required | |
| | | 1,2,4-Trimethylbenzene | < 4.9 | < 0.098 | < 0.098 | | |
| | | 1,3,5-Trimethylbenzene | < 5.4 | < 0.11 | < 0.11 | | |
| | | 1,3-Dichlorobenzene | < 4.8 | < 0.096 | < 0.096 | | |
| | | 2-Butanone (MEK) | < 11 | **1.2** | **1.2** | | |
| | | Benzene | < 1.3 | **0.44** | **0.69** | | |
| | | Carbon tetrachloride | < 2.2 | **0.48** | **0.56** | No action required | |
| | | Chloromethane | < 6.8 | **0.98** | **0.91** | | |
| | | cis-1,2-Dichloroethylene | **15** | < 0.04 | < 0.04 | | |
| | | Cyclohexane | < 4 | < 0.079 | < 0.079 | | |
| | | Dichlorodifluoromethane | < 3.5 | **1.4** | **1.8** | | |
| | | Ethanol | **6,300** | **8.6** | **12** | | |
| | | Ethylbenzene | < 2.8 | < 0.056 | < 0.056 | | |
| | | m/p-Xylenes | < 6.3 | **0.62** | **0.95** | | |
| | | Methylene chloride | < 68 | **3.2** | **3.9** | No action required | |
| | | o-Xylene | < 3.3 | < 0.065 | **0.44** | | |
| | | Styrene | < 5.1 | < 0.1 | < 0.1 | | |
| | | t-Butyl alcohol | **55** | < 0.1 | < 0.1 | | |
| | | Tetrachloroethylene | < 2.4 | **0.55** | < 0.047 | | |
| | | Toluene | < 15 | **1.1** | **1.7** | | |
| | | Trichloroethylene | < 3.5 | < 0.07 | < 0.07 | | |
| | | Trichlorofluoromethane | < 3.1 | **1.2** | **1.2** | | |

**Table 6**
**Soil Vapor Laboratory Analytical Results (Detections Only)**
**VOCs**
**251 Walsh Road Site**
**Site #336077**
**251 Walsh Avenue, New Windsor, NY**

| Sample Date | Location | Compound | Sub-Slab Air Conentrations (µg/m³) | Indoor Air Concentration (µg/m³) | Outdoor Air Concentration (µg/m³) | NYSDOH 2017 Matrix Recommendations | Final Action Recommended |
|---|---|---|---|---|---|---|---|
| 10/21/2021 | SV-21/IA-21 | 1,1,1-Trichloroethane | < 9.2 | < 0.2 | < 0.2 | No action required | No further action is required. |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | < 2.8 | < 0.061 | < 0.061 | | |
| | | 1,1-Dichloroethane | < 1.3 | < 0.028 | < 0.028 | No action required | |
| | | 1,2,4-Trimethylbenzene | < 4.5 | **2.7** | < 0.098 | | |
| | | 1,3,5-Trimethylbenzene | < 4.9 | **0.97** | < 0.11 | | |
| | | 1,3-Dichlorobenzene | < 4.4 | < 0.096 | < 0.096 | | |
| | | 2-Butanone (MEK) | < 9.8 | **4.5** | **1.2** | | |
| | | Benzene | < 1.2 | **2** | **0.69** | | |
| | | Carbon tetrachloride | < 2 | **0.54** | **0.56** | No action required | |
| | | Chloromethane | < 6.2 | **0.93** | **0.91** | | |
| | | cis-1,2-Dichloroethylene | < 1.8 | < 0.04 | < 0.04 | | |
| | | Cyclohexane | < 3.6 | **1.7** | < 0.079 | | |
| | | Dichlorodifluoromethane | < 3.1 | **1.6** | **1.8** | | |
| | | Ethanol | **5,700** | **49** | **12** | | |
| | | Ethylbenzene | < 2.6 | **2.3** | < 0.056 | | |
| | | m/p-Xylenes | < 5.7 | **8.5** | **0.95** | | |
| | | Methylene chloride | < 62 | **29** | **3.9** | No action required | |
| | | o-Xylene | < 3 | **3** | **0.44** | | |
| | | Styrene | < 4.6 | **3.6** | < 0.1 | | |
| | | t-Butyl alcohol | < 4.5 | < 0.1 | < 0.1 | | |
| | | Tetrachloroethylene | < 2.2 | **2.6** | < 0.047 | | |
| | | Toluene | < 13 | **11** | **1.7** | | |
| | | Trichloroethylene | < 3.2 | **0.77** | < 0.07 | | |
| | | Trichlorofluoromethane | < 2.8 | **1.5** | **1.2** | | |
| 10/21/2021 | SV-18 | 1,1,1-Trichloroethane | **21** | | < 0.2 | No action required | No further action is required. |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | **210** | | < 0.061 | | |
| | | 1,1-Dichloroethane | < 0.28 | | < 0.028 | No action required | |
| | | 1,2,4-Trimethylbenzene | < 0.98 | | < 0.098 | | |
| | | 1,3,5-Trimethylbenzene | < 1.1 | | < 0.11 | | |
| | | 1,3-Dichlorobenzene | **8.6** | | < 0.096 | | |
| | | 2-Butanone (MEK) | **24** | | **1.2** | | |
| | | Benzene | < 0.26 | | **0.69** | | |
| | | Carbon tetrachloride | < 0.44 | | **0.56** | No action required | |
| | | Chloromethane | < 1.4 | | **0.91** | | |
| | | cis-1,2-Dichloroethylene | **1.9** | | < 0.04 | | |
| | | Cyclohexane | < 0.79 | | < 0.079 | | |
| | | Dichlorodifluoromethane | < 0.69 | | **1.8** | | |
| | | Ethanol | **6,600** | | **12** | | |
| | | Ethylbenzene | < 0.56 | | < 0.056 | | |
| | | m/p-Xylenes | < 1.3 | | **0.95** | | |
| | | Methylene chloride | < 14 | | **3.9** | No action required | |
| | | o-Xylene | < 0.65 | | **0.44** | | |
| | | Styrene | < 1 | | < 0.1 | | |
| | | t-Butyl alcohol | **64** | | < 0.1 | | |
| | | Tetrachloroethylene | < 0.47 | | < 0.047 | | |
| | | Toluene | < 2.9 | | **1.7** | | |
| | | Trichloroethylene | **4.4** | | < 0.07 | | |
| | | Trichlorofluoromethane | < 0.62 | | **1.2** | | |
| 10/21/2021 | SV-22 | 1,1,1-Trichloroethane | < 2 | | < 0.2 | No action required | No further action is required. |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | < 0.61 | | < 0.061 | | |
| | | 1,1-Dichloroethane | < 0.28 | | < 0.028 | No action required | |
| | | 1,2,4-Trimethylbenzene | < 0.98 | | < 0.098 | | |
| | | 1,3,5-Trimethylbenzene | < 1.1 | | < 0.11 | | |
| | | 1,3-Dichlorobenzene | < 0.96 | | < 0.096 | | |
| | | 2-Butanone (MEK) | **19** | | **1.2** | | |
| | | Benzene | < 0.26 | | **0.69** | | |
| | | Carbon tetrachloride | < 0.44 | | **0.56** | No action required | |
| | | Chloromethane | < 1.4 | | **0.91** | | |
| | | cis-1,2-Dichloroethylene | < 0.4 | | < 0.04 | | |
| | | Cyclohexane | < 0.79 | | < 0.079 | | |
| | | Dichlorodifluoromethane | < 0.69 | | **1.8** | | |
| | | Ethanol | **8,200** | | **12** | | |
| | | Ethylbenzene | < 0.56 | | < 0.056 | | |
| | | m/p-Xylenes | **5.3** | | **0.95** | | |
| | | Methylene chloride | < 14 | | **3.9** | No action required | |
| | | o-Xylene | < 0.65 | | **0.44** | | |
| | | Styrene | < 1 | | < 0.1 | | |
| | | t-Butyl alcohol | **60** | | < 0.1 | | |
| | | Tetrachloroethylene | < 0.47 | | < 0.047 | | |
| | | Toluene | **6.8** | | **1.7** | | |
| | | Trichloroethylene | < 0.7 | | < 0.07 | | |
| | | Trichlorofluoromethane | < 0.62 | | **1.2** | | |

**Notes:**
All concentrations in micrograms per cubic meter (µg/m³)
<"Reporting Detection Limit" = Analyte was not detected above the reporting detection limit
Action levels based on NYSDOH Soil Vapor/Indoor Air Matrices (May 2017)

**Table 6**
**Soil Vapor Laboratory Analytical Results (Detections Only)**
**VOCs**
**251 WALSH ROAD Site**
**Site #336077**
**251 WALSH ROAD, NEW WINDSOR, NY**

| Sample Date | Location | Compound | Sub-Slab Air Conentrations (µg/m³) | Indoor Air Concentration (µg/m³) | Outdoor Air Concentration (µg/m³) | NYSDOH 2017 Matrix Recommendations | Final Action Recommended |
|---|---|---|---|---|---|---|---|
| 3/4/2022 | SV-2/IA-2 | 1,1,1-Trichloroethane | 19 | < 0.15 | < 0.15 | No further action required | No further action required |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | 97 | 0.56 | 0.49 | | |
| | | 1,1-Dichloroethylene | < 0.3 | < 0.11 | < 0.12 | No further action required | |
| | | 1,2,4-Trimethylbenzene | 1.2 | 1.4 | 0.4 | | |
| | | 1,2-Dichloropropane | < 0.25 | < 0.087 | < 0.087 | | |
| | | 1,3,5-Trimethylbenzene | 0.35 | 0.37 | 0.12 | | |
| | | 1,3-Dichlorobenzene | < 0.33 | < 0.12 | < 0.12 | | |
| | | 2-Butanone (MEK) | 4.3 | 1.4 | < 1.1 | | |
| | | 2-Propanol (Isopropyl alcohol) | 240 | 12 | 12 | | |
| | | Acetone | 42 | < 2 | 4.5 | | |
| | | Benzene | 3.1 | 4.5 | 0.55 | | |
| | | Carbon disulfide | < 0.29 | < 0.1 | < 0.1 | | |
| | | Carbon tetrachloride | 1.2 | 0.4 | 0.44 | No further action required | |
| | | Chloroform | < 0.46 | < 0.16 | < 0.16 | | |
| | | Chloromethane | 0.56 | 1.2 | 1.2 | | |
| | | Cyclohexane | 1.6 | 2.4 | < 0.079 | | |
| | | Dichlorodifluoromethane | 2.3 | 2.2 | 2.2 | | |
| | | Ethanol | 130 | 65 | 4.9 | | |
| | | Ethyl acetate | < 1.8 | < 0.64 | < 0.64 | | |
| | | Ethylbenzene | 1.4 | 1.5 | 0.1 | | |
| | | Methyl isobutyl ketone (MIBK) | < 0.21 | < 0.073 | < 0.073 | | |
| | | Methylene chloride | < 1.6 | < 0.56 | < 0.56 | No further action required | |
| | | Naphthalene | < 0.33 | < 0.12 | < 0.12 | | |
| | | o-Xylene | 1.6 | 1.9 | 0.22 | | |
| | | Styrene | 2.7 | 3.1 | < 0.078 | | |
| | | Tetrachloroethylene | 1.3 | 0.73 | 0.62 | No further action required | |
| | | Tetrahydrofuran | < 0.48 | < 0.17 | < 0.17 | | |
| | | Toluene | 11 | 11 | 0.54 | | |
| | | Trichloroethylene | 0.87 | 0.38 | < 0.13 | No further action required | |
| | | Trichlorofluoromethane | 12 | 1.2 | 1.1 | | |
| 3/4/2022 | SV-4 COMM/ IA-COMM (Sample from 247 Walsh Ave.) | 1,1,1-Trichloroethane | < 0.43 | < 0.15 | < 0.15 | No further action required | No further action required |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | < 0.85 | 0.54 | 0.49 | | |
| | | 1,1-Dichloroethylene | < 0.3 | < 0.11 | < 0.12 | No further action required | |
| | | 1,2,4-Trimethylbenzene | 1.4 | 2.1 | 0.4 | | |
| | | 1,2-Dichloropropane | < 0.25 | < 0.087 | < 0.087 | | |
| | | 1,3,5-Trimethylbenzene | 0.52 | 0.8 | 0.12 | | |
| | | 1,3-Dichlorobenzene | 3.5 | < 0.12 | < 0.12 | | |
| | | 2-Butanone (MEK) | 5.1 | 1.8 | < 1.1 | | |
| | | 2-Propanol (Isopropyl alcohol) | 120 | 11 | 12 | | |
| | | Acetone | 29 | 17 | 4.5 | | |
| | | Benzene | 1.9 | 0.76 | 0.55 | | |
| | | Carbon disulfide | 0.56 | 0.15 | < 0.1 | | |
| | | Carbon tetrachloride | < 0.5 | 0.5 | 0.44 | No further action required | |
| | | Chloroform | < 0.46 | < 0.16 | < 0.16 | | |
| | | Chloromethane | 1.3 | 1.1 | 1.2 | | |
| | | Cyclohexane | < 0.23 | < 0.079 | < 0.079 | | |
| | | Dichlorodifluoromethane | 2.5 | 3 | 2.2 | | |
| | | Ethanol | 210 | 52 | 4.9 | | |
| | | Ethyl acetate | < 1.8 | < 0.64 | < 0.64 | | |
| | | Ethylbenzene | 0.87 | 0.94 | 0.1 | | |
| | | Methyl isobutyl ketone (MIBK) | < 0.21 | < 0.073 | < 0.073 | | |
| | | Methylene chloride | < 1.6 | < 0.56 | < 0.56 | No further action required | |
| | | Naphthalene | < 0.33 | < 0.12 | < 0.12 | | |
| | | o-Xylene | 0.83 | 0.82 | 0.22 | | |
| | | Styrene | < 0.22 | < 0.078 | < 0.078 | | |
| | | Tetrachloroethylene | 1.5 | 0.39 | 0.62 | No further action required | |
| | | Tetrahydrofuran | 2.6 | < 0.17 | < 0.17 | | |
| | | Toluene | 1.8 | 1.6 | 0.54 | | |
| | | Trichloroethylene | < 0.36 | < 0.13 | < 0.13 | No further action required | |
| | | Trichlorofluoromethane | 1.1 | 1.2 | 1.1 | | |
| 3/4/2022 | SV-7/IA-7 | 1,1,1-Trichloroethane | 10 | < 0.15 | < 0.15 | No further action required | Identify Source(s) and Resample or Mitigate |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | 8.6 | 0.57 | 0.49 | | |
| | | 1,1-Dichloroethylene | 2 | < 0.11 | < 0.12 | No further action required | |
| | | 1,2,4-Trimethylbenzene | 1.1 | 1.3 | 0.4 | | |
| | | 1,2-Dichloropropane | < 0.25 | < 0.087 | < 0.087 | | |
| | | 1,3,5-Trimethylbenzene | 0.33 | 0.37 | 0.12 | | |
| | | 1,3-Dichlorobenzene | < 0.33 | < 0.12 | < 0.12 | | |
| | | 2-Butanone (MEK) | 5.9 | 1.2 | < 1.1 | | |
| | | 2-Propanol (Isopropyl alcohol) | 240 | 30 | 12 | | |
| | | Acetone | 42 | 33 | 4.5 | | |
| | | Benzene | 2.7 | 2.9 | 0.55 | | |
| | | Carbon disulfide | < 0.29 | < 0.1 | < 0.1 | | |
| | | Carbon tetrachloride | 5.9 | 0.46 | 0.44 | No further action required | |
| | | Chloroform | 3.1 | < 0.16 | < 0.16 | | |
| | | Chloromethane | 0.35 | 1.2 | 1.2 | | |
| | | Cyclohexane | 1.3 | 1.6 | < 0.079 | | |
| | | Dichlorodifluoromethane | 2.3 | 2.2 | 2.2 | | |
| | | Ethanol | 130 | 47 | 4.9 | | |
| | | Ethyl acetate | < 1.8 | < 0.64 | < 0.64 | | |
| | | Ethylbenzene | 1.2 | 1.2 | 0.1 | | |
| | | Methyl isobutyl ketone (MIBK) | < 0.21 | < 0.073 | < 0.073 | | |
| | | Methylene chloride | < 1.6 | < 0.56 | < 0.56 | No further action required | |
| | | Naphthalene | < 0.33 | < 0.12 | < 0.12 | | |
| | | o-Xylene | 1.5 | 1.4 | 0.22 | | |
| | | Styrene | 1.8 | 1.9 | < 0.078 | | |
| | | Tetrachloroethylene | 2.1 | 28 | 0.62 | Identify Source(s) and Resample of Mitigate | |
| | | Tetrahydrofuran | < 0.48 | < 0.17 | < 0.17 | | |
| | | Toluene | 11 | 9.3 | 0.54 | | |
| | | Trichloroethylene | 1.8 | 0.91 | < 0.13 | No further action required | |
| | | Trichlorofluoromethane | 1.5 | 1.2 | 1.1 | | |

**Legend**

| | |
|---|---|
| < 1 | Parameter not detected above the method detection limit |
| **1** | Parameter reported above the laboratory method detection limit |
| **Contaminent require specific action according to the NYSDOH May 2017 Soil Vapor/ Indoor Air Matrix** | |
| **All concentrations in micrograms per cubic meter (µg/m³)** | |

**Table 6**
**Soil Vapor Laboratory Analytical Results (Detections Only)**
**VOCs**
**251 WALSH ROAD Site**
**Site #336077**
**251 WALSH ROAD, NEW WINDSOR, NY**

| Sample Date | Location | Compound | Sub-Slab Air Conentrations (µg/m³) | Indoor Air Concentration (µg/m³) | Outdoor Air Concentration (µg/m³) | NYSDOH 2017 Matrix Recommendations | Final Action Recommended |
|---|---|---|---|---|---|---|---|
| 3/4/2022 | SV-7 (Duplicate)/ IA-7 | 1,1,1-Trichloroethane | **10** | < 0.15 | < 0.15 | No further action required | Identify Source(s) and Resample or Mitigate |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | **8.6** | **0.57** | **0.49** | | |
| | | 1,1-Dichloroethylene | **1.9** | < 0.11 | < 0.12 | No further action required | |
| | | 1,2,4-Trimethylbenzene | **1** | **1.3** | **0.4** | | |
| | | 1,2-Dichloropropane | < 0.25 | < 0.087 | < 0.087 | | |
| | | 1,3,5-Trimethylbenzene | < 0.26 | **0.37** | **0.12** | | |
| | | 1,3-Dichlorobenzene | < 0.33 | < 0.12 | < 0.12 | | |
| | | 2-Butanone (MEK) | **< 3.1** | **1.2** | < 1.1 | | |
| | | 2-Propanol (Isopropyl alcohol) | **240** | **30** | **12** | | |
| | | Acetone | **42** | **33** | **4.5** | | |
| | | Benzene | **2.7** | **2.9** | **0.55** | | |
| | | Carbon disulfide | < 0.29 | < 0.1 | < 0.1 | | |
| | | Carbon tetrachloride | **6.1** | **0.46** | **0.44** | No further action required | |
| | | Chloroform | **3.3** | < 0.16 | < 0.16 | | |
| | | Chloromethane | **0.49** | **1.2** | **1.2** | | |
| | | Cyclohexane | **1.3** | **1.6** | < 0.079 | | |
| | | Dichlorodifluoromethane | **2.1** | **2.2** | **2.2** | | |
| | | Ethanol | **210** | **47** | **4.9** | | |
| | | Ethyl acetate | < 1.8 | < 0.64 | < 0.64 | | |
| | | Ethylbenzene | **1.1** | **1.2** | **0.1** | | |
| | | Methyl isobutyl ketone (MIBK) | < 0.21 | < 0.073 | < 0.073 | | |
| | | Methylene chloride | < 1.6 | < 0.56 | < 0.56 | No further action required | |
| | | Naphthalene | < 0.33 | < 0.12 | < 0.12 | | |
| | | o-Xylene | **1.5** | **1.4** | **0.22** | | |
| | | Styrene | **1.7** | **1.9** | < 0.078 | | |
| | | Tetrachloroethylene | **2.2** | **28** | **0.62** | Identify Source(s) and Resample of Mitigate | |
| | | Tetrahydrofuran | < 0.48 | < 0.17 | < 0.17 | | |
| | | Toluene | **10** | **9.3** | **0.54** | | |
| | | Trichloroethylene | **2** | **0.91** | < 0.13 | No further action required | |
| | | Trichlorofluoromethane | < 0.66 | **1.2** | **1.1** | | |
| 3/4/2022 | SV-8/IA-8 | 1,1,1-Trichloroethane | < 0.43 | **0.58** | < 0.15 | No further action required | No further action required |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | < 0.85 | **1** | **0.49** | | |
| | | 1,1-Dichloroethylene | < 0.3 | < 0.11 | < 0.12 | No further action required | |
| | | 1,2,4-Trimethylbenzene | **1.2** | **2.9** | **0.4** | | |
| | | 1,2-Dichloropropane | < 0.25 | < 0.087 | < 0.087 | | |
| | | 1,3,5-Trimethylbenzene | **0.45** | **0.83** | **0.12** | | |
| | | 1,3-Dichlorobenzene | < 0.33 | < 0.12 | < 0.12 | | |
| | | 2-Butanone (MEK) | < 3.1 | **5.1** | < 1.1 | | |
| | | 2-Propanol (Isopropyl alcohol) | **20** | **310** | **12** | | |
| | | Acetone | **35** | **140** | **4.5** | | |
| | | Benzene | **1.7** | **1.8** | **0.55** | | |
| | | Carbon disulfide | < 0.29 | < 0.1 | < 0.1 | | |
| | | Carbon tetrachloride | **0.53** | **0.52** | **0.44** | No further action required | |
| | | Chloroform | < 0.46 | **0.22** | < 0.16 | | |
| | | Chloromethane | **1.2** | **0.41** | **1.2** | | |
| | | Cyclohexane | **0.89** | **1.6** | < 0.079 | | |
| | | Dichlorodifluoromethane | **2.3** | **2.2** | **2.2** | | |
| | | Ethanol | **47** | **230** | **4.9** | | |
| | | Ethyl acetate | < 1.8 | **0.94** | < 0.64 | | |
| | | Ethylbenzene | **0.98** | **1.8** | **0.1** | | |
| | | Methyl isobutyl ketone (MIBK) | < 0.21 | < 0.073 | < 0.073 | | |
| | | Methylene chloride | < 1.6 | < 0.56 | < 0.56 | No further action required | |
| | | Naphthalene | < 0.33 | **0.3** | < 0.12 | | |
| | | o-Xylene | **1.4** | **2.6** | **0.22** | | |
| | | Styrene | **0.62** | **0.62** | < 0.078 | | |
| | | Tetrachloroethylene | **2.9** | **2.8** | **0.62** | No further action required | |
| | | Tetrahydrofuran | < 0.48 | **5** | < 0.17 | | |
| | | Toluene | **10** | **20** | **0.54** | | |
| | | Trichloroethylene | **1.1** | **0.7** | < 0.13 | No further action required | |
| | | Trichlorofluoromethane | **1.3** | **1.2** | **1.1** | | |
| 3/4/2022 | SV-9/IA-9 | 1,1,1-Trichloroethane | **5.7** | < 0.15 | < 0.15 | No further action required | No further action required |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | **1.3** | **0.55** | **0.49** | | |
| | | 1,1-Dichloroethylene | < 0.3 | < 0.11 | < 0.12 | No further action required | |
| | | 1,2,4-Trimethylbenzene | **2.4** | **1.4** | **0.4** | | |
| | | 1,2-Dichloropropane | < 0.25 | < 0.087 | < 0.087 | | |
| | | 1,3,5-Trimethylbenzene | **0.69** | **0.4** | **0.12** | | |
| | | 1,3-Dichlorobenzene | < 0.33 | < 0.12 | < 0.12 | | |
| | | 2-Butanone (MEK) | **10** | < 1.1 | < 1.1 | | |
| | | 2-Propanol (Isopropyl alcohol) | **420** | **23** | **12** | | |
| | | Acetone | **120** | **30** | **4.5** | | |
| | | Benzene | **1.8** | **1.6** | **0.55** | | |
| | | Carbon disulfide | < 0.29 | < 0.1 | < 0.1 | | |
| | | Carbon tetrachloride | **2.9** | **0.48** | **0.44** | No further action required | |
| | | Chloroform | **2.9** | < 0.16 | < 0.16 | | |
| | | Chloromethane | **0.46** | **1.1** | **1.2** | | |
| | | Cyclohexane | **1.3** | **0.81** | < 0.079 | | |
| | | Dichlorodifluoromethane | **2.2** | **2.2** | **2.2** | | |
| | | Ethanol | **180** | **33** | **4.9** | | |
| | | Ethyl acetate | **2** | < 0.64 | < 0.64 | | |
| | | Ethylbenzene | **1.8** | **0.96** | **0.1** | | |
| | | Methyl isobutyl ketone (MIBK) | < 0.21 | < 0.073 | < 0.073 | | |
| | | Methylene chloride | < 1.6 | **0.66** | < 0.56 | No further action required | |
| | | Naphthalene | **0.48** | **0.35** | < 0.12 | | |
| | | o-Xylene | **2.6** | **1.3** | **0.22** | | |
| | | Styrene | **0.95** | **0.81** | < 0.078 | | |
| | | Tetrachloroethylene | **3.4** | **2.6** | **0.62** | No further action required | |
| | | Tetrahydrofuran | **8** | < 0.17 | < 0.17 | | |
| | | Toluene | **22** | **8.7** | **0.54** | | |
| | | Trichloroethylene | **2.9** | **0.72** | < 0.13 | No further action required | |
| | | Trichlorofluoromethane | **190** | **1.2** | **1.1** | | |

**Legend**

| | |
|---|---|
| < 1 | Parameter not detected above the method detection limit |
| **1** | Parameter reported above the laboratory method detection limit |
| **Contaminent require specific action according to the NYSDOH May 2017 Soil Vapor/ Indoor Air Matrix** | |
| **All concentrations in micrograms per cubic meter (µg/m³)** | |

**Table 6**
**Soil Vapor Laboratory Analytical Results (Detections Only)**
**VOCs**
**251 WALSH ROAD Site**
**Site #336077**
**251 WALSH ROAD, NEW WINDSOR, NY**

| Sample Date | Location | Compound | Sub-Slab Air Conentrations (µg/m³) | Indoor Air Concentration (µg/m³) | Outdoor Air Concentration (µg/m³) | NYSDOH 2017 Matrix Recommendations | Final Action Recommended |
|---|---|---|---|---|---|---|---|
| 3/4/2022 | SV-10/IA-10 | 1,1,1-Trichloroethane | < 0.43 | < 0.15 | < 0.15 | No further action required | No further action required |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | < 0.85 | **0.56** | **0.49** | | |
| | | 1,1-Dichloroethylene | < 0.3 | < 0.11 | < 0.12 | No further action required | |
| | | 1,2,4-Trimethylbenzene | **0.94** | **2.2** | **0.4** | | |
| | | 1,2-Dichloropropane | < 0.25 | < 0.087 | < 0.087 | | |
| | | 1,3,5-Trimethylbenzene | **0.31** | **0.83** | **0.12** | | |
| | | 1,3-Dichlorobenzene | < 0.33 | < 0.12 | < 0.12 | | |
| | | 2-Butanone (MEK) | < 3.1 | < 1.1 | < 1.1 | | |
| | | 2-Propanol (Isopropyl alcohol) | **270** | **13** | **12** | | |
| | | Acetone | **66** | **21** | **4.5** | | |
| | | Benzene | **1.2** | **1** | **0.55** | | |
| | | Carbon disulfide | < 0.29 | < 0.1 | < 0.1 | | |
| | | Carbon tetrachloride | < 0.5 | **0.47** | **0.44** | No further action required | |
| | | Chloroform | < 0.46 | < 0.16 | < 0.16 | | |
| | | Chloromethane | **0.44** | **1.3** | **1.2** | | |
| | | Cyclohexane | < 0.23 | **0.4** | < 0.079 | | |
| | | Dichlorodifluoromethane | **2.2** | **2.2** | **2.2** | | |
| | | Ethanol | **170** | **22** | **4.9** | | |
| | | Ethyl acetate | < 1.8 | < 0.64 | < 0.64 | | |
| | | Ethylbenzene | **0.77** | **0.68** | **0.1** | | |
| | | Methyl isobutyl ketone (MIBK) | < 0.21 | < 0.073 | < 0.073 | | |
| | | Methylene chloride | < 1.6 | < 0.56 | < 0.56 | No further action required | |
| | | Naphthalene | < 0.33 | **0.12** | < 0.12 | | |
| | | o-Xylene | **1.1** | **1.1** | **0.22** | | |
| | | Styrene | < 0.22 | **0.29** | < 0.078 | | |
| | | Tetrachloroethylene | **1** | **1.4** | **0.62** | No further action required | |
| | | Tetrahydrofuran | **2.1** | < 0.17 | < 0.17 | | |
| | | Toluene | **10** | **6.4** | **0.54** | | |
| | | Trichloroethylene | < 0.36 | **0.37** | < 0.13 | No further action required | |
| | | Trichlorofluoromethane | **1.1** | **1.1** | **1.1** | | |
| 3/4/2022 | SV-11/IA-11 | 1,1,1-Trichloroethane | < 0.43 | < 0.15 | < 0.15 | No further action required | Identify Source(s) and Resample or Mitigate |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | < 0.85 | **0.53** | **0.49** | | |
| | | 1,1-Dichloroethylene | < 0.3 | < 0.11 | < 0.12 | No further action required | |
| | | 1,2,4-Trimethylbenzene | **2.9** | **4** | **0.4** | | |
| | | 1,2-Dichloropropane | < 0.25 | < 0.087 | < 0.087 | | |
| | | 1,3,5-Trimethylbenzene | **0.88** | **1.3** | **0.12** | | |
| | | 1,3-Dichlorobenzene | < 0.33 | < 0.12 | < 0.12 | | |
| | | 2-Butanone (MEK) | **8.9** | < 1.1 | < 1.1 | | |
| | | 2-Propanol (Isopropyl alcohol) | **400** | **27** | **12** | | |
| | | Acetone | **130** | **56** | **4.5** | | |
| | | Benzene | **2.2** | **2.2** | **0.55** | | |
| | | Carbon disulfide | < 0.29 | **0.11** | < 0.1 | | |
| | | Carbon tetrachloride | **0.58** | **0.48** | **0.44** | No further action required | |
| | | Chloroform | < 0.46 | **0.4** | < 0.16 | | |
| | | Chloromethane | **0.63** | **1.2** | **1.2** | | |
| | | Cyclohexane | **2** | **1.6** | < 0.079 | | |
| | | Dichlorodifluoromethane | **2.2** | **2.1** | **2.2** | | |
| | | Ethanol | **160** | **59** | **4.9** | | |
| | | Ethyl acetate | < 1.8 | < 0.64 | < 0.64 | | |
| | | Ethylbenzene | **2.2** | **2** | **0.1** | | |
| | | Methyl isobutyl ketone (MIBK) | < 0.21 | < 0.073 | < 0.073 | | |
| | | Methylene chloride | < 1.6 | **1** | < 0.56 | No further action required | |
| | | Naphthalene | < 0.33 | **0.57** | < 0.12 | | |
| | | o-Xylene | **3.2** | **2.9** | **0.22** | | |
| | | Styrene | **0.55** | **0.75** | < 0.078 | | |
| | | Tetrachloroethylene | **3** | **3.4** | **0.62** | No further action required | |
| | | Tetrahydrofuran | **5.5** | < 0.17 | < 0.17 | | |
| | | Toluene | **29** | **22** | **0.54** | | |
| | | Trichloroethylene | **1.1** | **13** | < 0.13 | Identify Source(s) and Resample or Mitigate | |
| | | Trichlorofluoromethane | **1.1** | **1.2** | **1.1** | | |
| 3/4/2022 | SV-14/IA-14 | 1,1,1-Trichloroethane | < 0.43 | < 0.15 | < 0.15 | No further action required | No further action required |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | < 0.85 | **0.51** | **0.49** | | |
| | | 1,1-Dichloroethylene | < 0.3 | < 0.11 | < 0.12 | No further action required | |
| | | 1,2,4-Trimethylbenzene | < 0.22 | **2.8** | **0.4** | | |
| | | 1,2-Dichloropropane | < 0.25 | < 0.087 | < 0.087 | | |
| | | 1,3,5-Trimethylbenzene | **0.4** | **1.1** | **0.12** | | |
| | | 1,3-Dichlorobenzene | < 0.33 | < 0.12 | < 0.12 | | |
| | | 2-Butanone (MEK) | **3.8** | < 1.1 | < 1.1 | | |
| | | 2-Propanol (Isopropyl alcohol) | **160** | **11** | **12** | | |
| | | Acetone | **73** | **22** | **4.5** | | |
| | | Benzene | **1.3** | **1.5** | **0.55** | | |
| | | Carbon disulfide | < 0.29 | **0.66** | < 0.1 | | |
| | | Carbon tetrachloride | < 0.5 | **0.48** | **0.44** | No further action required | |
| | | Chloroform | < 0.46 | < 0.16 | < 0.16 | | |
| | | Chloromethane | **0.42** | **1.2** | **1.2** | | |
| | | Cyclohexane | **0.99** | < 0.079 | < 0.079 | | |
| | | Dichlorodifluoromethane | **2.3** | **2.2** | **2.2** | | |
| | | Ethanol | **130** | **23** | **4.9** | | |
| | | Ethyl acetate | < 1.8 | < 0.64 | < 0.64 | | |
| | | Ethylbenzene | **0.95** | **0.8** | **0.1** | | |
| | | Methyl isobutyl ketone (MIBK) | < 0.21 | < 0.073 | < 0.073 | | |
| | | Methylene chloride | < 1.6 | < 0.56 | < 0.56 | No further action required | |
| | | Naphthalene | < 0.33 | **0.13** | < 0.12 | | |
| | | o-Xylene | **1.4** | **1.3** | **0.22** | | |
| | | Styrene | **0.29** | **0.32** | < 0.078 | | |
| | | Tetrachloroethylene | **1.2** | **1.2** | **0.62** | No further action required | |
| | | Tetrahydrofuran | **2.3** | < 0.17 | < 0.17 | | |
| | | Toluene | **11** | **6.1** | **0.54** | | |
| | | Trichloroethylene | **0.39** | **0.33** | < 0.13 | No further action required | |
| | | Trichlorofluoromethane | **1.2** | **1.2** | **1.1** | | |

**Legend**

| | |
|---|---|
| < 1 | Parameter not detected above the method detection limit |
| **1** | Parameter reported above the laboratory method detection limit |
| **Contaminent require specific action according to the NYSDOH May 2017 Soil Vapor/ Indoor Air Matrix** | |
| **All concentrations in micrograms per cubic meter (µg/m³)** | |

**Table 6**
**Soil Vapor Laboratory Analytical Results (Detections Only)**
**VOCs**
**251 WALSH ROAD Site**
**Site #336077**
**251 WALSH ROAD, NEW WINDSOR, NY**

| Sample Date | Location | Compound | Sub-Slab Air Conentrations (µg/m³) | Indoor Air Concentration (µg/m³) | Outdoor Air Concentration (µg/m³) | NYSDOH 2017 Matrix Recommendations | Final Action Recommended |
|---|---|---|---|---|---|---|---|
| 3/4/2022 | SV-15/IA-15 (Sample collecetd from 255 Walsh Ave.) | 1,1,1-Trichloroethane | < 0.43 | < 0.15 | < 0.15 | No further action required | Identify Source(s) and Resample or Mitigate |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | < 0.85 | 0.52 | 0.49 | | |
| | | 1,1-Dichloroethylene | < 0.3 | < 0.11 | < 0.12 | No further action required | |
| | | 1,2,4-Trimethylbenzene | 0.33 | 0.47 | 0.4 | | |
| | | 1,2-Dichloropropane | < 0.25 | < 0.087 | < 0.087 | | |
| | | 1,3,5-Trimethylbenzene | < 0.26 | 0.12 | 0.12 | | |
| | | 1,3-Dichlorobenzene | 5 | < 0.12 | < 0.12 | | |
| | | 2-Butanone (MEK) | 3.6 | < 1.1 | < 1.1 | | |
| | | 2-Propanol (Isopropyl alcohol) | 170 | 1.6 | 12 | | |
| | | Acetone | 32 | 12 | 4.5 | | |
| | | Benzene | 0.74 | 0.85 | 0.55 | | |
| | | Carbon disulfide | 0.87 | 0.1 | < 0.1 | | |
| | | Carbon tetrachloride | 0.52 | 0.5 | 0.44 | No further action required | |
| | | Chloroform | < 0.46 | < 0.16 | < 0.16 | | |
| | | Chloromethane | 1.3 | 1.2 | 1.2 | | |
| | | Cyclohexane | < 0.23 | < 0.079 | < 0.079 | | |
| | | Dichlorodifluoromethane | 2.2 | 2.1 | 2.2 | | |
| | | Ethanol | 150 | 26 | 4.9 | | |
| | | Ethyl acetate | < 1.8 | < 0.64 | < 0.64 | | |
| | | Ethylbenzene | 0.26 | 0.36 | 0.1 | | |
| | | Methyl isobutyl ketone (MIBK) | < 0.21 | < 0.073 | < 0.073 | | |
| | | Methylene chloride | 11 | 12 | < 0.56 | Identify Source(s) and Resample or Mitigate | |
| | | Naphthalene | < 0.33 | < 0.12 | < 0.12 | | |
| | | o-Xylene | 0.43 | 0.5 | 0.22 | | |
| | | Styrene | < 0.22 | < 0.078 | < 0.078 | | |
| | | Tetrachloroethylene | 1.2 | < 0.18 | 0.62 | No further action required | |
| | | Tetrahydrofuran | 1.8 | < 0.17 | < 0.17 | | |
| | | Toluene | 4.2 | 5.7 | 0.54 | | |
| | | Trichloroethylene | < 0.36 | < 0.13 | < 0.13 | No further action required | |
| | | Trichlorofluoromethane | 1.2 | 1.1 | 1.1 | | |
| 3/4/2022 | SV-21/IA-21 | 1,1,1-Trichloroethane | < 0.43 | < 0.15 | < 0.15 | No further action required | No further action required |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | < 0.85 | 0.48 | 0.49 | | |
| | | 1,1-Dichloroethylene | < 0.3 | < 0.11 | < 0.12 | No further action required | |
| | | 1,2,4-Trimethylbenzene | 1.3 | 3.3 | 0.4 | | |
| | | 1,2-Dichloropropane | < 0.25 | < 0.087 | < 0.087 | | |
| | | 1,3,5-Trimethylbenzene | 0.42 | 1.1 | 0.12 | | |
| | | 1,3-Dichlorobenzene | < 0.33 | < 0.12 | < 0.12 | | |
| | | 2-Butanone (MEK) | 3.9 | < 1.1 | < 1.1 | | |
| | | 2-Propanol (Isopropyl alcohol) | 210 | 28 | 12 | | |
| | | Acetone | 82 | 43 | 4.5 | | |
| | | Benzene | 1.1 | 1.6 | 0.55 | | |
| | | Carbon disulfide | < 0.29 | < 0.1 | < 0.1 | | |
| | | Carbon tetrachloride | < 0.5 | 0.48 | 0.44 | No further action required | |
| | | Chloroform | < 0.46 | < 0.16 | < 0.16 | | |
| | | Chloromethane | 0.48 | 1.2 | 1.2 | | |
| | | Cyclohexane | 1 | 0.85 | < 0.079 | | |
| | | Dichlorodifluoromethane | 2 | 2.2 | 2.2 | | |
| | | Ethanol | 150 | 65 | 4.9 | | |
| | | Ethyl acetate | < 1.8 | < 0.64 | < 0.64 | | |
| | | Ethylbenzene | 0.91 | 1.4 | 0.1 | | |
| | | Methyl isobutyl ketone (MIBK) | < 0.21 | 0.27 | < 0.073 | | |
| | | Methylene chloride | < 1.6 | 1.1 | < 0.56 | No further action required | |
| | | Naphthalene | < 0.33 | 0.39 | < 0.12 | | |
| | | o-Xylene | 1.4 | 2.1 | 0.22 | | |
| | | Styrene | < 0.22 | 0.57 | < 0.078 | | |
| | | Tetrachloroethylene | 0.84 | 3.4 | 0.62 | No further action required | |
| | | Tetrahydrofuran | 2.9 | < 0.17 | < 0.17 | | |
| | | Toluene | 10 | 15 | 0.54 | | |
| | | Trichloroethylene | 1.6 | 0.9 | < 0.13 | No further action required | |
| | | Trichlorofluoromethane | 1.1 | 1.2 | 1.1 | | |

**Legend**

| | |
|---|---|
| < 1 | Parameter not detected above the method detection limit |
| **1** | Parameter reported above the laboratory method detection limit |
| **Contaminent require specific action according to the NYSDOH May 2017 Soil Vapor/ Indoor Air Matrix** | |
| **All concentrations in micrograms per cubic meter (µg/m³)** | |

**Table** 6
**Soil Vapor Laboratory Analytical Results (Detections Only)**
**VOCs**
**251 WALSH ROAD Site**
**Site #336077**
**251 WALSH ROAD, NEW WINDSOR, NY**

| Sample Date | Location | Compound | Sub-Slab Air Conentrations (µg/m³) | Indoor Air Concentration (µg/m³) | Outdoor Air Concentration (µg/m³) | NYSDOH 2017 Matrix Recommendations | Final Action Recommended |
|---|---|---|---|---|---|---|---|
| 3/4/2022 | SV-22 | 1,1,1-Trichloroethane | < 0.43 | | < 0.15 | No further action required | No further action required |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | < 0.85 | | **0.49** | | |
| | | 1,1-Dichloroethylene | < 0.3 | | < 0.12 | No further action required | |
| | | 1,2,4-Trimethylbenzene | **2.3** | | **0.4** | | |
| | | 1,2-Dichloropropane | < 0.25 | | < 0.087 | | |
| | | 1,3,5-Trimethylbenzene | **0.76** | | **0.12** | | |
| | | 1,3-Dichlorobenzene | < 0.33 | | < 0.12 | | |
| | | 2-Butanone (MEK) | **6.5** | | < 1.1 | | |
| | | 2-Propanol (Isopropyl alcohol) | **290** | | **12** | | |
| | | Acetone | **110** | | **4.5** | | |
| | | Benzene | **2** | | **0.55** | | |
| | | Carbon disulfide | < 0.29 | | < 0.1 | | |
| | | Carbon tetrachloride | **0.54** | | **0.44** | No further action required | |
| | | Chloroform | < 0.46 | | < 0.16 | | |
| | | Chloromethane | **0.53** | | **1.2** | | |
| | | Cyclohexane | **1.5** | | < 0.079 | | |
| | | Dichlorodifluoromethane | **2.2** | | **2.2** | | |
| | | Ethanol | **130** | | **4.9** | | |
| | | Ethyl acetate | < 1.8 | | < 0.64 | | |
| | | Ethylbenzene | **1.8** | | **0.1** | | |
| | | Methyl isobutyl ketone (MIBK) | < 0.21 | | < 0.073 | | |
| | | Methylene chloride | < 1.6 | | < 0.56 | No further action required | |
| | | Naphthalene | < 0.33 | | < 0.12 | | |
| | | o-Xylene | **2.6** | | **0.22** | | |
| | | Styrene | **0.86** | | < 0.078 | | |
| | | Tetrachloroethylene | **4.6** | | **0.62** | No further action required | |
| | | Tetrahydrofuran | **5.8** | | < 0.17 | | |
| | | Toluene | **21** | | **0.54** | | |
| | | Trichloroethylene | **1.2** | | < 0.13 | No further action required | |
| | | Trichlorofluoromethane | **1.3** | | **1.1** | | |
| 3/4/2022 | Outdoor Soil Gas Sample SV-18 | 1,1,1-Trichloroethane | **1.9** | | < 0.15 | No further action required | No further action required |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | **48** | | **0.49** | | |
| | | 1,1-Dichloroethylene | < 0.3 | | < 0.12 | No further action required | |
| | | 1,2,4-Trimethylbenzene | **0.52** | | **0.4** | | |
| | | 1,2-Dichloropropane | < 0.25 | | < 0.087 | | |
| | | 1,3,5-Trimethylbenzene | < 0.26 | | **0.12** | | |
| | | 1,3-Dichlorobenzene | **1.5** | | < 0.12 | | |
| | | 2-Butanone (MEK) | < 3.1 | | < 1.1 | | |
| | | 2-Propanol (Isopropyl alcohol) | **140** | | **12** | | |
| | | Acetone | **42** | | **4.5** | | |
| | | Benzene | **0.8** | | **0.55** | | |
| | | Carbon disulfide | < 0.29 | | < 0.1 | | |
| | | Carbon tetrachloride | < 0.5 | | **0.44** | No further action required | |
| | | Chloroform | < 0.46 | | < 0.16 | | |
| | | Chloromethane | **0.93** | | **1.2** | | |
| | | Cyclohexane | < 0.23 | | < 0.079 | | |
| | | Dichlorodifluoromethane | **2.1** | | **2.2** | | |
| | | Ethanol | **78** | | **4.9** | | |
| | | Ethyl acetate | < 1.8 | | < 0.64 | | |
| | | Ethylbenzene | **0.46** | | **0.1** | | |
| | | Methyl isobutyl ketone (MIBK) | < 0.21 | | < 0.073 | | |
| | | Methylene chloride | < 1.6 | | < 0.56 | No further action required | |
| | | Naphthalene | < 0.33 | | < 0.12 | | |
| | | o-Xylene | **0.69** | | **0.22** | | |
| | | Styrene | < 0.22 | | < 0.078 | | |
| | | Tetrachloroethylene | **2.2** | | **0.62** | No further action required | |
| | | Tetrahydrofuran | **0.85** | | < 0.17 | | |
| | | Toluene | **6.9** | | **0.54** | | |
| | | Trichloroethylene | < 0.36 | | < 0.13 | No further action required | |
| | | Trichlorofluoromethane | **1.3** | | **1.1** | | |
| 3/4/2022 | Outdoor Soil Gas Sample SV-19 | 1,1,1-Trichloroethane | < 0.43 | < 0.15 | < 0.15 | No further action required | No further action required |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | < 0.85 | **0.55** | **0.49** | | |
| | | 1,1-Dichloroethylene | < 0.3 | < 0.11 | < 0.12 | No further action required | |
| | | 1,2,4-Trimethylbenzene | **0.54** | **0.22** | **0.4** | | |
| | | 1,2-Dichloropropane | < 0.25 | < 0.087 | < 0.087 | | |
| | | 1,3,5-Trimethylbenzene | < 0.26 | < 0.091 | **0.12** | | |
| | | 1,3-Dichlorobenzene | **1.7** | < 0.12 | < 0.12 | | |
| | | 2-Butanone (MEK) | < 3.1 | < 1.1 | < 1.1 | | |
| | | 2-Propanol (Isopropyl alcohol) | **80** | **2.9** | **12** | | |
| | | Acetone | **55** | **4.5** | **4.5** | | |
| | | Benzene | **0.82** | **0.51** | **0.55** | | |
| | | Carbon disulfide | < 0.29 | < 0.1 | < 0.1 | | |
| | | Carbon tetrachloride | < 0.5 | **0.38** | **0.44** | No further action required | |
| | | Chloroform | < 0.46 | < 0.16 | < 0.16 | | |
| | | Chloromethane | **1.6** | **1.2** | **1.2** | | |
| | | Cyclohexane | < 0.23 | < 0.079 | < 0.079 | | |
| | | Dichlorodifluoromethane | **2.4** | **2.2** | **2.2** | | |
| | | Ethanol | **80** | **10** | **4.9** | | |
| | | Ethyl acetate | < 1.8 | < 0.64 | < 0.64 | | |
| | | Ethylbenzene | **0.57** | < 0.088 | **0.1** | | |
| | | Methyl isobutyl ketone (MIBK) | < 0.21 | < 0.073 | < 0.073 | | |
| | | Methylene chloride | < 1.6 | < 0.56 | < 0.56 | No further action required | |
| | | Naphthalene | < 0.33 | < 0.12 | < 0.12 | | |
| | | o-Xylene | **0.79** | **0.15** | **0.22** | | |
| | | Styrene | < 0.22 | < 0.078 | < 0.078 | | |
| | | Tetrachloroethylene | < 0.52 | < 0.18 | **0.62** | No further action required | |
| | | Tetrahydrofuran | **1.1** | < 0.17 | < 0.17 | | |
| | | Toluene | **7.3** | **0.45** | **0.54** | | |
| | | Trichloroethylene | < 0.36 | < 0.13 | < 0.13 | No further action required | |
| | | Trichlorofluoromethane | **1** | **1.1** | **1.1** | | |

**Legend**

| | |
|---|---|
| < 1 | Parameter not detected above the method detection limit |
| **1** | Parameter reported above the laboratory method detection limit |
| **Contaminent require specific action according to the NYSDOH May 2017 Soil Vapor/ Indoor Air Matrix** | |
| **All concentrations in micrograms per cubic meter (µg/m³)** | |

**Table 6**
**Soil Vapor Laboratory Analytical Results (Detections Only)**
**VOCs**
**251 WALSH ROAD Site**
**Site #336077**
**251 WALSH ROAD, NEW WINDSOR, NY**

| Sample Date | Location | Compound | Sub-Slab Air Conentrations (µg/m³) | Indoor Air Concentration (µg/m³) | Outdoor Air Concentration (µg/m³) | NYSDOH 2017 Matrix Recommendations | Final Action Recommended |
|---|---|---|---|---|---|---|---|
| 3/4/2022 | Outdoor Soil Gas Sample SV-20 | 1,1,1-Trichloroethane | **0.6** | < 0.15 | < 0.15 | **No further action required** | **No further action required** |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | **160** | **0.55** | **0.49** | | |
| | | 1,1-Dichloroethylene | < 0.3 | < 0.11 | < 0.12 | **No further action required** | |
| | | 1,2,4-Trimethylbenzene | **0.63** | **0.15** | **0.4** | | |
| | | 1,2-Dichloropropane | < 0.25 | < 0.087 | < 0.087 | | |
| | | 1,3,5-Trimethylbenzene | < 0.26 | < 0.091 | **0.12** | | |
| | | 1,3-Dichlorobenzene | **1.2** | < 0.12 | < 0.12 | | |
| | | 2-Butanone (MEK) | < 3.1 | < 1.1 | < 1.1 | | |
| | | 2-Propanol (Isopropyl alcohol) | **69** | **4** | **12** | | |
| | | Acetone | **52** | **4.5** | **4.5** | | |
| | | Benzene | **0.82** | **0.52** | **0.55** | | |
| | | Carbon disulfide | < 0.29 | < 0.1 | < 0.1 | | |
| | | Carbon tetrachloride | < 0.5 | **0.44** | **0.44** | **No further action required** | |
| | | Chloroform | < 0.46 | < 0.16 | < 0.16 | | |
| | | Chloromethane | < 0.16 | **1.2** | **1.2** | | |
| | | Cyclohexane | **0.82** | < 0.079 | < 0.079 | | |
| | | Dichlorodifluoromethane | **2** | **2.2** | **2.2** | | |
| | | Ethanol | **81** | **14** | **4.9** | | |
| | | Ethyl acetate | < 1.8 | < 0.64 | < 0.64 | | |
| | | Ethylbenzene | **0.58** | < 0.088 | **0.1** | | |
| | | Methyl isobutyl ketone (MIBK) | < 0.21 | < 0.073 | < 0.073 | | |
| | | Methylene chloride | < 1.6 | < 0.56 | < 0.56 | **No further action required** | |
| | | Naphthalene | < 0.33 | < 0.12 | < 0.12 | | |
| | | o-Xylene | **0.82** | **0.1** | **0.22** | | |
| | | Styrene | < 0.22 | < 0.078 | < 0.078 | | |
| | | Tetrachloroethylene | < 0.52 | < 0.18 | **0.62** | **No further action required** | |
| | | Tetrahydrofuran | **1.2** | < 0.17 | < 0.17 | | |
| | | Toluene | **7.8** | **0.44** | **0.54** | | |
| | | Trichloroethylene | < 0.36 | < 0.13 | < 0.13 | **No further action required** | |
| | | Trichlorofluoromethane | **1.1** | **1.1** | **1.1** | | |
| 3/4/2022 | SV-275 (Indoor Air Sample at 275 Walsh Ave.) | 1,1,1-Trichloroethane | | < 0.15 | < 0.15 | **No further action required** | **No further action required** |
| | | 1,1,2-Trichlorotrifluoroethane (freon 113) | | **0.56** | **0.49** | | |
| | | 1,1-Dichloroethylene | | < 0.11 | < 0.12 | **No further action required** | |
| | | 1,2,4-Trimethylbenzene | | **0.31** | **0.4** | | |
| | | 1,2-Dichloropropane | | < 0.087 | < 0.087 | | |
| | | 1,3,5-Trimethylbenzene | | < 0.091 | **0.12** | | |
| | | 1,3-Dichlorobenzene | | < 0.12 | < 0.12 | | |
| | | 2-Butanone (MEK) | | < 1.1 | < 1.1 | | |
| | | 2-Propanol (Isopropyl alcohol) | | **28** | **12** | | |
| | | Acetone | | **14** | **4.5** | | |
| | | Benzene | | **0.76** | **0.55** | | |
| | | Carbon disulfide | | < 0.1 | < 0.1 | | |
| | | Carbon tetrachloride | | **0.46** | **0.44** | **No further action required** | |
| | | Chloroform | | **0.2** | < 0.16 | | |
| | | Chloromethane | | < 0.057 | **1.2** | | |
| | | Cyclohexane | | < 0.079 | < 0.079 | | |
| | | Dichlorodifluoromethane | | **2.1** | **2.2** | | |
| | | Ethanol | | **210** | **4.9** | | |
| | | Ethyl acetate | | < 0.64 | < 0.64 | | |
| | | Ethylbenzene | | **0.19** | **0.1** | | |
| | | Methyl isobutyl ketone (MIBK) | | < 0.073 | < 0.073 | | |
| | | Methylene chloride | | < 0.56 | < 0.56 | **No further action required** | |
| | | Naphthalene | | **0.13** | < 0.12 | | |
| | | o-Xylene | | **0.25** | **0.22** | | |
| | | Styrene | | **0.15** | < 0.078 | | |
| | | Tetrachloroethylene | | **0.37** | **0.62** | **No further action required** | |
| | | Tetrahydrofuran | | **0.22** | < 0.17 | | |
| | | Toluene | | **1.1** | **0.54** | | |
| | | Trichloroethylene | | < 0.13 | < 0.13 | **No further action required** | |
| | | Trichlorofluoromethane | | **1.2** | **1.1** | | |

**Legend**

| | |
|---|---|
| < 1 | Parameter not detected above the method detection limit |
| **1** | Parameter reported above the laboratory method detection limit |
| **Contaminent require specific action according to the NYSDOH May 2017 Soil Vapor/ Indoor Air Matrix** | |
| **All concentrations in micrograms per cubic meter (µg/m³)** | |