2022
Periodic Review Report
Davis-Howland Oil Corporation
Site
NYSDEC Site No. 828088
City of Rochester
Monroe County, New York

May 2023

Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DEPARTMENT OF ENVIRONMENTAL REMEDIATION
625 Broadway, 12th Floor
Albany, New York 12233-7013

Prepared by:

ECOLOGY AND ENVIRONMENT ENGINEERING AND GEOLOGY, P.C.
40 La Riviere Drive
Suite 320

Buffalo, New York 14202

Table of Contents

Table of Contents (cont.)

List of Tables

List of Figures

List of Abbreviations and Acronyms

AS	air sparge
chem-ox	chemical-oxidation
cVOC	chlorinated aliphatic (straight-chained) volatile organic compound
DHOC	Davis-Howland Oil Corporation
DO	dissolved oxygen
DUSR	Data Usability Summary Report
E & E	Ecology and Environment Engineering and Geology, P.C.
EC	engineering controls
EPA	U.S. Environmental Protection Agency
HDPE	high-density polyethylene
IC	institutional controls
IDW	investigation-derived waste
µg/L	micrograms per liter
MS/MSD	matrix spike/matrix spike duplicate
MW	monitoring well
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
ORP	oxidation-reduction potential
PCE	tetrachloroethylene
PPE	personal protective equipment
PRR	Periodic Review Report
RSO	Remedial Site Optimization
Site	Davis-Howland Oil Corporation (DHOC) Site
SMP	Site Management Plan
SSD	sub-slab depressurization
SVE	soil vapor extraction
TCA	trichloroethane
TCE	trichloroethene
VOC	volatile organic compound

Enclosure 1

Engineering Controls – Standby Consultant/Contractor Certification Form

Davis-Howland Oil Corporation Site NYSDEC Site No. 828088

Enclosure 1
Engineering Controls - Standby Consultant/Contractor Certification Form

Site Details **Box 1**

Site No. **828088**

Site Name Davis-Howland Oil Corporation

Site Address: 200 ANDERSON AVENUE Zip Code: 14607
City/Town: Rochester
County: Monroe
Site Acreage: 2.0

Reporting Period: December 31, 2021 to December 31, 2022

	YES	NO
1. Is the information above correct?	X	
If NO, include handwritten above or on a separate sheet.		
2. To your knowledge has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		X
3. To your knowledge has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		X
4. To your knowledge have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	X	
County of Monroe discharge permit is attachment to PRR.		

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. To your knowledge is the site currently undergoing development?		X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	X	
7. Are all ICs/ECs in place and functioning as designed?	X	
See response to question 7 on next page.		

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and contact the DEC PM regarding the development of a Corrective Measures Work Plan to address these issues.

Signature of Standby Consultant/Contractor Date

Enclosure 1

Response to question 7:

E&E's ICs/ECs certification does not include the sub-slab depressurization systems (SSDSs). Pursuant to the 2017 Consent Orders, the Department has no obligation to maintain the SSDS in each building; therefore, E&E cannot, and does not, certify that the vapor mitigation systems are in place and functioning as designed.

SITE NO. 828088 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
106.84-1-11	Goodman Yard LLC	
		Soil Management Plan Monitoring Plan Site Management Plan O&M Plan

The site has two records of decision (RODs) dating from March 1997 and March 1998.

106.84-1-4.002	Gary I & Marcia Stern	
		Soil Management Plan Monitoring Plan Site Management Plan O&M Plan

The site has two records of decision (RODs) dating from March 1997 and March 1998.

106.84-1-5	John Nacca, Esq.	
		Soil Management Plan Site Management Plan O&M Plan Ground Water Use Restriction Landuse Restriction Monitoring Plan IC/EC Plan

An Environmental Easement was signed on 5/11/2018. The Controls requires:

No disturbance that threatens the integrity of the Engineering controls, no disturbance of the engineering controls, adherence to the Site Management Plan, allowance of access by the NYSDEC, land use is to be used for industrial use only, and no groundwater water is to be used for drinking wate unless properly treated.

106.84-1-6	John Nacca	
		Ground Water Use Restriction Landuse Restriction IC/EC Plan Monitoring Plan Site Management Plan

An Environmental Easement was signed on 5/11/2018. The Controls requires:

No disturbance that threatens the integrity of the Engineering controls, no distrubance of the engineering controls, adherence to the Site Management Plan, allowance of access by the NYSDEC, land use is to be used for industrial use only, and no groundwater water is to be used for drinking wate unless properly treated.

106.84-1-7	Anderson Acquisitions, llc	
		Soil Management Plan Site Management Plan O&M Plan Ground Water Use Restriction Landuse Restriction Monitoring Plan IC/EC Plan

Environmental Easement originally signed on July 27, 2017. Updated on Feb. 4, 2019.

107.77-1-28.1 New York Central Lines, CSXT

The site has two records of decision (RODs) dating from March 1997 and March 1998.

121.28-2-4 Allan Stern

Monitoring Plan
Site Management Plan
O&M Plan

The site has two records of decision (RODs) dating from March 1997 and March 1998.

121.28-2-5 Allan Stern

Monitoring Plan
Site Management Plan
O&M Plan

The site has two records of decision (RODs) dating from March 1997 and March 1998.

Box 4

Description of Engineering Controls

Parcel — Engineering Control

106.84-1-11

Monitoring Wells

In 2018, it was shown that the groundwater treatment system and the air sparge/soil vapor extraction system had reached their performance limits whereby they were no longer cleaning up the groundwater. The treatme systems were shutdown and decommissioned in 2018. Groundwater monitoring wells are the only remaining engineering control.

106.84-1-4.002

Monitoring Wells

In 2018, it was shown that the groundwater treatment system and the air sparge/soil vapor extraction system had reached their performance limits whereby they were no longer cleaning up the groundwater. The treatme systems were shutdown and decommissioned in 2018. Groundwater monitoring wells are the only remaining engineering control.

106.84-1-5

Vapor Mitigation

A sub-slab depressurization system is the only remaining engineering control.

106.84-1-6

Vapor Mitigation
Monitoring Wells

Groundwater monitoring wells and a sub-slab depressurization system are the only remaining engineering control.

106.84-1-7

Vapor Mitigation

A sub-slab depressurization system is the only remaining engineering control.

107.77-1-28.1

Monitoring Wells

In 2018, it was shown that the groundwater treatment system and the air sparge/soil vapor extraction system had reached their performance limits whereby they were no longer cleaning up the groundwater. The treatme systems were shutdown and decommissioned in 2018. Groundwater monitoring wells and piezometers are th only remaining engineering control.

121.28-2-5

Monitoring Wells

Monitoring wells are the only engineering control on this property.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification, including data and material prepared by previous contractors for the current certifying period, if any;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) nothing has occurred that would constitute a failure to comply with the Site Management Plan, or equivalent if no Site Management Plan exists.

E&E's ICs/ECs certification does not include the sub-slab depressurization systems (SSDSs). Pursuant to the 2017 Consent Orders, the Department has no obligation to maintain the SSDS in each building; therefore, E&E cannot, and does not, certify that the vapor mitigation systems are in place and functioning as designed.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and contact the DEC PM regarding the development of a Corrective Measures Work Plan to address these issues.

_____ _____

Signature of Standby Consultant/Contractor Date

Box 6

IC/EC CERTIFICATIONS

Professional Engineer Signature

I certify that all information in Boxes 2 through 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Ashlee C. Smith at Ecology and Environment Engineering and Geology, P.C.
print name

40 La Riviere Drive, Suite 320

Buffalo, New York 14202,
(print business address)

am certifying as a Professional Engineer.

Signature of Professional Engineer

Date May 23, 2023

1 Introduction and Background

1.1 Introduction

This Periodic Review Report (PRR) provides information on the operations, maintenance, monitoring, compliance, operating costs, and pilot study at the Davis-Howland Oil Corporation (DHOC) Site (the "Site") during calendar year 2022. This PRR also provides information concerning the institutional controls (ICs) and engineering controls (ECs) facilitating the remedial cleanup of the Site.

This PRR was prepared by Ecology and Environment Engineering and Geology, P.C. (E & E) in accordance with the requirements in the *Site Management Plan, Former Davis-Howland Oil Corporation Site, NYSDEC Site No. 8-28-088* (EEEPC 2014).

1.2 Site Description

The Site was used from 1942 to 1972 to produce industrial chemicals, oils, greases, and other lubricants. From 1972 to 1994, the Site was used by DHOC to process and recycle waste oil, grease, and other lubricants. In 1994, DHOC closed and manufacturing and product-processing operations ceased.

Between 1974 and the early 1990s, the New York State Department of Environmental Conservation (NYSDEC) received reports of releases of materials at the Site, including waste oil, mineral oil, hydrochloric acid, and sulfuric acid. However, no single incident has been identified that can account for a majority of the contamination found at the Site. NYSDEC inspected the Site in June 1991 and found several hundred drums of oils, solvents, and other materials. Some of the drums were leaking, and several areas with stained surficial soil were identified.

In 1993, the Site was listed on the New York State Inactive Hazardous Waste Disposal Site Remedial Program Registry as a Class 2 Site. The Site was defined as a single parcel (ID No. 106.84-1-6) located at 192 through 200 Anderson Avenue in the city of Rochester, Monroe County, New York (see Figure 1-1). Documentation in NYSDEC's Environmental Site Remediation Database defines the Site as encompassing the parcels described as 190 through 220 Anderson Avenue and the portion of 176 Anderson Avenue immediately north and west of 190 through 220 Anderson Avenue. After boundary modifications in 2017, the Site now includes these additional parcels: 183 through 185 Anderson Avenue, 188 Anderson Avenue, 15 through 17 Norwood Avenue, 360 North Goodman, and 406 Atlantic Avenue.

Remedial actions have been performed and remedial systems (air sparge [AS]/soil vapor extraction [SVE] and groundwater treatment systems) were installed at the Site, specifically at the parcel located at 192 through 200 Anderson Avenue, the adjacent parcels at 190 and 220 Anderson Avenue, the portion of 176 Anderson Avenue immediately north and west of 190 through 220 Anderson Avenue, a portion of the CSX Railroad right-of-way to the north of 188 Anderson Avenue, and a small area south of Anderson Avenue encompassing the northern portions of 183 through 185 Anderson Avenue and 15 through 17 Norwood Avenue.

The groundwater treatment and AS/SVE systems were shut off in 2016 when it was determined that the treatment systems had reached asymptotic conditions and were no longer effectively removing volatile organic compound (VOC) contamination. In 2018, the groundwater treatment and AS/SVE systems were decommissioned and sub-slab depressurization (SSD) systems were installed at 190 Anderson Avenue, 192 through 200 Anderson Avenue, and 220 Anderson Avenue. These SSD systems were intended to mitigate potential sub-slab soil vapors that may enter each building via soil vapor intrusion while also reducing operation costs by switching from AS/SVE systems to SSD systems. These SSD systems were installed by the property owners between August 6 and August 13, 2018, in accordance with the *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (NYSDOH 2006), as well as subsequent updates, the corresponding Orders on Consent and Administrative Settlements (Orders), and the SSD system Work Plan dated April 2018. Following installation, indoor and outdoor air sampling was performed on December 11, 2018. These samples did not detect VOC concentrations in indoor air that exceed the New York State Department of Health (NYSDOH) Air Guidance Values nor the U.S. Environmental Protection Agency (EPA) Building Assessment and Survey Evaluation Database 90th percentile values.

The approximately 2-acre Site is located in an area that includes residences and commercial and industrial facilities. Figure 1-2 presents the general Site layout. No significant surface water is located in the immediate vicinity of the Site.

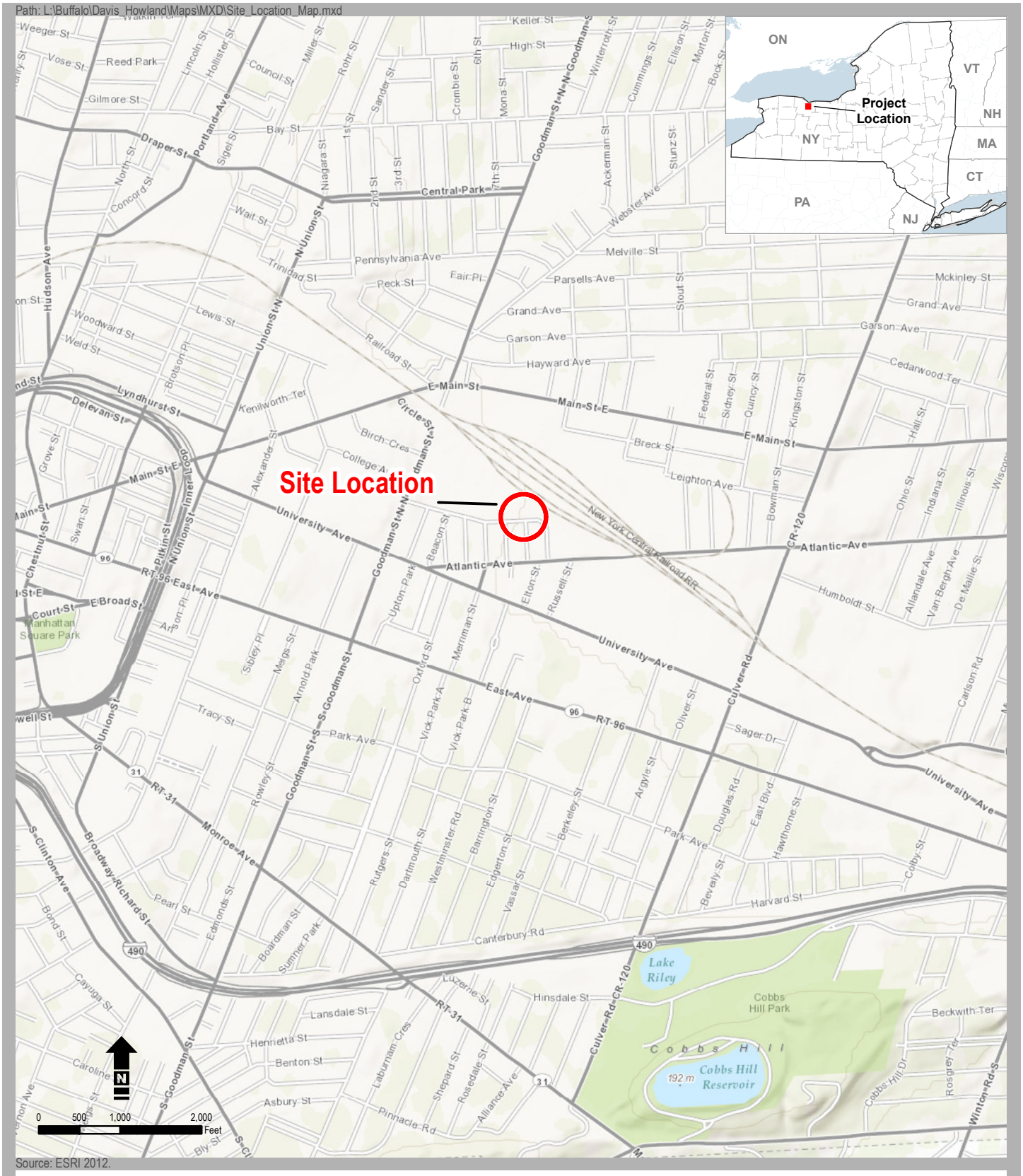
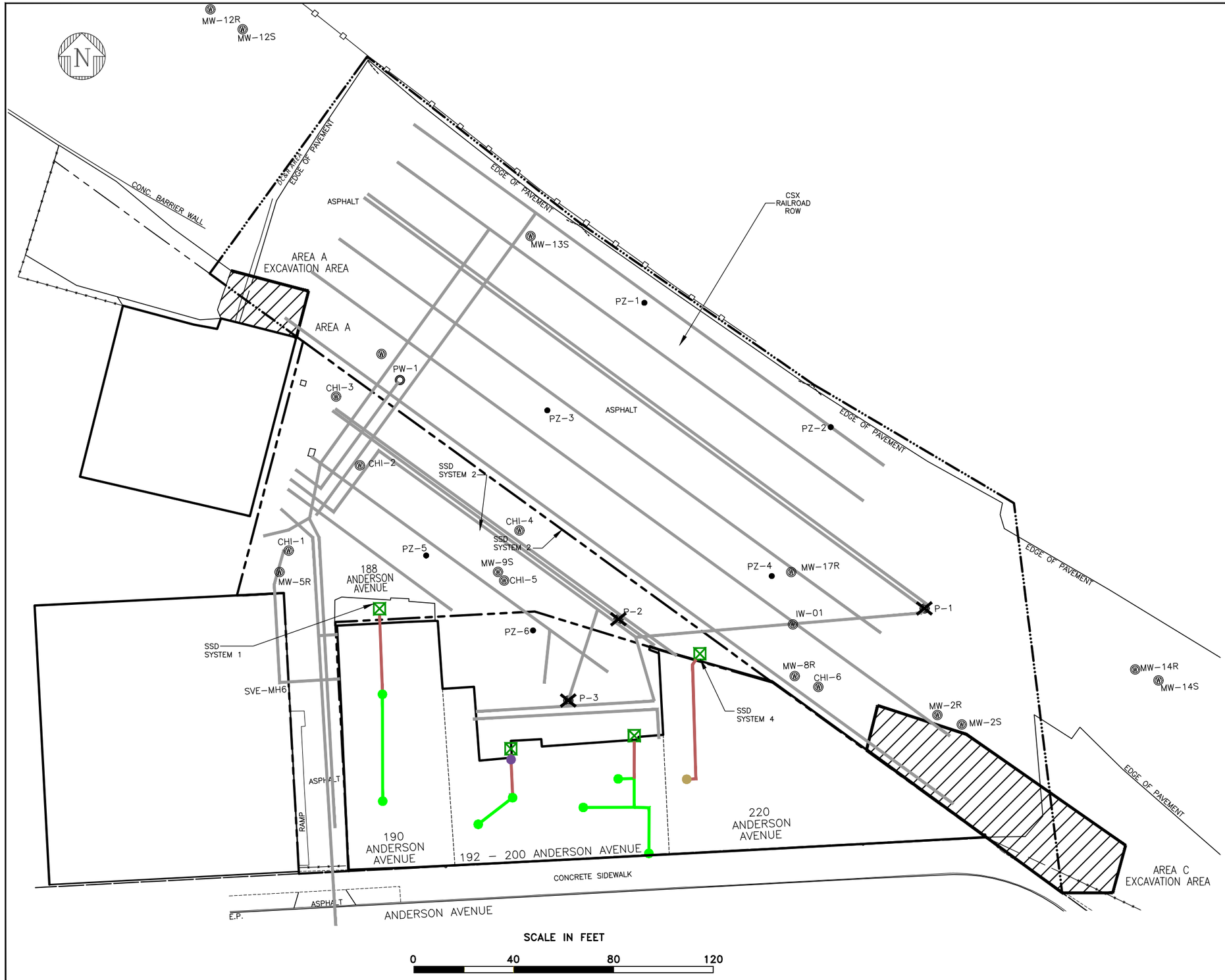


Figure 1-1
Site Location Map
Former Davis-Howland Oil Corporation
Rochester, NY



SCALE IN FEET

0 40 80 120

LEGEND

- MONITORING WELL
- PIEZOMETER
- PUMPING WELL
- DECOMMISSIONED AIR SPARGE/SOIL EXTRACTION SYSTEM
- DECOMMISSIONED PUMPING WELL/MONITORING WELL
- FAN LOCATIONS (EXTERIOR)
- 2 INCH SOLID SCHEDULE 40 PVC VERTICAL RISER
- 3 INCH SOLID SCHEDULE 40 PVC VERTICAL RISER
- 4 INCH SOLID SCHEDULE 40 PVC VERTICAL RISER
- 3 INCH SOLID PVC SCHEDULE 40 PVC OVERHEAD HEADER PIPING
- 4 INCH SOLID PVC SCHEDULE 40 PVC OVERHEAD HEADER PIPING

ABBREVIATIONS

CH	CLEAN HARBOR
IW	INJECTION WELL
MH	MANHOLE
MW	MONITORING WELL
P	SHALLOW OVERBURDEN GROUNDWATER PUMPING WELLS
PW	BEDROCK GROUNDWATER PUMPING WELLS
PZ	PIEZOMETER
SSD	SUB-SLAB DEPRESSURIZATION

NOTES

1. PIEZOMETERS, MONITORING WELLS, BUILDINGS AND PROPERTY LINES ARE BASED ON A SURVEY BY POPLI DESIGN GROUP, ARCHITECTURE AND ENGINEERING P.C. DATED DEC 7, 2012.
2. PUMPING WELL LINES, SOIL VAPOR EXTRACTION LINES AND AIR SPARGE LINES BASED ON AS-BUILT DRAWINGS BY ECOLOGY AND ENVIRONMENT P.C DATED NOVEMBER 2006.
3. STREET LOCATIONS ARE APPROXIMATE.

FIGURE 1-2 SITE LAYOUT
DAVIS HOWLAND OIL CORPORATION SITE
MONROE COUNTY, ROCHESTER, NY

2 Site Institutional and Engineering Controls

2.1 Institutional Controls

No ICs were required by the two records of decision issued for the Site; however, in accordance with 6 New York Codes, Rules, and Regulations Part 375 regulations, NYSDEC required that ICs be applied to the DHOC Site. Programmatically, the ICs that are necessary to provide for the effectiveness of this phase of the remedial action include a Site Management Plan (SMP) and environmental easements. The following are currently listed as ICs for the Site on Enclosure 1 – Institutional Controls – Standby Consultant/Contractor Certification Form included with this report:

- SMP
- Soils Management Plan
- Monitoring Plan
- Operations and Management Plan
- Ground Water Use Restriction
- Land Use Restriction
- IC/EC Plan

The current SMP (EEEPC 2020a) includes a soils management plan, monitoring plan, and operations and management plan.

An environmental notice was filed and recorded with the Monroe County Clerk on August 15, 2013, in Book 11290, pages 171–176, as a record that informs future owners of development restrictions on the property due to environmental concerns. The ICs require that there be no disturbance that threatens the integrity of the ECs, no disturbance of the ECs, adherence to the SMP, allowance of access by NYSDEC, that land be used for industrial use only, and that no groundwater is to be used for drinking water unless properly treated. A copy of the environmental notice for the Site is provided in Appendix D of the SMP.

An environmental easement for 190 Anderson Avenue (parcel 106.84-1-7) was filed and recorded with the Monroe County Clerk on July 27, 2017, and updated

on February 4, 2019. An environmental easement for 192 through 220 Anderson Avenue (parcels 106.84-1-6 and 106-84-1-5) was filed and recorded with the Monroe County Clerk on May 3, 2018. Copies of the environmental easements for the Site are provided in Appendix D of the SMP.

Access agreements between NYSDEC and the property owners for 183 through 185 Anderson Avenue, 188 Anderson Avenue, 15 through 17 Norwood Avenue, and 400 North Goodman were signed on August 2, 2019.

The ICs at the Site restrict disturbance of on-site residual contaminated material. If residual contaminated soil is disturbed or excavated, current and future Site owners are required to perform soil characterization and disposal/reuse activities in accordance with the SMP and NYSDEC regulations.

In 2022, the Site was in compliance with the ICs required by the SMP:

- The ICs employed at the Site are unchanged from the date the control was put in place and are compliant with NYSDEC-approved modifications;
- Nothing has occurred that would impair the ability of the ICs to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with Site-specific requirements of the SMP;
- Access to the Site will continue to be provided to NYSDEC to evaluate the remedy, including access to evaluate the continued maintenance of the ICs; and
- Use of the Site is in compliance with the environmental easements.

2.2 Engineering Controls

The ECs that support remedial operations at the Site are consistent with the SMP regarding operations, maintenance, and monitoring of the Site. The following are currently listed as ECs for the Site on Enclosure 1 – Engineering Controls – Standby Consultant/Contractor Certification Form included with this report:

- A groundwater monitoring well network consisting of both overburden and bedrock monitoring wells; and
- SSD systems were installed in three buildings: 190 Anderson Avenue, 192-220 Anderson Avenue, and 220 Anderson Avenue.

The decision to shut down and decommission the active treatment systems was made by NYSDEC on February 26, 2018 (NYSDEC 2018). This decision was made based on the results of the Remedial Site Optimization (RSO) evaluations performed in 2016 and 2017, which indicated that the remedial systems, as installed, were no longer effective in removing the remaining contamination at the Site. The groundwater treatment system (treatment trailer) and AS/SVE system (interior piping and AS/SVE points) were decommissioned between July and September 2018. The monitoring well system and piezometers remain in place; the

status of each well in the monitoring network is provided in Section 4. The groundwater pumping wells, exterior below-grade AS points, lines, and trenches remain in place but are no longer operational. Further discussion regarding the decommissioning of the treatment system is provided in Section 6.1. Long-term groundwater monitoring of the well system will continue in order to evaluate the remaining VOC contamination.

Following the decommissioning of the active remedial systems, SSD systems were installed at 190 Anderson Avenue, 192 through 200 Anderson Avenue, and 220 Anderson Avenue in 2018. Locations of these systems are shown on Figure 1-2. These SSD systems were intended to mitigate potential sub-slab soil vapors that may enter each building via soil vapor intrusion, while also reducing operation costs by switching from AS/SVE systems to SSD systems. These SSD systems were installed between August 6 and August 13, 2018, in accordance with the *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (NYSDOH 2006), as well as subsequent updates and the SSD system Work Plan dated April 2018. Following installation, indoor and outdoor air sampling was performed on December 11, 2018. These samples did not detect VOC concentrations in indoor air that exceed the NYSDOH Air Guidance Values nor the EPA Building Assessment and Survey Evaluation Database 90th percentile values.

Indoor and outdoor air sampling was performed at [redacted] in 2020 and is detailed in the 2020 SVI Sampling Report (E & E 2020b). Indoor and outdoor air sampling was performed at [redacted] in March 2022 and is discussed in Section 3.

3 Soil Vapor Intrusion Sampling

On March 1 and March 2, 2022, E & E performed SVI sampling [redacted], as requested by the New York State Department of Environmental Conservation (NYSDEC) and NYSDOH. Sampling was conducted in three separate areas of [redacted]. The approximate sample locations are shown on Figure 3-1.

One sub-slab (SS001), one indoor air (IA002), and one duplicate indoor air (IA003) sample were collected in the fabrication shop. One sub-slab (SS004) and one indoor air (IA005) sample were collected in the gas meter room. One sub-slab (SS006) and one indoor air (IA007) sample were collected in the hallway. One outdoor air (OA008) sample was collected outside and to the north of the [redacted].

E & E delivered the samples via FedEx to NYSDEC's call-out lab, Pace Analytical, (Pace), in Mount Juliet, Tennessee. The samples were analyzed for the presence of volatile organic compounds (VOCs). E & E validated the data and prepared a Data Usability Summary Report (DUSR).

The detected analytical results for each sample location are presented in Table 3-1. The sample results were screened against the ambient air guideline values set forth in the October 2006 *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* and subsequent updates (NYSDOH 2006). The indoor and outdoor air sample results did not exceed the ambient air screening criteria.

The NYSDOH May 2017 Soil Vapor / Indoor Air Matrix A was referenced to evaluate the sub-slab sample results for Trichloroethene (TCE), cis-1,2-Dichloroethene (cis-1,2-DCE), 1,1-Dichloroethene (1,1-DCE), and Carbon Tetrachloride. The NYSDOH May 2017 Soil Vapor / Indoor Air Matrix B was referenced to evaluate sub-slab sample results for Tetrachloroethene (PCE), 1,1,1-Trichloroethane (1,1,1-TCA), Methylene Chloride.

Based on the TCE concentration of 349 µg/m^3 and the cis-1,2-DCE concentration of 278 µg/m^3 detected in the fabrication shop sub-slab sample SS001, the TCE concentration of 88.9 µg/m^3 detected in the gas meter room sub-slab sample SS004, and the TCE concentration of 108 µg/m^3 detected in the hallway sub-slab sample SS006, the NYSDOH guidance recommends mitigation in this structure.

Photos, the analytical report, DUSR, and questionnaire and building inventories from the SVI sampling are provided in the 2022 SVI Sampling Report (E & E 2022).

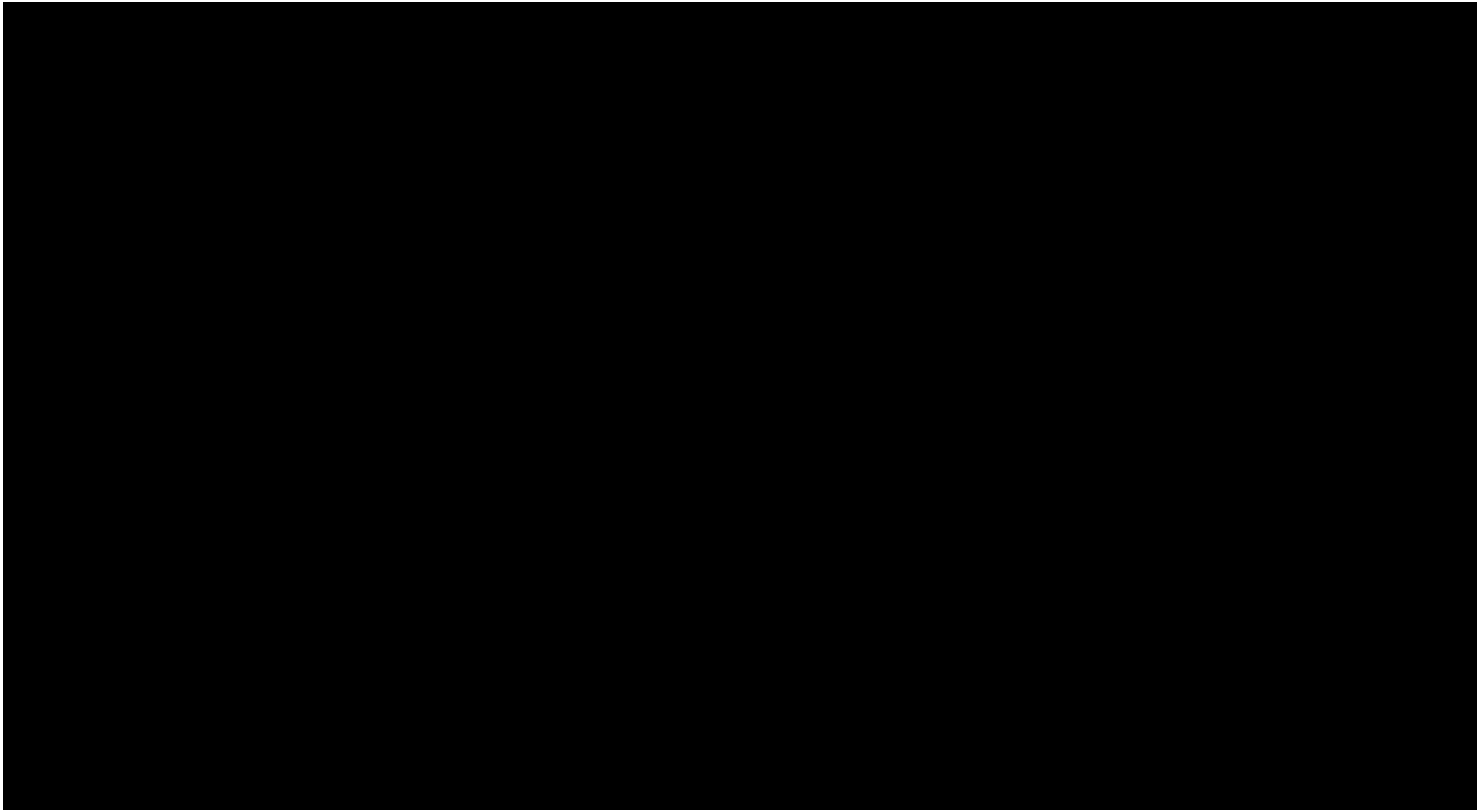


Figure 3-1 March 2022 SVI Sample Locations, [redacted] Rochester, New York

Table 3-1 Summary of Detected Analytical Results for SVI Samples, Davis Howland, Rochester, NY

Analyte	Screening Criteria [1]	Location ID: IA002-312022 / Sample Name: L1467303-02 / Date: 3/2/2022	IA003-312022 / L1467303-03 / 3/2/2022	IA005-312022 / L1467303-05 / 3/2/2022	IA007-312022 / L1467303-07 / 3/2/2022	OA008-312022 / L1467303-08 / 3/2/2022	SS001-312022 / L1467303-01 / 3/2/2022	SS004-312022 / L1467303-04 / 3/2/2022	SS006-312022 / L1467303-06 / 3/2/2022
Volatile Organic Compounds by Method TO-15 (µg/m^3)									
1,1,1-Trichloroethane (TCA)	NA	**0.455 J**	0.40 U	0.40 U	0.40 U	0.40 U	**81.6**	**4.05**	0.40 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	0.608 U	0.608 U	0.608 U	0.608 U	**0.609 J**	0.608 U	**0.92 J**	0.608 U
1,1-Dichloroethane	NA	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	**33.7**	**5.89**	**1.68**
1,2,4-Trimethylbenzene	NA	**16**	**2.26**	**16.4**	**1.3**	0.51 U	**2.48**	**3.64**	**5.89**
1,3,5-Trimethylbenzene (Mesitylene)	NA	**5.4**	**0.805 J**	**5.6**	**0.471 J**	0.382 U	**1.56**	**1.28**	**3.94**
2,2,4-Trimethylpentane	NA	**11.9**	**3.02**	**32.3**	**1.78**	0.621 U	0.621 U	**2.06**	0.621 U
Benzene	NA	**20.8**	**5.4**	**73.5**	**3.26**	**0.735**	0.228 U	**4.12**	0.228 U
Carbon Tetrachloride	NA	**0.559 J**	**0.838 J**	**0.534 J**	**0.562 J**	**0.601 J**	**1.37**	**0.737 J**	0.461 U
Chloromethane	NA	**1.2**	**1.25**	**1.19**	**1.14**	**1.15**	**0.25 J**	0.213 U	0.213 U
cis-1,2-Dichloroethene	NA	0.311 U	0.311 U	0.311 U	0.311 U	0.311 U	**278**	**15.1**	**31.5**
Cyclohexane	NA	**27.2**	**6.58**	**122**	**2.07**	0.259 U	0.259 U	**5.79**	**182**
Dichlorodifluoromethane	NA	**2.13**	**2.11**	**1.65**	**2.48**	**2.03**	**2.13**	0.678 U	0.678 U
Ethanol	NA	**115**	**130**	**45.6**	**70.7**	**12.8**	**23.2**	**101**	**54.5**
Ethylbenzene	NA	**8.8**	**3.62**	**33.6**	**1.66**	0.362 U	**3.54**	**9.32**	**11**
Methyl Ethyl Ketone (2-Butanone)	NA	**6.87**	**3.92**	**3.39 J**	**3.83**	**2.42 J**	**10**	**5.4**	0.24 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NA	0.313 U	0.313 U	0.313 U	0.313 U	0.313 U	**4.42 J**	**0.897 J**	0.313 U
Methylene Chloride	60	0.34 U	**7.22**	0.34 U	**1.88**	**0.767**	**0.604 J**	**37.5**	0.34 U
m,p-Xylene	NA	**41.3**	**12.4**	**115**	**5.72**	**1.17 J**	**15.6**	**40.1**	**46.4**
n-Hexane	NA	**52.2**	**16.5**	**287**	**5.25**	0.726 U	**10.8**	**17.8**	**190**
o-Xylene (1,2-Dimethylbenzene)	NA	**14.5**	**4.51**	**40.6**	**2.07**	**0.447 J**	**4.34**	**10.4**	**13.4**
Tert-Butyl Alcohol	NA	**0.991 J**	**0.518 J**	**0.306 J**	**0.394 J**	**0.223 J**	**1.01 J**	**1.71 J**	0.176 U
Tetrachloroethene (PCE)	30	0.553 U	0.553 U	0.553 U	0.553 U	0.553 U	**85.5**	**5.58**	**13**
Toluene	NA	**49**	**35.7**	**377**	**16.9**	**2.06**	**10.2**	**51.6**	**68.9**
trans-1,2-Dichloroethene	NA	0.267 U	0.267 U	0.267 U	**0.275 J**	0.267 U	**4.48**	**0.686 J**	**0.65 J**
Trichloroethene (TCE)	2	**1.2**	**1.16**	0.364 U	**0.465 J**	0.364 U	**349**	**88.9**	**108**
Trichlorofluoromethane	NA	**2.57**	**2.32**	**2**	**2.98**	**1.5**	**10.2**	**1.5**	**4.18**

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

Notes:

N/A = Not regulated/no available criteria

Other

µg/m^3 = Micrograms per meter cubed

Bold values denote positive hits.

Exceeds soil vapor intrusion ambient air guideline.

1. New York State Department of Health, Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006 and subsequent updates.

4 General Status of Remedial Systems

4.1 Sub-slab Depressurization Systems

As part of E & E's scope of work for the Site, monitoring of the SSD systems was not required; however, during the annual groundwater sampling conducted in November 2022, E& E noted that the four SSD fans appeared to be running. Per the Orders, SSD system operation and maintenance are the responsibilities of the property owner. Therefore, conclusions as to their operation and effectiveness cannot be made for the reporting year of 2022.

4.2 Groundwater Monitoring Well Obstruction Removal Activities - MW-2R and MW-8R

E & E had observed downhole obstructions in MW-2R and MW-8R during the 2021 annual/nine-month post-injection groundwater sampling event. The obstruction in MW-2R was encountered at a depth of approximately 16 feet. Multiple obstructions were identified in MW-8R, including a brick near the surface and another obstruction at a depth of approximately 14.5 feet.

On January 27, 2022, Earth Dimensions, who was subcontracted by NYSDEC call-out contractor, GES, attempted removal of the down-hole obstructions in MW-2R and MW-8R. E & E was on site to observe the field activities.

Earth Dimensions used a roller bit to drill through the obstruction in MW-8R and GES redeveloped the well. A total of approximately 50 gallons of groundwater was removed from MW-8R during well development and was containerized in the poly tank staged on site.

Earth Dimensions attempted to remove the obstruction in MW-2R with a roller bit. However, a bend approximately 4 feet below ground surface (bgs) in the well where the riser changes from schedule (sch) 40 PVC to sch 80 PVC prevented the roller bit from extending deeper into the well. Pressurized water was then used in an attempt to free the obstruction and Earth Dimensions was able to advance a 1-inch diameter PVC tremie rod and a weighted tape to the bottom of the well (approximately 31 feet bgs).

After Earth Dimensions left the site, GES attempted to redevelop MW-2R, but was unable to advance the water level meter or groundwater pump past 16.8 feet bgs, which prevented GES from redeveloping MW-2R. After discussions between NYSDEC and E & E, it was determined that a 1-inch PVC riser could be installed past the obstruction and a small diameter pump could be passed through the rod to sample MW-2R.

4.2 Groundwater Monitoring Well Network Inspection

E & E conducted inspections of the overburden and bedrock groundwater monitoring wells and piezometers in November 2022. The purpose of these inspections was to document the physical condition of the wells and identify maintenance actions required to keep the groundwater monitoring well network operational for sampling purposes. A summary of the 2022 monitoring well inspection findings is presented in Table 4-1.

Table 4-1 Summary of 2022 Well Inspection, Davis-Howland Oil Corporation Site

Well Identification	Date Inspection Documented	Well Casing ID (inches)	2022 Inspection Observations (revised)
MW-1S	11/2/2022	2	No issues noted.
MW-2S	11/3/2022	2	Surrounded by granite blocks and debris; difficult to tell condition.
MW-9S	10/31/2022	2	Missing bolts; curb box filled with dirt.
MW-13S	11/4/2022	2	No issues noted.
MW-14S	11/3/2022	2	Threads on curb box are stripped.
MW-2R	11/3/2022	4	Small PVC required to bypass obstruction; small bladder pump required; missing J plug.
MW-5R	11/1/2022	4	No issues noted.
MW-8R	11/1/2022	4	Missing bolts; threads on one side of curb box are stripped; bolt bracket is missing on other side.
MW-10R	11/2/2022	4	No issues noted.
MW-14R	11/3/2022	4	Missing well cover.
MW-15R	11/2/2022	4	No issues noted.
MW-16R	11/2/2022	4	Curb box damaged.
MW-17R	11/2/2022	4	Well name is not visible on well cover.
IW-01	11/1/2022	4	Well name is not visible on well cover.
PZ-1	11/4/2022	1	Bolts are stripped.
PZ-2	11/3/2022	1	Bolts are stripped.
PZ-3	11/1/2022	1	Missing bolts; debris in curb box.
PZ-4	11/2/2022	1	No issues noted.
PW-1	11/4/2022	6	No issues noted.

Key:

ID = inner diameter

5 2022 Groundwater Sampling Summary

This section discusses the groundwater monitoring activities performed at the Site in 2022 and compares the results to historical data.

Field activities were conducted according to the Groundwater Monitoring and Long-term Well Sampling Procedures included as Appendix J of the Final SMP (EEEPC 2020a). Sampling locations are identified on Figure 1-2.

5.1 Field Activities

5.1.1 Monitoring Well Sampling

The 2022 groundwater monitoring activities included collection of groundwater samples at four bedrock monitoring wells (IW-01, MW-2R, MW-8R, and MW-17R) on February 15 and February 16, 2022. Samples were collected from MW-2R and MW-8R since samples were not able to be collected from these wells due to downhole obstructions during the nine-month post-injection sampling event which was conducted concurrently with the 2021 annual sampling event in August 2021. Therefore, this February 2022 sampling event served as a follow-up to the nine-month post-injection / 2021 annual sampling event in August 2021. Samples were also collected from IW-01 and MW-17R during this February 2022 sampling event since samples were needed from MW-8R, MW-17R, and IW-01 during the same sampling event to complete the post-injection monitoring for the in situ chem-ox pilot study that was conducted in October 2020. Samples were analyzed for VOCs; samples from IW-01, MW-8R, and MW-17R were also analyzed for alkalinity and sulfate.

The 2022 annual groundwater sampling event was conducted from November 1, 2022, through November 4, 2022. Groundwater samples were collected from four piezometers (PZ-1, PZ-2, PZ-3, and PZ-4), five overburden monitoring wells (MW-1S, MW-2S, MW-9S, MW-13S, and MW-14S), and ten bedrock monitoring wells (IW-01, PW-1, MW-2R, MW-5R, MW-8R, MW-10R, MW-14R, MW-15R, MW-16R, and MW-17R).

Prior to purging, static water levels were measured to the nearest 0.01 foot in each monitoring well using an electronic water-level indicator. The water level and total depth of each well were recorded (see Tables 5-1 and 5-2). The suffix “R” in a monitoring well designation (for example, MW-2R) denotes a bedrock well, and the suffix “S” denotes a monitoring well that is screened in the shallow overburden groundwater zone.

Monitoring wells were sampled using the EPA low-flow sampling procedure (EPA 1998) with a QED bladder pump with new high-density polyethylene (HDPE) tubing. Dedicated poly bailers were used to purge water where the water level could not be maintained for low-flow procedures. Each well was considered adequately purged and ready for sampling when water level and water quality parameters stabilized, indicating fresh aquifer water was being removed from the well; or if the well was purged dry, after the well had sufficiently recharged to allow sample collection. Measurements of temperature, pH, conductivity, turbidity, DO, and ORP were recorded at regular intervals throughout the well-purging process and immediately prior to sampling. The final groundwater quality field measurements are presented in Tables 5-3, and 5-4. Appendix A presents copies of the monitoring well purge records for the two sampling events.

Non-dedicated sampling equipment was decontaminated in accordance with the groundwater monitoring and long-term well sampling procedures included as Appendix J of the SMP. The bladder in the QED bladder pump was replaced between each well. Purged and decontamination water were handled according to procedures outlined in Section 5.1.3.

Upon collection, samples were labeled and immediately placed in a cooler maintained with ice at approximately 4 degrees Celsius. The groundwater samples and chain-of-custody documents were submitted to NYSDEC's call-out laboratory, Pace Analytical for VOC analyses.

5.1.2 Quality Assurance/Quality Control Review

In addition to the normal field samples, quality assurance/quality control samples were collected. Trip blanks for VOC analysis accompanied each shipment to check for the possible introduction of VOCs from the time the samples were collected to the time they were analyzed. One field (equipment/rinsate) blank was collected for VOC analysis during each sampling event. The samples consisted of contaminant-free distilled water that was poured over a decontaminated bladder pump to check the thoroughness of decontamination procedures and to identify cross-contamination of samples.

To check consistency in sample collection, one duplicate sample was collected during each event. The samples consisted of aliquots of sample media placed in separate sample containers and labeled as separate samples. Additionally, extra volume for matrix spike/matrix spike duplicate (MS/MSD) analyses were collected to simulate the background effect and interferences found in the actual samples. The calculated percent recovery of the spike is used as a measure of the accuracy of the analytical method in the sample matrix, and the relative percent deviation between the recoveries of each spiked sample is used to measure the precision of the analytical method. Field duplicates and MS/MSD samples are typically collected at a rate of one per 20 field samples per the Master Quality Assurance Project Plan (E & E 2020c).

Table 5-1 February 2022 Groundwater Elevations
Davis-Howland Oil Corporation Site

Well ID	Measurement Date	Measured Total Depth (feet TOIC)	Ground Elevation (feet AMSL)	TOIC Elevation (feet AMSL)	Depth to Water (feet TOIC)	Groundwater Elevation (feet AMSL)
MW-2R	2/15/2022	30.02	497.72	497.54	21.35	476.19
MW-8R	2/16/2022	35.6	498.09	497.64	18.24	479.4
MW-17R	2/16/2022	36.19	497.81	497.43	22.97	474.46
IW-01	2/15/2022	37.39	497.99	497.66	23.12	474.54

Key:

AMSL = above mean sea level

MW = monitoring well

TOIC = top of inner casing

Table 5-2 November 2022 Annual Groundwater Elevations
Davis-Howland Oil Corporation Site

Well ID	Measurement Date	Measured Total Depth (feet TOIC)	Ground Elevation (feet AMSL)	TOIC Elevation (feet AMSL)	Depth to Water (feet TOIC)	Groundwater Elevation (feet AMSL)
Overburden Wells						
MW-1S	11/2/2022	17.96	500.23	499.72	14.75	484.97
MW-2S	11/3/2022	14.01	496.03	497.48	8.98	488.50
MW-9S	11/1/2022	15.92	497.94	498.01	8.57	489.44
MW-13S	11/4/2022	13.75	496.24	496.95	6.93	490.02
MW-14S	11/3/2022	12.95	495.48	495.16	7.07	488.09
PZ-1	11/4/2022	12.20	497.21	496.92	6.80	490.12
PZ-2	11/3/2022	12.55	497.13	496.87	7.05	489.82
PZ-3	11/1/2022	13.51	497.87	497.56	7.73	489.83
PZ-4	11/2/2022	11.48	497.76	497.22	7.40	489.82
Bedrock Wells						
MW-2R	11/3/2022	27.4	497.72	497.54	20.00	477.54
MW-5R	11/1/2022	34.73	498.63	498.23	16.15	482.08
MW-8R	11/1/2022	34.64	498.09	497.64	18.23	479.41
MW-10R	11/2/2022	35.6	497.81	497.44	21.03	476.41
MW-14R	11/3/2022	33.78	495.44	495.18	13.00	482.18
MW-15R	11/2/2022	30.3	494.5	494.14	17.21	476.93
MW-16R	11/2/2022	31.1	493.43	493.04	20.45	472.59
MW-17R	11/2/2022	36.35	497.81	497.43	24.74	472.69
IW-01	11/1/2022	37.26	497.99	497.66	25.96	471.7
PW-1	11/4/2022	29.41	498.02	494.41	12.70	481.71

Key:
AMSL = Above mean sea level.
MW = Monitoring well.
TOIC = Top of inner casing.

Table 5-3 February 2022 Groundwater Quality Field Measurements, Davis-Howland Oil Corporation Site

Well ID	Measurement Date	pH (s.u.)	Temperature (°C)	ORP (mV)	Conductivity (mS/cm)	DO (mg/L)	Unfiltered Turbidity (NTU)
MW-2R	2/15/2022	7.65	4.2	163.6	0.34	6.70	27.36
MW-8R	2/16/2022	6.81	12.6	189.6	1.60	2.20	2.33
MW-17R	2/16/2022	7.24	12.2	16.7	0.97	1.67	0.44
IW-01	2/15/2022	7.11	13.1	103.5	1.35	1.44	0.60

Key:

°C = degrees Celsius

DO = dissolved oxygen

mV = millivolts

mS/cm = millisiemens per centimeter

NTU = nephelometric turbidity unit

ORP = oxygen reduction potential

s.u. = standard units

Table 5-4 November 2022 Annual Groundwater Quality Field Measurements
Davis-Howland Oil Corporation Site

Well ID	Measurement Date	pH (s.u.)	Temperature (°C)	ORP (mV)	Conductivity (mS/cm)	DO (mg/L)	Unfiltered Turbidity (NTU)
Overburden Wells							
MW-1S	11/2/2022	6.1	14.56	52	1.55	1.22	3.5
MW-2S	11/3/2022	6.48	14.4	-66	1.02	4.67	0.0
MW-9S	11/1/2022	7.96	17.13	84.00	1.69	0.44	7.0
MW-13S	11/4/2022	6.11	13.77	18.1	0.80	10.91	37.50
MW-14S	11/3/2022	6.69	16.26	-39	0.77	1.12	65.8
PZ-1	11/4/2022	6.99	15.37	39	1.43	10.81	1000+
PZ-2	11/3/2022	7.25	16.21	2	1.02	8.81	1000+
PZ-3	11/1/2022	8.06	18.28	119.00	0	0	223
PZ-4	11/2/2022	6.55	16.99	-90	1.66	0.48	--
Bedrock Wells							
MW-2R	11/3/2022	6.63	18.77	-40	0.12	7.62	0.0
MW-5R	11/1/2022	7.51	15.04	-43	1.12	0.89	6.7
MW-8R	11/1/2022	7.85	14.71	60	1.11	5.7	22.9
MW-10R	11/2/2022	6.65	14.36	-15	1.19	0.52	0
MW-14R	11/3/2022	7.08	15.29	-95	0.776	0.85	0
MW-15R	11/2/2022	6.5	13.74	-92	1.18	0.7	0
MW-16R	11/2/2022	6.78	12.86	-27	1.18	1.09	0
MW-17R	11/2/2022	6.96	14.41	-61	1.09	0.87	0
IW-01	11/1/2022	8.26	14.96	-62	1.28	1.36	1.8
PW-1	11/4/2022	7.17	15.79	-52	1.07	1.06	0

Key:

°C = degrees Celsius.

DO = dissolved oxygen

mV = millivolts

mS/cm = millisiemens) per centimeter.

NTU = nephelometric turbidity unit.

ORP = oxygen reduction potential

s.u. = standard units.

-- = Data not applicable or not obtained for these wells.

Analytical data were reviewed by an E & E chemist and Data Usability Summary Reports (DUSRs) were prepared (see Appendix B). Data qualifiers were applied as described in the DUSRs and incorporated into the data summary tables. No significant issues were identified, and the analytical data is considered usable for the intended purpose.

5.1.3 Investigation-Derived Waste Management

IDW generated during these investigations was handled according to procedures outlined in E & E's Groundwater Sampling Procedures. Three types of IDW were generated during each event: purged groundwater, decontamination water, and expendable materials, including PPE. Approximately 70 gallons of purge water from the redevelopment of MW-8R in January 2022 and from the February 2022 groundwater sampling event were containerized in the poly tank staged at the site. A sample was collected on October 21, 2022 and submitted to Pace Analytical for VOC analyses. On October 28, 2022, approval was granted by Monroe County, in accordance with the County of Monroe Sewer Use Permit (see Appendix C), to discharge the water into an approved discharge location inside the building at 190 Anderson Avenue, Rochester, New York. The tenant at that address informed E & E that the back door of the premises had been barricaded due to a recent break-in. The discharge location is accessed through that door; therefore, the water from the poly tank could not be discharged during the November 2022 sampling event. Since NYSDEC's callout contractor, GES, was expected to pick up the poly tank for offsite disposal in the upcoming weeks, E & E transferred the water from the poly tank into two 55-gallon drums.

Approximately 60 gallons of IDW water from the annual sampling event is stored on site in two 55-gallon drums. A sample of the purge water was collected on November 4, 2022 and submitted to Pace Analytcal for VOC analyses. On December 8, 2022, approval was granted by Monroe County to discharge the water into the discharge location inside the building at 190 Anderson Avenue, Rochester, New York.

Overall, there are four 55-gallon drums that contain a total of approximately 130 gallons of purge water are staged at the site. The water has been sampled, analyzed for VOCs, and approved for on site discharge by the County. Discharge of the water will be scheduled when the tenant at 190 Anderson Avenue informs E & E that the door is repaired. E & E's requests to the County to discharge the purge water on site are provided in Appendix D.

Expendable PPE (including gloves) generated during groundwater sampling was bagged and removed from the Site for disposal as nonhazardous solid waste.

5.2 Site Hydrogeology

The Site is situated on alluvial organic silt and sand overlaying glacial till deposits and lacustrine sand and silt of varying thickness. Bedrock beneath the Site is the Penfield Dolostone of the Middle Silurian Lockport Group and is encountered at depths of about 15 to 27 feet.

Two groundwater aquifers have been identified beneath the Site: a shallow overburden aquifer and an upper bedrock aquifer. These aquifers are not listed by the EPA as sole-source aquifers (Lawler, Matusky & Skelly Engineers, LLP, and Galson/Lozier Engineers 1996). A summary description of each water-bearing zone is provided below.

5.2.1 Overburden Aquifer

Figure 5-1 shows the overburden groundwater elevation isopleths, which were modeled from the groundwater elevations measured during the November 2022 sampling event. In November 2022, the overburden groundwater flow was primarily to the south.

5.2.2 Bedrock Aquifer

Figure 5-3 shows the bedrock groundwater elevation isopleths, which were modeled from the groundwater elevations measured during the November 2022 sampling event. In November 2022, the regional bedrock groundwater flow direction was generally to the south across the Site. There appears to be a groundwater sink (lower groundwater elevation) around MW-17R.

5.3 Analytical Results

This subsection presents the analytical results for the 2022 annual overburden and bedrock groundwater samples collected in November 2022 and for the February 2022 bedrock groundwater samples collected at the DHOC Site and compares them to historical results. The laboratory results for VOCs detected in overburden monitoring wells and piezometers sampled during the November 2022 annual sampling event are presented in Table 5-5, and the laboratory results for VOCs detected in bedrock monitoring wells samples during the February 2022 and the November 2022 annual sampling event are presented in Table 5-6 and 5-7. Groundwater sample results discussed in the following subsection were compared to the NYSDEC Class GA groundwater standards and guidance values (NYSDEC 1998). The laboratory reports for the sampling events are provided in Appendix E.

5.3.1 Overburden Groundwater Results

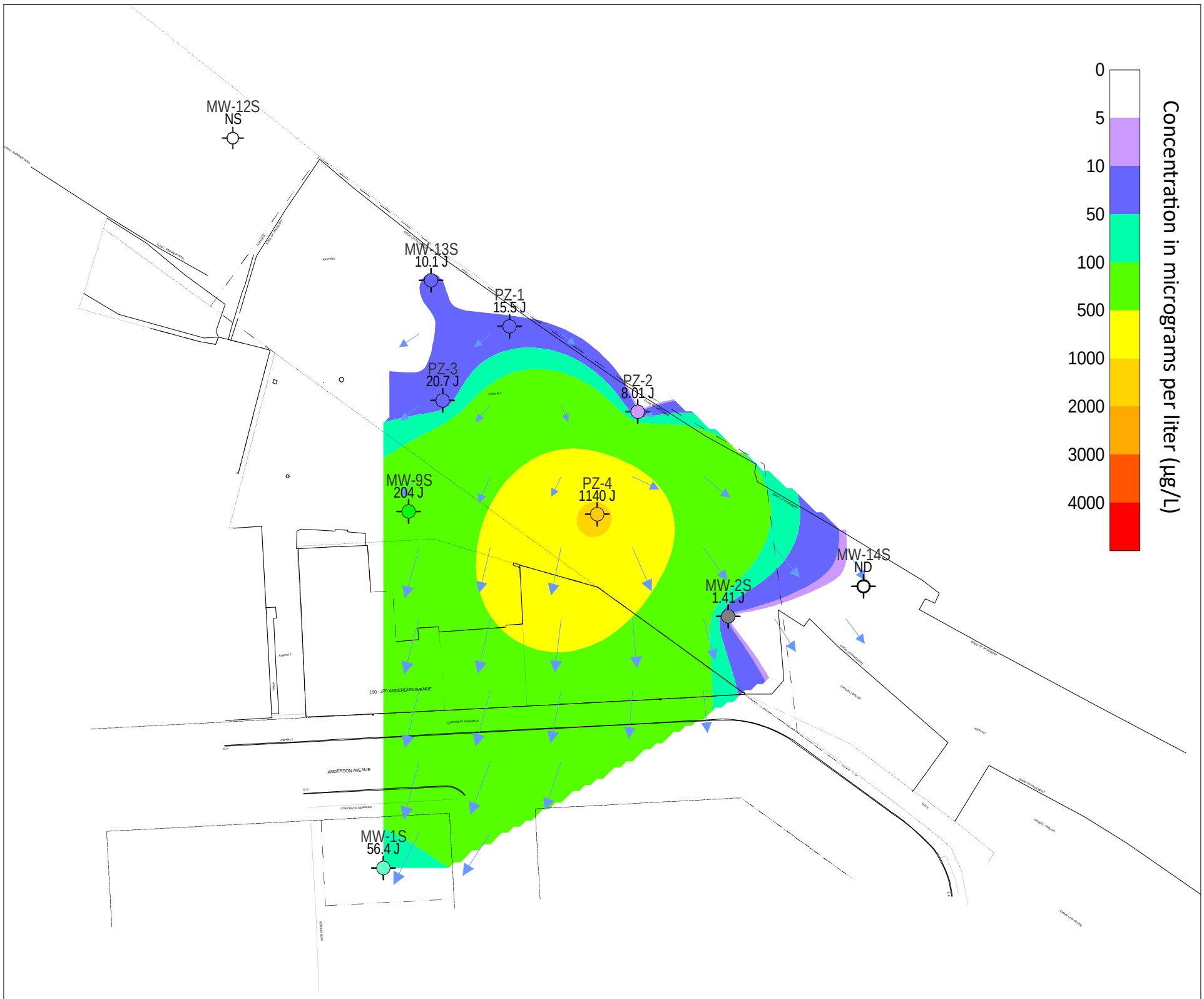
November 2022 Annual Sampling

Twelve VOCs were detected in one or more groundwater samples collected from overburden wells. The majority of these compounds are chlorinated aliphatic (straight-chained) VOCs (cVOCs), including tetrachloroethylene (PCE); trichloroethene (TCE); 1,1,1-trichloroethane (TCA), and their degradation byproducts. Chloroform was also detected in one well (MW-9S) at low concentration.

Total VOC Concentrations (µg/L) in Overburden Groundwater November 2022

Scale in Feet
0 70 140 210

N



Notes:
- J = estimated value
- ND = not detected
- NS = not sampled
- VOC = volatile organic compound
- µg/L = micrograms per liter

Legend
- Groundwater Flow Direction (November 2022)

ecology and environment
engineering and geology, p.c.

FIGURE 5-1
Total VOCs in Overburden Groundwater
November 2022
Davis-Howland Oil Corporation Site
Rochester, New York

Table 5-5 Summary of November 2022 Annual Detected VOC Analytical Results for Groundwater Samples from Overburden Monitoring Wells, Davis-Howland Oil Corporation Site, Rochester, NY

Analyte	Location ID:	MW-13S	MW-14S	MW-1S	MW-2S	MW-9S	PZ-01	PZ-02	PZ-03	PZ-03	PZ-04
	Sample Name:	MW-13S-110422	MW-14S-110322	MW-1S-110222	MW-2S-110322	MW-9S-110122	PZ-01-110422	PZ-02-110322	PZ-03-110122	PZ-03-110122-Q	PZ-04-110422
	Depth:	3.5 - 13 ft	2.1 - 13 ft	12 - 22 ft	5.4 - 14 ft	4.9 - 16 ft	7.9 - 29 ft	0 - 13 ft	4.5 - 13 ft	4.5 - 13 ft	4 - 11 ft
	Date:	11/04/22	11/03/22	11/02/22	11/03/22	11/01/22	11/04/22	11/03/22	11/01/22	11/01/22	11/04/22
	Screening Criteria [1]										
Volatile Organic Compounds by EPA Method 624.1 (µg/L)											
1,1,1-Trichloroethane (TCA)	5	0.169 U	0.169 U	**1.80 J**	0.169 U	**7.88**	0.169 U	**0.900 J**	**0.710 J**	**0.770 J**	**34.7**
1,1,2-Trichloroethane	1	0.183 U	0.183 U	0.183 U	0.183 U	**0.400 J**	0.183 U	0.183 U	0.183 U	0.183 U	0.73 U
1,1-Dichloroethane	5	**0.470 J**	0.142 U	**1.76 J**	**0.930 J**	**67.1**	**0.310 J**	**0.720 J**	**5.43**	**3.69**	**28.6**
1,1-Dichloroethene	5	0.141 U	0.141 U	**0.640 J**	0.141 U	**0.680 J**	**0.280 J**	0.141 U	**0.190 J**	**0.210 J**	**6.76 J**
1,2-Dichlorobenzene	3	0.122 U	0.122 U	0.122 U	0.122 U	**0.620 J**	0.122 U	0.122 U	0.122 U	0.122 U	0.487 U
Chloroform	7	0.168 U	0.168 U	0.168 U	0.168 U	**0.590 J**	0.168 U	0.168 U	0.168 U	0.168 U	0.67 U
Cis-1,2-Dichlorothylene	5	**7.58**	0.147 U	**30.1**	**0.480 J**	**39.9**	**8.21**	**3.55**	**9.59**	**10.5**	**724**
Methylene Chloride	5	0.235 U	0.235 U	0.235 U	0.235 U	0.235 U	**0.300 J**	0.235 U	**0.260 J**	0.235 U	0.939 U
Tetrachloroethylene (PCE)	5	0.187 U	0.187 U	**2.71**	0.187 U	**31.0**	0.187 U	**0.960 J**	0.187 U	**0.270 J**	**8.08**
Trans-1,2-Dichloroethene	5	0.169 U	0.169 U	0.169 U	0.169 U	**8.58**	**0.420 J**	0.169 U	**0.680 J**	**0.660 J**	**7.48 J**
Trichloroethylene (TCE)	5	**0.700 J**	0.189 U	**19.4**	0.189 U	**41.0**	**4.86**	**1.88 J**	**1.64 J**	**1.88 J**	**248**
Vinyl Chloride	2	**1.38 J**	0.208 UJ	0.208 UJ	0.208 UJ	**6.18 J**	**1.09 J**	0.208 UJ	**2.17 J**	**2.59 J**	**79.8 J**
Total VOCs		**10.1 J**	**1.54 U**	**56.4 J**	**1.41 J**	**204 J**	**15.5 J**	**8.01 J**	**20.7 J**	**20.6 J**	**1140 J**

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

UJ = Not detected/estimated detection limit

Other

µg/L = Micrograms per liter

"-Q" denotes field duplicate sample

Bold values denote positive hits.

Exceeds groundwater standard.

1. New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations,* 1998 (with updates), Class GA Groundwater Standards and Guidance Values.

Source: Ecology and Environment Engineering, P.C. 2015

Table 5-6 Summary of February 2022 Detected VOC, Alkalinity, and Sulfate Analytical Results for Groundwater Samples from Bedrock Monitoring Wells, Davis-Howland Oil Corporation Site, Rochester, NY

Analyte	Location ID: / Sample Name: / Depth: / Date: / Screening Criteria [1]	IW-01 / IW-01-02152022 / 23 - 37 ft / 02/15/22	MW-17R / 02162022 / 26 - 37 ft / 02/16/22	MW-2R / MW-2R-02152022 / 21 - 28 ft / 02/15/22	MW-8R / MW-8R-02162022 / 20 - 38 ft / 02/16/22	MW-8R / MW8R-02162022-Q / 20 - 38 ft / 02/16/22
Alkalinity by Standard Method 2320B (mg/L)						
Lime (As Calcium Carbonate)	N/A	**340**	**280**	--	**340**	**330**
Sulfate by EPA Method 300.0 (mg/L)						
Sulfate (As SO4)	250	**190 J**	**110**	--	**230**	**210**
Volatile Organic Compounds by Method 8260C (µg/L)						
1,1,1-Trichloroethane (TCA)	5	**1.4 J**	0.84 U	0.17 U	0.34 U	0.34 U
1,1-Dichloroethane	5	**15**	**25**	**1.0**	**14**	**14**
1,1-Dichloroethene	5	**5.4**	**9.0**	**0.21 J**	**2.1**	**2.1**
Acetone	50	4.1 U	10 U	**65**	4.1 U	4.1 U
Benzene	1	0.40 U	1.0 U	0.20 U	**0.68 J**	**0.64 J**
cis-1,2-Dichloroethene	5	**250**	**580**	**27**	**190**	**180**
Ethylbenzene	5	0.43 U	1.1 U	0.21 U	**7.0**	**6.6**
m,p-Xylene	5	0.92 U	2.3 U	0.46 U	**220**	**210**
Methyl Ethyl Ketone (2-Butanone)	50	3.2 U	**45 J**	1.6 U	3.2 U	3.2 U
Methylene Chloride	5	0.47 U	**2.8 J**	0.23 U	0.47 U	0.47 U
O-Xylene (1,2-Dimethylbenzene)	5	0.46 U	1.1 U	0.23 U	**83**	**79**
Styrene	5	0.21 U	0.53 U	0.11 U	**0.22 J**	0.21 U
Tetrachloroethene (PCE)	5	0.37 U	**2.0 J**	0.19 U	**0.46 J**	**0.44 J**
trans-1,2-Dichloroethene	5	**2.2**	**6.3**	**0.70 J**	**5.3**	**5.4**
Trichloroethene (TCE)	5	**6.7**	**34**	0.19 U	**5.9**	**5.9**
Vinyl Chloride	2	**28**	**52**	**6.5**	**4.4**	**4.2**
TOTAL VOCs		**310**	**760**	**100**	**530**	**510**

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

Notes

N/A = Not regulated/no available criteria

-- = Analyte not analyzed

Other

µg/L = Micrograms per liter

mg/L = Milligrams per liter

"-Q" denotes field duplicate sample

Bold values denote positive hits.

Shaded values exceed groundwater screening criteria.

1. 2021 Addendum to New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, 1998 (with updates), Class GA Groundwater

Source: Ecology and Environment Engineering, P.C. 2015

Table 5-7 Summary of November 2022 Detected VOC Analytical Results for Groundwater Samples from Bedrock Monitoring Wells, Davis-Howland Oil Corporation Site, Rochester, NY

Analyte	Location ID:	IW-01	MW-10R	MW-14R	MW-15R	MW-16R	MW-17R	MW-2R	MW-5R	MW-8R	PW-1
	Sample Name:	IW-01-110122	MW-10R-110222	MW-14R-110322	MW-15R-110222	MW-16R-110222	MW-17R-110222	MW-2R-110322	MW-5R-110122	MW-8R-110122	PW-1-110422
	Depth:	23 - 37 ft	19 - 37 ft	6.1 - 24 ft	15 - 32 ft	20 - 33 ft	26 - 37 ft	21 - 28 ft	12 - 35 ft	20 - 38 ft	7.9 - 29 ft
	Date:	11/01/22	11/02/22	11/03/22	11/02/22	11/02/22	11/02/22	11/03/22	11/01/22	11/01/22	11/04/22
	Screening Criteria [1]										
Volatile Organic Compounds by EPA Method 624.1 (µg/L)											
1,1,1-Trichloroethane (TCA)	5	0.845 U	**6.32**	0.169 U	0.169 U	0.845 U	0.676 U	0.169 U	0.676 U	0.338 U	0.676 U
1,1-Dichloroethane	5	**16.7**	**1.24 J**	0.142 U	0.142 U	**5.55 J**	**28.3**	0.142 U	**20.9**	**9.36**	**10.3**
1,1-Dichloroethene	5	**6.00 J**	**2.40 J**	0.141 U	0.141 U	**1.60 J**	**8.80**	0.141 U	**3.12 J**	**2.28 J**	**2.16 J**
Benzene	1	0.999 U	0.40 U	0.20 U	0.20 U	0.999 U	**0.920 J**	0.20 U	**1.72 J**	0.40 U	0.799 U
Chloroform	7	0.838 U	**3.52 J**	0.168 U	0.168 U	0.838 U	0.67 U	0.168 U	0.67 U	0.335 U	0.67 U
Cis-1,2-Dichlorothylene	5	**346**	**2.86**	**6.37**	**9.38**	**106**	**643**	**1.23**	**430**	**192**	**127**
Methylene Chloride	5	1.17 U	0.47 U	0.235 U	0.32 U	1.17 U	0.939 U	**0.270 J**	0.939 U	0.47 U	0.939 U
Tetrachloroethylene (PCE)	5	0.935 U	**3.02 J**	0.187 U	0.187 U	0.935 U	**1.52 J**	0.187 U	0.748 U	0.374 U	0.748 U
Toluene	5	1.12 U	0.448 U	0.224 U	0.224 U	1.12 U	**1.40 J**	**12.7**	0.897 U	0.448 U	0.897 U
Trans-1,2-Dichloroethene	5	**3.25 J**	0.337 U	0.169 U	**1.58 J**	0.843 U	**5.08 J**	0.169 U	**7.72 J**	**3.70 J**	**5.28 J**
Trichloroethylene (TCE)	5	**5.10 J**	**271**	**0.470 J**	**0.780 J**	0.947 U	**33.0**	0.189 U	**11.6**	**3.68 J**	**10.8**
Vinyl Chloride	2	**125 J**	0.415 UJ	**7.41 J**	**3.44 J**	**78.9 J**	**182 J**	**1.02 J**	**107 J**	**99.6 J**	**46.0 J**
Total VOCs		**502 J**	**290 J**	**14.2 J**	**15.2 J**	**192 J**	**904 J**	**15.2 J**	**582 J**	**311 J**	**202 J**

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

UJ = Not detected/estimated detection limit

Other

µg/L = Micrograms per liter

Bold values denote positive hits.

Exceeds groundwater standard.

Series Memorandum #1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater*

Source: Ecology and Environment Engineering, P.C. 2015

Eight VOCs were detected in one or more overburden monitoring wells at concentrations exceeding NYSDEC Class GA groundwater standards. These compounds are shaded in Table 5-5. The concentrations of VOCs in overburden groundwater were highest in PZ-04. The total concentration of VOCs was approximately 1,140 µg/L in PZ-04. The primary contributors to this total concentration were TCE (248 µg/L), cis-1,2-DCE (724 µg/L), and vinyl chloride (79.8 µg/L), with detections of 1,1,1-TCA, 1,1-dichloroethane, 1,1-dichloroethene, PCE, and trans-1,2-DCE also exceeding NYSDEC Class GA groundwater standards.

5.3.2 Bedrock Groundwater Results

February 2022 Sampling

Sixteen VOCs were detected in one or more groundwater samples collected from the four bedrock monitoring wells that were sampled in February 2022. The majority of these are cVOCs (PCE, TCE, and their degradation byproducts). Acetone was also detected in MW-2R, methylene chloride and 2-Butanone were detected in MW-17R, and benzene, ethylbenzene, m,p-xylene, o-xylene, and styrene were detected in MW-8R.

The detected concentrations of ten VOCs exceeded NYSDEC Class GA groundwater standards in at least one well. These compounds are shaded in Table 5-6. The highest concentrations of VOCs were detected in samples from MW-17R, with the total sum of VOCs approximately 760 µg/L. Ethylbenzene, m,p-xylene, and o-xylene exceeded groundwater standards in MW-8R. The presence of these compounds in MW-8R during this sampling event is believed to be due to the down-hole obstructions that were removed in January 2022; these compounds were not detected in bedrock groundwater during the following November 2022 sampling event.

The 2022 concentration isopleths of VOCs in the bedrock groundwater samples are presented on Figure 5-2.

November 2022 Annual Sampling

Twelve VOCs were detected in one or more of the groundwater samples collected from bedrock monitoring wells during the 2022 annual sampling event. The majority of these compounds are cVOCs (TCA, PCE, TCE, and their degradation byproducts). Benzene was detected in MW-5R and MW-17R, chloroform was detected in MW-10R at a low concentration, and methylene chloride was detected in MW-2R.

The concentrations of nine detected VOCs exceeded NYSDEC Class GA groundwater standards in at least one well. These compounds are shaded in Table 5-7. The highest concentrations of VOCs were detected in samples from MW-17R, with the total sum of VOCs approximately 900 µg/L.

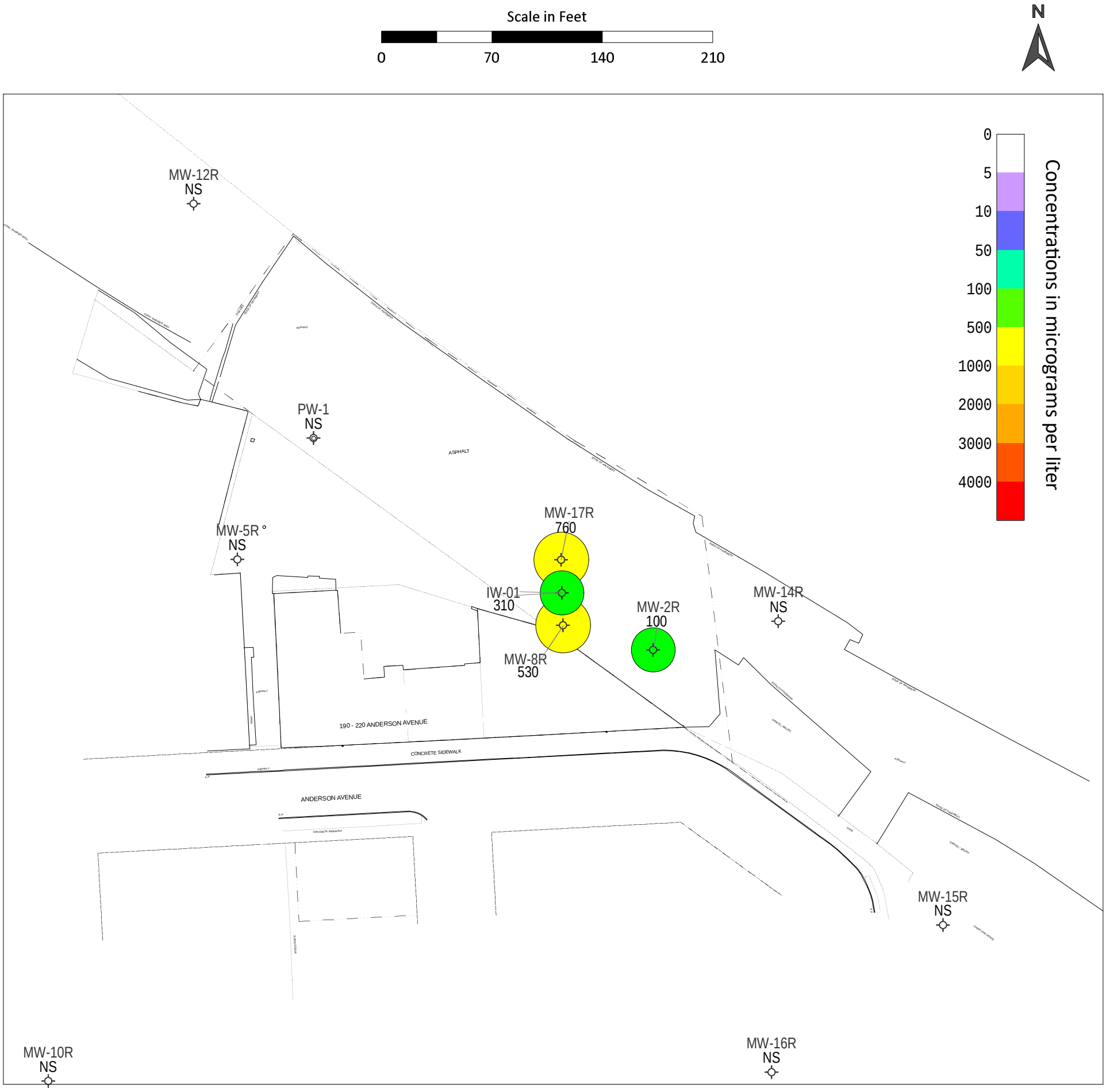
The 2022 annual concentration isopleths of VOCs in the bedrock groundwater samples are presented on Figure 5-3.

5.3.3 Comparison with Historical Analytical Data

Table 5-8 presents historical cVOC results. The following is a summary of the findings:

- **cVOCs in overburden groundwater.** Overall, cVOC concentrations in the overburden wells have decreased significantly since 1997 and 1998. The highest concentrations of cVOCs were detected in 1998 (15,000 µg/L in MW-9S and 40,000 µg/L in MW-13S). In November 2022, the highest concentrations of cVOCs detected in the overburden occurred in PZ-04 (1,140 µg/L) and MW-9S (204 µg/L). The cVOC concentrations detected in the remaining overburden wells in November 2022 were less than 60 µg/L.
- **cVOCs in bedrock groundwater.** Overall, cVOC concentrations in most bedrock wells have decreased since 1997, when significant concentrations (>1,000 µg/L) were detected in six of the nine wells sampled that year (MW-2R, MW-3R, MW-5R, MW-8R, MW-10R, and MW-16R). The highest concentration of cVOCs detected in bedrock groundwater in 1997 was 5,200 µg/L in MW-5R. The cVOC concentrations have generally decreased since then except in MW-8R where the total cVOC concentration peaked at 14, 000 µg/L in 2010. In 2020, the total cVOC concentration in MW-8R was 4,700 µg/L, due primarily to dichloroethylenes and vinyl chloride. After the chem-ox pilot study treatment was conducted in October 2020, the total cVOC concentration in MW-8R decreased to 240 µg/L in December 2020, and was 311 µg/L in November 2022. In November 2022, the highest concentrations of total VOCs detected in the bedrock groundwater occurred in MW-5R and MW-17R. The total cVOC concentration in MW-5R decreased from 720 µg/L in August 2021 to 582 µg/L in November 2022. The total cVOC concentration in MW-17R was 711 µg/L in February 2022 and 902 µg/L in November 2022. The cVOC concentrations in the remaining bedrock wells were 502 µg/L and less.

Total VOC Concentrations (µg/L) in Bedrock Groundwater February 2022



Notes:
NS = not sampled
VOC = volatile organic compound
µg/L = micrograms per liter

ecology and environment
engineering and geology, p.c.

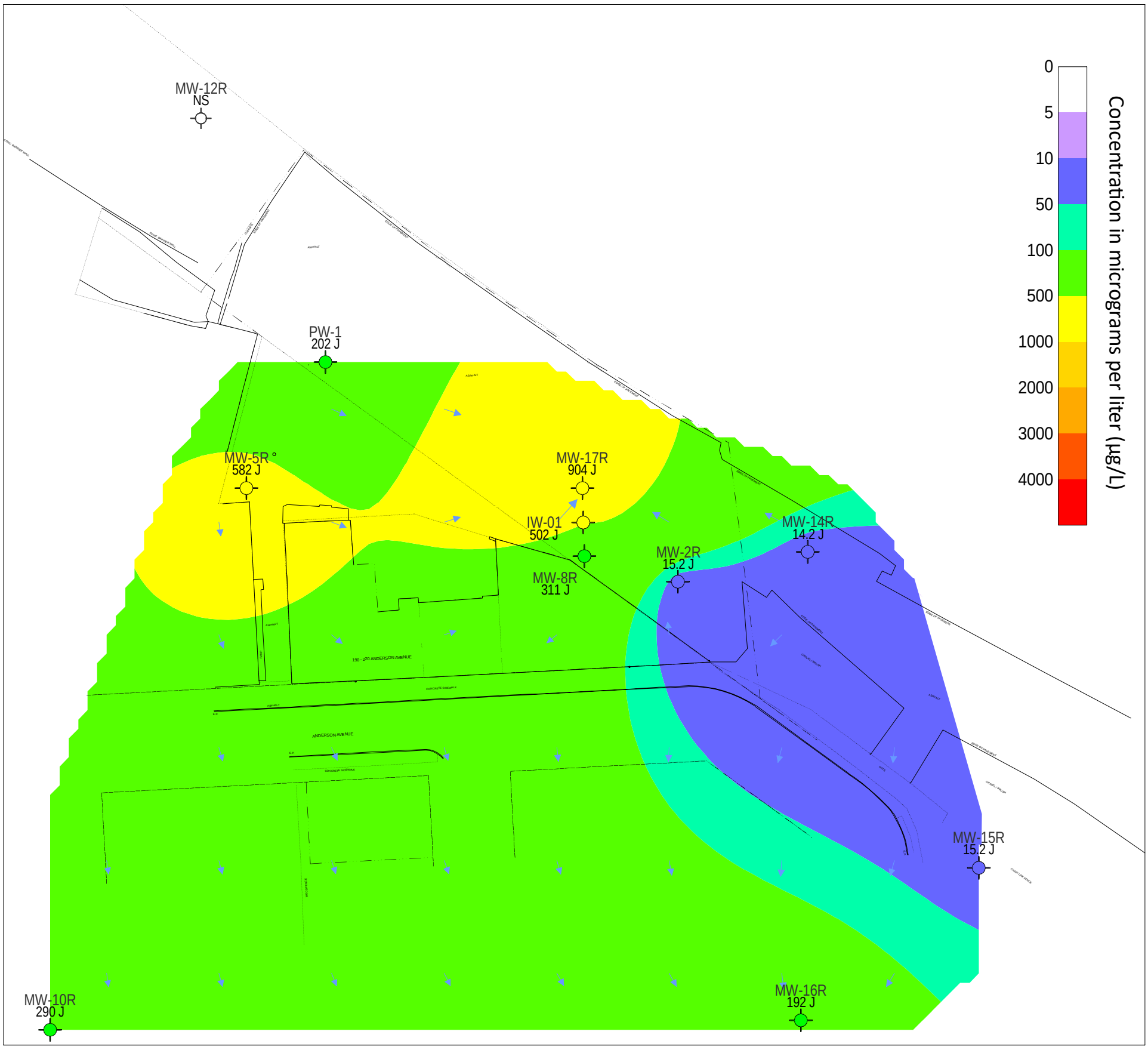
FIGURE 5-2
Total VOCs in Bedrock Groundwater
February 2022
Davis-Howland Oil Corporation Site
Rochester, New York

Total VOC Concentrations (µg/L) in Bedrock Groundwater November 2022

Scale in Feet

0 70 140 210

N



Notes:
- J = estimated value
- NS = not sampled
- VOC = volatile organic compound
- µg/L = micrograms per liter

Legend

Groundwater Flow Direction (November 2022)

ecology and environment
engineering and geology, p.c.

FIGURE 5-3
Total VOCs in Bedrock Groundwater
November 2022
Davis-Howland Oil Corporation Site
Rochester, New York

Table 5-8 Historical Total Chlorinated VOCs Results for Groundwater Monitoring Wells, Davis-Howland Oil Corporation Site, Rochester, New York

	Sample Event																					
Well ID	November 2022 Annual	February 2022	August 2021 Annual / Nine-Month Post-Injection	May 2021 Six-Month Post-Injection	February 2021 Three-Month Post-Injection	December 2020 One-Month Post-Injection	2020 Annual	2019 Annual	2018 Annual	2017 Annual	2016 Annual	2015 Annual	2014 Annual	2013 Annual	2012 Annual	2011 Annual	2010 Annual	2009 Annual	2007 Annual	2004 Annual	1998 Annual	1997 Annual
Overburden Monitoring Wells																						
MW-1S	**56**	NS	**28**	NS	NS	NS	**49 J**	**63 J**	**45 J**	**32**	**76 J**	**37**	**38 J**	**41 J**	**68**	**67**	NS	**45**	**98 J**	**410**	**120 J**	**19 J**
MW-2S	**1.0**	NS	**0.7**	NS	NS	NS	**1.1**	ND	ND	**1.6 J**	**4.6 J**	**7.0 J**	**6.3 J**	**2.5**	**1.7**	**1.9**	**1.3**	ND	**1.4 J**	ND	NS	**3.0 J**
MW-9S	**204 J**	NS	**160 J**	NS	NS	NS	**180 J**	**164 J**	**111**	**121 J**	**110 J**	**140 J**	**180 J**	**240 J**	**140**	**140**	**140**	**92**	**48 J**	**32**	**15,000 J**	**6,300 J**
MW-12S	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	**0.30 J**	**0.36 J**	**13**	ND	ND	ND	**4.4 J**	ND	**6.0 J**	**29 J**
MW-13S	**10 J**	NS	**6.4**	NS	NS	NS	NS	NS	**10 J**	NS	**7.8 J**	**12 J**	**9.9 J**	**12 J**	**33**	ND	**19**	**3.7**	**69 J**	**41**	**40,000 J**	**36,000 J**
MW-14S	ND	NS	ND	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	**4.2**	ND	ND	ND	**0.36 J**	ND	**2.0 J**	**4.0 J**
PZ-01	**16 J**	NS	**16 J**	NS	NS	NS	NS	NS	**12**	NS	NS	**11 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PZ-02	**8.0 J**	NS	**8.8 J**	NS	NS	NS	NS	NS	NS	**4.6 J**	**6.9**	**8.6**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PZ-03	**21 J**	NS	NS	NS	NS	NS	**36 J**	**51**	**36 J**	**20 J**	**20 J**	**29**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PZ-04	**1,140 J**	NS	**960**	NS	NS	NS	NS	NS	**505 J**	**400**	**590**	**430**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bedrock Monitoring Wells																						
MW-2R	**2.5 J**	**35 J**	NS	NS	**34**	**2.9 J**	**420**	**350**	**770**	**2,670 J**	**1,500**	**1,100 J**	**350 J**	**31 J**	**940**	**1,200**	**240**	NS	NS	**940**	NS	**2,100 J**
MW-5R	**582 J**	NS	**720**	NS	**890**	**490**	**530 J**	**433 J**	**410 J**	**786**	**500**	**550**	**650**	**340**	**1,200**	**160**	**1,400**	**210**	**2,700 J**	**1,100 J**	**4,200 J**	**5,200**
MW-8R	**311 J**	**222 J**	NS	**139**	**26 J**	**240 J**	**4,700**	**4,590**	**3,618**	**6,175 J**	**4,200 J**	**3,400 J**	**5,400 J**	**4,600 J**	**5,600**	**5,700**	**14,000**	**5,800**	**4,300 J**	**3,800 J**	NS	**2,600 J**
MW-10R	**290 J**	NS	**260**	NS	**490**	**730**	**1,100**	**480**	**1,364 J**	**951 J**	**910 J**	**990 J**	**1,200 J**	**1,400 J**	**1,500**	**1,400**	**160**	**1,200**	**1,600 J**	**1,200**	**3,000 J**	**2,300 J**
MW-12R	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26 J**	**41 J**	**34 J**	ND	**45**	**35**	**66**	**75 J**	**22**	NS	**270 J**
MW-14R	**14 J**	NS	**6.0 J**	NS	**10 J**	**16**	**20 J**	**27 J**	**35**	**43**	**59 J**	**45 J**	**59 J**	**72 J**	**59**	**61**	**54**	**45**	**67 J**	**17**	**50 J**	**22 J**
MW-15R	**15 J**	NS	**15 J**	NS	**12 J**	**15 J**	ND	**11 J**	**12 J**	NS	NS	**10**	**12 J**	**11 J**	**11**	**11**	**6.4**	**4.7**	**7.4 J**	**7.7**	NS	**35 J**
MW-16R	**192 J**	NS	**270**	NS	**590**	**480**	**530**	**254**	**420**	**203 J**	**720 J**	**200 J**	**230**	**180**	**210**	**220**	**48**	**320**	**250 J**	**260**	**2,400 J**	**1,100 J**
MW-17R	**902 J**	**711 J**	**650 J**	**639**	**751 J**	**740**	**1,900 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PW-1	**202 J**	NS	**449**	NS	**123 J**	**410**	**400 J**	**6.4**	**327**	**278**	NS	**609**	**914**	**277**	**653**	NS	NS	NS	NS	NS	NS	NS
IW-01	**502 J**	**309**	**430 J**	**371 J**	**266 J**	**225 J**	**361 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

Analytical results are all in micrograms per liter (µg/L).

Key:

J = Estimated value

ND = Not detected

NS = Not sampled

6 Actions to Support Eventual Site Closure

The overall project goals identified in the records of decision are to (1) eliminate the potential for direct human contact with the contaminated soils on site; (2) mitigate the impacts of contaminated groundwater on the environment to the extent practicable; (3) prevent, to the extent practicable, the migration of soil contaminants to groundwater; and (4) provide for attainment of standards, criteria, and guidance values for groundwater quality at the limits of the area of concern, to the extent practicable. Attaining these goals will allow for the eventual closure of the Site.

The ICs described previously in this report were put in place to reduce human exposure to the remaining contaminated Site soils. Since remedial construction at the Site was completed, contaminant concentrations in the Site soils have been reduced and now meet Part 375 soil cleanup objectives for restricted residential use.

Contaminant concentrations in the Site groundwater had decreased since installation of the remedial treatment systems. However, evaluations completed as part of the 2016 RSO described in Section 6.1 led to the determination that the active treatment systems were no longer effective in the removal of VOCs from the Site groundwater and that the systems should be decommissioned. Recommendations for continued site management activities are provided in Section 6.3.

6.1 Remedial System Optimization and System Decommissioning

In June 2016, E & E submitted an RSO Alternatives Report to NYSDEC (EEEPC 2016b). This report noted that contaminant removal by the pump-and-treat system had been declining over time, and VOC contamination in the groundwater remained above the standards, criteria, and guidance values. Recommendations in the RSO indicated that there was no single alternative that would result in optimization of the system. It was recommended that soil vapor mitigation systems be installed in on-site buildings impacted by soil vapor intrusion and a pilot bioremediation study be performed to evaluate the effectiveness of bioengineered materials injected into the overburden aquifer.

Additionally, the groundwater monitoring network would be optimized by decommissioning damaged and unneeded wells, installing new wells, and reducing the groundwater monitoring program based on historical results from annual sampling. The final recommendation was to implement a monitored natural attenuation pilot program to quantify the time frame in which attainment of the remedial action objectives is expected and to discontinue operation of the groundwater pump-and-treat system and the AS/SVE system.

Following submission of this report, NYSDEC made the determination to shut down the treatment systems on July 13, 2016, and to continue with long-term groundwater monitoring of the Site. Following further review of site data and NYSDEC *DER-10/Technical Guidance for Site Investigation and Remediation* requirements, NYSDEC requested on September 14, 2016, that the treatment systems be restarted and additional sampling of the systems be performed, including a pulsed pumping evaluation and additional sampling of the AS/SVE system.

Following the completion of the pulse pumping evaluation of the groundwater treatment system and additional sampling of the AS/SVE system in 2017, the decision was made in February 2018 by NYSDEC to decommission the active treatment systems at the Site. Decommissioning was completed in 2018.

6.2 In Situ Chemical-Oxidation Pilot Study

In April 2020, E & E submitted a cost-benefit analysis for in situ groundwater treatment technologies that may be used to reduce VOC groundwater concentrations at the Site (E & E 2020d). This report recommended implementation of an in situ chem-ox injection pilot study using Regenesis PersulfOx reagent in the area around MW-8R, where results of the annual groundwater monitoring program detected VOC concentrations that consistently exceeded 3,000 µg/L.

Two wells, MW-17R and IW-01, were installed in September 2020 and reagent was injected into MW-8R and MW-17R in October 2020. One-month post-injection groundwater sampling was performed at the Site bedrock wells in November/December 2020 and three-month post-injection groundwater sampling was performed in February 2021. Six-month post-injection sampling was performed at the pilot study wells IW-01, MW-8R, and MW-17R in May 2021, and nine-month post-injection sampling was conducted concurrently with the 2021 annual groundwater sampling event in August 2021. Post-injection groundwater sampling of four bedrock monitoring wells (IW-01, MW-2R, MW-8R, and MW-17R) was also conducted in February 2022 due to obstructions in two bedrock wells (MW-2R and MW-8R) during the August 2021 annual / nine-month post-injection sampling event.

Figures 6-1, 6-2, 6-3, and 6-4 present total VOC, PCE, and daughter product concentrations detected at the pilot study wells during each sampling event.

Based on the analytical results collected during the baseline and post-injection sampling events, the chem-ox treatment was successful in decreasing the elevated

VOC concentrations in MW-8R from 4,700 µg/L pre-injection in October 2020 to 311 µg/L in November 2022.

6.3 Recommendations

E & E recommends the following for the Site:

- Repair the damaged wells identified in Section 4 so these wells can be properly secured.
- Request permission from the owner of 190 Anderson to allow E & E to temporarily store containerized purge water collected from future sampling events inside the building pending analytical results to prevent vandals from tampering with the IDW prior to its proper disposal.
- Continue the long-term monitoring program. Continued long-term groundwater monitoring should occur annually to monitor VOC contamination at the Site. It is recommended that the annual sampling be conducted every 15 months so that seasonal variations in concentrations can be assessed. The MW network should be evaluated to determine whether some of the existing wells can be abandoned and whether new wells should be installed to better monitor the extent of the remaining contamination.

[redacted]

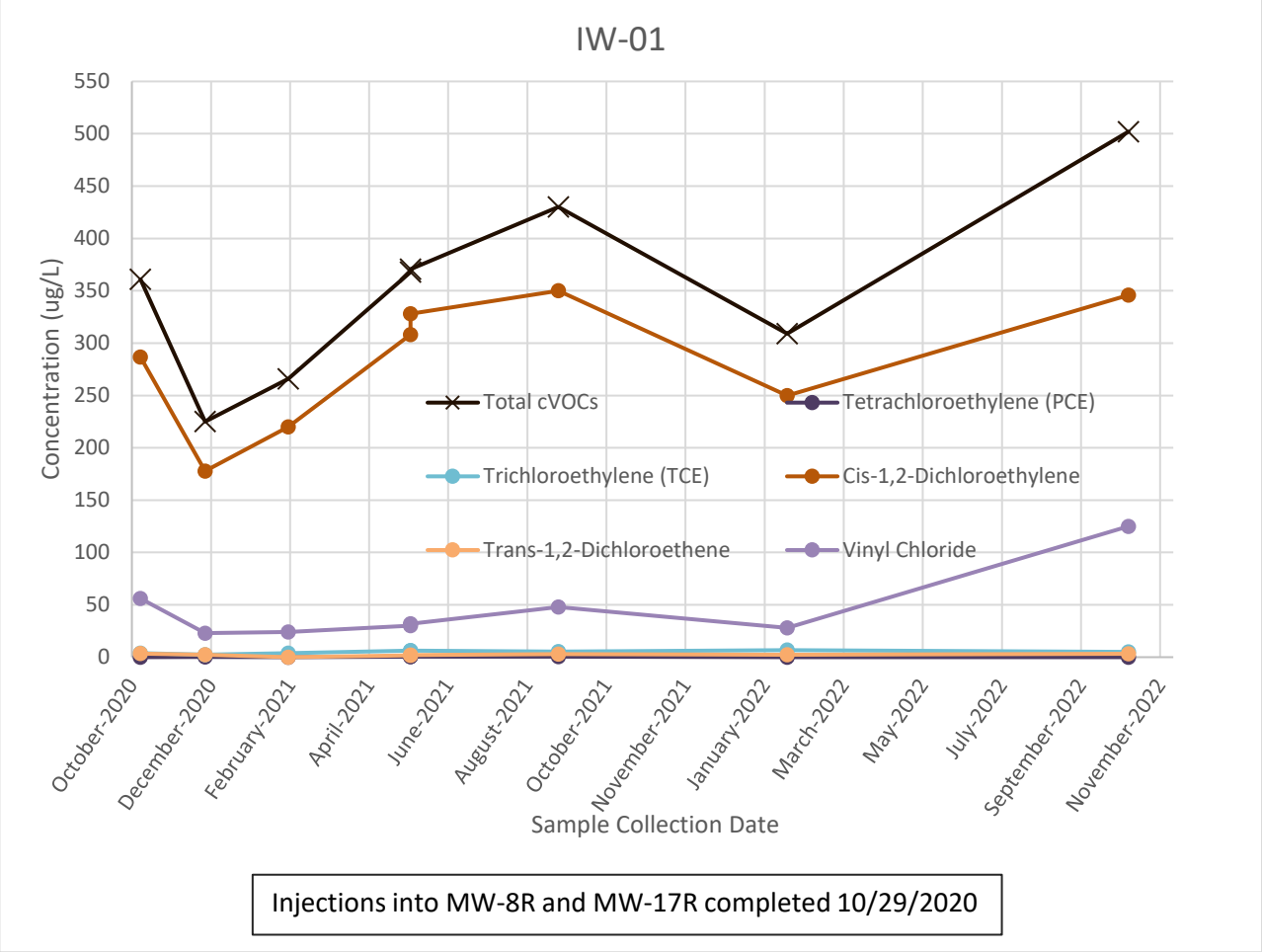


Figure 6-1 Total Chlorinated VOCs, PCE, and Daughter Products, IW-01

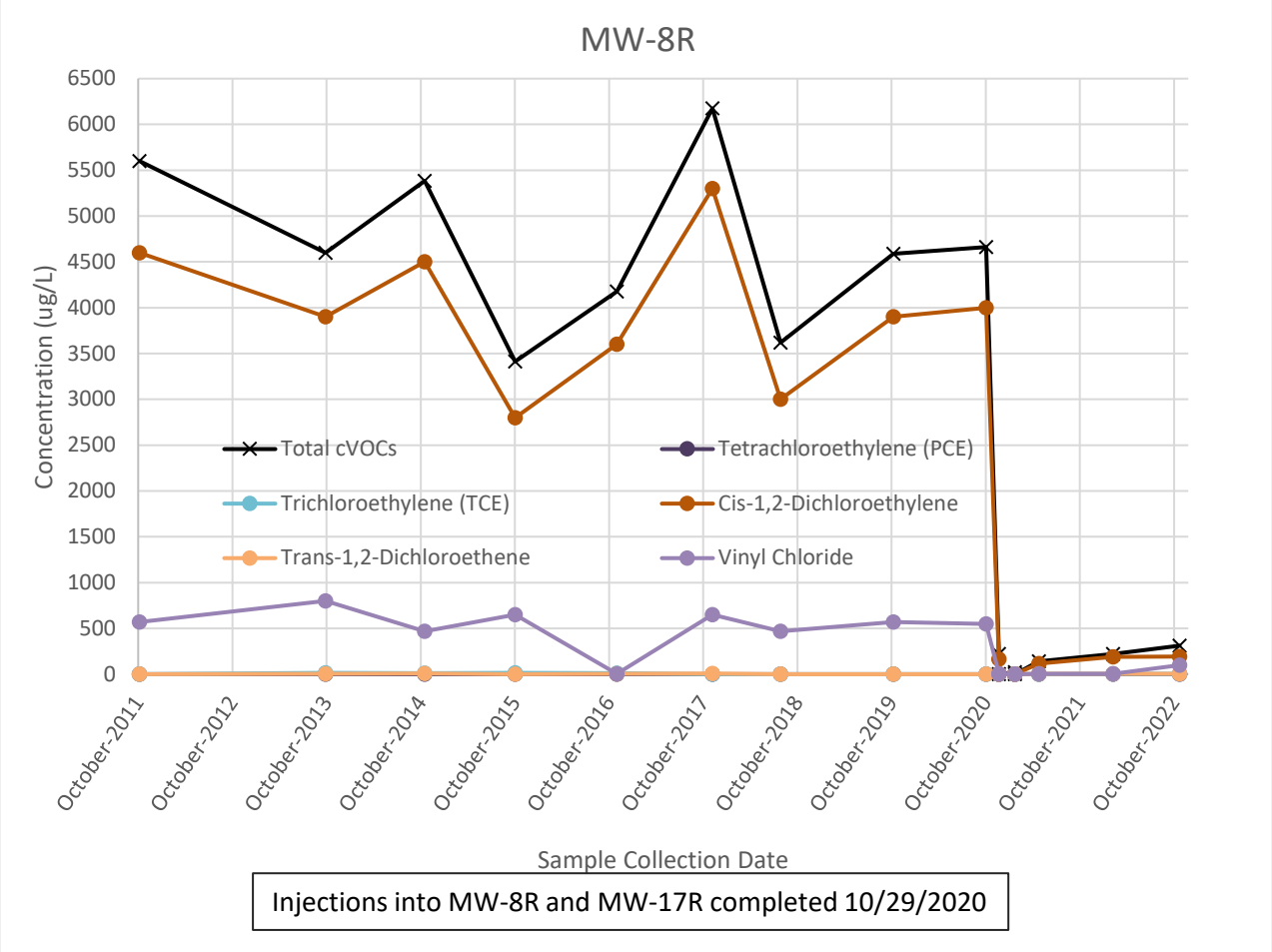


Figure 6-2 Total Chlorinated VOCs, PCE, and Daughter Products, MW-8R

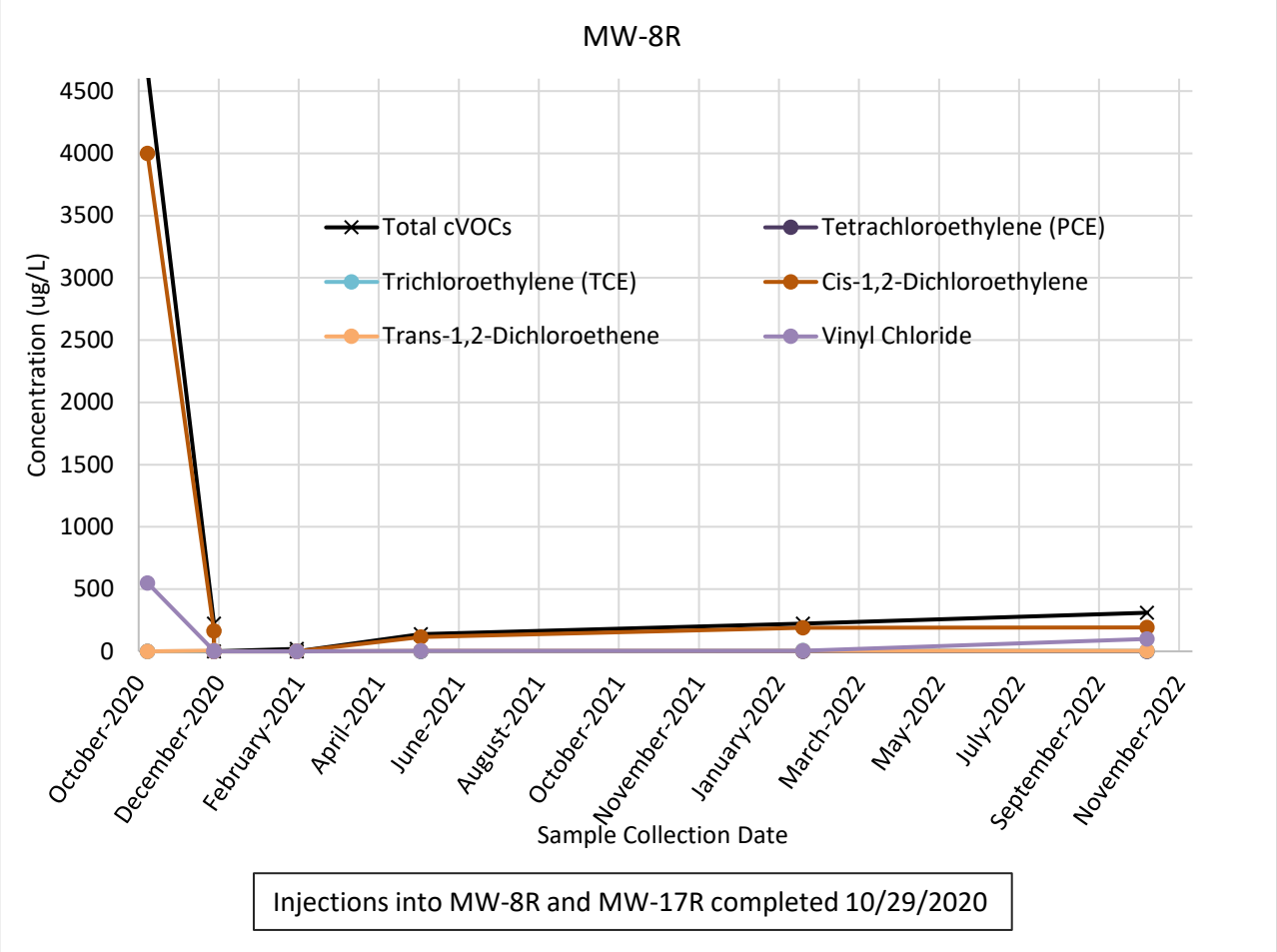


Figure 6-3 Total Chlorinated VOCs, PCE, and Daughter Products, MW-8R Inset

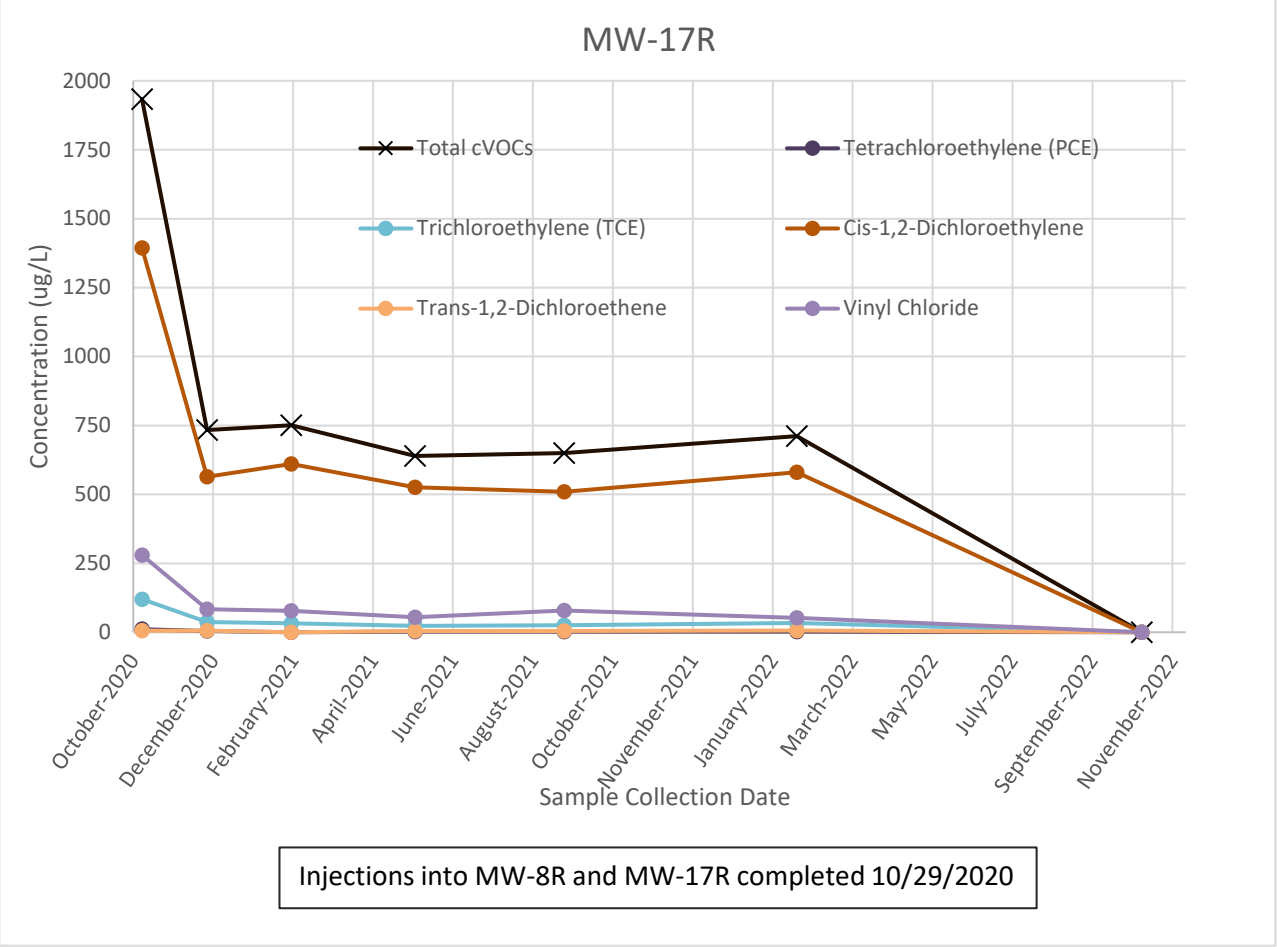


Figure 6-4 Total Chlorinated VOCs, PCE, and Daughter Products, MW-17R

7 Annual Site Management Costs

The total 2022 cost of site management at the Site was approximately $86,100, including E & E subcontracted services. The cost breakdown is presented in Table 7-1.

Table 7-1 2022 Site Management Costs for the Davis-Howland Oil Corporation Site

Description	WA D009807-9
Monitoring and Reporting	$61,000
Pilot Study	$8,400
2021 and 2022 PRR	$16,700
2022 Total	**$86,100**

8 Department or Local Public Reporting

8.1 New York State Department of Environmental Conservation Fact Sheet

The most recent information regarding the DHOC Site is provided in the Environmental Site Remediation Database Search online at:

http://www.dec.ny.gov/cfmx/extapps/derexternal/index.cfm?pageid=3.

8.2 Local Public Reporting

No local public reporting of the Site or remedial Site operations were brought to the attention of E & E in 2022. The local reporting newspaper in Rochester, New York, is the *Democrat and Chronicle*.

9 References

Ecology and Environment Engineering, P.C. (EEEPC). 2004. *Davis-Howland Oil Corporation Site, Groundwater Sampling Draft Data Summary Report 2004, Rochester, New York.* Prepared for New York State Department of Environmental Conservation, Albany, New York.

_____. 2007. *Groundwater Sampling and Data Summary Report, Davis-Howland Oil Corporation Site.*

_____. 2009. *Former Davis-Howland Oil Corporation Site 2009 Groundwater Sampling Draft Data Summary Report, Rochester, New York.* July 2009. Prepared for New York State Department of Environmental Conservation, Albany, New York.

_____. 2010. *Former Davis-Howland Oil Corporation Site 2010 Groundwater Sampling Draft Data Summary Report, Rochester, New York.* July 2010. Prepared for New York State Department of Environmental Conservation, Albany, New York.

_____. 2013. *Periodic Review Report, Former Davis-Howland Oil Corporation Site, NYSDEC Site No. 8-28-088, City of Rochester, Monroe County, New York.* July 2013.

_____. 2014. *Final Site Management Plan, Former Davis-Howland Oil Corporation Site, NYSDEC Site No. 8-28-088, City of Rochester, Monroe County, New York.*

_____. 2015. *2014 Periodic Review Report, Former Davis-Howland Oil Corporation Site, NYSDEC Site No. 8-28-088, City of Rochester, Monroe County, New York.* January 2015.

_____. 2016a. *2015 Periodic Review Report, Former Davis-Howland Oil Corporation Site, NYSDEC Site No. 8-28-088, City of Rochester, Monroe County, New York.* January 2016.

_____. 2016b. *Remedial Site Optimization Alternatives Report, Former Davis-Howland Oil Corporation Site, NYSDEC Site No. 8-28-088, City of Rochester, Monroe County, New York.* June 2016.

_____. 2017. *2016 Periodic Review Report, Former Davis-Howland Oil Corporation Site, NYSDEC Site No. 8-28-088, City of Rochester, Monroe County, New York.* January 2017.

_____. 2018. *2017 Periodic Review Report, Former Davis-Howland Oil Corporation Site, NYSDEC Site No. 8-28-088, City of Rochester, Monroe County, New York*. January 2018.

Ecology and Environment Engineering and Geology, P.C. (E & E). 2019. *2018 Periodic Review Report, Former Davis-Howland Oil Corporation Site, NYSDEC Site No. 8-28-088, City of Rochester, Monroe County, New York*. January 2018. Prepared by Ecology and Environment Engineering and Geology, P.C., Lancaster, New York.

_____. 2020a. Site Management Plan Former Davis-Howland Oil Corporation Site NYSDEC Site No. 8-28-088 City ofRochester, Monroe County. Prepared by Ecology and Environment Engineering and Geology, P.C., Lancaster, New York.

_____. 2020b. Davis-Howland Oil Corporation (DHOC) Site 2020 Soil Vapor Intrusion (SVI) Sampling Report NYSDEC Site No. 828088. Prepared by Ecology and Environment Engineering and Geology, P.C., Lancaster, New York.

_____. 2020c. *Master Quality Assurance Project Plan (QAPP) for New York State Department of Environmental Conservation Projects*. Prepared by Ecology and Environment Engineering and Geology, P.C., Lancaster, New York.

_____. 2020d. *Cost-Benefit Analysis for Site Optimization Former Davis-Howland Oil Corporation Site NYSDEC Site No. 828088 City of Rochester Monroe County, New York*. Prepared by Ecology and Environment Engineering and Geology, P.C., Lancaster, New York.

_____. 2021a. *Summary Report for In Situ Chemical Oxidation Pilot Study at the Davis-Howland Oil Corporation Site (828088) Rochester, New York.* Prepared by Ecology and Environment Engineering and Geology, P.C., Lancaster, New York.

_____. 2021b. *Three-Month post-Injection Supplemental Summary Report for the In Situ Chemical Oxidation Pilot Study at the Davis-Howland Oil Corporation Site (828088) Rochester, New York.* Prepared by Ecology and Environment Engineering and Geology, P.C., Lancaster, New York.

_____. 2021c. *Six-Month Summary Post-Injection Supplemental Report for the In Situ Chemical Oxidation Pilot Study at the Davis-Howland Oil Corporation Site (828088) Rochester, New York.* Prepared by Ecology and Environment Engineering and Geology, P.C., Lancaster, New York.

_____. 2022. *Davis-Howland Oil Corporation (DHOC) Site 2022 Soil Vapor Intrusion (SVI) Sampling Report NYSDEC Site No. 828088*. Prepared by Ecology and Environment Engineering and Geology, P.C., Lancaster, New York.

Lawler, Matusky Skelly Engineers, LLP and Galson/Lozier Engineers. 1996. *New York State Superfund Contract, Remedial Investigation Report, Davis-Howland Oil Corporation Remedial Investigation/Feasibility Study*. Vol. I. October 1996.

New York State Department of Environmental Conservation (NYSDEC). 1998 (with updates). Division of Water Technical and Operational Guidance Series (1.1.1): *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.* Albany, New York: Division of Water.

_____. 2018. Site Management (SM) Periodic Review Report (PRR) Response Letter, Davis-Howland Oil Corporation, Rochester, Monroe County, Site No. 828088, February 26, 2018.

New York State Department of Health (NYSDOH). 2006. *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*. Final, October 2006. Prepared by the New York State Department of Health, Bureau of Environmental Exposure Investigation.

U.S. Environmental Protection Agency (EPA). 1998. *Standard Operating Procedure Low-Stress (Low Flow)/Minimal Drawdown Ground-Water Sample Collection.* Accessed online at: https://www.epa.gov/quality/standard-operating-procedure-low-stress-low-flow-minimal-drawdown-ground-water-sample

A Monitoring Well Purge Records

ecology and environment engineering, p.c.
International Specialists in the Environment
BUFFALO CORPORATE CENTER 368 Pleasant View Drive, Lancaster, New York 14086
Tel: 716/684-8060, Fax: 716/684-0844

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland / Rochester, NY Well ID: IW-01
EEEPC Project No.: EE1705007.0009 Date: 2-15-22

Initial Depth to Water: 23.12 feet TOIC Start Time: 1200
Total Well Depth: 37.39 feet TOIC End Time: 1240
Depth to Pump: 35 feet TOIC ☐ Bailer ☒ Pump
Initial Pump Rate: 0.0875 Lpm / gpm Pump Type: BLADDER
adjusted to: _____ at _____ minutes Well Diameter: 4 inches
adjusted to: _____ at _____ minutes 1x Well Volume: 9.31 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1205		7.11	12.9	189.5	1.361	1.57	2.84	24.35
1210		7.10	13.0	171.9	1.360	1.55	2.14	24.36
1215		7.11	13.1	142.7	1.358	1.46	1.21	24.38
1220		7.11	13.0	134.7	1.356	1.46	0.87	24.38
1225		7.11	13.0	127.3	1.354	1.46	0.91	24.38
1230		7.11	12.9	111.4	1.352	1.45	0.74	24.59
1235		7.11	13.0	105.9	1.351	1.44	0.69	24.39
1240	3.5	7.11	13.1	103.5	1.351	1.44	0.60	24.39
Final Sample Data:		7.11	13.1	103.5	1.351	1.44	0.60	24.39

Sample ID: IW-01-02152022 Duplicate? ☐ Dupe Samp ID: _____
Sample Time: 1240 ~~MS/MSD?~~ ☒ √MS-MSD

Analyses: / Methods:
☒ VOCs ☐ CLP
☐ SVOCs ~~☒ SW846~~
☐ PCBs ☐ Drink. Wtr.
☐ Metals ☒ Sulfates
☐ _____ ☒ Alkalinity

Comments: Clear; no strong odor; no sheen

Sampler(s): CP, LR

ecology and environment engineering, p.c.
International Specialists in the Environment
BUFFALO CORPORATE CENTER 368 Pleasant View Drive, Lancaster, New York 14086
Tel: 716/684-8060, Fax: 716/684-0844

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland O.C./Rochester, NY Well ID: MW-2R
EEEPC Project No.: EE1705007.0009 Date: 2.15.2022

Initial Depth to Water: 21.35 feet TOIC *TOIC sticks up ~3.38' Above Ground Surface
Total Well Depth: 30.02 feet TOIC
Depth to Pump: ~28 feet TOIC
Initial Pump Rate: 0.025 (lpm) / gpm
adjusted to: _____ at _____ minutes
adjusted to: _____ at _____ minutes

Start Time: 1400
End Time: 1500
☐ Bailer ☒ Pump
Pump Type: Micro Bladder
Well Diameter: 4 inches
1x Well Volume: ~5.6 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1410	0.25	7.60	2.3	157.9	0.383	7.18	43.24	
1420	0.5	7.61	3.4	161.1	0.336	6.90	39.50	
1430	0.75	7.63	4.5	162.8	0.331	6.84	32.85	
1440	1.0	7.64	4.2	163.1	0.338	6.77	30.88	
1450	1.25	7.64	4.0	163.4	0.340	6.71	27.92	
1500	1.5	7.65	4.2	163.7	0.340	6.70	27.36	
Final Sample Data:		7.65	4.2	163.7	0.340	6.70	27.36	

Sample ID: MW-2R-02152022 Duplicate? ☐ Dupe Samp ID: _____
Sample Time: 1500 MS/MSD? ☐

Analyses:	Methods:
☑ VOCs	☐ CLP
☐ SVOCs	☑ ~~SW846~~
☐ PCBs	☐ Drink. Wtr.
☐ Metals	☒ Alkalinity
☐ _____	☒ Sulfates

Comments: Obstruction in well; well bent @ depth - Installed 1" well inside 4" well to get pump / water level meter past bend in well casing; clear; no strong odor; no sheen

Sampler(s): CD, LR

ecology and environment engineering, p.c.
International Specialists in the Environment
BUFFALO CORPORATE CENTER 368 Pleasant View Drive, Lancaster, New York 14086
Tel: 716/684-8060, Fax: 716/684-0844

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland / Rochester, NY
Well ID: MW-8R
EEEPC Project No.: EE1705007.0009,01
Date: 02/16/2022

Initial Depth to Water: 18.24 feet TOIC
Total Well Depth: 35.60 feet TOIC
Depth to Pump: 30.00 feet TOIC
Initial Pump Rate: .150 (pm) gpm
adjusted to: .125 at 1012 minutes
adjusted to: .175 at 1017 minutes

Start Time: 1007
End Time: 1035
☐ Bailer ☒ Pump
Pump Type: Bladder QED
Well Diameter: 4 inches
1x Well Volume: 11.33 gallons x 3 = 33.99

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1007	0.00	6.73	12.7	218.1	1.688	4.04	4.01	16.57
1012	0.75	6.76	12.2	209.5	1.652	2.74	2.97	16.46
1017	1.375	6.79	12.1	201.3	1.632	2.41	2.40	16.30
1022	2.250	6.80	12.5	197.3	1.596	2.29	2.37	16.25
1027	3.125	6.81	12.6	192.6	1.581	2.19	2.32	16.25
1032	4.000	6.81	12.6	189.6	1.597	2.20	2.33	16.25
END - PARAMETER STABLE								
Final Sample Data:								

Sample ID: MW-8R-02162022
Sample Time: 1035
Duplicate? ☒
MS/MSD? ☐
Dupe Samp ID: MW-8R-02162022-Q

Analyses: / Methods:
☒ VOCs ☐ CLP
☐ SVOCs ☒ SW846
☐ PCBs ☐ Drink. Wtr.
☐ Metals ☐ _____
☐ _____ ☐ _____
☒ Alkalinity
☒ Sulfates

Comments: Surface level to top of plug was filled w/ ice, clear water, no strong odor, no sheen

Sampler(s): M. Hanford, L. Roedl

ecology and environment engineering, p.c.
International Specialists in the Environment
BUFFALO CORPORATE CENTER 368 Pleasant View Drive, Lancaster, New York 14086
Tel: 716/684-8060, Fax: 716/684-0844

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Rowland Rochester NY
Well ID: MW-17
EEEPC Project No.: EE170507.0009.01
Date: 2/16/22

Initial Depth to Water: 22.97 feet TOIC
Total Well Depth: ~~26.19~~ feet TOIC
Depth to Pump: 31 feet TOIC
Initial Pump Rate: 150 (Lpm) / gpm
adjusted to: _____ at _____ minutes
adjusted to: _____ at _____ minutes

Start Time: 1203
End Time: 1300
☐ Bailer ☑ Pump
Pump Type: ~~Bladder~~ Bladder
Well Diameter: 4" inches
1x Well Volume: 8.63 gallons x 3 = 25.89

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1203	0.00	7.28	12.1	167.3	0.972	4.50	470	23.00
1208	0.750	7.25	12.1	136.4	0.973	2.31	0.93	23.00
1213	1.50	7.27	12.2	101.6	0.974	1.54	0.14	23.00
1218	2.25	7.24	12.2	83.3	0.974	1.43	0.46	23.00
1223	3.00	7.24	12.2	69.9	0.974	1.39	0.42	23.00
1228	3.75	7.24	12.2	56.9	0.973	1.39	0.51	23.00
1233	4.50	7.24	12.2	46.9	0.974	1.37	1.07	23.00
1238	5.25	7.24	12.2	38.0	0.973	1.59	0.36	23.00
1243	6.00	7.24	12.3	31.2	0.973	1.75	0.84	23.00
1248	6.75	7.24	12.3	26.3	0.974	1.81	0.34	23.00
1253	7.50	7.24	12.3	18.3	0.973	1.72	0.52	23.00
1258	8.25	7.24	12.2	16.7	0.974	1.67	0.44	23.00
END	PARAMETERS STABLE							
					brown			
Final Sample Data:								

Sample ID: MW-17-02162022 Duplicate? ☐ Dupe Samp ID: _____
Sample Time: 1300 MS/MSD? ☐

Analyses: Methods:
☑ VOCs ☐ CLP
☐ SVOCs ☑ SW846
☐ PCBs ☐ Drink. Wtr.
☐ Metals ☐ _____
☐ _____ ☐ _____
☒ Alkalinity
☒ Sulfates

Comments: clear water, no strong oder, no sheen
Sampler(s): M. Hanford, L Roedl

ecology and environment
engineering and geology, p.c.

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland Oil Company, Rochester, NY
Well ID: MW - 9S
E & E Project No.: EE1705007.0009.01
Date: ~~10/31/22~~ 11/1/22

Initial Depth to Water: 8.57 feet TOIC
Total Well Depth: 15.92 feet TOIC
Depth to Pump: 14.92 feet TOIC
Initial Pump Rate: ~~0.10~~ 0.5 (Lpm) / gpm
adjusted to: 0.2 at 08:57
adjusted to: 0.08 at 09:05

Start Time: 08:41
End Time: 09:57
☐ Bailer ☒ Pump
Pump Type: bladder
Well Diameter: 2 inches
1x Well Volume: 1.198 gallons x3 = 3.594

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C / °F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
08:46	~~3~~ 1.5	8.15	17.0	138	1.70	~~1.20~~	185	9.55
08:52	4	7.96	17.61	137	1.37	1.20	51.4	10.12
08:58	5	8.05	17.56	131	1.41	0.81	22.0	10.34
09:03	10	8.02	17.47	130	1.46	0.64	15.3	10.53
09:08	6.5	7.99	17.39	125	1.49	0.58	14.2	10.59
09:13	7.0	7.98	17.27	122	1.53	0.55	11.8	10.61
09:18	7.5	7.96	17.23	117	1.55	0.57	11.8	10.61
09:23	8	7.96	17.20	112	1.57	0.50	12.0	10.61
09:28	8.25	7.97	17.08	106	1.59	0.58	10.7	10.61
09:35	9.0	7.95	17.11	100	1.63	0.58	10.2	10.61
09:40	9.25	7.96	17.04	94	1.64	0.49	9.9	10.61
09:45	9.75	7.96	17.08	90	1.67	0.48	8.0	10.61
09:50	10.0	7.96	17.13	84	1.69	0.44	7.0	10.61
Final Sample Data:		7.96	17.13	84	1.69	0.44	7.0	10.61

Sample ID: MW-9S-110122
Sample Time: 0952
Duplicate? ☐
MS/MSD? ☐
Dupe Samp ID:
No. of Bottles: 2

Analyses:
☒ VOCs
☐ SVOCs
☐ PCBs
☐ Pest.
☐ Metals/CN
☐ Dioxin

Methods:
☐ CLP
☐ SW846
☐ EPA/CWA
☐ _____

Comments: no aroma no sheen

KZ 11/1

Sampler(s): KZ

ecology and environment engineering and geology, p.c.

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland Oil Company, Rochester, NY
Well ID: MW5R
E & E Project No.: EE1705007.0009.01
Date: 11/1/22

Initial Depth to Water: 16.15 feet TOIC
Start Time: 9:30
Total Well Depth: 34.73 feet TOIC
End Time: ~~Bladder~~ 10:32
Depth to Pump: 32.71 feet TOIC
☐ Bailer ☒ Pump
Initial Pump Rate: 200 Lpm / gpm ml/pm
Pump Type: Bladder
adjusted to: ______ at ______
Well Diameter: 4 inches
adjusted to: ______ at ______
1x Well Volume: ______ gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C / °F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
9:30	100 ml	7.53	15.15	20	1.19	1.51	23.8	16.25
9:35	1.1 L	7.57	15.01	12	1.16	1.46	24.4	16.25
9:40	2.1	7.53	14.99	8	1.15	1.43	24.1	16.25
9:45	3.1	7.51	14.96	-15	1.10	1.30	17.9	16.31
9:50	4.1	7.51	14.95	-17	1.10	1.27	18.3	16.31
9:55	5.1	7.50	14.94	-22	1.09	1.21	15.7	16.31
10:00	6.1	7.52	14.95	-25	1.09	1.14	12.3	16.31
10:05	7.1	7.50	14.98	-31	1.09	1.02	9.9	16.31
10:10	8.1	7.51	14.98	-39	1.10	0.88	8.8	16.31
10:15	9.1	7.50	15.02	-41	1.11	0.82	7.1	16.31
10:20	10.1	7.51	15.05	-44	1.11	0.88	6.9	16.31
10:25	11.1	7.51	15.04	-43	1.12	0.89	6.7	16.31
					[initialed] 11/1/22			
Final Sample Data:		7.51	15.04	-43	1.12	0.89	6.7	16.31

Sample ID: MW5R-110122
Duplicate? ☐
Dupe Samp ID: ______
Sample Time: 10:32
MS/MSD? ☐
No. of Bottles: ______

Analyses:
- ☒ ~~VOCs~~
- ☐ SVOCs
- ☐ PCBs
- ☐ Pest.
- ☐ Metals/CN
- ☐ Dioxin

Methods:
- ☐ CLP
- ☐ SW846
- ☐ EPA/CWA
- ☐ ______

Comments: Horiba ID FA02582

Sampler(s): L. Roalt

ecology and environment
engineering and geology, p.c.

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland Oil Company, Rochester, NY

Well ID: PZ-3

E & E Project No.: EE1705007.0009.01

Date: 11/1/22

Initial Depth to Water: 7.73 feet TOIC

Start Time: 10:57

Total Well Depth: 13.51 feet TOIC

End Time:

Depth to Pump: — feet TOIC

☒ Bailer ☐ Pump

Initial Pump Rate: — Lpm / gpm

Pump Type: —

adjusted to: at

Well Diameter: 1 inches

adjusted to: at

1x Well Volume: 0.237 gallons x 3 = 0.711

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C / °F)	ORP (mV)	Conductivity (µS/cm / mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
10:59		8.42	17.29	108	0.002	11.0	241	
1102		8.17	17.26	97	0.002	10.85	227	
11:10		7.86	17.52	98	0.002	—	148	
11:14	1 gal	8.06	18.28	119	0.003	—	223	
Final Sample Data:		8.06	18.28	119	0.003		223	

11/1 KZ

Sample ID: PZ-3-110122

Duplicate? ☒

Dupe Samp ID:

Sample Time: 11:18

MS/MSD? ☐

No. of Bottles: 4

Analyses:
☒ VOCs
☐ SVOCs
☐ PCBs
☐ Pest.
☐ Metals/CN
☐ Dioxin

Methods:
☐ CLP
☐ SW846
☐ EPA/CWA
☐ ______

Comments: debris in curb box; no aroma
no sheen when sampling

11/1 KZ

Sampler(s): KZ

ecology and environment
engineering and geology, p.c.

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland Oil Company, Rochester, NY
Well ID: IW-01
E & E Project No.: EE1705007.0009.01
Date: 11/1/22

Initial Depth to Water: 25.96 feet TOIC
Total Well Depth: 37.26 feet TOIC
Depth to Pump: 36.26 feet TOIC
Initial Pump Rate: 0.2 (Lpm) gpm
adjusted to: ____ at ____
adjusted to: ____ at ____

Start Time: 11:52
End Time: 13:35
☐ Bailer ☒ Pump
Pump Type: bladder
Well Diameter: 4 inches
1x Well Volume: 7.379 gallons x 3 = 22.137

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C / °F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
12:04	0	8.66	16.3	-25	1.25	1.71	58.7	27.57
12:09	0.25	8.48	15.71	-68	1.28	1.02	54.8	27.62
12:13	0.5	8.39	15.59	-71	1.29	0.88	40.6	27.62
12:18	0.75	8.35	15.41	-71	1.27	1.04	23.9	27.62
12:28	1.25	8.33	15.32	-70	1.25	1.11	14.6	27.62
12:37	1.5	8.28	15.23	-69	1.26	1.40	11.7	27.62
12:47	1.8	8.31	15.15	-67	1.27	1.19	7.5	27.62
12:58	2.25	8.27	15.07	-66	1.27	1.27	6.6	27.62
13:08	2.6	8.29	15.05	-64	1.28	1.32	5.4	27.62
13:16	3	8.26	15.0	-64	1.28	1.39	1.9	27.62
13:26	3.25	8.26	14.96	-62	1.28	1.36	1.8	27.62
Final Sample Data:		8.26	14.96	-62	1.28	1.36	1.8	27.62

Sample ID: IW-01-110122
Sample Time: 13:32
Duplicate? ☐
MS/MSD? ☐
Dupe Samp ID: ____
No. of Bottles: ____

Analyses:
☒ VOCs
☐ SVOCs
☐ PCBs
☐ Pest.
☐ Metals/CN
☐ Dioxin

Methods:
☐ CLP
☐ SW846
☐ EPA/CWA
☐ ____

Comments: no color/odor/sheen
11/1/22

Sampler(s): KZ

ecology and environment
engineering and geology, p.c.

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland Oil Company, Rochester, NY

E & E Project No.: EE1705007.0009.01

Well ID: MW8R

Date: 11/1/22

Initial Depth to Water: 18.23 feet TOIC

Total Well Depth: 34.64 feet TOIC

Depth to Pump: 32.64 feet TOIC

Initial Pump Rate: 250 Lpm / gpm mls/min

adjusted to: ______ at ______

adjusted to: ______ at ______

Start Time: 12:30

End Time: 13:35

☐ Bailer ☒ Pump

Pump Type: Bladder

Well Diameter: 4" inches

1x Well Volume: ______ gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C / °F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
12:30	200 mls	9.15	14.04	67	1.15	10.82	62.4	19.65
12:35	1450 mls	8.96	14.93	71	1.14	9.92	58.3	19.98
12:40	2600	8.87	14.96	72	1.14	9.53	56.8	20.10
12:45	3850	8.77	14.88	73	1.13	9.01	52.8	20.22
12:50	5100	8.66	14.90	73	1.17	8.57	48.2	20.29
12:55	6350	8.59	14.89	74	1.16	8.43	48.6	20.30
13:00	7500	8.45	14.87	76	1.15	7.89	48.8	20.30
13:10	8750	8.28	14.82	78	1.15	7.62	40.8	20.36
13:15	9900	7.85	14.75	60	1.10	4.92	25.1	20.30
13:20	11150	7.84	14.73	59	1.09	4.61	21.5	20.30
13:25	12400	7.85	1471	60	1.11	5.13	24.8	20.36
13:30	13650	7.86	1470	60	1.11	5.25	24.9	20.36
13:35	14900	7.85	1471	60	1.11	5.36	22.9	20.20
				[signature] 11/6/22				
Final Sample Data:		7.85	1471	60	1.11	5.70	22.9	20.36

Sample ID: MW8R-110122

Sample Time: 13:40

Duplicate? ☐

MS/MSD? ☐

Dupe Samp ID: ______

No. of Bottles: ______

Analyses:
- ☒ VOCs
- ☐ SVOCs
- ☐ PCBs
- ☐ Pest.
- ☐ Metals/CN
- ☐ Dioxin

Methods:
- ☐ CLP
- ☐ SW846
- ☐ EPA/CWA
- ☐ ______

Comments: Pump seal slipped, Flow through cell seal were leak. Had to fix & leave (EA 02582 Horiba ID) Sampled At 200 mls

Sampler(s): [signature]

ecology and environment
engineering and geology, p.c.

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland Oil Company, Rochester, NY
Well ID: MW-15R
E & E Project No.: EE1705007.0009.01
Date: 11/2/22

Initial Depth to Water: 17.21 feet TOIC
Total Well Depth: 30.30 feet TOIC
Depth to Pump: 25 feet TOIC
Initial Pump Rate: 250 (mL) Lpm / gpm
adjusted to: 60 mL/m at 0920
adjusted to: _____ at _____

Start Time: 0909
End Time: _____
☐ Bailer ☑ Pump
Pump Type: QED Bladder
Well Diameter: 4 inches
1x Well Volume: 8.25 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C / °F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
0915	Init	6.11	14.62	-46	1.16	1.19	0.0	17.35
0920	1.25	6.16	14.59	-56	1.17	1.14	0.0	17.38
0925	1.5	6.16	14.59	-56	1.17	1.14	0.0	17.39
~~0930~~	~~1.8~~	~~6.16~~	~~14.59~~	~~-56~~	~~1.17~~	~~1.14~~		~~17.41~~ ESR
0930	1.8	6.43	14.07	-96	1.18	0.78	0.0	17.41
0935	2.1	6.46	13.47	-96	1.18	0.75	0.0	17.43
0940	2.4	6.48	13.86	-94	1.18	0.72	0.0	17.45
0945	2.7	6.50	13.74	-92	1.18	0.70	0.0	17.47
0946	Collect Sample							
Final Sample Data:								

Sample ID: MW-15R-110222
Sample Time: 0946
Duplicate? ☐
MS/MSD? ☐
Dupe Samp ID: _____
No. of Bottles: 2

Analyses:
☑ VOCs
☐ SVOCs
☐ PCBs
☐ Pest.
☐ Metals/CN
☐ Dioxin

Methods:
☐ CLP
☑ SW846
☐ EPA/CWA
☐ _____

Comments: Water was clear from start.
No odor detected.
Curb box in decent shape

Sampler(s): ESR

ecology and environment
engineering and geology, p.c.

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland Oil Company, Rochester, NY
Well ID: MW-16R
E & E Project No.: EE1705007.0009.01
Date: 11/2/22

Initial Depth to Water: 20.45 feet TOIC
Total Well Depth: 31.10 feet TOIC
Depth to Pump: 27.10 feet TOIC
Initial Pump Rate: 0.145 (L/pm) / gpm
adjusted to: 0.025 at 09:20
adjusted to: 0.015 at 09:28

Start Time: 09:09
End Time: 10:18
☐ Bailer ☒ Pump
Pump Type: bladder
Well Diameter: 4" inches
1x Well Volume: 6.954 gallons x 3 = 20.863

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C / °F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
09:12	0	6.57	14.28	102	0.980	4.97	6.8	20.81
09:17	0.25	6.63	14.61	14	1.11	1.92	2.5	20.90
09:27	0.5	6.72	14.22	-13	1.15	1.37	0	20.98
09:32	0.5	6.74	13.99	-18	1.16	1.28	0	20.98
09:37	0.5	6.75	13.74	-20	1.16	1.23	0	21.00
09:45	0.6	6.76	13.48	-22	1.16	1.23	0	21.00
09:53	0.7	6.77	13.15	-24	1.17	1.14	0	21.00
10:00	0.7	6.78	12.96	-25	1.17	1.12	0	21.00
10:06	0.75	6.78	12.86	-27	1.18	1.09	0	21.00
			KZ		11/2			
Final Sample Data:		6.78	12.86	-27	1.18	1.09	0	21.00

Sample ID: MW16R-110222
Sample Time: 10:12
Duplicate? ☐
MS/MSD? ☐
Dupe Samp ID:
No. of Bottles: 2

Analyses:
☒ VOCs
☐ SVOCs
☐ PCBs
☐ Pest.
☐ Metals/CN
☐ Dioxin

Methods:
☐ CLP
☐ SW846
☐ EPA/CWA
☐ _____

Comments: no odor no sheen no color, very slow recharge
11/2/KZ

Sampler(s): KZ

ecology and environment
engineering and geology, p.c.

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland Oil Company, Rochester, NY
Well ID: MW-15
E & E Project No.: EE1705007.0009.01
Date: 11/2/22

Initial Depth to Water: 14.75 feet TOIC
Total Well Depth: 17.96 feet TOIC
Depth to Pump: 17.96 feet TOIC
Initial Pump Rate: 0.110 Lpm/ gpm
adjusted to: 0.085 at 11:10
adjusted to: 0.065 at 11:20

Start Time: 11:00
End Time: 12:20
☐ Bailer ☒ Pump
Pump Type: bladder
Well Diameter: 2" inches
1x Well Volume: 0.523 gallons x 3 = 1.570

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/ °F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
11:04	0	6.69	13.82	30	1.38	3.32	96.6	14.81
11:10	0.4	6.62	14.20	36	1.49	2.23	55.9	14.85
11:15	0.5	6.61	14.29	42	1.52	1.98	28.4	14.85
11:20	0.7	6.61	14.36	44	1.53	1.74	22.6	14.87
11:30	0.75	6.61	14.34	48	1.53	1.51	15.4	14.87
11:40	0.9	6.61	14.35	49	1.54	1.64	13.3	14.87
11:50	1.1	6.61	14.40	51	1.55	1.32	8.7	14.87
12:00	1.25	6.61	14.50	52	1.55	1.29	6.4	14.87
12:10	1.45	6.61	14.56	52	1.55	1.22	3.5	14.87
			11/2 KZ					
Final Sample Data:		6.1	14.56	52	1.55	1.22	3.5	14.87

Sample ID: MW-15-110222
Sample Time: 12:12
Duplicate? ☐
MS/MSD? ☒
Dupe Samp ID:
No. of Bottles: 6

Analyses:
☒ VOCs
☐ SVOCs
☐ PCBs
☐ Pest.
☐ Metals/CN
☐ Dioxin

Methods:
☐ CLP
☐ SW846
☐ EPA/CWA
☐ _____

Comments: no odor no sor no sheen

11/2 KZ

Sampler(s): KZ

ecology and environment
engineering and geology, p.c.

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland Oil Company, Rochester, NY
Well ID: MW-10R
E & E Project No.: EE1705007.0009.01
Date: 11/2/22

Initial Depth to Water: 21.03 feet TOIC
Total Well Depth: 35.60 feet TOIC
Depth to Pump: 30 feet TOIC
Initial Pump Rate: 45 mL/pm / gpm
adjusted to: _____ at _____
adjusted to: _____ at _____

Start Time: 1100
End Time: 1206
☐ Bailer ☑ Pump
Pump Type: Bladder
Well Diameter: 4 inches
1x Well Volume: _____ gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C / °F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1105	Init	6.59	13.36	-75	1.05	2.42	0.0	21.02
1110	0.225	6.61	13.55	-74	1.07	2.01	0.0	21.04
1115	0.45	6.62	13.69	-68	1.10	1.54	0.0	21.05
1120	2.688	6.63	13.83	-61	1.13	1.21	0.0	21.07
1125	2.91	6.64	13.96	-54	1.15	0.98	0.0	21.08
1130	3.14	6.64	14.01	-47	1.16	0.84	0.0	21.09
1135	3.37	6.64	14.07	-41	1.17	0.74	0.0	21.10
1140	3.60	6.64	14.13	-35	1.18	0.68	0.0	21.11
1145	3.83	6.65	14.13	-30	1.18	0.63	0.0	21.11
1150	4.06	6.65	14.21	-25	1.19	0.58	0.0	21.11
1155	4.29	6.65	14.26	-21	1.19	0.56	0.0	21.12
1200	4.42	6.66	14.31	-18	1.19	0.54	0.0	21.12
1205	4.65	6.65	14.36	-15	1.19	0.52	0.0	21.13
1206	Collect sample							
Final Sample Data:		6.65	14.36	-15	1.19	0.52	0.0	21.13

Sample ID: MW-10R-110222
Sample Time: 1206
Duplicate? ☐ Dupe Samp ID: _____
MS/MSD? ☐ No. of Bottles: 2

Analyses:
☑ VOCs
☐ SVOCs
☐ PCBs
☐ Pest.
☐ Metals/CN
☐ Dioxin

Methods:
☐ CLP
☑ SW846
☐ EPA/CWA
☐ _____

Comments: Clear from start
No odor detected
Curb box in good shape.
Lock in place
Bailer in well.

Sampler(s): ESR

ecology and environment
engineering and geology, p.c.

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland Oil Company, Rochester, NY
Well ID: MW-17R
E & E Project No.: EE1705007.0009.01
Date: 11/2/22
Initial Depth to Water: ~~26.35~~ 24.74 feet TOIC
Start Time: 13:26
Total Well Depth: 36.35 feet TOIC
End Time: 14:18
Depth to Pump: 34.35 feet TOIC
☐ Bailer ☒ Pump
Initial Pump Rate: 0.09 (Lpm) gpm
Pump Type: bladder
adjusted to: 0.345 at 13:44
Well Diameter: 4" inches
adjusted to: _____ at _____
1x Well Volume: ~~0.275~~ 7.581 gallons x 3 = ~~0.826~~ 22.743

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C) °F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
13:30	0	6.74	15.88	54	1.39	2.97	3.1	24.75
13:44	1.25	6.95	14.33	-43	1.09	1.09	0	24.75
13:49	1.75	6.96	14.37	-48	1.09	1.09	0.0	24.75
13:54	2.1	6.96	14.36	-47	1.09	0.98	0	24.75
13:59	2.6	6.96	14.36	-56	1.09	0.89	0	24.75
14:08	3	6.96	14.40	-60	1.09	0.93	3.3	24.75
14:13	3.6	6.96	14.41	-61	1.09	0.87	0	24.75
			11/2					
				KZ				
Final Sample Data:								

Sample ID: MW-17R-110222
Duplicate? ☐
Dupe Samp ID: _____
Sample Time: 14:16
MS/MSD? ☐
No. of Bottles: 2

Analyses:
☒ VOCs
☐ SVOCs
☐ PCBs
☐ Pest.
☐ Metals/CN
☐ Dioxin

Methods:
☐ CLP
☐ SW846
☐ EPA/CWA
☐ _____

Comments: high rate of recharge; slow start due to making sure water level meter was functioning properly; no color; no odor; no sheen
11/2/22

Sampler(s): KZ

ecology and environment
engineering and geology, p.c.

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland Oil Company, Rochester, NY
Well ID: PZ-4
E & E Project No.: EE1705007.0009.01
Date: 11/2/2022

Initial Depth to Water: 7.40 feet TOIC
Total Well Depth: 11.48 feet TOIC
Depth to Pump: NA feet TOIC
Initial Pump Rate: _____ Lpm / gpm
adjusted to: _____ at _____
adjusted to: _____ at _____

Start Time: 1335
End Time: 1406
☑ Bailer ☐ Pump
Pump Type: _____
Well Diameter: 1 inches
1x Well Volume: 0.17 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C / °F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1341	0.25	6.62	16.42	-31	1.39	3.58	ERR	
1344	0.5	6.53	16.54	-36	1.82	2.44	ERR	
1351	0.75	6.49	16.78	-47	1.81	2.33	ERR	
1356	1.0	6.55	16.99	-90	1.66	0.48	ERR	
1406	well purged dry @ 1.25 gallons. Will allow recharge & collect sample.							
1440	Collect sample							
Final Sample Data:								

Sample ID: PZ-4-110222
Sample Time: 1440
Duplicate? ☐
MS/MSD? ☐
Dupe Samp ID: _____
No. of Bottles: 2

Analyses:
☑ VOCs
☐ SVOCs
☐ PCBs
☐ Pest.
☐ Metals/CN
☐ Dioxin

Methods:
☐ CLP
☑ SW846
☐ EPA/CWA
☐ _____

Comments: Muddy bottom - high turbidity. Well made water during purge until 1.25 gallons when recharge slowed

Sampler(s): ESK / KZ

ecology and environment
engineering and geology, p.c.

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland Oil Company, Rochester, NY
Well ID: MW-14R
E & E Project No.: EE1705007.0009.01
Date: 11/3/22

Initial Depth to Water: 13.0 feet TOIC
Total Well Depth: 33.78 feet TOIC
Depth to Pump: 30.78 feet TOIC
Initial Pump Rate: 0.100 (Lpm) / gpm
adjusted to: 0.125 at 09:41
adjusted to: _____ at _____

Start Time: 09:33
End Time: 10:54
☐ Bailer ☒ Pump
Pump Type: bladder
Well Diameter: 4" inches
1x Well Volume: 13.54 gallons x3 = 40.708

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C) °F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
09:30	0	6.36	14.26	28	0.774	2.20	56.9	13.30
09:41	0.4	6.41	14.31	-15	0.791	1.48	35.6	13.31
09:46	0.10	6.72	14.43	-36	0.797	1.41	17.5	13.31
09:56	0.9	6.88	14.60	-62	0.800	1.37	12.2	13.31
10:07	1.2	6.96	14.80	-77	0.797	1.64	3.6	13.31
10:18	1.5	7.02	14.98	-85	0.794	1.05	3.0	13.31
10:27	1.75	7.04	15.07	-89	0.794	1.06	0	13.31
10:34	2.0	7.06	15.23	-73	0.784	0.96	0	13.31
10:40	2.1	7.08	15.27	-95	0.777	0.89	0	13.31
10:47	2.25	7.08	15.29	-95	0.776	0.85	0	13.31
			11/3 kz					
Final Sample Data:		7.08	15.29	-95	0.776	0.85	0	13.31

Sample ID: MW-14R-110322
Sample Time: 10:52
Duplicate? ☐
MS/MSD? ☐
Dupe Samp ID: _____
No. of Bottles: 2

Analyses: ☒ VOCs ☐ SVOCs ☐ PCBs ☐ Pest. ☐ Metals/CN ☐ Dioxin
Methods: ☐ CLP ☐ SW846 ☐ EPA/CWA ☐ _____

Comments: no color/odor/sheen; soft bottom; no [illegible] on well cover
11/3 kz

Sampler(s): kz

ecology and environment
engineering and geology, p.c.

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland Oil Company, Rochester, NY
Well ID: MW 25
E & E Project No.: EE1705007.0009.01
Date: 11/03/22

Initial Depth to Water: 8.98 feet TOIC
Total Well Depth: 14.01 feet TOIC
Depth to Pump: 13.01 feet TOIC
Initial Pump Rate: _____ Lpm / gpm
adjusted to: _____ at _____
adjusted to: _____ at _____

Start Time: _____
End Time: _____
☐ Bailer ☒ Pump
Pump Type: Bladder
Well Diameter: 2 inches
1x Well Volume: 0.8 gallons 0.163825 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C / °F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
10:00	125 ml	6.37	14.47	-45	0.873	6.63	14.4	9.34
10:08	1,125	6.3x	14.53	-56	0.995	5.72	16.1	9.34
10:16	2125	6.46	14.42	-64	0.996	4.82	6.7	9.68
10:24	3125	6.46	14.41	-64	0.996	4.74	6.0	9.68
10:32	4125	6.47	14.39	-65	0.999	4.63	4.2	9.68
10:40	5125	6.47	14.46	-65	1.000	4.65	2.1	9.68
10:48	6.125	6.49	14.41	-66	1.03	4.68	0.3	9.68
10:56	7.125	6.48	14.41	-66	1.02	4.67	0.0	9.68
Final Sample Data:		6.48	14.4	-66	1.02	4.67	0.0	9.68

Sample ID: MW25-110322
Sample Time: 10:57
Duplicate? ☐
MS/MSD? ☐
Dupe Samp ID: _____
No. of Bottles: _____

Analyses:	Methods:
☒ VOCs	☐ CLP
☐ SVOCs	☐ SW846
☐ PCBs	☐ EPA/CWA
☐ Pest.	☐ _____
☐ Metals/CN	
☐ Dioxin	

Comments: _____

Sampler(s): LM

ecology and environment
engineering and geology, p.c.

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland Oil Company, Rochester, NY

E & E Project No.: EE1705007.0009.01

Well ID: MW 2R

Date: 11/03/22

Initial Depth to Water: 20.1 feet TOIC

Total Well Depth: 27.40 feet TOIC

Depth to Pump: 25.40 feet TOIC

Initial Pump Rate: 50 Lpm / gpm mls per min

adjusted to: ______ at ______

adjusted to: ______ at ______

Start Time: 11:24

End Time: 14:11

☐ Bailer ☒ Pump

Pump Type: Mini Bladder

Well Diameter: 4 inches

1x Well Volume: 4.83 gallons 0.653 = 14.4 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C / °F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
11:50	50mls	6.88	14.97	-53	0.156	8.17	0.0	20.19
12:05	550mls	6.75	15.60	-45	0.143	8.25	0.0	20.41
12:15	1050	6.73	16.07	-45	0.142	7.91	0.0	20.50
12:25	1550	6.68	16.83	-45	0.142	7.25	0.0	20.74
12:35	2050	6.68	17.05	-46	0.142	6.72	0.0	20.81
12:45	2,650	6.68	17.16	-46	0.142	6.72	0.0	20.86
12:55	3,150	6.67	17.52	-46	0.142	6.72	0.0	21.01
13:00	3300	6.67	17.68	-56	0.149	7.29	0.0	21.11
13:05	3550	6.68	18.63	-65	0.163	8.14	0.0	21.27
13:32	11550	6.64	18.60	-62	0.172	8.01	0.0	25.38
13:48	14550	6.63	18.76	-50	0.174	7.64	0.0	25.86
13:53	14750	6.63	18.78	-45	0.173	7.63	0.0	25.85
13:58	15000 L	6.63	18.78	-41	0.173	7.62	0.0	25.85
14:03	15250 L	6.63	18.77	-40	0.174	7.62	0.0	25.85
								LR 11/03/22
Final Sample Data:		6.63	18.77	-40	0.174	7.62	0.0	25.85

Sample ID: MW2R-110322

Sample Time: 14:11

Duplicate? ☐

MS/MSD? ☐

Dupe Samp ID: ______

No. of Bottles: ______

Analyses: ☒ VOCs ☐ SVOCs ☐ PCBs ☐ Pest. ☐ Metals/CN ☐ Dioxin

Methods: ☐ CLP ☐ SW846 ☐ EPA/CWA ☐ ______

Comments: a Rock in the well used a mini bladder pump to go through a 1" pvc to sample, water in cell keep going up higher in Temp Because it Hot outside and It a liter flow through cell. at 13:21 LR started to Hand Bail to get 3 volumes out of well. a Total of 14.4 gallons

Sampler(s): LR

ecology and environment
engineering and geology, p.c.

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland Oil Company, Rochester, NY
Well ID: MW-14S

E & E Project No.: EE1705007.0009.01
Date: 11/3/22

Initial Depth to Water: 7.07 feet TOIC
Start Time: 11:30

Total Well Depth: 12.95 feet TOIC
End Time: 12:32

Depth to Pump: 12.00 feet TOIC
☐ Bailer ☑ Pump

Initial Pump Rate: 0.010 (Lpm) / gpm
Pump Type: bladder

adjusted to: .500 at 11:43
Well Diameter: 2" inches

adjusted to: ____ at ____
1x Well Volume: 0.958 gallons x 3 = 2.874

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C) / °F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
11:33	0	6.93	17.85	-80	0.793	10.62	234	6.94
11:38	0.05	6.85	17.82	-68	0.804	10.05	430	7.11
11:43	0.1	6.82	18.29	-60	0.801	9.50	321	7.14
		PUMPED DRY						
11:56	1 gal	6.71	16.03	-39	0.819	8.43	154	10.72
12:05	1.25	6.71	16.18	-38	0.802	1.07	67.2	11.31
12:20	1.7	6.69	16.26	-39	0.768	1.12	65.8	DRY
			11/3					
				KZ				
Final Sample Data:		6.69	16.26	-39	0.768	1.12	65.8	

Sample ID: MW-14S-110322
Duplicate? ☐
Dupe Samp ID: ____

Sample Time: 12:30
MS/MSD? ☐
No. of Bottles: 2

Analyses:
☒ VOCs
☐ SVOCs
☐ PCBs
☐ Pest.
☐ Metals/CN
☐ Dioxin

Methods:
☐ CLP
☐ SW846
☐ EPA/CWA
☐ ____

Comments: pumped dry due to low flow rate & water level continuing to drop; no odor no sheen; gray/brown color; ~~bailed dry~~ bailer sampled @ 12:30

Sampler(s): KZ

ecology and environment
engineering and geology, p.c.

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland Oil Company, Rochester, NY
Well ID: PZ-2
E & E Project No.: EE1705007.0009.01
Date: 11/3/22

Initial Depth to Water: 7.05 feet TOIC
Total Well Depth: 12.55 feet TOIC
Depth to Pump: — feet TOIC
Initial Pump Rate: — Lpm / gpm
adjusted to: _____ at _____
adjusted to: _____ at _____

Start Time: 13:30
End Time: 14:20
☒ Bailer ☐ Pump
Pump Type: —
Well Diameter: 1.5 inches
1x Well Volume: 0.506 gallons x 3 = 1.518

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C / °F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
13:38	0	7.20	17.45	1	1.01	11.64	689	—
13:44	0.5	7.22	16.72	-12	1.02	6.24	~~0~~	—
13:52	1	7.32	16.41	-13	1.01	11.0	1000+	
14:13	1.5	7.25	16.21	2	1.02	8.81	1000+	—
			11/3 KZ					
Final Sample Data:								

Sample ID: PZ-2-110322
Sample Time: 14:15
Duplicate? ☐
MS/MSD? ☐
Dupe Samp ID: _____
No. of Bottles: 2

Analyses:
☐ VOCs
☐ SVOCs
☐ PCBs
☐ Pest.
☐ Metals/CN
☐ Dioxin

Methods:
☐ CLP
☐ SW846
☐ EPA/CWA
☐ _____

Comments: 1st bailer kept getting clogged w/ small gravel; no odor/sheen, dark brown color, very turbid

Sampler(s): KZ

ecology and environment
engineering and geology, p.c.

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland Oil Company, Rochester, NY
Well ID: MW 13S
E & E Project No.: EE1705007.0009.01
Date: 11/4/22

Initial Depth to Water: 6.93 feet TOIC
Total Well Depth: 13.75 feet TOIC
Depth to Pump: N/A feet TOIC
Initial Pump Rate: N/A Lpm / gpm
adjusted to: ' at
adjusted to: at

Start Time: 3:10 11/3
End Time: 09:32
☐ Bailer ☐ Pump
Pump Type: Bailer
Well Diameter: 2" inches
1x Well Volume: gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C / °F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
9:16	14	6.11	13.77	181	0.798	1091	37.5	7.20
Final Sample Data:		6.11	13.77	181	0.798	10 91	37.5	7.20

11/4/22

Sample ID: MW-13S-110422
Sample Time: 09:30 4/4
Duplicate? ☐
MS/MSD? ☐
Dupe Samp ID:
No. of Bottles: 2

Analyses:
☑ VOCs
☐ SVOCs
☐ PCBs
☐ Pest.
☐ Metals/CN
☐ Dioxin

Methods:
☐ CLP
☐ SW846
☐ EPA/CWA
☐

Comments: Bailed Dry on 11/3/22 Sampled on 11/4/22
Reading were at Sample Time

Sampler(s): LN

ecology and environment
engineering and geology, p.c.

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland Oil Company, Rochester, NY
Well ID: PZ-1
E & E Project No.: EE1705007.0009.01
Date: 11/4/22

Initial Depth to Water: 6.80 feet TOIC
Start Time: 09:11
Total Well Depth: 12.20 feet TOIC
End Time: 10:21
Depth to Pump: — feet TOIC
☒ Bailer ☐ Pump
Initial Pump Rate: — Lpm / gpm
Pump Type: —
adjusted to: _____ at _____
Well Diameter: 1.5 inches
adjusted to: _____ at _____
1x Well Volume: 0.497 gallons x 3 = 1.49

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C) °F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
09:20	0	6.57	14.63	150	1.33	10.88	1000+	—
09:24	0.5	6.79	15.11	108	1.40	10.67	1000+	—
09:30	1.0	6.96	15.26	50	1.43	11.02	1000+	—
09:36	1.5	6.99	15.37	39	1.43	10.81	1000+	—
—	PURGED		3x VOLUME		—			—
			11/4 KZ					
Final Sample Data:		6.99	15.37	39	1.43	10.81	1000+	

Sample ID: PZ-1-110422
Duplicate? ☐
Dupe Samp ID: _____
Sample Time: 10:20
MS/MSD? ☐
No. of Bottles: 2

Analyses:
☒ VOCs
☐ SVOCs
☐ PCBs
☐ Pest.
☐ Metals/CN
☐ Dioxin

Methods:
☐ CLP
☐ SW846
☐ EPA/CWA
☐ _____

Comments: very turbid, no odor no sheen
11/4 KZ

Sampler(s): KZ

ecology and environment
engineering and geology, p.c.

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland Oil Company, Rochester, NY
Well ID: PW-1
E & E Project No.: EE1705007.0009.01
Date: 11/4/22

Initial Depth to Water: 12.70 feet TOIC
Total Well Depth: 29.41 feet TOIC
Depth to Pump: ~27 feet TOIC
Initial Pump Rate: variable (Lpm) / gpm
adjusted to: 0.125 at 1142
adjusted to: _____ at _____

Start Time: 950
End Time: _____
☒ Bailer ☒ Pump
Pump Type: Typhoon + Bladder
Well Diameter: ~~12~~ 8 inches
1x Well Volume: 43.63 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C / °F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet) — From Marked R.m
1040	7.25	7.14	16.05	-42	1.18	1.87	11.4	17.18
1045	~11.0	7.11	15.85	-50	1.19	1.14	4.1	17.77
1050	~13.0	7.11	15.77	-52	1.17	1.00	Ø	18.18
1055	~16.0	7.11	15.75	-53	1.14	1.02	Ø	18.69
1100	~20.0	7.15	15.76	-55	1.12	1.02	0.1	18.89
1105	~23.0	7.18	15.76	-55	1.07	1.10	0.1	18.84
1110	~25.0	7.17	15.71	-55	1.06	1.41	Ø	18.62
1115	~27	7.16	15.67	-55	1.09	0.96	Ø	18.84
1120	~29.5	7.17	15.69	-56	1.06	1.02	Ø	19.22
1125	~33.0	7.19	15.69	-56	1.02	1.08	Ø	19.11
1130	~37.0	7.19	15.67	-55	1.01	1.08	1.1	19.33
1135	~41.0	7.20	15.66	-55	1.00	1.12	2.4	19.54
1140	~43.5	7.19	15.65	-54	1.01	1.13	Ø	19.53
1142	~45.0	7.19	15.70	-53	1.03	1.19	0.9	19.38
1150	~45.5	7.18	15.80	-53	1.04	1.03	Ø	17.90
Final Sample Data:								

2 Pumps Running

Sample ID: _____
Sample Time: 1200
Duplicate? ☐
MS/MSD? ☐
Dupe Samp ID: _____
No. of Bottles: 2

Analyses:
☒ VOCs
☐ SVOCs
☐ PCBs
☐ Pest.
☐ Metals/CN
☐ Dioxin

Methods:
☐ CLP
☐ SW846
☐ EPA/CWA
☐ _____

Comments: Bailed 7 gal. to start, then pump w/typhoon + bladder pumps simultaneously until 45 gal. purged, then only continued purging w/Bladder pump

Sampler(s): LR, CP, RZ

ecology and environment
engineering and geology, p.c.

WELL PURGE & SAMPLE RECORD

Site Name/Location: Davis Howland Oil Company, Rochester, NY
Well ID: PW-1
E & E Project No.: EE1705007.0009.01
Date: 11/4/22

Initial Depth to Water: 12.70 feet TOIC
Total Well Depth: 29.41 feet TOIC
Depth to Pump: ~27 feet TOIC
Initial Pump Rate: variable Lpm / gpm
adjusted to: 0.125 at 1142
adjusted to: _____ at _____

Start Time: 950
End Time: 1205
☑ Bailer ☒ Pump
Pump Type: Typhoon + Bladder
Well Diameter: 8 inches
1x Well Volume: 43.63 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C / °F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
1155	~45.75	7.18	15.81	-53	1.06	1.07	0	17.47
1200	~46.0	7.17	15.79	-52	1.07	1.06	0	17.23
Final Sample Data:								

Sample ID: PW-1-110422
Sample Time: 1200
Duplicate? ☐
MS/MSD? ☐
Dupe Samp ID: _____
No. of Bottles: 2

Analyses:
☑ VOCs
☐ SVOCs
☐ PCBs
☐ Pest.
☐ Metals/CN
☐ Dioxin

Methods:
☐ CLP
☐ SW846
☐ EPA/CWA
☐ _____

Comments: _____

Sampler(s): LR, CP, KZ

B Data Usability Summary Reports

Data Usability Summary Report	Project: Davis Howland Oil Company
Date Completed: April 14, 2022	Completed by: Nick Archer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidance:

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010);
- EPA Region 2 Data Validation Standard Operating Procedures
    - SOP No. HW-24 Revision 4

Specific criteria for QC limits were obtained from WSP's Master QAPP for NYSDEC projects. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory
EE1705007.0009.01	22B1136-01	Con-Test, a Pace Analytical Laboratory

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	Name Corrections
22B1136-01	WG	TB2152022	22B1136-01	2022/02/15 08:00:00		
22B1136-01	WG	IW-01-02152022	22B1136-02	2022/02/15 12:40:00	MS/MSD/LR	
22B1136-01	WG	MW-2R-02152022	22B1136-03	2022/02/15 15:00:00		
22B1136-01	WG	MW-8R-02162022	22B1136-04	2022/02/16 10:35:00		
22B1136-01	WG	MW-17-02162022	22B1136-05	2022/02/16 13:00:00		
22B1136-01	WG	MW-8R-02162022Q	22B1136-06	2022/02/16 10:35:00	FD	MW-8R-02162022-Q

Table 1A Sample Test Summary

Work Order	Matrix	Test Method	Method Name	Number of Samples	Sample Type
22B1136-01	WG	E300.0	Anions - Sulfate	4	N/FD
22B1136-01	WG	E300.0	Anions - Sulfate	1	MS
22B1136-01	WG	A2320B	Alkalinity	4	N/FD
22B1136-01	WG	A2320B	Alkalinity	1	MS/MSD
22B1136-01	WG	SW8260D	Volatiles	5	N/FD
22B1136-01	WG	SW8260C	Volatiles	1	MS/MSD
22B1136-01	WG	SW8260C	Volatiles	1	TB

Data Usability Summary Report	Project: Davis Howland Oil Company
Date Completed: April 14, 2022	Completed by: Nick Archer

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes. Sample nomenclature for MW8R-02162022Q was changed to be consistent with existing nomenclature for field duplicate samples.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples MS/MSD – 1/20 samples Trip Blank - Every cooler with VOCs waters only Equipment Blank - 1/ 20 samples	1 MS/MSD per 4 samples. 1 FD per 4 samples. A trip blank was not required.
Case narrative present and complete?	Yes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provided summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- MS/MSD Outside Limits (Table 4)
- LCS Outside Limits (Table 5)
- Re-analysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to Tables List

Data Usability Summary Report	Project: Davis Howland Oil Company
Date Completed: April 14, 2022	Completed by: Nick Archer

Volatile Organic Compounds by GC/MS – Method 8260C	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
If sample results are <10 times the blank for target analytes, then "U" flag data.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch or 20 samples and one set of MS/MSDs (or MS/DUP) per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then “J” flag positive data in original sample due to matrix.	No. Tert-butyl alcohol was recovered above acceptance criteria in the MSD for sample IW-01-02152022. The sample result was non-detect; therefore, no qualification was made.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	Yes.
Is initial calibration verification frequency once immediately following calibration?	Yes.
Is %D in the continuing calibration for target compounds less than method specifications?	No. Bromomethane, tert-butyl alcohol, and carbon disulfide exhibited a %D outside acceptance criteria in the associated CCV. Samples IW-01-02152022, MW-17-02162022, MW-2R-02152022, MW-8R-02162022, MW8R-02162022Q, and TB2152022 were UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Yes. Samples IW-01-02152022, MW-17-02162022, MW-8R-02162022, and MW-8R-02162022-Q were diluted to bring the concentration of target analytes within calibration range. Elevated reporting limits have been provided. No impacts on data usability.
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes.

Sulfate by EPA Method 300.0	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
If sample results are <10 times the blank for target analytes, then "U" flag data.	No qualification required.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.

Data Usability Summary Report	Project: Davis Howland Oil Company
Date Completed: April 14, 2022	Completed by: Nick Archer

Sulfate by EPA Method 300.0	
Description	**Notes and Qualifiers**
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	No. Sulfate was recovered below acceptance criteria in the MS for sample IW-01-02152022. The result was J qualified as estimated.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	Yes.
Is initial calibration verification frequency once immediately following calibration?	Yes.
Is %D in the continuing calibration for target compounds less than method specifications?	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Samples IW-01-02152022, MW-17-02162022, MW-8R-02162022, and MW-8R-02162022-Q were diluted to bring sulfate concentrations within the calibration range. No impacts to data usability.
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes.

Alkalinity by Standard Method 2320B	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
If sample results are <10 times the blank for target analytes, then "U" flag data.	Not applicable.
Is Laboratory QC frequency at least one blank and LCS with each batch or 20 samples and one set of MS/MSDs (or MS/DUP) per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	Yes.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	Yes.
Is initial calibration verification frequency once immediately following calibration?	Yes.
Is %D in the continuing calibration for target compounds less than method specifications?	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes.

Data Usability Summary Report	Project: Davis Howland Oil Company
Date Completed: April 14, 2022	Completed by: Nick Archer

Summary of Findings

SW8260C:

- Bromomethane, tert-butyl alcohol, and carbon disulfide were UJ qualified in samples IW-01-02152022, MW-17-02162022, MW-2R-02152022, MW-8R-02162022, MW8R-02162022Q, and TB2152022 due to a %D outside acceptance criteria in the associated CCV
- Samples IW-01-02152022, MW-17-02162022, MW-8R-02162022, and MW-8R-02162022-Q were diluted to bring the concentration of target analytes within calibration range. Elevated reporting limits have been provided which may exceed screening criteria.

300.0:

- Sulfate was J qualified in sample IW-01-02152022 due to low recovery in the MS.
- Samples IW-01-02152022, MW-17-02162022, MW-8R-02162022, and MW-8R-02162022-Q were diluted to bring sulfate concentrations within the calibration range. No impacts to data usability.

Table 2 – List of Positive Results for Blank Samples
None

Table 2A – List of Samples Qualified for Method Blank Contamination
None

Table 2B – List of Samples Qualified for Field Blank Contamination
None

Table 3 – List of Samples with Surrogates outside Control Limits
None

Table 4 – List MS/MSD Recoveries and RPDs outside Control Limits

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	MS Rec.	MSD Rec.	Low Limit	High Limit	Sample Qualifier
E300.0	IW-01-02152022	MS	Sulfate (As SO4)	190	250	53.4	-	80	120	J Flag
SW8260C	IW-01-02152022	MSD	Tert-Butyl Alcohol	ND	250	127	132	70	130	None – High & ND

Table 5 – List LCS Recoveries outside Control Limits

Method	Sample ID	Sample Type	Analyte	Rec.	Low Limit	High Limit	Sample Qualifier
SW8260C	S068478-CCV1	CCV	Bromomethane	-49.1	-20	20	UJ Flag
SW8260C	S068478-CCV1	CCV	tert-Butyl Alcohol	29.7	-20	20	UJ Flag
SW8260C	S068478-CCV1	CCV	Carbon Disulfide	22.6	-20	20	UJ Flag

Table 6 – Samples that were Re-analyzed / Diluted

Sample ID	Lab ID	Method	Sample Type	Action
IW-01-02152022	22B1136-02	E300.0	N	2X: Diluted to bring the concentration of sulfate within the calibration range.
IW-01-02152022	22B1136-02	SW8260C	N	2X: Diluted to bring the concentration of target analytes within the calibration range.
MW-17-02162022	22B1136-05	E300.0	N	5X: Diluted to bring the concentration of sulfate within the calibration range.
MW-17-02162022	22B1136-05	SW8260C	N	5X: Diluted to bring the concentration of target analytes within the calibration range.
MW-8R-02162022	22B1136-04	E300.0	N	5X: Diluted to bring the concentration of sulfate within the calibration range.
MW-8R-02162022	22B1136-04	SW8260C	N	2X: Diluted to bring the concentration of target analytes within the calibration range.

Data Usability Summary Report	Project: Davis Howland Oil Company
Date Completed: April 14, 2022	Completed by: Nick Archer

Sample ID	Lab ID	Method	Sample Type	Action
MW-8R-02162022-Q	22B1136-06	E300.0	N	5X: Diluted to bring the concentration of target analytes within the calibration range.
MW8R-02162022Q	22B1136-06	SW8260C	N	2X: Diluted to bring the concentration of sulfate within the calibration range.

Table 7 – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	Anal Type	MW8R-02162022	MW8R-02162022Q	RPD	RPD Rating	Sample Qual
8260C	1,1-Dichloroethane	ug/l	WG	0.28	A	14	14	0.0%	Good	None
8260C	1,1-Dichloroethene	ug/l	WG	0.28	A	2.1	2.1	0.0%	Good	None
8260C	Benzene	ug/l	WG	0.4	A	0.68	0.64	6.1%	Good	None
8260C	Cis-1,2-Dichloroethylene	ug/l	WG	0.29	A	190	180	5.4%	Good	None
8260C	Ethylbenzene	ug/l	WG	0.43	A	7.0	6.6	5.9%	Good	None
8260C	m,p-Xylene	ug/l	WG	0.92	A	220	210	4.7%	Good	None
8260C	O-Xylene (1,2-Dimethylbenzene)	ug/l	WG	0.46	A	83	79	4.9%	Good	None
8260C	Styrene	ug/l	WG	0.21	A	0.22	ND	NC	-	None <2X PQL
8260C	Tetrachloroethylene (PCE)	ug/l	WG	0.37	A	0.46	0.44	4.4%	Good	None
8260C	Trans-1,2-Dichloroethene	ug/l	WG	0.34	A	5.3	5.4	1.9%	Good	None
8260C	Trichloroethylene (TCE)	ug/l	WG	0.38	A	5.9	5.9	0.0%	Good	None
8260C	Vinyl Chloride	ug/l	WG	0.42	A	4.4	4.2	4.7%	Good	None
A2320B	Lime (As Calcium Carbonate)	mg/l	WG	1	A	340	330	3.0%	Good	None
E300.0	Sulfate (As SO4)	mg/l	WG	5	A	230	210	9.1%	Good	None

Data Usability Summary Report	Project: Davis Howland Oil Company
Date Completed: April 14, 2022	Completed by: Nick Archer

Acronym List and Table Key:

CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
FD	=	field duplicate sample
GC/MS	=	gas chromatography / mass spectrometry
LCS	=	laboratory control sample
LCSD	=	laboratory control sample duplicate
MBLK	=	method blank
MS	=	matrix spike
MSD	=	matrix spike duplicate
N	=	normal field sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QAPP	=	quality assurance project plan
QC	=	quality control
RPD	=	relative percent difference
SDG	=	sample delivery group
TB	=	trip blank sample
TRG	=	target analyte
VOC	=	volatile organic compound
WG	=	groundwater (matrix)

Data Usability Summary Report	Project: Davis Howland Oil Company
Date Completed: 01/18/2023	Completed by: Nick Archer; Eridania Marte

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidance:

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010);
- EPA Region 2 Data Validation Standard Operating Procedures.

  SOP No. HW-34A, Revision 1, Trace Volatile Data Validation

Specific criteria for QC limits were obtained from WSP's Master QAPP for NYSDEC projects. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory
1705007.0009.01	22K0994	Pace Analytical Laboratory

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	Name Corrections
22K0994	WG	IW-01-110122	22K0994-06	2022/11/01 13:32:00		
22K0994	WG	MW-10R-110222	22K0994-11	2022/11/02 12:06:00		
22K0994	WG	MW-13S-110422	22K0994-18	2022/11/04 09:30:00		
22K0994	WG	MW-14R-110322	22K0994-14	2022/11/03 10:52:00		
22K0994	WG	MW-14S-110322	22K0994-15	2022/11/03 12:30:00		
22K0994	WG	MW-15R-110222	22K0994-08	2022/11/02 09:46:00		
22K0994	WG	MW-16R-110222	22K0994-09	2022/11/02 10:12:00		
22K0994	WG	MW-17R-110222	22K0994-12	2022/11/02 14:16:00		
22K0994	WG	MW-1S-110222	22K0994-10	2022/11/02 12:12:00	MS/MSD	
22K0994	WG	MW-2R-110322	22K0994-17	2022/11/03 14:11:00		
22K0994	WG	MW-2S-110322	22K0994-13	2022/11/03 10:58:00		
22K0994	WG	MW-5R-110122	22K0994-03	2022/11/01 10:32:00		
22K0994	WG	MW-8R-110122	22K0994-07	2022/11/01 13:40:00		
22K0994	WG	MW-9S-110122	22K0994-02	2022/11/01 09:52:00		
22K0994	WG	PW-1-110422	22K0994-20	2022/11/04 12:00:00		
22K0994	WG	PZ-1-110422	22K0994-19	2022/11/04 10:20:00		
22K0994	WG	PZ-2-110322	22K0994-16	2022/11/03 14:15:00		

Data Usability Summary Report	Project: Davis Howland Oil Company
Date Completed: 01/18/2023	Completed by: Nick Archer; Eridania Marte

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	Name Corrections
22K0994	WG	PZ-3-110122	22K0994-04	2022/11/01 11:18:00		
22K0994	WG	PZ-3-110122-Q	22K0994-05	2022/11/01 11:18:00	FD	
22K0994	WG	PZ-4-110422	22K0994-23	2022/11/04 14:40:00		
22K0994	WG	RB-110422	22K0994-21	2022/11/04 12:20:00		
22K0994	WG	TB-110122	22K0994-01	2022/11/01 09:37:00		

Table 1A Sample Test Summary

Work Order	Matrix	Test Method	Method Name	Number of Samples	Sample Type
22K0994	WG	E624	Volatile Organic Compounds (GC/MS)	20	N/FD
22K0994	WQ	E624	Volatile Organic Compounds (GC/MS)	1	MS/MSD
22K0994	WH	E624	Volatile Organic Compounds (GC/MS)	1	RB
22K0994	WQ	E624	Volatile Organic Compounds (GC/MS)	1	TB

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6ºC and in good condition as indicated on COC and Cooler Receipt Form?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples MS/MSD – 1/20 samples Trip Blank - Every cooler with VOCs waters only Equipment Blank - 1/ 20 samples	1 MS/MSD per 19 samples. 1 FD per 19 samples. 1 RB per 19 samples. 1 TB per 19 samples.
Case narrative present and complete?	Yes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provided summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- MS/MSD Outside Limits (Table 4)
- LCS/CCV Outside Limits (Table 5)
- Re-analysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to Tables List

Volatile Organic Compounds by EPA Method E624	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	Yes.

Volatile Organic Compounds by EPA Method E624	
Description	**Notes and Qualifiers**
If sample results are <10 times the blank for target analytes, then "U" flag data.	Methylene chloride was detected below the PQL in RB-110422. Sample MW-15R-110222 was U qualified as non-detect and the MDL was elevated to the detection concentration.
Is Laboratory QC frequency at least one blank and LCS with each batch or 20 samples and one set of MS/MSDs per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then “J” flag positive data in original sample due to matrix.	No. Trans-1,2-dichloroethene and vinyl chloride recovered above acceptance criteria in MSD of sample MW-1S-110222. The analytes were non-detect in the parent sample; therefore, no qualification was made.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Vinyl chloride recovered above acceptance criteria in LCS B322428-BS1 and LCS B322579-BS1. Samples IW-01-110122, MW-13S-110422, MW-14R-110322, MW-15R-110222, MW-16R-110222, MW-17R-110222, MW-2R-110322, MW-5R-110122, MW-8R-110122, MW-9S-110122, PW-1-110422, PZ-1-110422, PZ-3-110122, PZ-3-110122-Q, and PZ-4-110422 were J qualified as estimated. No qualification was made on the associated non-detected samples.
Is initial calibration for target compounds <20 %RSD or curve fit?	Yes.
Is initial calibration verification frequency once immediately following calibration?	Yes.
Is %D in the continuing calibration for target compounds less than method specifications?	No. Vinyl chloride exhibited a %D outside acceptance criteria in CCV S079081 and S079203. Samples MW-10R-110222, MW-14S-110322, MW-1S-110222, MW-2S-110322, PZ-2-110322, RB-110422, and TB-110122 were UJ qualified as estimated non-detect. Samples IW-01-110122, MW-13S-110422, MW-14R-110322, MW-15R-110222, MW-16R-110222, MW-17R-110222, MW-2R-110322, MW-5R-110122, MW-8R-110122, MW-9S-110122, PW-1-110422, PZ-1-110422, PZ-3-110122, PZ-3-110122-Q, and PZ-4-110422 were J qualified as estimated.

Data Usability Summary Report	Project: Davis Howland Oil Company
Date Completed: 01/18/2023	Completed by: Nick Archer; Eridania Marte

Volatile Organic Compounds by EPA Method E624	
Description	**Notes and Qualifiers**
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Yes. Samples MW-10R-110222 and PZ-4-110422 were diluted due to high concentrations of target analytes. Elevated reporting limits have been reported for multiple analytes. Samples IW-01-110122, MW-16R-110222, MW-17R-110222, MW-5R-110122, MW-8R-110122, and PW-1-110422 were diluted due to high concentrations of non-target analytes. Elevated reporting limits have been reported for multiple analytes.
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes.

Summary of Findings

- Methylene chloride was U qualified as non-detect in sample MW-15R-110222 due to a detection in the associated rinse blank.
- Methylene chloride was detected below the PQL in samples MW-15R-110222, MW-2R-110322, PZ-1-110422, PZ-3-110122, and RB-110422. These detections may be from laboratory contamination as there were no detects for methylene chloride in the samples taken in 2021.
- Vinyl chloride was J qualified in samples IW-01-110122, MW-13S-110422, MW-14R-110322, MW-15R-110222, MW-16R-110222, MW-17R-110222, MW-2R-110322, MW-5R-110122, MW-8R-110122, MW-9S-110122, PW-1-110422, PZ-1-110422, PZ-3-110122, PZ-3-110122-Q, and PZ-4-110422 due to high recovery in the associated LCS and a %D outside acceptance criteria in the associated CCV.
- Vinyl chloride was UJ qualified in samples MW-10R-110222, MW-14S-110322, MW-1S-110222, MW-2S-110322, PZ-2-110322, RB-110422, and TB-110122 due to a %D outside acceptance criteria in the associated CCV.
- Samples MW-10R-110222, PZ-4-110422, IW-01-110122, MW-16R-110222, MW-17R-110222, MW-5R-110122, MW-8R-110122, and PW-1-110422 were diluted due to target or non-target analytes. Elevated reporting limits have been reported for multiple analytes.

Table 2 – List of Positive Results for Blank Samples

Method	Sample ID	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
E624	RB-110422	MB	Methylene Chloride	0.350	J	ug/L	0.235	5

Table 2A – List of Samples Qualified for Method Blank Contamination

None

Table 2B – List of Samples Qualified for Field Blank Contamination

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qualifier	PQL	Affected Samples	Sample Flag
E624	RB-110422	WQ	Methylene Chloride	0.350	0.320	J	5	MW-15R-110222	U Flag

Table 3 – List of Samples with Surrogates outside Control Limits

None

Table 4 – List MS/MSD Recoveries and RPDs outside Control Limits

Method	Parent Sample	Sample Type	Analyte	Orig. Result	Spike Amount	Unit	Low Limit	High Limit	MS	SD	Sample Flag
E624	MW-1S-110222	MSD	Trans-1,2-Dichloroethene	ND	20	ug/L	54	156	147	162	None – High & ND
E624	MW-1S-110222	MSD	Vinyl Chloride	ND	20	ug/L	20	251	248	255	None – High & ND

Table 5 – List LCS/CCV Recoveries outside Control Limits

Method	Sample ID	Analyte	Rec.	Low Limit	High Limit	Sample Qualifier
E624	LCS B322428-BS1	Vinyl Chloride	202	5	195	J Flag/None – High & ND
E624	LCS B322579-BS1	Vinyl Chloride	222	5	195	J Flag/None – High & ND
E624	CCV S079081	Vinyl Chloride	131	-95	95	J Flag/UJ Flag
E624	CCV S079203	Vinyl Chloride	162	-95	95	J Flag/UJ Flag

Table 6 – Samples that were Re-analyzed

Sample ID	Lab ID	Method	Sample Type	Action
IW-01-110122	22K0994-06	E624	N	5X: Diluted due to high concentration of non-target analytes. Elevated reporting limits have been provided for multiple analytes.
MW-10R-110222	22K0994-11	E624	N	2X: Diluted due to high concentration of trichloroethylene. Elevated reporting limits have been provided for multiple analytes.
MW-16R-110222	22K0994-09	E624	N	5X: Diluted due to high concentration of non-target analytes. Elevated reporting limits have been provided for multiple analytes.

Sample ID	Lab ID	Method	Sample Type	Action
MW-17R-110222	22K0994-12	E624	N	4X: Diluted due to high concentration of non-target analytes. Elevated reporting limits have been provided for multiple analytes.
MW-5R-110122	22K0994-03	E624	N	4X: Diluted due to high concentration of non-target analytes. Elevated reporting limits have been provided for multiple analytes.
MW-8R-110122	22K0994-07	E624	N	2X: Diluted due to high concentration of non-target analytes. Elevated reporting limits have been provided for multiple analytes.
PW-1-110422	22K0994-20	E624	N	5X: Diluted due to high concentration of non-target analytes. Elevated reporting limits have been provided for multiple analytes.
PZ-4-110422	22K0994-23	E624	N	4X: Diluted due to high concentration of trichloroethylene and vinyl chloride. Elevated reporting limits have been provided for multiple analytes.

Table 7 – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	PZ-3-110122	PZ-3-110122-Q	RPD	RPD Rating	Sample Qual
E624	1,1,1-Trichloroethane (TCA)	ug/L	WG	2	0.710	0.770	8.1%	Good	None
E624	1,1-Dichloroethane	ug/L	WG	2	5.43	3.69	38.2%	Good	None
E624	1,1-Dichloroethene	ug/L	WG	2	0.190	0.210	10.0%	Good	None
E624	Methylene Chloride	ug/L	WG	5	0.260	ND	NC	-	None
E624	Tetrachloroethylene (PCE)	ug/L	WG	2	ND	0.270	NC	-	None
E624	Trans-1,2-Dichloroethene	ug/L	WG	2	0.680	0.660	3.0%	Good	None
E624	Trichloroethylene (TCE)	ug/L	WG	2	1.64	1.88	13.6%	Good	None
E624	Vinyl Chloride	ug/L	WG	2	2.17	2.59	17.6%	Good	None

Data Usability Summary Report	Project: Davis Howland Oil Company
Date Completed: 01/18/2023	Completed by: Nick Archer; Eridania Marte

Acronym List and Table Key:

CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
EPA	=	Environmental Protection Agency
FD	=	field duplicate sample
GC/MS	=	gas chromatography / mass spectrometry
LCS	=	laboratory control sample
LCSD	=	laboratory control sample duplicate
MBLK	=	method blank
MS	=	matrix spike
MSD	=	matrix spike duplicate
N	=	normal field sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QAPP	=	quality assurance project plan
QC	=	quality control
RB	=	rinsate blank sample
RPD	=	relative percent difference
SDG	=	sample delivery group
TB	=	trip blank sample
TRG	=	target analyte
ug/L	=	micrograms per liter
VOC	=	volatile organic compound
WG	=	groundwater (matrix)

C

County of Monroe Discharge Permit

Department of Environmental Services

Monroe County, New York

Adam J. Bello
County Executive

Michael J. Garland, P.E.
Director

May 19, 2022

Ms. Jenelle Gaylord
NYSDEC Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, NY 12233-7013

Re: Industrial Sewer Use Permit

Dear Ms. Jenelle Gaylord:

Attached you will find your Industrial Sewer Use Permit No. IWC-864, which will expire on May 31, 2025. Prior to expiration, we will mail you a renewal application.

Please refer to the Required Monitoring section of your permit. It will be the facility's responsibility to submit the required monitoring for the frequency listed.

If you have any questions regarding the permit, please call Sean Keenan at 585-753-7658.

COUNTY OF MONROE
SEWER USE PERMIT RENEWAL

Firm Name: NYSDEC Division of Environmental Remediation
200 Anderson Avenue

Mailing Addr: 625 Broadway, 12th Floor
Albany, NY 12233-7013

Permit Number: IWC-864
Fee: ~~$ 75.00~~
Effective: June 01, 2022
Expiration: May 31, 2025
W/C Expire: N/A 5/1/2022
District No: 8575

Has there been any revision to the plant sewer system or any change in industrial wastes discharged to the public sewer in the past twelve months

Yes: __ No: ✓ If yes, please explain in a separate letter.

Average monthly consumption for the past twelve (12) months:

Water Account No.(s) N/A (cu ft/gal) N/A

In consideration of the granting of this renewal permit the undersigned agrees to comply with all the requirements in the Initial Permit as listed under II.

Name of person to be contacted for inspection & sampling purposes:

Type or Print: Jill Gulczewski, Ecology & Environment Phone No: 716-684-8060

YOUR PERMIT MUST BE SIGNED AS FOLLOWS:

1 For a corporation by a responsible corporate officer A corporate officer means
(a) A president, secretary, treasurer or vice - president of the corporation in charge of a principal business function, or any other person who performs similar policy - or decision - making functions for the corporation or
(b) The manager of one or more manufacturing, production, or operation facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second - quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures

2 For a partnership or sole proprietorship by a general partner or the proprietor, respectively, or

3 By a duly authorized representative of the individual designated in items (1) or (2) above if

(a) The authorization is made in writing by the individual described in items (1) or (2).
(b) The authorization specifies either an individual or a position having responsibility for the overall operation of the facility from which the Industrial Discharge originates such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying named position), and
(c) The written authorization is submitted to this Department

Print or Type Jenelle Gaylord Phone No 518-402-9791

Signature [signature] Date 3/17/22

Title Project Manager

Renewal Approved by [signature] Issued this 18 day of MAY 20 22

Michael J. Garland, P.E.
Director of Environmental Services-PureWaters
Monroe County

COUNTY OF MONROE
SEWER USE PERMIT ENCLOSURE

NYSDEC Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, NY 12233-7013

PERMIT NUMBER: 864
DISTRICT NUMBER: 8575

TYPE OF BUSINESS: Groundwater Remediation
LOCATION: Davis Howland Oil Co. Site – 200 Anderson Ave.
Rochester, NY

SAMPLE POINT: IWC-864.2 – Monitoring Well Purge Water

REQUIRED MONITORING & EFFLUENT LIMITS

SAMPLE POINT: IWC-864.2 – Monitoring Well Purge Water

SELF-MONITORING FREQUENCY: **Each and Every Batch Discharge**

SAMPLING PROTOCOL: Sampling and analysis shall be performed in accordance with the techniques prescribed in 40CFR part 136 and amendments thereto. In the absence of 40 CFR Part 136 testing methodology, a New York State Department of Health, approved method is acceptable. A grab sample, collected from the above noted sample point shall be analyzed for the following:

Parameter	Sewer Use Limit	Action Level
Purgeable Aromatics		2.13 mg/L*
Purgeable Halocarbons		2.13 mg/L*
Acetone	(monitor only)	

DISCHARGE LIMITATIONS: The summation of purgeable aromatics and purgeable halocarbons greater than 10 µg/L shall not exceed 2.13 mg/L.

SPECIAL CONDITION:

Quarterly flow summaries shall be submitted for billing purposes. It is imperative these summaries are submitted in a timely manner. If there is no discharge for a given quarter, then a letter must be submitted stating so.

TERMS AND CONDITIONS

GENERAL REQUIRMENTS:

A. The permittee agrees to accept and abide by all provisions of the Sewer Use Law of Monroe County (MCSUL) and of all pertinent rules or regulations now in force or shall be adopted in the future.

B. In addition to the parameters/limits outlined, the total facility discharge shall meet all other concentration values listed within the MCSUL and as described in Article III, Section 3.3(d) of the Law.

C. Included in Article II, Section 2.1 of the MCSUL, is the definition of "Normal Sewage". "Normal Sewage" may be discharged to the sewer system in excess of the concentrations outlined in the definition, however, the facility will be subject to the imposition of a sewer surcharge and possible self-monitoring requirements as a result. Surcharging procedures are outlined in Article X of the MCSUL.

D. Regulatory sampling for analytes not specified under "required monitoring" shall be conducted by Monroe County at a minimum frequency of once every three (3) years.

E. This permit is not assignable or transferable. The permit is issued to a specific user and location.

F. Per Article IX, section 9.9 of the MCSUL, a violation by the permittee of the permit conditions may be cause for revocation or suspension of the permit after a Hearing by the Administrative Board, or if the violation is found to be within the emergency powers of the Director under Section 9.6. The revocation is immediate upon receipt of notice to the Industrial User. If the revocation or suspension is issued under Section 9.6, a Hearing shall be held as soon as possible.

G. As provided under Article VI, Section 6.1 of the MCSUL, the Director and/or his duly authorized representatives shall gain entry on to private lands by permission or duly issued warrant for the purpose of inspection, observation, measurement sampling and testing in accordance with the provisions of this law and its implementing Rules and Regulations. The Director or his representatives shall not have authority to inquire into any processes used in any industrial operation beyond that information having a direct bearing on the kind and source of discharge to the sewers or the on-site facilities for waste treatment. While performing the necessary work on private lands, referred to above, the Director or his duly authorized representative shall observe all safety rules applicable to the premises as established by the owner and/or occupant.

H. All required monitoring shall be analyzed by a New York State Department of Health certified laboratory. All sampling and analysis must be performed in accordance with Title 40 Code of Federal Regulations Part 136.

I. The pH range for this permit is 5.0 – 12.0 su. This range is specifically permitted by the Director as allowed under Article III, Section 3.3(b) of the MCSUL. pH must be analyzed within 15 minutes of the time of collection as specified in 40 CFR, part 136.

J. Discharges of wax, fats, oil or grease shall not exceed 100 mg/L as imposed by the Director under Article III, Section 3.3 of the MCSUL.

SURCHARGE CONCENTRATIONS:

Concentration and/or characteristics of normal sewage:

"Normal Sewage" shall mean sewage, industrial wastes or other wastes, which when analyzed, show concentration values with the following characteristics based on daily maximum limits:

a. B. O. D.	300 mg/L
b. Total Suspended Solids	300 mg/L
c. Total Phosphorus, as P	10 mg/L

Annual average concentrations above normal sewage are subject to surcharge as defined in Article X, section 10.7 of the MCSUL.

DISCHARGE LIMITATIONS (SEWER USE LIMITS)

Permissible concentrations of toxic substances and/or substances the Department wishes to control:

The concentration in sewage of any of the following toxic substances and/or substances the Department wishes to control shall not exceed the concentration limits specified when discharged into the County Sewer System; metal pollutants are expressed as <u>total</u> metals in mg/L (ppm): the following pollutant limits are based on daily maximum values:

a. Antimony (Sb)	1.0 mg/L
b. Arsenic (As)	0.5 mg/L
c. Barium (Ba)	2.0 mg/L
d. Beryllium (Be)	5.0 mg/L
e. Cadmium (Cd)	1.0 mg/L
f. Chromium (Cr)	3.0 mg/L
g. Copper (Cu)	3.0 mg/L
h. Cyanide (CN)	1.0 mg/L
i. Iron (Fe)	5.0 mg/L
j. Lead (Pb)	1.0 mg/L
k. Manganese (Mn)	5.0 mg/L
l. Mercury (Hg)	0.05 mg/L
m. Nickel (Ni)	3.0 mg/L
n. Selenium (Se)	2.0 mg/L
o. Silver (Ag)	2.0 mg/L
p. Thallium (Tl)	1.0 mg/L
q. Zinc (Zn)	5.0 mg/L

REPORTING REQUIREMENTS:

A. Per the requirements of 40 CFR, Part 403.12, Significant Industrial Users must submit Periodic Reports on Continued Compliance to the Control Authority on a biannual (2/yr) basis. Deadline dates of submission for these reports will be August 15 and February 15, respectively.

B. Discharge monitoring reports shall be submitted to the Control Authority upon receipt from the permittee's testing laboratory. Reports submitted from industrial users identified as Significant Industrial Users (SIU) must be accompanied by a certification statement as required by 40 CFR part 403 and the MCSUL, Article VI, section 6.12.

C. Any Industrial User subject to the reporting requirements of the General Pretreatment Regulations shall maintain records of all information resulting from any monitoring activities required by 40 CFR, part 403.12 for a minimum of three (3) years. These records shall be available for inspection and copying by the Control Authority. This period of retention shall be extended during the course

of any unresolved litigation regarding the discharge of pollutants by the Industrial User or the operation of the POTW Pretreatment Program or when requested by the Director or the Regional Administrator.

D. Pursuant to Article VI, Section 6.10 (4) of the MCSUL and the reporting requirements of the Code of Federal Regulations 40 CFR part 403.12, if a permitted user elects to perform monitoring at compliance monitoring locations more often than required and uses approved laboratory procedures, the results of all such additional monitoring and any additional flow measurements shall be reported to the Director on a timely basis and shall be included in reports as outlined in the MCSUL section 6.10(1)-(4).

NOTIFICATION REQUIREMENTS:

A. Pursuant to Article VI, Section 6.10(5), the permittee shall notify the Department within 24 hours of becoming aware that discharge monitoring is in violation of any permit limit. This notification shall be directed to the Industrial Waste Section at 585-753-7600 Option 4. The User shall also repeat sampling and analysis for the analyte in non-compliance and submit the results of the repeat analysis to Monroe County within 30 days after becoming aware of the violation.

B. Notify the Director in writing when considering a revision to the plant sewer system or any change in industrial waste discharges to the public sewers. The later encompasses either an increase or decrease in average daily volume or strength of waste or new wastes.

C. Notify the Director immediately of any accident, negligence, breakdown of pretreatment equipment or other occurrence that occasions discharge to the public sewer of any waste or process waters not covered by this permit.

SLUG CONTROL

An Industrial User shall be required to report any/all slug discharges to the Monroe County sewer system by calling 585-753-7600 option 4. For the purpose of this permit enclosure, a slug discharge shall be identified as any discharge of a non-routine, episodic nature, including but not limited to an accidental spill or a non-customary batch discharge. Following a review process, the Control Authority (Monroe County) shall determine the applicability of a facility slug control plan. If the Control Authority decides that a Slug Discharge Control Plan (SDCP) is needed, the plan shall contain, at a minimum, the following elements:

1. Description of discharge practices, including non-routine batch discharges.
2. Description of stored chemicals.
3. Procedures for immediately notifying the Control Authority of slug discharges, including any discharge that would violate a prohibition under 40 CFR 403.5 (b), with procedures for follow up written notification within five (5) days.
4. If necessary, procedures to prevent adverse impact from accidental spills, including, but not limited to, inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site run-off, worker training, building of containment structures or equipment, measures for containing toxic organic pollutants (including solvents) and/or measures and equipment for emergency purposes.

SNC DEFINITION:

In accordance with 40 CFR 403.8 (f) (vii), an Industrial User is in significant noncompliance (SNC) if its violations meet one or more of the following criteria:

A. Chronic violations of wastewater discharge limits – defined as those which 66% or more of all the measurements taken during a six-month period exceed (by any magnitude) the daily maximum limit or the average limit for the same pollutant parameter (ref. Article IX, section 9.19 – MCSUL). This criteria does NOT apply to the following Monroe County surchargeable parameters: Biochemical Oxygen Demand, Total Suspended Solids, Chlorine Demand and Total Phosphorus.

B. Technical review criteria (TRC) violations – defined as those in which 33% or more of all the measurements for each pollutant parameter taken during a six month period equal or exceed the product of the daily maximum limit or the average limit times the applicable TRC (ref. Article IX, section 9.19 – MCSUL). This criteria does NOT apply to the following Monroe County surchargeable parameters: Biochemical Oxygen Demand, Total Suspended Solids, Chlorine Demand and Total Phosphorus.

C. Any other violation of a pretreatment effluent limit (daily maximum or longer-term average) that the Control Authority determines has caused, alone or in combination with other discharges, interference or pass-through (including endangering the health or POTW personnel or the general public).

D. Any discharge of a pollutant that has caused imminent endangerment to human health, welfare or the environment or has resulted in the POTW's exercise of its emergency authority under paragraph (t)(1)(vi)(8) of 40 CFR part 403 to prevent such a discharge.

E. Failure to meet, within 90 days after the scheduled date, a compliance schedule milestone contained in a local control mechanism or enforcement order, for starting construction, completing construction or attaining final compliance.

F. Failure to provide, within 30 days after the due date, required reports such as BMRs, 90 day compliance reports, periodic reports on continued compliance.

G. Failure to accurately report noncompliance.

H. Any other violation or group of violations that the Control Authority determines will adversely affect the operation and implementation of the local Pretreatment Program.

PENALTIES

Should the facility be considered in Significant Non-Compliance (SNC), based on the above mentioned criteria, the minimum enforcement response by Monroe County will be the publication of the company name in the Gannett Rochester newspaper. The company will be published as an Industrial User in Significant Non-Compliance (SNC). Fines and criminal penalties may follow this publication (ref. Article IX – MCSUL).

Nothing in this permit shall be construed to relieve the permittees from civil/criminal penalties for noncompliance under Article IX, Section 9.7(a)(5) MCSUL. Article IX provides that any person who violates a permit condition is subject to a civil penalty not to exceed $25,000 for any one case and an additional penalty not to exceed $25,000 for each day of continued violation.

D

E & E Requests to Monroe County for On-site Disposal of IDW Water

ecology and environment engineering and geology, p.c.
Environmental Specialists

BUFFALO CORPORATE CENTER
368 Pleasant View Drive
Lancaster, New York 14086
Tel: (716) 684-8060, Fax: (716) 684-0844

October 27, 2022

Donald Wolf
Industrial Waste Engineer
Monroe County Department of Environmental Services
Office of Industrial Waste
145 Paul Road, Bldg. 1
Rochester, NY 14624

Dear Mr. Wolf,

Ecology and Environment Engineering and Geology, P.C. (E&E) is pleased to provide the attached analytical results for the purge water sample collected from water that is staged in a poly tank at the Davis-Howland Oil Company (DHOC) Site (No. 828088), located in Rochester, New York. This purge water was collected from well redevelopment and groundwater sampling in February 2022. The total amount of purge water is approximately 60 gallons.

The sample was collected in accordance with the County of Monroe Sewer Use Permit #IWC-864 for the DHOC site, and analyses performed in accordance with the parameters listed in the permit including purgeable aromatics and purgeable halocarbons. The analytical data report is included as Attachment 1 to this letter. No VOC concentrations were detected.

E&E is requesting to batch discharge the purge water to the previously agreed upon discharge point, located inside the building at 190 Anderson Avenue, upon approval by Monroe County Division of Pure Waters.

If you have any questions regarding this letter or the attached analytical results, please do not hesitate to contact me.

Sincerely,
Ecology and Environment Engineering and Geology, P. C.

Jill Gulczewski
Project Manager

cc: Jenelle Gaylord – NYSDEC Project Manager

Attachment 1
Analytical Results

CON-TEST, East Longmeadow, NJ
October 2022

Laboratory Work Order #: 22J3316

Lab Sample ID: 22J3316-01

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 26, 2022

Jill Gulczewski
NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202

Project Location: Rochester, NY
Client Job Number:
Project Number: 828088
Laboratory Work Order Number: 22J3316

Enclosed are results of analyses for samples as received by the laboratory on October 22, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

Table of Contents

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202
ATTN: Jill Gulczewski

REPORT DATE: 10/26/2022

PURCHASE ORDER NUMBER: 142937

PROJECT NUMBER: 828088

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22J3316

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Rochester, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
IDW-OCT22	22J3316-01	Waste Water		624.1	

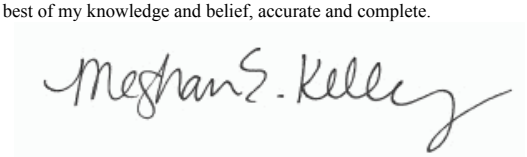
con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22J3316

Date Received: 10/22/2022

Field Sample #: IDW-OCT22 | Sampled: 10/21/2022 14:03

Sample ID: 22J3316-01

Sample Matrix: Waste Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	10/25/22	10/26/22 3:11	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.5	70-130		10/26/22 3:11
Toluene-d8	97.4	70-130		10/26/22 3:11
4-Bromofluorobenzene	103	70-130		10/26/22 3:11

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 5030B-624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22J3316-01 [IDW-OCT22]	B321074	5	5.00	10/25/22

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B321074 - SW-846 5030B											
Blank (B321074-BLK1)					Prepared: 10/25/22 Analyzed: 10/26/22						
Benzene	ND	1.00	0.200	µg/L							
Bromodichloromethane	ND	2.00	0.180	µg/L							
Bromoform	ND	2.00	0.383	µg/L							
Bromomethane	ND	2.00	1.54	µg/L							
Carbon Tetrachloride	ND	2.00	0.165	µg/L							
Chlorobenzene	ND	2.00	0.105	µg/L							
Chlorodibromomethane	ND	2.00	0.222	µg/L							
Chloroethane	ND	2.00	0.320	µg/L							
Chloroform	ND	2.00	0.168	µg/L							
Chloromethane	ND	2.00	0.522	µg/L							
1,2-Dichlorobenzene	ND	2.00	0.122	µg/L							
1,3-Dichlorobenzene	ND	2.00	0.118	µg/L							
1,4-Dichlorobenzene	ND	2.00	0.130	µg/L							
1,2-Dichloroethane	ND	2.00	0.308	µg/L							
1,1-Dichloroethane	ND	2.00	0.142	µg/L							
1,1-Dichloroethylene	ND	2.00	0.141	µg/L							
trans-1,2-Dichloroethylene	ND	2.00	0.169	µg/L							
1,2-Dichloropropane	ND	2.00	0.181	µg/L							
cis-1,3-Dichloropropene	ND	2.00	0.158	µg/L							
trans-1,3-Dichloropropene	ND	2.00	0.168	µg/L							
Ethylbenzene	ND	2.00	0.215	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.172	µg/L							
Methylene Chloride	ND	5.00	0.235	µg/L							
1,1,2,2-Tetrachloroethane	ND	2.00	0.127	µg/L							
Tetrachloroethylene	ND	2.00	0.187	µg/L							
Toluene	ND	1.00	0.224	µg/L							
1,1,1-Trichloroethane	ND	2.00	0.169	µg/L							
1,1,2-Trichloroethane	ND	2.00	0.183	µg/L							
Trichloroethylene	ND	2.00	0.189	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.00	0.176	µg/L							
Vinyl Chloride	ND	2.00	0.208	µg/L							
m+p Xylene	ND	2.00	0.459	µg/L							
o-Xylene	ND	1.00	0.230	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*24.3*			µg/L	25.0		97.2	70-130			
Surrogate: Toluene-d8	*25.0*			µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*25.6*			µg/L	25.0		102	70-130			
LCS (B321074-BS1)					Prepared: 10/25/22 Analyzed: 10/26/22						
Benzene	18	1.00	0.200	µg/L	20.0		90.8	65-135			
Bromodichloromethane	23	2.00	0.180	µg/L	20.0		114	65-135			
Bromoform	22	2.00	0.383	µg/L	20.0		108	70-130			
Bromomethane	13	2.00	1.54	µg/L	20.0		64.4	15-185			
Carbon Tetrachloride	21	2.00	0.165	µg/L	20.0		105	70-130			
Chlorobenzene	22	2.00	0.105	µg/L	20.0		108	65-135			
Chlorodibromomethane	24	2.00	0.222	µg/L	20.0		118	70-135			
Chloroethane	16	2.00	0.320	µg/L	20.0		80.2	40-160			
Chloroform	22	2.00	0.168	µg/L	20.0		109	70-135			
Chloromethane	8.7	2.00	0.522	µg/L	20.0		43.4	20-205			
1,2-Dichlorobenzene	21	2.00	0.122	µg/L	20.0		106	65-135			
1,3-Dichlorobenzene	21	2.00	0.118	µg/L	20.0		107	70-130			

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B321074 - SW-846 5030B											
LCS (B321074-BS1)					Prepared: 10/25/22 Analyzed: 10/26/22						
1,4-Dichlorobenzene	20	2.00	0.130	µg/L	20.0		100	65-135			
1,2-Dichloroethane	20	2.00	0.308	µg/L	20.0		98.4	70-130			
1,1-Dichloroethane	20	2.00	0.142	µg/L	20.0		101	70-130			
1,1-Dichloroethylene	16	2.00	0.141	µg/L	20.0		80.4	50-150			
trans-1,2-Dichloroethylene	16	2.00	0.169	µg/L	20.0		80.4	70-130			
1,2-Dichloropropane	21	2.00	0.181	µg/L	20.0		105	35-165			
cis-1,3-Dichloropropene	22	2.00	0.158	µg/L	20.0		112	25-175			
trans-1,3-Dichloropropene	25	2.00	0.168	µg/L	20.0		125	50-150			
Ethylbenzene	23	2.00	0.215	µg/L	20.0		115	60-140			
Methyl tert-Butyl Ether (MTBE)	20	2.00	0.172	µg/L	20.0		99.6	70-130			
Methylene Chloride	17	5.00	0.235	µg/L	20.0		87.4	60-140			
1,1,2,2-Tetrachloroethane	18	2.00	0.127	µg/L	20.0		92.0	60-140			
Tetrachloroethylene	22	2.00	0.187	µg/L	20.0		110	70-130			
Toluene	21	1.00	0.224	µg/L	20.0		104	70-130			
1,1,1-Trichloroethane	22	2.00	0.169	µg/L	20.0		110	70-130			
1,1,2-Trichloroethane	24	2.00	0.183	µg/L	20.0		119	70-130			
Trichloroethylene	24	2.00	0.189	µg/L	20.0		121	65-135			
Trichlorofluoromethane (Freon 11)	18	2.00	0.176	µg/L	20.0		89.8	50-150			
Vinyl Chloride	29	2.00	0.208	µg/L	20.0		143	5-195			
m+p Xylene	45	2.00	0.459	µg/L	40.0		114	70-130			
o-Xylene	23	1.00	0.230	µg/L	20.0		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.0*			µg/L	25.0		96.0	70-130			
Surrogate: Toluene-d8	*24.4*			µg/L	25.0		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	*26.8*			µg/L	25.0		107	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
624.1 in Water	
Benzene	CT,NY,MA,NH,RI,NC,ME,VA
Bromodichloromethane	CT,NY,MA,NH,RI,NC,ME,VA
Bromoform	CT,NY,MA,NH,RI,NC,ME,VA
Bromomethane	CT,NY,MA,NH,RI,NC,ME,VA
Carbon Tetrachloride	CT,NY,MA,NH,RI,NC,ME,VA
Chlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
Chlorodibromomethane	CT,NY,MA,NH,RI,NC,ME,VA
Chloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Chloroform	CT,NY,MA,NH,RI,NC,ME,VA
Chloromethane	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,3-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,4-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1-Dichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1-Dichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
trans-1,2-Dichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichloropropane	CT,NY,MA,NH,RI,NC,ME,VA
cis-1,3-Dichloropropene	CT,NY,MA,NH,RI,NC,ME,VA
trans-1,3-Dichloropropene	CT,NY,MA,NH,RI,NC,ME,VA
Ethylbenzene	CT,NY,MA,NH,RI,NC,ME,VA
Methyl tert-Butyl Ether (MTBE)	NY,MA,NH,NC
Methylene Chloride	CT,NY,MA,NH,RI,NC,ME,VA
1,1,2,2-Tetrachloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Tetrachloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
Toluene	CT,NY,MA,NH,RI,NC,ME,VA
1,1,1-Trichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1,2-Trichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Trichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NY,MA,NH,RI,NC,ME,VA
Vinyl Chloride	CT,NY,MA,NH,RI,NC,ME,VA
m+p Xylene	CT,NY,MA,NH,RI,NC
o-Xylene	CT,NY,MA,NH,RI,NC

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022

Pace Analytical®

Phone: 612-607-6400
Fax: 612-607-6344

(22) 5516 jill.gulczewski@wsp.com

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

1800 Elm Street SE
Minneapolis, MN 55414

jenelle.gaylord@dec.ny.gov & jill.gulczewski@wsp.com

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

CHAIN OF CUSTODY RECORD (New York)

Page _____ of _____

Company Name:	NYSDEC
Address:	625 BROADWAY (DER) ALBANY NY 12233
Phone:	518.402.9791
Project Name:	DAVIS-HOWLAND
Project Location:	ROCHESTER NY
Project Number:	NYSDEC site # 828088
Project Manager:	Jenelle Gaylord
Pace Analytical Quote Name/Number	
Invoice Recipient:	
Sampled By:	

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☒ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To:
Fax To #:

ANALYSIS REQUESTED

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	VOA 624.1	# of Containers	[2] Preservation Code	[3] Container Code
1	IDW-OCT22	10-21-22	2:03 pm		X	WW		X			

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Comments:

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time: 10-21-22
Received by: (signature)	Date/Time: 10/22 948
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

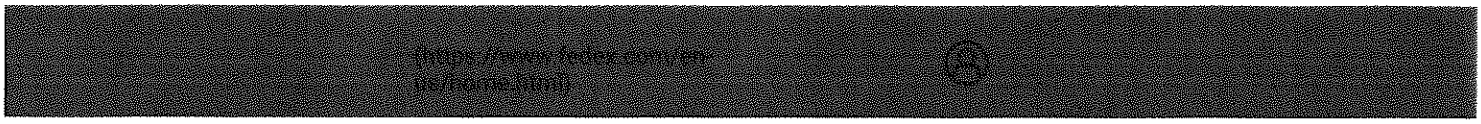
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents



FedEx® Tracking

DELIVERED

Saturday

10/22/2022 at 9:48 am

Signed for by: A.DIAZ

Obtain Proof of delivery

DELIVERY STATUS

Delivered

Get Status Updates

TRACKING ID

791305206762

FROM
BUFFALO, NY US

Label Created
10/18/2022 1:07 PM

PACKAGE RECEIVED BY FEDEX
CHEEKTOWAGA, NY
10/21/2022 5:55 PM

IN TRANSIT
WINDSOR LOCKS, CT
10/22/2022 8:11 AM

OUT FOR DELIVERY
WINDSOR LOCKS, CT
10/22/2022 8:33 AM

DELIVERED
East Longmeadow, MA US

DELIVERED
10/22/2022 at 9:48 AM

View travel history

Manage Delivery

Shipment facts

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.pacelabs.com

Pace PEOPLE ADVANCING SCIENCE

Doc# 277 Rev 6 July 2022

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client NH WSP

Received By [illegible] Date 10/12 Time 948

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct From Sample _____ Ambient _____ Melted Ice _____

Were samples within Tempurature? Within 2-6°C T By Gun # 3 Actual Temp - 2.0

By Blank # _____ Actual Temp - _____

Was Custody Seal In tact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client? T Analysis? T Sampler Name? F

Project? T ID's? T Collection Dates/Times? T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? NA

Are there Short Holds? F Who was notified? _____

Samples are received within holding time? T Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T splitting samples require F

Were trip blanks receive F On COC? F

Do All Samples Have the proper pH? NA Acid Base

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	2	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

Gulczewski, Jill

From: Wolf, Donald <DonaldWolf@monroecounty.gov>
Sent: Friday, October 28, 2022 7:26 AM
To: Gulczewski, Jill
Cc: Gaylord, Jenelle P (DEC); Cervi, Brian
Subject: RE: Davis-Howland NYSDEC Site No. 828088 batch discharge request

I reviewed the data and this discharge is approved.
We are planning to get a sample after your next round of groundwater sampling, tentatively at the end of next week.

Donald Wolf
Industrial Waste Engineer
Monroe County Department of Environmental Services
Office of Industrial Waste
145 Paul Road, Bldg 1
Rochester, NY 14624
(585)-753-5441

From: Gulczewski, Jill <Jill.Gulczewski@wsp.com>
Sent: Thursday, October 27, 2022 1:54 PM
To: Wolf, Donald <DonaldWolf@monroecounty.gov>
Cc: Gaylord, Jenelle P (DEC) <Jenelle.Gaylord@dec.ny.gov>; Cervi, Brian <Brian.Cervi@wsp.com>
Subject: Davis-Howland NYSDEC Site No. 828088 batch discharge request

~~~~~~~~~~~~~~~~~~~

Hello Don,

Please see attached analytical results and request for batch discharge of IDW water staged in the poly tank at the site (per Permit #IWC-864). This water is from previous well redevelopment and groundwater sampling at the site in February 2022.

As noted in a previous email, we will be conducting annual groundwater beginning next Monday, October 31, 2022 and will contact you when completed (at the end of the week) so Monroe County can collect a sample of purge water from the 2022 annual sampling event.

Thank you,
JILL

Jill Gulczewski
Senior Consultant, Environmental Engineer
Envision Sustainability Professional
~~~~~~~~~~~~~~~~~~~

ecology and environment
engineering and geology, p.c.

December 8, 2022

Donald Wolf
Industrial Waste Engineer
Monroe County Department of Environmental Services
Office of Industrial Waste
145 Paul Road, Bldg. 1
Rochester, NY 14624

Dear Mr. Wolf,

Ecology and Environment Engineering and Geology, P.C. (E&E) is pleased to provide the attached analytical results for the purge water sample collected on November 4, 2022 at the Davis-Howland Oil Corporation (DHOC) Site (No. 828088), located in Rochester, New York. This purge water was collected from groundwater sampling conducted November 1 – November 4, 2022. The groundwater monitoring wells are purged prior to sampling. This purge water is containerized onsite in two 50-gallon drums.

The sample was collected in accordance with the County of Monroe Sewer Use Permit #IWC-864 for the DHOC site, and analyses performed in accordance with the parameters listed in the permit including purgeable aromatics and purgeable halocarbons. The analytical data report is included as Attachment 1 to this letter. Total VOC concentration detected in the sample was 56 µg/L.

E&E is requesting to batch discharge the purge water to the previously agreed upon discharge point, located inside the building at 190 Anderson Avenue, upon approval by Monroe County Division of Pure Waters.

If you have any questions regarding this letter or the attached analytical results, please do not hesitate to contact me.

Sincerely,
Ecology and Environment Engineering and Geology, P. C.

Jill Gulczewski
Project Manager

cc: Jenelle Gaylord – NYSDEC Project Manager

Ecology and Environment Engineering and Geology, P.C.
40 La Riviere Drive, Suite 320
Buffalo, NY 14202

Tel.: +1 716 853-1220
Fax: +1 716 853-1322

Attachment 1
Analytical Results

CON-TEST, East Longmeadow, NJ
November 2022

Laboratory Work Order #: 22K0994

Lab Sample ID: 22K0994-22

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: IDW-110422 | Sampled: 11/4/2022 12:05

Sample ID: 22K0994-22

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	0.310	1.00	0.200	µg/L	1	J	624.1	11/9/22	11/11/22 5:49	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
1,1-Dichloroethane	7.49	2.00	0.142	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
trans-1,2-Dichloroethylene	9.98	2.00	0.169	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Methylene Chloride	0.290	5.00	0.235	µg/L	1	J	624.1	11/9/22	11/11/22 5:49	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Tetrachloroethylene	0.470	2.00	0.187	µg/L	1	J	624.1	11/9/22	11/11/22 5:49	EEH
Toluene	0.390	1.00	0.224	µg/L	1	J	624.1	11/9/22	11/11/22 5:49	EEH
1,1,1-Trichloroethane	0.540	2.00	0.169	µg/L	1	J	624.1	11/9/22	11/11/22 5:49	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Trichloroethylene	8.61	2.00	0.189	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Vinyl Chloride	28.4	2.00	0.208	µg/L	1	L-05	624.1	11/9/22	11/11/22 5:49	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		11/11/22 5:49
Toluene-d8	100	70-130		11/11/22 5:49
4-Bromofluorobenzene	93.4	70-130		11/11/22 5:49

Gulczewski, Jill

From: Wolf, Donald <DonaldWolf@monroecounty.gov>
Sent: Thursday, December 8, 2022 1:31 PM
To: Gulczewski, Jill
Subject: RE: Davis-Howland NYSDEC Site No. 828088 batch discharge request

The data is within the limits of the permit, the discharge is approved under permit IWC-864.

Donald Wolf
Industrial Waste Engineer
Monroe County Department of Environmental Services
Office of Industrial Waste
145 Paul Road, Bldg 1
Rochester, NY 14624
(585)-753-5441

From: Gulczewski, Jill <Jill.Gulczewski@wsp.com>
Sent: Thursday, December 8, 2022 12:54 PM
To: Wolf, Donald <DonaldWolf@monroecounty.gov>
Cc: Gaylord, Jenelle P (DEC) <Jenelle.Gaylord@dec.ny.gov>; Cervi, Brian <Brian.Cervi@wsp.com>
Subject: Davis-Howland NYSDEC Site No. 828088 batch discharge request

~~~~~~~~~~~~~~~~~~~

Hi Don,

Please see attached analytical results and request for batch discharge of purge water stored in two 50-gallon drums at the site (per Permit #IWC-864). This water is from groundwater sampling conducted at the site November 1 through November 4, 2022.

Thank you,
JILL

Jill Gulczewski
Senior Consultant, Environmental Engineer
Envision Sustainability Professional

M+ 1 716-462-2010

WSP USA
40 La Riviere Drive, Suite 320
Buffalo, NY 14202
~~~~~~~~~~~~~~~~~~~

E Laboratory Reports

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

March 4, 2022

Jill Gulczewski
NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202

Project Location: Rochester, NY
Client Job Number:
Project Number: 828088
Laboratory Work Order Number: 22B1136

Enclosed are results of analyses for samples as received by the laboratory on February 18, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Buttrick
Project Manager

Table of Contents

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202
ATTN: Jill Gulczewski

REPORT DATE: 3/4/2022

PURCHASE ORDER NUMBER: 142937

PROJECT NUMBER: 828088

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22B1136

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Rochester, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TB2152022	22B1136-01	Water		SW-846 8260D	
IW-01-02152022	22B1136-02	Water		EPA 300.0	
				SM21-23 2320B	
				SW-846 8260D	
MW-2R-02152022	22B1136-03	Water		SW-846 8260D	
MW-8R-02162022	22B1136-04	Water		EPA 300.0	
				SM21-23 2320B	
				SW-846 8260D	
MW-17-02162022	22B1136-05	Water		EPA 300.0	
				SM21-23 2320B	
				SW-846 8260D	
MW8R-02162022Q	22B1136-06	Water		EPA 300.0	
				SM21-23 2320B	
				SW-846 8260D	

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA 300.0

Qualifications:

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Sulfate

22B1136-02[IW-01-02152022], B302300-MS1

SW-846 8260D

Qualifications:

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

tert-Butyl Alcohol (TBA)

B301639-MSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

22B1136-02[IW-01-02152022], 22B1136-04[MW-8R-02162022], 22B1136-05[MW-17-02162022], 22B1136-06[MW8R-02162022Q]

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

22B1136-01[TB2152022], 22B1136-02[IW-01-02152022], 22B1136-03[MW-2R-02152022], 22B1136-04[MW-8R-02162022], 22B1136-05[MW-17-02162022], 22B1136-06[MW8R-02162022Q], B301639-BLK1, B301639-BS1, B301639-BSD1, B301639-MS1, B301639-MSD1, S068478-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Carbon Disulfide

B301639-BS1, B301639-BSD1, B301639-MS1, B301639-MSD1, S068478-CCV1

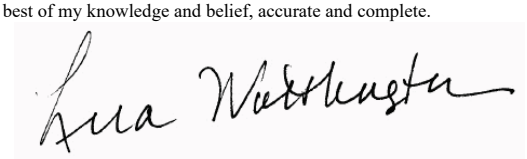
tert-Butyl Alcohol (TBA)

B301639-BS1, B301639-BSD1, B301639-MS1, B301639-MSD1, S068478-CCV1

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22B1136

Date Received: 2/18/2022

Field Sample #: TB2152022 | Sampled: 2/15/2022 08:00

Sample ID: 22B1136-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Bromomethane	ND	2.0	1.5	µg/L	1	V-05	SW-846 8260D	2/21/22	2/21/22 12:05	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22B1136

Date Received: 2/18/2022

Field Sample #: TB2152022 | Sampled: 2/15/2022 08:00

Sample ID: 22B1136-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Naphthalene	ND	2.0	0.24	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
Vinyl Chloride	ND	2.0	0.21	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	2/21/22	2/21/22 12:05	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		2/21/22 12:05
Toluene-d8	100	70-130		2/21/22 12:05
4-Bromofluorobenzene	101	70-130		2/21/22 12:05

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22B1136

Date Received: 2/18/2022

Field Sample #: IW-01-02152022 | Sampled: 2/15/2022 12:40

Sample ID: 22B1136-02

Sample Matrix: Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	4.1	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Acrylonitrile	ND	10	1.1	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	0.29	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Benzene	ND	2.0	0.40	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Bromobenzene	ND	2.0	0.30	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Bromochloromethane	ND	2.0	0.61	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Bromodichloromethane	ND	1.0	0.36	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Bromoform	ND	2.0	0.77	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Bromomethane	ND	4.0	3.1	µg/L	2	V-05	SW-846 8260D	2/21/22	2/21/22 17:35	EEH
2-Butanone (MEK)	ND	40	3.2	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
tert-Butyl Alcohol (TBA)	ND	40	9.4	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
n-Butylbenzene	ND	2.0	0.30	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
sec-Butylbenzene	ND	2.0	0.22	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
tert-Butylbenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	0.30	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Carbon Disulfide	ND	10	2.9	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Carbon Tetrachloride	ND	10	0.33	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Chlorobenzene	ND	2.0	0.21	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Chlorodibromomethane	ND	1.0	0.44	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Chloroethane	ND	4.0	0.64	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Chloroform	ND	4.0	0.34	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Chloromethane	ND	4.0	1.0	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
2-Chlorotoluene	ND	2.0	0.23	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
4-Chlorotoluene	ND	2.0	0.24	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	1.6	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,2-Dibromoethane (EDB)	ND	1.0	0.34	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Dibromomethane	ND	2.0	0.71	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,2-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,3-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,4-Dichlorobenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
trans-1,4-Dichloro-2-butene	ND	4.0	3.2	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Dichlorodifluoromethane (Freon 12)	ND	4.0	0.38	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,1-Dichloroethane	15	2.0	0.28	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,2-Dichloroethane	ND	2.0	0.62	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,1-Dichloroethylene	5.4	2.0	0.28	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
cis-1,2-Dichloroethylene	250	2.0	0.29	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
trans-1,2-Dichloroethylene	2.2	2.0	0.34	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,2-Dichloropropane	ND	2.0	0.36	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,3-Dichloropropane	ND	1.0	0.26	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
2,2-Dichloropropane	ND	2.0	0.65	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,1-Dichloropropene	ND	4.0	0.30	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
cis-1,3-Dichloropropene	ND	1.0	0.32	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
trans-1,3-Dichloropropene	ND	1.0	0.34	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Diethyl Ether	ND	4.0	0.36	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22B1136

Date Received: 2/18/2022

Field Sample #: IW-01-02152022 | Sampled: 2/15/2022 12:40

Sample ID: 22B1136-02

Sample Matrix: Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	0.26	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,4-Dioxane	ND	100	41	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Ethylbenzene	ND	2.0	0.43	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Hexachlorobutadiene	ND	1.2	0.91	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
2-Hexanone (MBK)	ND	20	2.2	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Isopropylbenzene (Cumene)	ND	2.0	0.22	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	0.19	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Methyl Acetate	ND	2.0	0.91	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	0.34	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Methyl Cyclohexane	ND	2.0	0.49	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Methylene Chloride	ND	10	0.47	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
4-Methyl-2-pentanone (MIBK)	ND	20	2.6	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Naphthalene	ND	4.0	0.49	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
n-Propylbenzene	ND	2.0	0.17	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Styrene	ND	2.0	0.21	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,1,1,2-Tetrachloroethane	ND	2.0	0.36	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Tetrachloroethylene	ND	2.0	0.37	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Tetrahydrofuran	ND	20	0.98	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Toluene	ND	2.0	0.45	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,2,3-Trichlorobenzene	ND	10	0.61	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,2,4-Trichlorobenzene	ND	2.0	0.50	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,3,5-Trichlorobenzene	ND	2.0	0.42	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,1,1-Trichloroethane	1.4	2.0	0.34	µg/L	2	J	SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,1,2-Trichloroethane	ND	2.0	0.37	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Trichloroethylene	6.7	2.0	0.38	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Trichlorofluoromethane (Freon 11)	ND	4.0	0.35	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,2,3-Trichloropropane	ND	4.0	0.56	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.45	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,2,4-Trimethylbenzene	ND	2.0	0.40	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
1,3,5-Trimethylbenzene	ND	2.0	0.23	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
Vinyl Chloride	28	4.0	0.42	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
m+p Xylene	ND	4.0	0.92	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH
o-Xylene	ND	2.0	0.46	µg/L	2		SW-846 8260D	2/21/22	2/21/22 17:35	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		2/21/22 17:35
Toluene-d8	98.2	70-130		2/21/22 17:35
4-Bromofluorobenzene	100	70-130		2/21/22 17:35

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22B1136

Date Received: 2/18/2022

Field Sample #: IW-01-02152022 | Sampled: 2/15/2022 12:40

Sample ID: 22B1136-02

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	340	1.0	mg/L	1		SM21-23 2320B	2/28/22	2/28/22 19:08	IS
Sulfate	190	5.0	mg/L	5	MS-07	EPA 300.0	3/2/22	3/2/22 16:48	IS

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22B1136

Date Received: 2/18/2022

Field Sample #: MW-2R-02152022 | Sampled: 2/15/2022 15:00

Sample ID: 22B1136-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	65	50	2.0	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Acrylonitrile	ND	5.0	0.55	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Benzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Bromochloromethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Bromodichloromethane	ND	0.50	0.18	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Bromoform	ND	1.0	0.38	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Bromomethane	ND	2.0	1.5	µg/L	1	V-05	SW-846 8260D	2/21/22	2/21/22 14:50	EEH
2-Butanone (MEK)	ND	20	1.6	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
sec-Butylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
tert-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Carbon Disulfide	ND	5.0	1.4	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Chlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Chlorodibromomethane	ND	0.50	0.22	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Chloroethane	ND	2.0	0.32	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Chloroform	ND	2.0	0.17	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Chloromethane	ND	2.0	0.52	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
2-Chlorotoluene	ND	1.0	0.11	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
4-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Dibromomethane	ND	1.0	0.35	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,1-Dichloroethane	1.0	1.0	0.14	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,2-Dichloroethane	ND	1.0	0.31	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,1-Dichloroethylene	0.21	1.0	0.14	µg/L	1	J	SW-846 8260D	2/21/22	2/21/22 14:50	EEH
cis-1,2-Dichloroethylene	27	1.0	0.15	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
trans-1,2-Dichloroethylene	0.70	1.0	0.17	µg/L	1	J	SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,2-Dichloropropane	ND	1.0	0.18	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
2,2-Dichloropropane	ND	1.0	0.33	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,1-Dichloropropene	ND	2.0	0.15	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Diethyl Ether	ND	2.0	0.18	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22B1136

Date Received: 2/18/2022

Field Sample #: MW-2R-02152022 | Sampled: 2/15/2022 15:00

Sample ID: 22B1136-03

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,4-Dioxane	ND	50	21	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Ethylbenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Hexachlorobutadiene	ND	0.60	0.46	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
2-Hexanone (MBK)	ND	10	1.1	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Methyl Acetate	ND	1.0	0.45	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Methyl Cyclohexane	ND	1.0	0.24	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Methylene Chloride	ND	5.0	0.23	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Naphthalene	ND	2.0	0.24	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
n-Propylbenzene	ND	1.0	0.086	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Styrene	ND	1.0	0.11	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Tetrachloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Tetrahydrofuran	ND	10	0.49	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Trichloroethylene	ND	1.0	0.19	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
Vinyl Chloride	6.5	2.0	0.21	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
m+p Xylene	ND	2.0	0.46	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH
o-Xylene	ND	1.0	0.23	µg/L	1		SW-846 8260D	2/21/22	2/21/22 14:50	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		2/21/22 14:50
Toluene-d8	99.8	70-130		2/21/22 14:50
4-Bromofluorobenzene	102	70-130		2/21/22 14:50

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22B1136

Date Received: 2/18/2022

Field Sample #: MW-8R-02162022 | Sampled: 2/16/2022 10:35

Sample ID: 22B1136-04

Sample Matrix: Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	4.1	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Acrylonitrile	ND	10	1.1	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	0.29	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Benzene	0.68	2.0	0.40	µg/L	2	J	SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Bromobenzene	ND	2.0	0.30	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Bromochloromethane	ND	2.0	0.61	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Bromodichloromethane	ND	1.0	0.36	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Bromoform	ND	2.0	0.77	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Bromomethane	ND	4.0	3.1	µg/L	2	V-05	SW-846 8260D	2/21/22	2/21/22 18:02	EEH
2-Butanone (MEK)	ND	40	3.2	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
tert-Butyl Alcohol (TBA)	ND	40	9.4	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
n-Butylbenzene	ND	2.0	0.30	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
sec-Butylbenzene	ND	2.0	0.22	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
tert-Butylbenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	0.30	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Carbon Disulfide	ND	10	2.9	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Carbon Tetrachloride	ND	10	0.33	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Chlorobenzene	ND	2.0	0.21	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Chlorodibromomethane	ND	1.0	0.44	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Chloroethane	ND	4.0	0.64	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Chloroform	ND	4.0	0.34	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Chloromethane	ND	4.0	1.0	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
2-Chlorotoluene	ND	2.0	0.23	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
4-Chlorotoluene	ND	2.0	0.24	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	1.6	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,2-Dibromoethane (EDB)	ND	1.0	0.34	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Dibromomethane	ND	2.0	0.71	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,2-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,3-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,4-Dichlorobenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
trans-1,4-Dichloro-2-butene	ND	4.0	3.2	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Dichlorodifluoromethane (Freon 12)	ND	4.0	0.38	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,1-Dichloroethane	14	2.0	0.28	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,2-Dichloroethane	ND	2.0	0.62	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,1-Dichloroethylene	2.1	2.0	0.28	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
cis-1,2-Dichloroethylene	190	2.0	0.29	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
trans-1,2-Dichloroethylene	5.3	2.0	0.34	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,2-Dichloropropane	ND	2.0	0.36	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,3-Dichloropropane	ND	1.0	0.26	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
2,2-Dichloropropane	ND	2.0	0.65	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,1-Dichloropropene	ND	4.0	0.30	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
cis-1,3-Dichloropropene	ND	1.0	0.32	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
trans-1,3-Dichloropropene	ND	1.0	0.34	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Diethyl Ether	ND	4.0	0.36	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22B1136

Date Received: 2/18/2022

Field Sample #: MW-8R-02162022 | Sampled: 2/16/2022 10:35

Sample ID: 22B1136-04

Sample Matrix: Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	0.26	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,4-Dioxane	ND	100	41	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Ethylbenzene	7.0	2.0	0.43	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Hexachlorobutadiene	ND	1.2	0.91	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
2-Hexanone (MBK)	ND	20	2.2	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Isopropylbenzene (Cumene)	ND	2.0	0.22	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	0.19	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Methyl Acetate	ND	2.0	0.91	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	0.34	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Methyl Cyclohexane	ND	2.0	0.49	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Methylene Chloride	ND	10	0.47	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
4-Methyl-2-pentanone (MIBK)	ND	20	2.6	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Naphthalene	ND	4.0	0.49	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
n-Propylbenzene	ND	2.0	0.17	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Styrene	0.22	2.0	0.21	µg/L	2	J	SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,1,1,2-Tetrachloroethane	ND	2.0	0.36	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Tetrachloroethylene	0.46	2.0	0.37	µg/L	2	J	SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Tetrahydrofuran	ND	20	0.98	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Toluene	ND	2.0	0.45	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,2,3-Trichlorobenzene	ND	10	0.61	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,2,4-Trichlorobenzene	ND	2.0	0.50	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,3,5-Trichlorobenzene	ND	2.0	0.42	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,1,1-Trichloroethane	ND	2.0	0.34	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,1,2-Trichloroethane	ND	2.0	0.37	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Trichloroethylene	5.9	2.0	0.38	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Trichlorofluoromethane (Freon 11)	ND	4.0	0.35	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,2,3-Trichloropropane	ND	4.0	0.56	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.45	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,2,4-Trimethylbenzene	ND	2.0	0.40	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
1,3,5-Trimethylbenzene	ND	2.0	0.23	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
Vinyl Chloride	4.4	4.0	0.42	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
m+p Xylene	220	4.0	0.92	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH
o-Xylene	83	2.0	0.46	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:02	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.0	70-130		2/21/22 18:02
Toluene-d8	99.6	70-130		2/21/22 18:02
4-Bromofluorobenzene	101	70-130		2/21/22 18:02

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22B1136

Date Received: 2/18/2022

Field Sample #: MW-8R-02162022 | Sampled: 2/16/2022 10:35

Sample ID: 22B1136-04

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	340	1.0	mg/L	1		SM21-23 2320B	2/28/22	2/28/22 19:30	IS
Sulfate	230	5.0	mg/L	5		EPA 300.0	3/2/22	3/2/22 18:17	IS

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22B1136

Date Received: 2/18/2022

Field Sample #: MW-17-02162022 | Sampled: 2/16/2022 13:00

Sample ID: 22B1136-05

Sample Matrix: Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	250	10	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Acrylonitrile	ND	25	2.7	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.5	0.71	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Benzene	ND	5.0	1.0	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Bromobenzene	ND	5.0	0.75	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Bromochloromethane	ND	5.0	1.5	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Bromodichloromethane	ND	2.5	0.90	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Bromoform	ND	5.0	1.9	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Bromomethane	ND	10	7.7	µg/L	5	V-05	SW-846 8260D	2/21/22	2/21/22 18:30	EEH
2-Butanone (MEK)	45	100	8.1	µg/L	5	J	SW-846 8260D	2/21/22	2/21/22 18:30	EEH
tert-Butyl Alcohol (TBA)	ND	100	23	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
n-Butylbenzene	ND	5.0	0.76	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
sec-Butylbenzene	ND	5.0	0.55	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
tert-Butylbenzene	ND	5.0	0.64	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	2.5	0.74	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Carbon Disulfide	ND	25	7.2	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Carbon Tetrachloride	ND	25	0.82	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Chlorobenzene	ND	5.0	0.53	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Chlorodibromomethane	ND	2.5	1.1	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Chloroethane	ND	10	1.6	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Chloroform	ND	10	0.84	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Chloromethane	ND	10	2.6	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
2-Chlorotoluene	ND	5.0	0.57	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
4-Chlorotoluene	ND	5.0	0.59	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	25	4.0	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,2-Dibromoethane (EDB)	ND	2.5	0.85	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Dibromomethane	ND	5.0	1.8	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,2-Dichlorobenzene	ND	5.0	0.61	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,3-Dichlorobenzene	ND	5.0	0.59	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,4-Dichlorobenzene	ND	5.0	0.65	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
trans-1,4-Dichloro-2-butene	ND	10	8.1	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Dichlorodifluoromethane (Freon 12)	ND	10	0.96	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,1-Dichloroethane	25	5.0	0.71	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,2-Dichloroethane	ND	5.0	1.5	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,1-Dichloroethylene	9.0	5.0	0.71	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
cis-1,2-Dichloroethylene	580	5.0	0.73	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
trans-1,2-Dichloroethylene	6.3	5.0	0.84	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,2-Dichloropropane	ND	5.0	0.91	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,3-Dichloropropane	ND	2.5	0.65	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
2,2-Dichloropropane	ND	5.0	1.6	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,1-Dichloropropene	ND	10	0.75	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
cis-1,3-Dichloropropene	ND	2.5	0.79	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
trans-1,3-Dichloropropene	ND	2.5	0.84	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Diethyl Ether	ND	10	0.91	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22B1136

Date Received: 2/18/2022

Field Sample #: MW-17-02162022 | Sampled: 2/16/2022 13:00

Sample ID: 22B1136-05

Sample Matrix: Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	2.5	0.64	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,4-Dioxane	ND	250	100	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Ethylbenzene	ND	5.0	1.1	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Hexachlorobutadiene	ND	3.0	2.3	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
2-Hexanone (MBK)	ND	50	5.6	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Isopropylbenzene (Cumene)	ND	5.0	0.54	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
p-Isopropyltoluene (p-Cymene)	ND	5.0	0.49	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Methyl Acetate	ND	5.0	2.3	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Methyl tert-Butyl Ether (MTBE)	ND	5.0	0.86	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Methyl Cyclohexane	ND	5.0	1.2	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Methylene Chloride	2.8	25	1.2	µg/L	5	J	SW-846 8260D	2/21/22	2/21/22 18:30	EEH
4-Methyl-2-pentanone (MIBK)	ND	50	6.4	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Naphthalene	ND	10	1.2	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
n-Propylbenzene	ND	5.0	0.43	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Styrene	ND	5.0	0.53	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,1,1,2-Tetrachloroethane	ND	5.0	0.89	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,1,2,2-Tetrachloroethane	ND	2.5	0.63	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Tetrachloroethylene	2.0	5.0	0.94	µg/L	5	J	SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Tetrahydrofuran	ND	50	2.5	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Toluene	ND	5.0	1.1	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,2,3-Trichlorobenzene	ND	25	1.5	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,2,4-Trichlorobenzene	ND	5.0	1.2	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,3,5-Trichlorobenzene	ND	5.0	1.1	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,1,1-Trichloroethane	ND	5.0	0.84	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,1,2-Trichloroethane	ND	5.0	0.91	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Trichloroethylene	34	5.0	0.95	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Trichlorofluoromethane (Freon 11)	ND	10	0.88	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,2,3-Trichloropropane	ND	10	1.4	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	1.1	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,2,4-Trimethylbenzene	ND	5.0	0.99	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
1,3,5-Trimethylbenzene	ND	5.0	0.57	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
Vinyl Chloride	52	10	1.0	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
m+p Xylene	ND	10	2.3	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH
o-Xylene	ND	5.0	1.1	µg/L	5		SW-846 8260D	2/21/22	2/21/22 18:30	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.8	70-130		2/21/22 18:30
Toluene-d8	99.8	70-130		2/21/22 18:30
4-Bromofluorobenzene	102	70-130		2/21/22 18:30

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22B1136

Date Received: 2/18/2022

Field Sample #: MW-17-02162022 | Sampled: 2/16/2022 13:00

Sample ID: 22B1136-05

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	280	1.0	mg/L	1		SM21-23 2320B	2/28/22	2/28/22 19:41	IS
Sulfate	110	5.0	mg/L	5		EPA 300.0	3/2/22	3/2/22 19:01	IS

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22B1136

Date Received: 2/18/2022

Field Sample #: MW8R-02162022Q | Sampled: 2/16/2022 10:35

Sample ID: 22B1136-06

Sample Matrix: Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	4.1	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Acrylonitrile	ND	10	1.1	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.0	0.29	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Benzene	0.64	2.0	0.40	µg/L	2	J	SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Bromobenzene	ND	2.0	0.30	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Bromochloromethane	ND	2.0	0.61	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Bromodichloromethane	ND	1.0	0.36	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Bromoform	ND	2.0	0.77	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Bromomethane	ND	4.0	3.1	µg/L	2	V-05	SW-846 8260D	2/21/22	2/21/22 18:57	EEH
2-Butanone (MEK)	ND	40	3.2	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
tert-Butyl Alcohol (TBA)	ND	40	9.4	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
n-Butylbenzene	ND	2.0	0.30	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
sec-Butylbenzene	ND	2.0	0.22	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
tert-Butylbenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	0.30	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Carbon Disulfide	ND	10	2.9	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Carbon Tetrachloride	ND	10	0.33	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Chlorobenzene	ND	2.0	0.21	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Chlorodibromomethane	ND	1.0	0.44	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Chloroethane	ND	4.0	0.64	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Chloroform	ND	4.0	0.34	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Chloromethane	ND	4.0	1.0	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
2-Chlorotoluene	ND	2.0	0.23	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
4-Chlorotoluene	ND	2.0	0.24	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	1.6	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,2-Dibromoethane (EDB)	ND	1.0	0.34	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Dibromomethane	ND	2.0	0.71	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,2-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,3-Dichlorobenzene	ND	2.0	0.24	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,4-Dichlorobenzene	ND	2.0	0.26	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
trans-1,4-Dichloro-2-butene	ND	4.0	3.2	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Dichlorodifluoromethane (Freon 12)	ND	4.0	0.38	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,1-Dichloroethane	14	2.0	0.28	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,2-Dichloroethane	ND	2.0	0.62	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,1-Dichloroethylene	2.1	2.0	0.28	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
cis-1,2-Dichloroethylene	180	2.0	0.29	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
trans-1,2-Dichloroethylene	5.4	2.0	0.34	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,2-Dichloropropane	ND	2.0	0.36	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,3-Dichloropropane	ND	1.0	0.26	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
2,2-Dichloropropane	ND	2.0	0.65	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,1-Dichloropropene	ND	4.0	0.30	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
cis-1,3-Dichloropropene	ND	1.0	0.32	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
trans-1,3-Dichloropropene	ND	1.0	0.34	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Diethyl Ether	ND	4.0	0.36	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22B1136

Date Received: 2/18/2022

Field Sample #: MW8R-02162022Q | Sampled: 2/16/2022 10:35

Sample ID: 22B1136-06

Sample Matrix: Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	0.26	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,4-Dioxane	ND	100	41	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Ethylbenzene	6.6	2.0	0.43	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Hexachlorobutadiene	ND	1.2	0.91	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
2-Hexanone (MBK)	ND	20	2.2	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Isopropylbenzene (Cumene)	ND	2.0	0.22	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
p-Isopropyltoluene (p-Cymene)	ND	2.0	0.19	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Methyl Acetate	ND	2.0	0.91	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.0	0.34	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Methyl Cyclohexane	ND	2.0	0.49	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Methylene Chloride	ND	10	0.47	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
4-Methyl-2-pentanone (MIBK)	ND	20	2.6	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Naphthalene	ND	4.0	0.49	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
n-Propylbenzene	ND	2.0	0.17	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Styrene	ND	2.0	0.21	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,1,1,2-Tetrachloroethane	ND	2.0	0.36	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Tetrachloroethylene	0.44	2.0	0.37	µg/L	2	J	SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Tetrahydrofuran	ND	20	0.98	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Toluene	ND	2.0	0.45	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,2,3-Trichlorobenzene	ND	10	0.61	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,2,4-Trichlorobenzene	ND	2.0	0.50	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,3,5-Trichlorobenzene	ND	2.0	0.42	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,1,1-Trichloroethane	ND	2.0	0.34	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,1,2-Trichloroethane	ND	2.0	0.37	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Trichloroethylene	5.9	2.0	0.38	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Trichlorofluoromethane (Freon 11)	ND	4.0	0.35	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,2,3-Trichloropropane	ND	4.0	0.56	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.45	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,2,4-Trimethylbenzene	ND	2.0	0.40	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
1,3,5-Trimethylbenzene	ND	2.0	0.23	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
Vinyl Chloride	4.2	4.0	0.42	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
m+p Xylene	210	4.0	0.92	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH
o-Xylene	79	2.0	0.46	µg/L	2		SW-846 8260D	2/21/22	2/21/22 18:57	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.8	70-130		2/21/22 18:57
Toluene-d8	99.4	70-130		2/21/22 18:57
4-Bromofluorobenzene	101	70-130		2/21/22 18:57

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22B1136

Date Received: 2/18/2022

Field Sample #: MW8R-02162022Q | Sampled: 2/16/2022 10:35

Sample ID: 22B1136-06

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	330	1.0	mg/L	1		SM21-23 2320B	2/28/22	2/28/22 19:45	IS
Sulfate	210	5.0	mg/L	5		EPA 300.0	3/2/22	3/2/22 19:46	IS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 300.0-EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22B1136-02 [IW-01-02152022]	B302300	10.0	10.0	03/02/22
22B1136-04 [MW-8R-02162022]	B302300	10.0	10.0	03/02/22
22B1136-05 [MW-17-02162022]	B302300	10.0	10.0	03/02/22
22B1136-06 [MW8R-02162022Q]	B302300	10.0	10.0	03/02/22

SM21-23 2320B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22B1136-02 [IW-01-02152022]	B302111	100	100	02/28/22
22B1136-04 [MW-8R-02162022]	B302111	100	100	02/28/22
22B1136-05 [MW-17-02162022]	B302111	100	100	02/28/22
22B1136-06 [MW8R-02162022Q]	B302111	100	100	02/28/22

Prep Method: SW-846 5030B-SW-846 8260D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22B1136-01 [TB2152022]	B301639	5	5.00	02/21/22
22B1136-02 [IW-01-02152022]	B301639	2.5	5.00	02/21/22
22B1136-03 [MW-2R-02152022]	B301639	5	5.00	02/21/22
22B1136-04 [MW-8R-02162022]	B301639	2.5	5.00	02/21/22
22B1136-05 [MW-17-02162022]	B301639	1	5.00	02/21/22
22B1136-06 [MW8R-02162022Q]	B301639	2.5	5.00	02/21/22

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B301639 - SW-846 5030B											
Blank (B301639-BLK1)					Prepared & Analyzed: 02/21/22						
Acetone	ND	50	2.0	µg/L							
Acrylonitrile	ND	5.0	0.55	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.14	µg/L							
Benzene	ND	1.0	0.20	µg/L							
Bromobenzene	ND	1.0	0.15	µg/L							
Bromochloromethane	ND	1.0	0.31	µg/L							
Bromodichloromethane	ND	0.50	0.18	µg/L							
Bromoform	ND	1.0	0.38	µg/L							
Bromomethane	ND	2.0	1.5	µg/L							V-05
2-Butanone (MEK)	ND	20	1.6	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	4.7	µg/L							
n-Butylbenzene	ND	1.0	0.15	µg/L							
sec-Butylbenzene	ND	1.0	0.11	µg/L							
tert-Butylbenzene	ND	1.0	0.13	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.15	µg/L							
Carbon Disulfide	ND	5.0	1.4	µg/L							
Carbon Tetrachloride	ND	5.0	0.16	µg/L							
Chlorobenzene	ND	1.0	0.11	µg/L							
Chlorodibromomethane	ND	0.50	0.22	µg/L							
Chloroethane	ND	2.0	0.32	µg/L							
Chloroform	ND	2.0	0.17	µg/L							
Chloromethane	ND	2.0	0.52	µg/L							
2-Chlorotoluene	ND	1.0	0.11	µg/L							
4-Chlorotoluene	ND	1.0	0.12	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.80	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	0.17	µg/L							
Dibromomethane	ND	1.0	0.35	µg/L							
1,2-Dichlorobenzene	ND	1.0	0.12	µg/L							
1,3-Dichlorobenzene	ND	1.0	0.12	µg/L							
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	1.6	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.19	µg/L							
1,1-Dichloroethane	ND	1.0	0.14	µg/L							
1,2-Dichloroethane	ND	1.0	0.31	µg/L							
1,1-Dichloroethylene	ND	1.0	0.14	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L							
1,2-Dichloropropane	ND	1.0	0.18	µg/L							
1,3-Dichloropropane	ND	0.50	0.13	µg/L							
2,2-Dichloropropane	ND	1.0	0.33	µg/L							
1,1-Dichloropropene	ND	2.0	0.15	µg/L							
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L							
trans-1,3-Dichloropropene	ND	0.50	0.17	µg/L							
Diethyl Ether	ND	2.0	0.18	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	0.13	µg/L							
1,4-Dioxane	ND	50	21	µg/L							
Ethylbenzene	ND	1.0	0.21	µg/L							
Hexachlorobutadiene	ND	0.60	0.46	µg/L							
2-Hexanone (MBK)	ND	10	1.1	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L							

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B301639 - SW-846 5030B												
Blank (B301639-BLK1)					Prepared & Analyzed: 02/21/22							
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.097	µg/L								
Methyl Acetate	ND	1.0	0.45	µg/L								
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L								
Methyl Cyclohexane	ND	1.0	0.24	µg/L								
Methylene Chloride	ND	5.0	0.23	µg/L								
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L								
Naphthalene	ND	2.0	0.24	µg/L								
n-Propylbenzene	ND	1.0	0.086	µg/L								
Styrene	ND	1.0	0.11	µg/L								
1,1,1,2-Tetrachloroethane	ND	1.0	0.18	µg/L								
1,1,2,2-Tetrachloroethane	ND	0.50	0.13	µg/L								
Tetrachloroethylene	ND	1.0	0.19	µg/L								
Tetrahydrofuran	ND	10	0.49	µg/L								
Toluene	ND	1.0	0.22	µg/L								
1,2,3-Trichlorobenzene	ND	5.0	0.30	µg/L								
1,2,4-Trichlorobenzene	ND	1.0	0.25	µg/L								
1,3,5-Trichlorobenzene	ND	1.0	0.21	µg/L								
1,1,1-Trichloroethane	ND	1.0	0.17	µg/L								
1,1,2-Trichloroethane	ND	1.0	0.18	µg/L								
Trichloroethylene	ND	1.0	0.19	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	0.18	µg/L								
1,2,3-Trichloropropane	ND	2.0	0.28	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.23	µg/L								
1,2,3-Trimethylbenzene	ND	0.50	0.35	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	0.20	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	0.11	µg/L								
Vinyl Chloride	ND	2.0	0.21	µg/L								
m+p Xylene	ND	2.0	0.46	µg/L								
o-Xylene	ND	1.0	0.23	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*26.1*			µg/L	25.0		104	70-130				
Surrogate: Toluene-d8	*25.0*			µg/L	25.0		99.8	70-130				
Surrogate: 4-Bromofluorobenzene	*25.5*			µg/L	25.0		102	70-130				
LCS (B301639-BS1)					Prepared & Analyzed: 02/21/22							
Acetone	118	50	2.0	µg/L	100		118	70-160				†
Acrylonitrile	11.9	5.0	0.55	µg/L	10.0		119	70-130				
tert-Amyl Methyl Ether (TAME)	11.0	0.50	0.14	µg/L	10.0		110	70-130				
Benzene	10.2	1.0	0.20	µg/L	10.0		102	70-130				
Bromobenzene	11.1	1.0	0.15	µg/L	10.0		111	70-130				
Bromochloromethane	10.8	1.0	0.31	µg/L	10.0		108	70-130				
Bromodichloromethane	10.9	0.50	0.18	µg/L	10.0		109	70-130				
Bromoform	12.4	1.0	0.38	µg/L	10.0		124	70-130				
Bromomethane	10.4	2.0	1.5	µg/L	10.0		104	40-160			V-05	†
2-Butanone (MEK)	109	20	1.6	µg/L	100		109	40-160				†
tert-Butyl Alcohol (TBA)	144	20	4.7	µg/L	100		144	40-160			V-20	†
n-Butylbenzene	10.7	1.0	0.15	µg/L	10.0		107	70-130				
sec-Butylbenzene	10.7	1.0	0.11	µg/L	10.0		107	70-130				
tert-Butylbenzene	10.8	1.0	0.13	µg/L	10.0		108	70-130				
tert-Butyl Ethyl Ether (TBEE)	10.9	0.50	0.15	µg/L	10.0		109	70-130				

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B301639 - SW-846 5030B											
LCS (B301639-BS1)					Prepared & Analyzed: 02/21/22						
Carbon Disulfide	125	5.0	1.4	µg/L	100		125	70-130			V-20
Carbon Tetrachloride	11.0	5.0	0.16	µg/L	10.0		110	70-130			
Chlorobenzene	11.0	1.0	0.11	µg/L	10.0		110	70-130			
Chlorodibromomethane	11.3	0.50	0.22	µg/L	10.0		113	70-130			
Chloroethane	10.4	2.0	0.32	µg/L	10.0		104	70-130			
Chloroform	10.8	2.0	0.17	µg/L	10.0		108	70-130			
Chloromethane	11.2	2.0	0.52	µg/L	10.0		112	40-160			†
2-Chlorotoluene	10.5	1.0	0.11	µg/L	10.0		105	70-130			
4-Chlorotoluene	11.0	1.0	0.12	µg/L	10.0		110	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.1	5.0	0.80	µg/L	10.0		101	70-130			
1,2-Dibromoethane (EDB)	11.5	0.50	0.17	µg/L	10.0		115	70-130			
Dibromomethane	11.0	1.0	0.35	µg/L	10.0		110	70-130			
1,2-Dichlorobenzene	10.8	1.0	0.12	µg/L	10.0		108	70-130			
1,3-Dichlorobenzene	10.8	1.0	0.12	µg/L	10.0		108	70-130			
1,4-Dichlorobenzene	10.8	1.0	0.13	µg/L	10.0		108	70-130			
trans-1,4-Dichloro-2-butene	9.97	2.0	1.6	µg/L	10.0		99.7	70-130			
Dichlorodifluoromethane (Freon 12)	10.9	2.0	0.19	µg/L	10.0		109	40-160			†
1,1-Dichloroethane	10.6	1.0	0.14	µg/L	10.0		106	70-130			
1,2-Dichloroethane	10.5	1.0	0.31	µg/L	10.0		105	70-130			
1,1-Dichloroethylene	11.9	1.0	0.14	µg/L	10.0		119	70-130			
cis-1,2-Dichloroethylene	10.8	1.0	0.15	µg/L	10.0		108	70-130			
trans-1,2-Dichloroethylene	10.7	1.0	0.17	µg/L	10.0		107	70-130			
1,2-Dichloropropane	10.4	1.0	0.18	µg/L	10.0		104	70-130			
1,3-Dichloropropane	11.1	0.50	0.13	µg/L	10.0		111	70-130			
2,2-Dichloropropane	10.7	1.0	0.33	µg/L	10.0		107	40-130			†
1,1-Dichloropropene	10.8	2.0	0.15	µg/L	10.0		108	70-130			
cis-1,3-Dichloropropene	10.2	0.50	0.16	µg/L	10.0		102	70-130			
trans-1,3-Dichloropropene	10.2	0.50	0.17	µg/L	10.0		102	70-130			
Diethyl Ether	12.2	2.0	0.18	µg/L	10.0		122	70-130			
Diisopropyl Ether (DIPE)	10.5	0.50	0.13	µg/L	10.0		105	70-130			
1,4-Dioxane	107	50	21	µg/L	100		107	40-130			†
Ethylbenzene	11.0	1.0	0.21	µg/L	10.0		110	70-130			
Hexachlorobutadiene	10.6	0.60	0.46	µg/L	10.0		106	70-130			
2-Hexanone (MBK)	112	10	1.1	µg/L	100		112	70-160			†
Isopropylbenzene (Cumene)	11.0	1.0	0.11	µg/L	10.0		110	70-130			
p-Isopropyltoluene (p-Cymene)	10.8	1.0	0.097	µg/L	10.0		108	70-130			
Methyl Acetate	12.8	1.0	0.45	µg/L	10.0		128	70-130			
Methyl tert-Butyl Ether (MTBE)	11.2	1.0	0.17	µg/L	10.0		112	70-130			
Methyl Cyclohexane	10.8	1.0	0.24	µg/L	10.0		108	70-130			
Methylene Chloride	11.0	5.0	0.23	µg/L	10.0		110	70-130			
4-Methyl-2-pentanone (MIBK)	111	10	1.3	µg/L	100		111	70-160			†
Naphthalene	11.2	2.0	0.24	µg/L	10.0		112	40-130			†
n-Propylbenzene	11.0	1.0	0.086	µg/L	10.0		110	70-130			
Styrene	11.6	1.0	0.11	µg/L	10.0		116	70-130			
1,1,1,2-Tetrachloroethane	11.1	1.0	0.18	µg/L	10.0		111	70-130			
1,1,2,2-Tetrachloroethane	11.3	0.50	0.13	µg/L	10.0		113	70-130			
Tetrachloroethylene	11.1	1.0	0.19	µg/L	10.0		111	70-130			
Tetrahydrofuran	10.7	10	0.49	µg/L	10.0		107	70-130			
Toluene	10.6	1.0	0.22	µg/L	10.0		106	70-130			
1,2,3-Trichlorobenzene	11.2	5.0	0.30	µg/L	10.0		112	70-130			

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B301639 - SW-846 5030B												
LCS (B301639-BS1)					Prepared & Analyzed: 02/21/22							
1,2,4-Trichlorobenzene	11.0	1.0	0.25	µg/L	10.0		110	70-130				
1,3,5-Trichlorobenzene	11.0	1.0	0.21	µg/L	10.0		110	70-130				
1,1,1-Trichloroethane	11.3	1.0	0.17	µg/L	10.0		113	70-130				
1,1,2-Trichloroethane	11.2	1.0	0.18	µg/L	10.0		112	70-130				
Trichloroethylene	10.8	1.0	0.19	µg/L	10.0		108	70-130				
Trichlorofluoromethane (Freon 11)	11.6	2.0	0.18	µg/L	10.0		116	70-130				
1,2,3-Trichloropropane	11.4	2.0	0.28	µg/L	10.0		114	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.7	1.0	0.23	µg/L	10.0		117	70-130				
1,2,3-Trimethylbenzene	10.4	0.50	0.35	µg/L	10.0		104	70-130				
1,2,4-Trimethylbenzene	10.9	1.0	0.20	µg/L	10.0		109	70-130				
1,3,5-Trimethylbenzene	11.4	1.0	0.11	µg/L	10.0		114	70-130				
Vinyl Chloride	10.4	2.0	0.21	µg/L	10.0		104	40-160				†
m+p Xylene	22.0	2.0	0.46	µg/L	20.0		110	70-130				
o-Xylene	11.0	1.0	0.23	µg/L	10.0		110	70-130				
Surrogate: 1,2-Dichloroethane-d4	*26.2*			µg/L	25.0		105	70-130				
Surrogate: Toluene-d8	*24.9*			µg/L	25.0		99.6	70-130				
Surrogate: 4-Bromofluorobenzene	*25.2*			µg/L	25.0		101	70-130				
LCS Dup (B301639-BSD1)					Prepared & Analyzed: 02/21/22							
Acetone	114	50	2.0	µg/L	100		114	70-160	3.83	25		†
Acrylonitrile	11.6	5.0	0.55	µg/L	10.0		116	70-130	2.48	25		
tert-Amyl Methyl Ether (TAME)	10.6	0.50	0.14	µg/L	10.0		106	70-130	3.53	25		
Benzene	10.3	1.0	0.20	µg/L	10.0		103	70-130	1.27	25		
Bromobenzene	11.2	1.0	0.15	µg/L	10.0		112	70-130	0.628	25		
Bromochloromethane	10.6	1.0	0.31	µg/L	10.0		106	70-130	2.34	25		
Bromodichloromethane	11.2	0.50	0.18	µg/L	10.0		112	70-130	2.54	25		
Bromoform	12.1	1.0	0.38	µg/L	10.0		121	70-130	2.29	25		
Bromomethane	13.2	2.0	1.5	µg/L	10.0		132	40-160	23.9	25	V-05	†
2-Butanone (MEK)	103	20	1.6	µg/L	100		103	40-160	5.31	25		†
tert-Butyl Alcohol (TBA)	144	20	4.7	µg/L	100		144	40-160	0.180	25	V-20	†
n-Butylbenzene	10.6	1.0	0.15	µg/L	10.0		106	70-130	0.282	25		
sec-Butylbenzene	10.7	1.0	0.11	µg/L	10.0		107	70-130	0.00	25		
tert-Butylbenzene	10.7	1.0	0.13	µg/L	10.0		107	70-130	0.372	25		
tert-Butyl Ethyl Ether (TBEE)	10.6	0.50	0.15	µg/L	10.0		106	70-130	2.79	25		
Carbon Disulfide	127	5.0	1.4	µg/L	100		127	70-130	1.84	25	V-20	
Carbon Tetrachloride	11.0	5.0	0.16	µg/L	10.0		110	70-130	0.273	25		
Chlorobenzene	11.2	1.0	0.11	µg/L	10.0		112	70-130	2.43	25		
Chlorodibromomethane	10.8	0.50	0.22	µg/L	10.0		108	70-130	4.24	25		
Chloroethane	9.72	2.0	0.32	µg/L	10.0		97.2	70-130	6.95	25		
Chloroform	10.9	2.0	0.17	µg/L	10.0		109	70-130	1.38	25		
Chloromethane	13.1	2.0	0.52	µg/L	10.0		131	40-160	15.5	25		†
2-Chlorotoluene	10.6	1.0	0.11	µg/L	10.0		106	70-130	0.569	25		
4-Chlorotoluene	11.1	1.0	0.12	µg/L	10.0		111	70-130	0.993	25		
1,2-Dibromo-3-chloropropane (DBCP)	10.2	5.0	0.80	µg/L	10.0		102	70-130	1.08	25		
1,2-Dibromoethane (EDB)	11.0	0.50	0.17	µg/L	10.0		110	70-130	4.18	25		
Dibromomethane	10.7	1.0	0.35	µg/L	10.0		107	70-130	2.87	25		
1,2-Dichlorobenzene	10.6	1.0	0.12	µg/L	10.0		106	70-130	1.77	25		
1,3-Dichlorobenzene	10.9	1.0	0.12	µg/L	10.0		109	70-130	0.369	25		
1,4-Dichlorobenzene	10.7	1.0	0.13	µg/L	10.0		107	70-130	1.02	25		

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B301639 - SW-846 5030B											
LCS Dup (B301639-BSD1)					Prepared & Analyzed: 02/21/22						
trans-1,4-Dichloro-2-butene	9.08	2.0	1.6	µg/L	10.0		90.8	70-130	9.34	25	
Dichlorodifluoromethane (Freon 12)	10.8	2.0	0.19	µg/L	10.0		108	40-160	1.57	25	†
1,1-Dichloroethane	10.8	1.0	0.14	µg/L	10.0		108	70-130	2.33	25	
1,2-Dichloroethane	10.3	1.0	0.31	µg/L	10.0		103	70-130	1.54	25	
1,1-Dichloroethylene	12.1	1.0	0.14	µg/L	10.0		121	70-130	1.25	25	
cis-1,2-Dichloroethylene	10.7	1.0	0.15	µg/L	10.0		107	70-130	0.650	25	
trans-1,2-Dichloroethylene	10.9	1.0	0.17	µg/L	10.0		109	70-130	2.22	25	
1,2-Dichloropropane	10.7	1.0	0.18	µg/L	10.0		107	70-130	2.28	25	
1,3-Dichloropropane	10.9	0.50	0.13	µg/L	10.0		109	70-130	2.36	25	
2,2-Dichloropropane	10.8	1.0	0.33	µg/L	10.0		108	40-130	0.186	25	†
1,1-Dichloropropene	10.8	2.0	0.15	µg/L	10.0		108	70-130	0.648	25	
cis-1,3-Dichloropropene	9.95	0.50	0.16	µg/L	10.0		99.5	70-130	2.38	25	
trans-1,3-Dichloropropene	10.0	0.50	0.17	µg/L	10.0		100	70-130	1.87	25	
Diethyl Ether	12.0	2.0	0.18	µg/L	10.0		120	70-130	2.40	25	
Diisopropyl Ether (DIPE)	10.5	0.50	0.13	µg/L	10.0		105	70-130	0.571	25	
1,4-Dioxane	103	50	21	µg/L	100		103	40-130	3.28	50	† ‡
Ethylbenzene	11.4	1.0	0.21	µg/L	10.0		114	70-130	4.20	25	
Hexachlorobutadiene	10.6	0.60	0.46	µg/L	10.0		106	70-130	0.189	25	
2-Hexanone (MBK)	110	10	1.1	µg/L	100		110	70-160	1.60	25	†
Isopropylbenzene (Cumene)	11.2	1.0	0.11	µg/L	10.0		112	70-130	1.99	25	
p-Isopropyltoluene (p-Cymene)	10.6	1.0	0.097	µg/L	10.0		106	70-130	1.40	25	
Methyl Acetate	12.7	1.0	0.45	µg/L	10.0		127	70-130	0.313	25	
Methyl tert-Butyl Ether (MTBE)	10.9	1.0	0.17	µg/L	10.0		109	70-130	2.63	25	
Methyl Cyclohexane	10.7	1.0	0.24	µg/L	10.0		107	70-130	1.77	25	
Methylene Chloride	10.8	5.0	0.23	µg/L	10.0		108	70-130	1.83	25	
4-Methyl-2-pentanone (MIBK)	109	10	1.3	µg/L	100		109	70-160	1.87	25	†
Naphthalene	10.9	2.0	0.24	µg/L	10.0		109	40-130	2.45	25	†
n-Propylbenzene	11.1	1.0	0.086	µg/L	10.0		111	70-130	0.634	25	
Styrene	11.7	1.0	0.11	µg/L	10.0		117	70-130	0.602	25	
1,1,1,2-Tetrachloroethane	10.9	1.0	0.18	µg/L	10.0		109	70-130	1.46	25	
1,1,2,2-Tetrachloroethane	11.2	0.50	0.13	µg/L	10.0		112	70-130	0.621	25	
Tetrachloroethylene	11.3	1.0	0.19	µg/L	10.0		113	70-130	1.61	25	
Tetrahydrofuran	11.2	10	0.49	µg/L	10.0		112	70-130	3.75	25	
Toluene	10.8	1.0	0.22	µg/L	10.0		108	70-130	1.86	25	
1,2,3-Trichlorobenzene	10.9	5.0	0.30	µg/L	10.0		109	70-130	2.27	25	
1,2,4-Trichlorobenzene	10.8	1.0	0.25	µg/L	10.0		108	70-130	2.10	25	
1,3,5-Trichlorobenzene	11.0	1.0	0.21	µg/L	10.0		110	70-130	0.454	25	
1,1,1-Trichloroethane	11.6	1.0	0.17	µg/L	10.0		116	70-130	2.96	25	
1,1,2-Trichloroethane	10.9	1.0	0.18	µg/L	10.0		109	70-130	2.35	25	
Trichloroethylene	11.1	1.0	0.19	µg/L	10.0		111	70-130	2.64	25	
Trichlorofluoromethane (Freon 11)	11.6	2.0	0.18	µg/L	10.0		116	70-130	0.173	25	
1,2,3-Trichloropropane	11.4	2.0	0.28	µg/L	10.0		114	70-130	0.00	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.6	1.0	0.23	µg/L	10.0		116	70-130	0.686	25	
1,2,3-Trimethylbenzene	10.6	0.50	0.35	µg/L	10.0		106	70-130	1.14	25	
1,2,4-Trimethylbenzene	10.8	1.0	0.20	µg/L	10.0		108	70-130	0.552	25	
1,3,5-Trimethylbenzene	11.5	1.0	0.11	µg/L	10.0		115	70-130	0.872	25	
Vinyl Chloride	10.6	2.0	0.21	µg/L	10.0		106	40-160	1.24	25	†
m+p Xylene	22.4	2.0	0.46	µg/L	20.0		112	70-130	2.12	25	
o-Xylene	11.2	1.0	0.23	µg/L	10.0		112	70-130	1.62	25	

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B301639 - SW-846 5030B											
LCS Dup (B301639-BSD1)					Prepared & Analyzed: 02/21/22						
Surrogate: 1,2-Dichloroethane-d4	*25.8*			µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	*24.8*			µg/L	25.0		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	*25.6*			µg/L	25.0		102	70-130			
Matrix Spike (B301639-MS1)	**Source: 22B1136-02**				Prepared & Analyzed: 02/21/22						
Acetone	222	100	4.1	µg/L	200	ND	111	70-130			
Acrylonitrile	21.7	10	1.1	µg/L	20.0	ND	109	70-130			
tert-Amyl Methyl Ether (TAME)	19.2	1.0	0.29	µg/L	20.0	ND	96.1	70-130			
Benzene	19.9	2.0	0.40	µg/L	20.0	ND	99.5	70-130			
Bromobenzene	21.4	2.0	0.30	µg/L	20.0	ND	107	70-130			
Bromochloromethane	22.8	2.0	0.61	µg/L	20.0	ND	114	70-130			
Bromodichloromethane	21.8	1.0	0.36	µg/L	20.0	ND	109	70-130			
Bromoform	22.4	2.0	0.77	µg/L	20.0	ND	112	70-130			
Bromomethane	14.8	4.0	3.1	µg/L	20.0	ND	74.2	70-130			V-05
2-Butanone (MEK)	194	40	3.2	µg/L	200	ND	97.0	70-130			
tert-Butyl Alcohol (TBA)	254	40	9.4	µg/L	200	ND	127	70-130			V-20
n-Butylbenzene	20.9	2.0	0.30	µg/L	20.0	ND	104	70-130			
sec-Butylbenzene	21.5	2.0	0.22	µg/L	20.0	ND	108	70-130			
tert-Butylbenzene	21.9	2.0	0.26	µg/L	20.0	ND	110	70-130			
tert-Butyl Ethyl Ether (TBEE)	19.9	1.0	0.30	µg/L	20.0	ND	99.5	70-130			
Carbon Disulfide	217	10	2.9	µg/L	200	ND	108	70-130			V-20
Carbon Tetrachloride	22.0	10	0.33	µg/L	20.0	ND	110	70-130			
Chlorobenzene	21.7	2.0	0.21	µg/L	20.0	ND	109	70-130			
Chlorodibromomethane	20.9	1.0	0.44	µg/L	20.0	ND	104	70-130			
Chloroethane	24.4	4.0	0.64	µg/L	20.0	ND	122	70-130			
Chloroform	21.4	4.0	0.34	µg/L	20.0	ND	107	70-130			
Chloromethane	22.0	4.0	1.0	µg/L	20.0	ND	110	70-130			
2-Chlorotoluene	20.8	2.0	0.23	µg/L	20.0	ND	104	70-130			
4-Chlorotoluene	21.3	2.0	0.24	µg/L	20.0	ND	106	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	19.5	10	1.6	µg/L	20.0	ND	97.4	70-130			
1,2-Dibromoethane (EDB)	21.3	1.0	0.34	µg/L	20.0	ND	107	70-130			
Dibromomethane	21.0	2.0	0.71	µg/L	20.0	ND	105	70-130			
1,2-Dichlorobenzene	20.6	2.0	0.24	µg/L	20.0	ND	103	70-130			
1,3-Dichlorobenzene	21.1	2.0	0.24	µg/L	20.0	ND	106	70-130			
1,4-Dichlorobenzene	20.3	2.0	0.26	µg/L	20.0	ND	102	70-130			
trans-1,4-Dichloro-2-butene	16.7	4.0	3.2	µg/L	20.0	ND	83.6	70-130			
Dichlorodifluoromethane (Freon 12)	20.3	4.0	0.38	µg/L	20.0	ND	102	70-130			
1,1-Dichloroethane	35.2	2.0	0.28	µg/L	20.0	14.5	103	70-130			
1,2-Dichloroethane	19.5	2.0	0.62	µg/L	20.0	ND	97.4	70-130			
1,1-Dichloroethylene	29.3	2.0	0.28	µg/L	20.0	5.42	120	70-130			
cis-1,2-Dichloroethylene	269	2.0	0.29	µg/L	20.0	254	75.0	70-130			
trans-1,2-Dichloroethylene	22.6	2.0	0.34	µg/L	20.0	2.22	102	70-130			
1,2-Dichloropropane	20.8	2.0	0.36	µg/L	20.0	ND	104	70-130			
1,3-Dichloropropane	20.8	1.0	0.26	µg/L	20.0	ND	104	70-130			
2,2-Dichloropropane	18.3	2.0	0.65	µg/L	20.0	ND	91.3	70-130			
1,1-Dichloropropene	20.9	4.0	0.30	µg/L	20.0	ND	104	70-130			
cis-1,3-Dichloropropene	19.1	1.0	0.32	µg/L	20.0	ND	95.7	70-130			
trans-1,3-Dichloropropene	18.8	1.0	0.34	µg/L	20.0	ND	93.9	70-130			
Diethyl Ether	21.9	4.0	0.36	µg/L	20.0	ND	110	70-130			
Diisopropyl Ether (DIPE)	20.3	1.0	0.26	µg/L	20.0	ND	101	70-130			

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B301639 - SW-846 5030B												
Matrix Spike (B301639-MS1)	**Source: 22B1136-02**				Prepared & Analyzed: 02/21/22							
1,4-Dioxane	208	100	41	µg/L	200	ND	104		70-130			
Ethylbenzene	22.4	2.0	0.43	µg/L	20.0	ND	112		70-130			
Hexachlorobutadiene	20.7	1.2	0.91	µg/L	20.0	ND	104		70-130			
2-Hexanone (MBK)	209	20	2.2	µg/L	200	ND	104		70-130			
Isopropylbenzene (Cumene)	22.3	2.0	0.22	µg/L	20.0	ND	112		70-130			
p-Isopropyltoluene (p-Cymene)	21.4	2.0	0.19	µg/L	20.0	ND	107		70-130			
Methyl Acetate	22.2	2.0	0.91	µg/L	20.0	ND	111		70-130			
Methyl tert-Butyl Ether (MTBE)	20.1	2.0	0.34	µg/L	20.0	ND	101		70-130			
Methyl Cyclohexane	19.9	2.0	0.49	µg/L	20.0	ND	99.5		70-130			
Methylene Chloride	22.6	10	0.47	µg/L	20.0	ND	113		70-130			
4-Methyl-2-pentanone (MIBK)	209	20	2.6	µg/L	200	ND	105		70-130			
Naphthalene	18.0	4.0	0.49	µg/L	20.0	ND	89.8		70-130			
n-Propylbenzene	21.7	2.0	0.17	µg/L	20.0	ND	109		70-130			
Styrene	22.5	2.0	0.21	µg/L	20.0	ND	113		70-130			
1,1,1,2-Tetrachloroethane	21.4	2.0	0.36	µg/L	20.0	ND	107		70-130			
1,1,2,2-Tetrachloroethane	21.4	1.0	0.25	µg/L	20.0	ND	107		70-130			
Tetrachloroethylene	22.3	2.0	0.37	µg/L	20.0	ND	112		70-130			
Tetrahydrofuran	19.4	20	0.98	µg/L	20.0	ND	97.0		70-130			J
Toluene	21.5	2.0	0.45	µg/L	20.0	ND	108		70-130			
1,2,3-Trichlorobenzene	18.8	10	0.61	µg/L	20.0	ND	93.9		70-130			
1,2,4-Trichlorobenzene	19.6	2.0	0.50	µg/L	20.0	ND	97.9		70-130			
1,3,5-Trichlorobenzene	20.6	2.0	0.42	µg/L	20.0	ND	103		70-130			
1,1,1-Trichloroethane	24.8	2.0	0.34	µg/L	20.0	1.42	117		70-130			
1,1,2-Trichloroethane	21.2	2.0	0.37	µg/L	20.0	ND	106		70-130			
Trichloroethylene	28.6	2.0	0.38	µg/L	20.0	6.70	110		70-130			
Trichlorofluoromethane (Freon 11)	23.4	4.0	0.35	µg/L	20.0	ND	117		70-130			
1,2,3-Trichloropropane	21.3	4.0	0.56	µg/L	20.0	ND	106		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	22.4	2.0	0.45	µg/L	20.0	ND	112		70-130			
1,2,4-Trimethylbenzene	21.1	2.0	0.40	µg/L	20.0	ND	106		70-130			
1,3,5-Trimethylbenzene	22.5	2.0	0.23	µg/L	20.0	ND	112		70-130			
Vinyl Chloride	46.5	4.0	0.42	µg/L	20.0	28.4	90.6		70-130			
m+p Xylene	44.1	4.0	0.92	µg/L	40.0	ND	110		70-130			
o-Xylene	21.9	2.0	0.46	µg/L	20.0	ND	109		70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.9*			µg/L	25.0		99.7		70-130			
Surrogate: Toluene-d8	*24.7*			µg/L	25.0		98.9		70-130			
Surrogate: 4-Bromofluorobenzene	*25.4*			µg/L	25.0		101		70-130			
Matrix Spike Dup (B301639-MSD1)	**Source: 22B1136-02**				Prepared & Analyzed: 02/21/22							
Acetone	220	100	4.1	µg/L	200	ND	110		70-130	0.851	30	
Acrylonitrile	21.7	10	1.1	µg/L	20.0	ND	109		70-130	0.00	30	
tert-Amyl Methyl Ether (TAME)	19.2	1.0	0.29	µg/L	20.0	ND	96.2		70-130	0.104	30	
Benzene	19.6	2.0	0.40	µg/L	20.0	ND	97.9		70-130	1.62	30	
Bromobenzene	21.0	2.0	0.30	µg/L	20.0	ND	105		70-130	1.79	30	
Bromochloromethane	19.5	2.0	0.61	µg/L	20.0	ND	97.4		70-130	15.6	30	
Bromodichloromethane	21.6	1.0	0.36	µg/L	20.0	ND	108		70-130	0.737	30	
Bromoform	23.0	2.0	0.77	µg/L	20.0	ND	115		70-130	2.82	30	
Bromomethane	20.0	4.0	3.1	µg/L	20.0	ND	100		70-130	29.6	30	V-05
2-Butanone (MEK)	204	40	3.2	µg/L	200	ND	102		70-130	4.76	30	
tert-Butyl Alcohol (TBA)	264	40	9.4	µg/L	200	ND	**132**	*	70-130	3.59	30	MS-22, V-20

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B301639 - SW-846 5030B											
Matrix Spike Dup (B301639-MSD1)	**Source: 22B1136-02**				Prepared & Analyzed: 02/21/22						
n-Butylbenzene	20.1	2.0	0.30	µg/L	20.0	ND	100	70-130	4.01	30	
sec-Butylbenzene	20.7	2.0	0.22	µg/L	20.0	ND	104	70-130	3.88	30	
tert-Butylbenzene	21.4	2.0	0.26	µg/L	20.0	ND	107	70-130	2.50	30	
tert-Butyl Ethyl Ether (TBEE)	19.5	1.0	0.30	µg/L	20.0	ND	97.3	70-130	2.24	30	
Carbon Disulfide	209	10	2.9	µg/L	200	ND	105	70-130	3.48	30	V-20
Carbon Tetrachloride	21.6	10	0.33	µg/L	20.0	ND	108	70-130	1.84	30	
Chlorobenzene	21.4	2.0	0.21	µg/L	20.0	ND	107	70-130	1.48	30	
Chlorodibromomethane	21.4	1.0	0.44	µg/L	20.0	ND	107	70-130	2.36	30	
Chloroethane	18.2	4.0	0.64	µg/L	20.0	ND	90.8	70-130	29.5	30	
Chloroform	21.1	4.0	0.34	µg/L	20.0	ND	106	70-130	1.13	30	
Chloromethane	22.6	4.0	1.0	µg/L	20.0	ND	113	70-130	2.51	30	
2-Chlorotoluene	20.2	2.0	0.23	µg/L	20.0	ND	101	70-130	3.32	30	
4-Chlorotoluene	20.9	2.0	0.24	µg/L	20.0	ND	105	70-130	1.61	30	
1,2-Dibromo-3-chloropropane (DBCP)	20.8	10	1.6	µg/L	20.0	ND	104	70-130	6.65	30	
1,2-Dibromoethane (EDB)	21.2	1.0	0.34	µg/L	20.0	ND	106	70-130	0.659	30	
Dibromomethane	20.1	2.0	0.71	µg/L	20.0	ND	101	70-130	3.99	30	
1,2-Dichlorobenzene	20.7	2.0	0.24	µg/L	20.0	ND	103	70-130	0.582	30	
1,3-Dichlorobenzene	20.8	2.0	0.24	µg/L	20.0	ND	104	70-130	1.34	30	
1,4-Dichlorobenzene	20.3	2.0	0.26	µg/L	20.0	ND	102	70-130	0.00	30	
trans-1,4-Dichloro-2-butene	16.7	4.0	3.2	µg/L	20.0	ND	83.4	70-130	0.240	30	
Dichlorodifluoromethane (Freon 12)	19.6	4.0	0.38	µg/L	20.0	ND	97.9	70-130	3.71	30	
1,1-Dichloroethane	35.4	2.0	0.28	µg/L	20.0	14.5	104	70-130	0.567	30	
1,2-Dichloroethane	19.6	2.0	0.62	µg/L	20.0	ND	98.1	70-130	0.716	30	
1,1-Dichloroethylene	28.5	2.0	0.28	µg/L	20.0	5.42	115	70-130	2.98	30	
cis-1,2-Dichloroethylene	272	2.0	0.29	µg/L	20.0	254	89.5	70-130	1.07	30	
trans-1,2-Dichloroethylene	22.4	2.0	0.34	µg/L	20.0	2.22	101	70-130	0.622	30	
1,2-Dichloropropane	20.6	2.0	0.36	µg/L	20.0	ND	103	70-130	0.773	30	
1,3-Dichloropropane	20.7	1.0	0.26	µg/L	20.0	ND	104	70-130	0.193	30	
2,2-Dichloropropane	17.6	2.0	0.65	µg/L	20.0	ND	87.8	70-130	3.91	30	
1,1-Dichloropropene	20.8	4.0	0.30	µg/L	20.0	ND	104	70-130	0.0959	30	
cis-1,3-Dichloropropene	18.5	1.0	0.32	µg/L	20.0	ND	92.5	70-130	3.40	30	
trans-1,3-Dichloropropene	18.2	1.0	0.34	µg/L	20.0	ND	91.2	70-130	2.92	30	
Diethyl Ether	22.1	4.0	0.36	µg/L	20.0	ND	110	70-130	0.636	30	
Diisopropyl Ether (DIPE)	20.2	1.0	0.26	µg/L	20.0	ND	101	70-130	0.494	30	
1,4-Dioxane	224	100	41	µg/L	200	ND	112	70-130	7.58	30	
Ethylbenzene	21.8	2.0	0.43	µg/L	20.0	ND	109	70-130	2.62	30	
Hexachlorobutadiene	20.5	1.2	0.91	µg/L	20.0	ND	103	70-130	0.873	30	
2-Hexanone (MBK)	216	20	2.2	µg/L	200	ND	108	70-130	3.51	30	
Isopropylbenzene (Cumene)	21.6	2.0	0.22	µg/L	20.0	ND	108	70-130	3.28	30	
p-Isopropyltoluene (p-Cymene)	20.7	2.0	0.19	µg/L	20.0	ND	104	70-130	3.42	30	
Methyl Acetate	23.8	2.0	0.91	µg/L	20.0	ND	119	70-130	6.96	30	
Methyl tert-Butyl Ether (MTBE)	20.2	2.0	0.34	µg/L	20.0	ND	101	70-130	0.199	30	
Methyl Cyclohexane	19.8	2.0	0.49	µg/L	20.0	ND	99.0	70-130	0.504	30	
Methylene Chloride	20.4	10	0.47	µg/L	20.0	ND	102	70-130	10.3	30	
4-Methyl-2-pentanone (MIBK)	216	20	2.6	µg/L	200	ND	108	70-130	3.09	30	
Naphthalene	21.1	4.0	0.49	µg/L	20.0	ND	105	70-130	16.0	30	
n-Propylbenzene	21.5	2.0	0.17	µg/L	20.0	ND	108	70-130	0.924	30	
Styrene	22.3	2.0	0.21	µg/L	20.0	ND	111	70-130	1.07	30	
1,1,1,2-Tetrachloroethane	21.3	2.0	0.36	µg/L	20.0	ND	107	70-130	0.468	30	
1,1,2,2-Tetrachloroethane	21.7	1.0	0.25	µg/L	20.0	ND	108	70-130	1.02	30	

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B301639 - SW-846 5030B											
Matrix Spike Dup (B301639-MSD1)	**Source: 22B1136-02**				Prepared & Analyzed: 02/21/22						
Tetrachloroethylene	22.1	2.0	0.37	µg/L	20.0	ND	110	70-130	1.17	30	
Tetrahydrofuran	20.6	20	0.98	µg/L	20.0	ND	103	70-130	5.81	30	
Toluene	20.9	2.0	0.45	µg/L	20.0	ND	104	70-130	3.02	30	
1,2,3-Trichlorobenzene	21.0	10	0.61	µg/L	20.0	ND	105	70-130	11.1	30	
1,2,4-Trichlorobenzene	20.1	2.0	0.50	µg/L	20.0	ND	101	70-130	2.82	30	
1,3,5-Trichlorobenzene	20.2	2.0	0.42	µg/L	20.0	ND	101	70-130	1.67	30	
1,1,1-Trichloroethane	24.0	2.0	0.34	µg/L	20.0	1.42	113	70-130	3.11	30	
1,1,2-Trichloroethane	21.6	2.0	0.37	µg/L	20.0	ND	108	70-130	1.78	30	
Trichloroethylene	28.7	2.0	0.38	µg/L	20.0	6.70	110	70-130	0.418	30	
Trichlorofluoromethane (Freon 11)	22.8	4.0	0.35	µg/L	20.0	ND	114	70-130	2.86	30	
1,2,3-Trichloropropane	21.5	4.0	0.56	µg/L	20.0	ND	107	70-130	0.935	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	22.3	2.0	0.45	µg/L	20.0	ND	112	70-130	0.447	30	
1,2,4-Trimethylbenzene	20.8	2.0	0.40	µg/L	20.0	ND	104	70-130	1.34	30	
1,3,5-Trimethylbenzene	22.2	2.0	0.23	µg/L	20.0	ND	111	70-130	1.43	30	
Vinyl Chloride	44.3	4.0	0.42	µg/L	20.0	28.4	79.7	70-130	4.80	30	
m+p Xylene	42.8	4.0	0.92	µg/L	40.0	ND	107	70-130	3.04	20	
o-Xylene	21.4	2.0	0.46	µg/L	20.0	ND	107	70-130	2.22	30	
Surrogate: 1,2-Dichloroethane-d4	*24.8*			µg/L	25.0		99.1	70-130			
Surrogate: Toluene-d8	*24.7*			µg/L	25.0		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	*25.3*			µg/L	25.0		101	70-130			

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B302111 - SM21-23 2320B												
Blank (B302111-BLK1)					Prepared & Analyzed: 02/28/22							
Alkalinity	ND	1.0		mg/L								
LCS (B302111-BS1)					Prepared & Analyzed: 02/28/22							
Alkalinity	30	1.0		mg/L	32.5		92.3		90-110			
LCS Dup (B302111-BSD1)					Prepared & Analyzed: 02/28/22							
Alkalinity	30	1.0		mg/L	32.5		92.3		90-110	0.00	5.47	
Matrix Spike (B302111-MS1)		**Source: 22B1136-02**			Prepared & Analyzed: 02/28/22							
Alkalinity	390	1.0		mg/L	50.0	340	100		77.8-122			
Matrix Spike Dup (B302111-MSD1)		**Source: 22B1136-02**			Prepared & Analyzed: 02/28/22							
Alkalinity	390	1.0		mg/L	50.0	340	100		77.8-122	0.00	20	
Batch B302300 - EPA 300.0												
Blank (B302300-BLK1)					Prepared & Analyzed: 03/02/22							
Sulfate	ND	1.0		mg/L								
LCS (B302300-BS1)					Prepared & Analyzed: 03/02/22							
Sulfate	9.6	1.0		mg/L	10.0		96.4		90-110			
LCS Dup (B302300-BSD1)					Prepared & Analyzed: 03/02/22							
Sulfate	9.3	1.0		mg/L	10.0		93.2		90-110	3.36	20	
Duplicate (B302300-DUP1)		**Source: 22B1136-02**			Prepared & Analyzed: 03/02/22							
Sulfate	190	5.0		mg/L		190				0.0177	20	
Matrix Spike (B302300-MS1)		**Source: 22B1136-02**			Prepared & Analyzed: 03/02/22							
Sulfate	220	5.0		mg/L	50.0	190	**53.4**	*	80-120			MS-07

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 300.0 in Water	
Sulfate	NC,NY,MA,VA,ME,NH,CT,RI
SM21-23 2320B in Water	
Alkalinity	CT,MA,NH,NY,RI,NC,ME,VA
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	ME,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
2-Chlorotoluene	ME,NH,VA,NY
4-Chlorotoluene	ME,NH,VA,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
Dibromomethane	ME,NH,VA,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
trans-1,4-Dichloro-2-butene	ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
1,3-Dichloropropane	ME,VA,NY
2,2-Dichloropropane	ME,NH,VA,NY
1,1-Dichloropropene	ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diethyl Ether	ME,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

22B1136

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name:	WSP
Address:	50 Lake Front Blvd #111
Phone:	716 853 1220
Project Name:	
Project Location:	Rochester
Project Number:	GE1705067.0009
Project Manager:	Jill Gulczewski
Con-Test Quote Name/Number:	
Invoice Recipient:	
Sampled By:	L. Bell, Mydaty Hartford, Chuck Porreca

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: As per Contract

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐
Other: As per Contract
CLP Like Data Pkg Required: ☐
Email To: J.11.Gulczewski@wsp.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	VOC	Sulfates	Alkalinity
1	TB2152022	8:00 2/15/22	—		X			2		
2	IW-01-02152022	12:40	—		X			9	3	3
3	MW-2R-02152022	15:10	—		X			3		
4	MW-8R-02162022	1075/2-16-22	—		X			3	1	1
5	MW-17-02162022	1300/2/16/22	—		X			3	1	1
6	MW8R-02162022Q	10:35/2/16/22	—		X			3	1	1

ANALYSIS REQUESTED

# of Containers	23	6	6
[2] Preservation Code	H	I	I
[3] Container Code	G	P	P

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
FW-01-02152022 - MS/MSD

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 2/17/2022 10:00AM
Received by: (signature) 5.7	Date/Time: 2-18 1034
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other: As per contract

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

FedEx

FedEx Tracking

791234708328

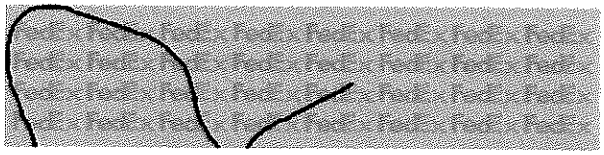
ADD NICKNAME

ON TIME

Delivered
Friday, February 18, 2022 at 10:34 am

DELIVERED

Signed for by: R.RIOS



GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

NYDEC
Jill Gulczewski

50 Lakefront Blvd #111
Buffalo, NY US 14202
716-853-1220

TO

Sample Receiving Building 1
Con-Test Analytical Laboratory

39 Spruce St
East Longmeadow, MA US 01028
413-525-2332

MANAGE DELIVERY

Travel History

TIME ZONE
Local Scan Time

Friday, February 18, 2022		
10:34 AM	East Longmeadow, MA	Delivered
7:49 AM	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:40 AM	WINDSOR LOCKS, CT	At local FedEx facility
6:24 AM	EAST GRANBY, CT	At destination sort facility

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client WSP

Received By JR Date 2.18.21 Time 1034

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 5.7 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? T Were Samples Tampered with? F

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? N/A T

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	23	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	12	4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

January 18, 2023

Jill Gulczewski
NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202

Project Location: Rochester, NY
Client Job Number:
Project Number: 828088
Laboratory Work Order Number: 22K0994

Enclosed are results of analyses for samples as received by the laboratory on November 5, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

Table of Contents

Table of Contents (continued)

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_WSP - Buffalo, NY
50 Lakefront Boulevard #111
Buffalo, NY 14202
ATTN: Jill Gulczewski

REPORT DATE: 1/18/2023

PURCHASE ORDER NUMBER: 142937

PROJECT NUMBER: 828088

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22K0994

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Rochester, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TB-110122	22K0994-01	Ground Water		624.1	
MW-9S-110122	22K0994-02	Ground Water		624.1	
MW-5R-110122	22K0994-03	Ground Water		624.1	
PZ-3-110122	22K0994-04	Ground Water		624.1	
PZ-3-110122-Q	22K0994-05	Ground Water		624.1	
IW-01-110122	22K0994-06	Ground Water		624.1	
MW-8R-110122	22K0994-07	Ground Water		624.1	
MW-15R-110222	22K0994-08	Ground Water		624.1	
MW-16R-110222	22K0994-09	Ground Water		624.1	
MW-1S-110222	22K0994-10	Ground Water		624.1	
MW-10R-110222	22K0994-11	Ground Water		624.1	
MW-17R-110222	22K0994-12	Ground Water		624.1	
MW-2S-110322	22K0994-13	Ground Water		624.1	
MW-14R-110322	22K0994-14	Ground Water		624.1	
MW-14S-110322	22K0994-15	Ground Water		624.1	
PZ-2-110322	22K0994-16	Ground Water		624.1	
MW-2R-110322	22K0994-17	Ground Water		624.1	
MW-13S-110422	22K0994-18	Ground Water		624.1	
PZ-1-110422	22K0994-19	Ground Water		624.1	
PW-1-110422	22K0994-20	Ground Water		624.1	
RB-110422	22K0994-21	Ground Water		624.1	
IDW-110422	22K0994-22	Ground Water		624.1	
PZ-4-110422	22K0994-23	Ground Water		624.1	

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED 1/ 18 /23: Report revised to include Cis-1,2-Dichloroethylene in VOC reporting list for 624.1 analysis.

624.1

Qualifications:

L-05

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Vinyl Chloride

22K0994-02[MW-9S-110122], 22K0994-03[MW-5R-110122], 22K0994-04[PZ-3-110122], 22K0994-05[PZ-3-110122-Q], 22K0994-06[IW-01-110122], 22K0994-07[MW-8R-110122], 22K0994-08[MW-15R-110222], 22K0994-09[MW-16R-110222], 22K0994-12[MW-17R-110222], 22K0994-14[MW-14R-110322], 22K0994-17[MW-2R-110322], 22K0994-18[MW-13S-110422], 22K0994-19[PZ-1-110422], 22K0994-20[PW-1-110422], 22K0994-22[IDW-110422], 22K0994-23[PZ-4-110422], B322428-BS1, B322579-BS1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Vinyl Chloride

B322428-MSD1

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:

trans-1,2-Dichloroethylene

B322428-MSD1

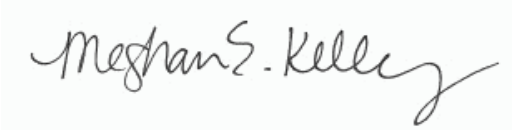
RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

22K0994-03[MW-5R-110122], 22K0994-06[IW-01-110122], 22K0994-07[MW-8R-110122], 22K0994-09[MW-16R-110222], 22K0994-11[MW-10R-110222], 22K0994-12[MW-17R-110222], 22K0994-20[PW-1-110422], 22K0994-23[PZ-4-110422]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: TB-110122 | Sampled: 11/1/2022 09:37

Sample ID: 22K0994-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
cis-1,2-Dichloroethylene	<0.147	1.00	0.147	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	11/8/22	11/9/22 2:27	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	108	70-130		11/9/22 2:27
Toluene-d8	97.8	70-130		11/9/22 2:27
4-Bromofluorobenzene	94.7	70-130		11/9/22 2:27

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: MW-9S-110122 | Sampled: 11/1/2022 09:52

Sample ID: 22K0994-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
Chloroform	0.590	2.00	0.168	µg/L	1	J	624.1	11/8/22	11/9/22 8:50	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
1,2-Dichlorobenzene	0.620	2.00	0.122	µg/L	1	J	624.1	11/8/22	11/9/22 8:50	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
cis-1,2-Dichloroethylene	39.9	1.00	0.147	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
1,1-Dichloroethane	67.1	2.00	0.142	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
1,1-Dichloroethylene	0.680	2.00	0.141	µg/L	1	J	624.1	11/8/22	11/9/22 8:50	EEH
trans-1,2-Dichloroethylene	8.58	2.00	0.169	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
Tetrachloroethylene	31.0	2.00	0.187	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
1,1,1-Trichloroethane	7.88	2.00	0.169	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
1,1,2-Trichloroethane	0.400	2.00	0.183	µg/L	1	J	624.1	11/8/22	11/9/22 8:50	EEH
Trichloroethylene	41.0	2.00	0.189	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
Vinyl Chloride	6.18	2.00	0.208	µg/L	1	L-05	624.1	11/8/22	11/9/22 8:50	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	11/8/22	11/9/22 8:50	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		11/9/22 8:50
Toluene-d8	100	70-130		11/9/22 8:50
4-Bromofluorobenzene	93.6	70-130		11/9/22 8:50

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: MW-5R-110122 | Sampled: 11/1/2022 10:32

Sample ID: 22K0994-03

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	1.72	4.00	0.799	µg/L	4	J	624.1	11/8/22	11/9/22 9:17	EEH
Bromodichloromethane	<0.722	8.00	0.722	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
Bromoform	<1.53	8.00	1.53	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
Bromomethane	<6.15	8.00	6.15	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
Carbon Tetrachloride	<0.660	8.00	0.660	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
Chlorobenzene	<0.421	8.00	0.421	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
Chlorodibromomethane	<0.890	8.00	0.890	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
Chloroethane	<1.28	8.00	1.28	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
Chloroform	<0.670	8.00	0.670	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
Chloromethane	<2.09	8.00	2.09	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
1,2-Dichlorobenzene	<0.487	8.00	0.487	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
1,3-Dichlorobenzene	<0.473	8.00	0.473	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
1,4-Dichlorobenzene	<0.521	8.00	0.521	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
1,2-Dichloroethane	<1.23	8.00	1.23	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
cis-1,2-Dichloroethylene	430	4.00	0.587	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
1,1-Dichloroethane	20.9	8.00	0.566	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
1,1-Dichloroethylene	3.12	8.00	0.566	µg/L	4	J	624.1	11/8/22	11/9/22 9:17	EEH
trans-1,2-Dichloroethylene	7.72	8.00	0.674	µg/L	4	J	624.1	11/8/22	11/9/22 9:17	EEH
1,2-Dichloropropane	<0.724	8.00	0.724	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
cis-1,3-Dichloropropene	<0.633	8.00	0.633	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
trans-1,3-Dichloropropene	<0.672	8.00	0.672	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
Ethylbenzene	<0.860	8.00	0.860	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
Methyl tert-Butyl Ether (MTBE)	<0.689	8.00	0.689	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
Methylene Chloride	<0.939	20.0	0.939	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
1,1,2,2-Tetrachloroethane	<0.507	8.00	0.507	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
Tetrachloroethylene	<0.748	8.00	0.748	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
Toluene	<0.897	4.00	0.897	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
1,1,1-Trichloroethane	<0.676	8.00	0.676	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
1,1,2-Trichloroethane	<0.730	8.00	0.730	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
Trichloroethylene	11.6	8.00	0.758	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
Trichlorofluoromethane (Freon 11)	<0.703	8.00	0.703	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
Vinyl Chloride	107	8.00	0.830	µg/L	4	L-05	624.1	11/8/22	11/9/22 9:17	EEH
m+p Xylene	<1.84	8.00	1.84	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH
o-Xylene	<0.919	4.00	0.919	µg/L	4		624.1	11/8/22	11/9/22 9:17	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		11/9/22 9:17
Toluene-d8	101	70-130		11/9/22 9:17
4-Bromofluorobenzene	94.8	70-130		11/9/22 9:17

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: PZ-3-110122 | Sampled: 11/1/2022 11:18

Sample ID: 22K0994-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
cis-1,2-Dichloroethylene	9.59	1.00	0.147	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
1,1-Dichloroethane	5.43	2.00	0.142	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
1,1-Dichloroethylene	0.190	2.00	0.141	µg/L	1	J	624.1	11/8/22	11/9/22 7:01	EEH
trans-1,2-Dichloroethylene	0.680	2.00	0.169	µg/L	1	J	624.1	11/8/22	11/9/22 7:01	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
Methylene Chloride	0.260	5.00	0.235	µg/L	1	J	624.1	11/8/22	11/9/22 7:01	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
1,1,1-Trichloroethane	0.710	2.00	0.169	µg/L	1	J	624.1	11/8/22	11/9/22 7:01	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
Trichloroethylene	1.64	2.00	0.189	µg/L	1	J	624.1	11/8/22	11/9/22 7:01	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
Vinyl Chloride	2.17	2.00	0.208	µg/L	1	L-05	624.1	11/8/22	11/9/22 7:01	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	11/8/22	11/9/22 7:01	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		11/9/22 7:01
Toluene-d8	99.3	70-130		11/9/22 7:01
4-Bromofluorobenzene	94.2	70-130		11/9/22 7:01

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: PZ-3-110122-Q | Sampled: 11/1/2022 11:18

Sample ID: 22K0994-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
cis-1,2-Dichloroethylene	10.5	1.00	0.147	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
1,1-Dichloroethane	3.69	2.00	0.142	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
1,1-Dichloroethylene	0.210	2.00	0.141	µg/L	1	J	624.1	11/8/22	11/9/22 7:28	EEH
trans-1,2-Dichloroethylene	0.660	2.00	0.169	µg/L	1	J	624.1	11/8/22	11/9/22 7:28	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
Tetrachloroethylene	0.270	2.00	0.187	µg/L	1	J	624.1	11/8/22	11/9/22 7:28	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
1,1,1-Trichloroethane	0.770	2.00	0.169	µg/L	1	J	624.1	11/8/22	11/9/22 7:28	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
Trichloroethylene	1.88	2.00	0.189	µg/L	1	J	624.1	11/8/22	11/9/22 7:28	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
Vinyl Chloride	2.59	2.00	0.208	µg/L	1	L-05	624.1	11/8/22	11/9/22 7:28	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	11/8/22	11/9/22 7:28	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		11/9/22 7:28
Toluene-d8	102	70-130		11/9/22 7:28
4-Bromofluorobenzene	94.6	70-130		11/9/22 7:28

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: IW-01-110122 | Sampled: 11/1/2022 13:32

Sample ID: 22K0994-06

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.999	5.00	0.999	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
Bromodichloromethane	<0.902	10.0	0.902	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
Bromoform	<1.92	10.0	1.92	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
Bromomethane	<7.69	10.0	7.69	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
Carbon Tetrachloride	<0.825	10.0	0.825	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
Chlorobenzene	<0.526	10.0	0.526	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
Chlorodibromomethane	<1.11	10.0	1.11	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
Chloroethane	<1.60	10.0	1.60	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
Chloroform	<0.838	10.0	0.838	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
Chloromethane	<2.61	10.0	2.61	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
1,2-Dichlorobenzene	<0.609	10.0	0.609	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
1,3-Dichlorobenzene	<0.591	10.0	0.591	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
1,4-Dichlorobenzene	<0.651	10.0	0.651	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
1,2-Dichloroethane	<1.54	10.0	1.54	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
cis-1,2-Dichloroethylene	346	5.00	0.734	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
1,1-Dichloroethane	16.7	10.0	0.708	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
1,1-Dichloroethylene	6.00	10.0	0.707	µg/L	5	J	624.1	11/9/22	11/11/22 8:05	EEH
trans-1,2-Dichloroethylene	3.25	10.0	0.843	µg/L	5	J	624.1	11/9/22	11/11/22 8:05	EEH
1,2-Dichloropropane	<0.905	10.0	0.905	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
cis-1,3-Dichloropropene	<0.791	10.0	0.791	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
trans-1,3-Dichloropropene	<0.840	10.0	0.840	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
Ethylbenzene	<1.07	10.0	1.07	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
Methyl tert-Butyl Ether (MTBE)	<0.861	10.0	0.861	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
Methylene Chloride	<1.17	25.0	1.17	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
1,1,2,2-Tetrachloroethane	<0.634	10.0	0.634	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
Tetrachloroethylene	<0.935	10.0	0.935	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
Toluene	<1.12	5.00	1.12	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
1,1,1-Trichloroethane	<0.845	10.0	0.845	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
1,1,2-Trichloroethane	<0.913	10.0	0.913	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
Trichloroethylene	5.10	10.0	0.947	µg/L	5	J	624.1	11/9/22	11/11/22 8:05	EEH
Trichlorofluoromethane (Freon 11)	<0.879	10.0	0.879	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
Vinyl Chloride	125	10.0	1.04	µg/L	5	L-05	624.1	11/9/22	11/11/22 8:05	EEH
m+p Xylene	<2.29	10.0	2.29	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH
o-Xylene	<1.15	5.00	1.15	µg/L	5		624.1	11/9/22	11/11/22 8:05	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	115	70-130		11/11/22 8:05
Toluene-d8	102	70-130		11/11/22 8:05
4-Bromofluorobenzene	93.5	70-130		11/11/22 8:05

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: MW-8R-110122 | Sampled: 11/1/2022 13:40

Sample ID: 22K0994-07

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.400	2.00	0.400	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
Bromodichloromethane	<0.361	4.00	0.361	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
Bromoform	<0.766	4.00	0.766	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
Bromomethane	<3.08	4.00	3.08	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
Carbon Tetrachloride	<0.330	4.00	0.330	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
Chlorobenzene	<0.211	4.00	0.211	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
Chlorodibromomethane	<0.445	4.00	0.445	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
Chloroethane	<0.641	4.00	0.641	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
Chloroform	<0.335	4.00	0.335	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
Chloromethane	<1.04	4.00	1.04	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
1,2-Dichlorobenzene	<0.244	4.00	0.244	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
1,3-Dichlorobenzene	<0.236	4.00	0.236	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
1,4-Dichlorobenzene	<0.261	4.00	0.261	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
1,2-Dichloroethane	<0.616	4.00	0.616	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
cis-1,2-Dichloroethylene	192	2.00	0.293	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
1,1-Dichloroethane	9.36	4.00	0.283	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
1,1-Dichloroethylene	2.28	4.00	0.283	µg/L	2	J	624.1	11/8/22	11/9/22 10:11	EEH
trans-1,2-Dichloroethylene	3.70	4.00	0.337	µg/L	2	J	624.1	11/8/22	11/9/22 10:11	EEH
1,2-Dichloropropane	<0.362	4.00	0.362	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
cis-1,3-Dichloropropene	<0.316	4.00	0.316	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
trans-1,3-Dichloropropene	<0.336	4.00	0.336	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
Ethylbenzene	<0.430	4.00	0.430	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
Methyl tert-Butyl Ether (MTBE)	<0.344	4.00	0.344	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
Methylene Chloride	<0.470	10.0	0.470	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
1,1,2,2-Tetrachloroethane	<0.253	4.00	0.253	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
Tetrachloroethylene	<0.374	4.00	0.374	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
Toluene	<0.448	2.00	0.448	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
1,1,1-Trichloroethane	<0.338	4.00	0.338	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
1,1,2-Trichloroethane	<0.365	4.00	0.365	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
Trichloroethylene	3.68	4.00	0.379	µg/L	2	J	624.1	11/8/22	11/9/22 10:11	EEH
Trichlorofluoromethane (Freon 11)	<0.352	4.00	0.352	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
Vinyl Chloride	99.6	4.00	0.415	µg/L	2	L-05	624.1	11/8/22	11/9/22 10:11	EEH
m+p Xylene	<0.918	4.00	0.918	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH
o-Xylene	<0.459	2.00	0.459	µg/L	2		624.1	11/8/22	11/9/22 10:11	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		11/9/22 10:11
Toluene-d8	102	70-130		11/9/22 10:11
4-Bromofluorobenzene	95.0	70-130		11/9/22 10:11

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: MW-15R-110222 | Sampled: 11/2/2022 09:46

Sample ID: 22K0994-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
cis-1,2-Dichloroethylene	9.38	1.00	0.147	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
trans-1,2-Dichloroethylene	1.58	2.00	0.169	µg/L	1	J	624.1	11/8/22	11/9/22 7:55	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
Methylene Chloride	0.320	5.00	0.235	µg/L	1	J	624.1	11/8/22	11/9/22 7:55	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
Trichloroethylene	0.780	2.00	0.189	µg/L	1	J	624.1	11/8/22	11/9/22 7:55	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
Vinyl Chloride	3.44	2.00	0.208	µg/L	1	L-05	624.1	11/8/22	11/9/22 7:55	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	11/8/22	11/9/22 7:55	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	112	70-130		11/9/22 7:55
Toluene-d8	101	70-130		11/9/22 7:55
4-Bromofluorobenzene	94.9	70-130		11/9/22 7:55

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: MW-16R-110222 | Sampled: 11/2/2022 10:12

Sample ID: 22K0994-09

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.999	5.00	0.999	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
Bromodichloromethane	<0.902	10.0	0.902	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
Bromoform	<1.92	10.0	1.92	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
Bromomethane	<7.69	10.0	7.69	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
Carbon Tetrachloride	<0.825	10.0	0.825	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
Chlorobenzene	<0.526	10.0	0.526	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
Chlorodibromomethane	<1.11	10.0	1.11	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
Chloroethane	<1.60	10.0	1.60	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
Chloroform	<0.838	10.0	0.838	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
Chloromethane	<2.61	10.0	2.61	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
1,2-Dichlorobenzene	<0.609	10.0	0.609	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
1,3-Dichlorobenzene	<0.591	10.0	0.591	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
1,4-Dichlorobenzene	<0.651	10.0	0.651	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
1,2-Dichloroethane	<1.54	10.0	1.54	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
cis-1,2-Dichloroethylene	106	5.00	0.734	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
1,1-Dichloroethane	5.55	10.0	0.708	µg/L	5	J	624.1	11/9/22	11/11/22 9:09	EEH
1,1-Dichloroethylene	1.60	10.0	0.707	µg/L	5	J	624.1	11/9/22	11/11/22 9:09	EEH
trans-1,2-Dichloroethylene	<0.843	10.0	0.843	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
1,2-Dichloropropane	<0.905	10.0	0.905	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
cis-1,3-Dichloropropene	<0.791	10.0	0.791	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
trans-1,3-Dichloropropene	<0.840	10.0	0.840	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
Ethylbenzene	<1.07	10.0	1.07	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
Methyl tert-Butyl Ether (MTBE)	<0.861	10.0	0.861	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
Methylene Chloride	<1.17	25.0	1.17	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
1,1,2,2-Tetrachloroethane	<0.634	10.0	0.634	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
Tetrachloroethylene	<0.935	10.0	0.935	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
Toluene	<1.12	5.00	1.12	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
1,1,1-Trichloroethane	<0.845	10.0	0.845	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
1,1,2-Trichloroethane	<0.913	10.0	0.913	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
Trichloroethylene	<0.947	10.0	0.947	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
Trichlorofluoromethane (Freon 11)	<0.879	10.0	0.879	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
Vinyl Chloride	78.9	10.0	1.04	µg/L	5	L-05	624.1	11/9/22	11/11/22 9:09	EEH
m+p Xylene	<2.29	10.0	2.29	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH
o-Xylene	<1.15	5.00	1.15	µg/L	5		624.1	11/9/22	11/11/22 9:09	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		11/11/22 9:09
Toluene-d8	101	70-130		11/11/22 9:09
4-Bromofluorobenzene	92.8	70-130		11/11/22 9:09

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: MW-1S-110222 | Sampled: 11/2/2022 12:12

Sample ID: 22K0994-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
cis-1,2-Dichloroethylene	30.1	1.00	0.147	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
1,1-Dichloroethane	1.76	2.00	0.142	µg/L	1	J	624.1	11/8/22	11/9/22 8:23	EEH
1,1-Dichloroethylene	0.640	2.00	0.141	µg/L	1	J	624.1	11/8/22	11/9/22 8:23	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
Tetrachloroethylene	2.71	2.00	0.187	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
1,1,1-Trichloroethane	1.80	2.00	0.169	µg/L	1	J	624.1	11/8/22	11/9/22 8:23	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
Trichloroethylene	19.4	2.00	0.189	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	11/8/22	11/9/22 8:23	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		11/9/22 8:23
Toluene-d8	97.5	70-130		11/9/22 8:23
4-Bromofluorobenzene	95.4	70-130		11/9/22 8:23

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: MW-10R-110222 | Sampled: 11/2/2022 12:06

Sample ID: 22K0994-11

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.400	2.00	0.400	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
Bromodichloromethane	<0.361	4.00	0.361	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
Bromoform	<0.766	4.00	0.766	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
Bromomethane	<3.08	4.00	3.08	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
Carbon Tetrachloride	<0.330	4.00	0.330	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
Chlorobenzene	<0.211	4.00	0.211	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
Chlorodibromomethane	<0.445	4.00	0.445	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
Chloroethane	<0.641	4.00	0.641	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
Chloroform	3.52	4.00	0.335	µg/L	2	J	624.1	11/9/22	11/11/22 6:43	EEH
Chloromethane	<1.04	4.00	1.04	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
1,2-Dichlorobenzene	<0.244	4.00	0.244	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
1,3-Dichlorobenzene	<0.236	4.00	0.236	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
1,4-Dichlorobenzene	<0.261	4.00	0.261	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
1,2-Dichloroethane	<0.616	4.00	0.616	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
cis-1,2-Dichloroethylene	2.86	2.00	0.293	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
1,1-Dichloroethane	1.24	4.00	0.283	µg/L	2	J	624.1	11/9/22	11/11/22 6:43	EEH
1,1-Dichloroethylene	2.40	4.00	0.283	µg/L	2	J	624.1	11/9/22	11/11/22 6:43	EEH
trans-1,2-Dichloroethylene	<0.337	4.00	0.337	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
1,2-Dichloropropane	<0.362	4.00	0.362	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
cis-1,3-Dichloropropene	<0.316	4.00	0.316	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
trans-1,3-Dichloropropene	<0.336	4.00	0.336	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
Ethylbenzene	<0.430	4.00	0.430	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
Methyl tert-Butyl Ether (MTBE)	<0.344	4.00	0.344	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
Methylene Chloride	<0.470	10.0	0.470	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
1,1,2,2-Tetrachloroethane	<0.253	4.00	0.253	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
Tetrachloroethylene	3.02	4.00	0.374	µg/L	2	J	624.1	11/9/22	11/11/22 6:43	EEH
Toluene	<0.448	2.00	0.448	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
1,1,1-Trichloroethane	6.32	4.00	0.338	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
1,1,2-Trichloroethane	<0.365	4.00	0.365	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
Trichloroethylene	271	4.00	0.379	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
Trichlorofluoromethane (Freon 11)	<0.352	4.00	0.352	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
Vinyl Chloride	<0.415	4.00	0.415	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
m+p Xylene	<0.918	4.00	0.918	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH
o-Xylene	<0.459	2.00	0.459	µg/L	2		624.1	11/9/22	11/11/22 6:43	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		11/11/22 6:43
Toluene-d8	100	70-130		11/11/22 6:43
4-Bromofluorobenzene	92.8	70-130		11/11/22 6:43

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: MW-17R-110222 | Sampled: 11/2/2022 14:16

Sample ID: 22K0994-12

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	0.920	4.00	0.799	µg/L	4	J	624.1	11/9/22	11/11/22 7:10	EEH
Bromodichloromethane	<0.722	8.00	0.722	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
Bromoform	<1.53	8.00	1.53	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
Bromomethane	<6.15	8.00	6.15	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
Carbon Tetrachloride	<0.660	8.00	0.660	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
Chlorobenzene	<0.421	8.00	0.421	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
Chlorodibromomethane	<0.890	8.00	0.890	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
Chloroethane	<1.28	8.00	1.28	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
Chloroform	<0.670	8.00	0.670	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
Chloromethane	<2.09	8.00	2.09	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
1,2-Dichlorobenzene	<0.487	8.00	0.487	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
1,3-Dichlorobenzene	<0.473	8.00	0.473	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
1,4-Dichlorobenzene	<0.521	8.00	0.521	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
1,2-Dichloroethane	<1.23	8.00	1.23	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
cis-1,2-Dichloroethylene	643	4.00	0.587	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
1,1-Dichloroethane	28.3	8.00	0.566	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
1,1-Dichloroethylene	8.80	8.00	0.566	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
trans-1,2-Dichloroethylene	5.08	8.00	0.674	µg/L	4	J	624.1	11/9/22	11/11/22 7:10	EEH
1,2-Dichloropropane	<0.724	8.00	0.724	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
cis-1,3-Dichloropropene	<0.633	8.00	0.633	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
trans-1,3-Dichloropropene	<0.672	8.00	0.672	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
Ethylbenzene	<0.860	8.00	0.860	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
Methyl tert-Butyl Ether (MTBE)	<0.689	8.00	0.689	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
Methylene Chloride	<0.939	20.0	0.939	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
1,1,2,2-Tetrachloroethane	<0.507	8.00	0.507	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
Tetrachloroethylene	1.52	8.00	0.748	µg/L	4	J	624.1	11/9/22	11/11/22 7:10	EEH
Toluene	1.40	4.00	0.897	µg/L	4	J	624.1	11/9/22	11/11/22 7:10	EEH
1,1,1-Trichloroethane	<0.676	8.00	0.676	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
1,1,2-Trichloroethane	<0.730	8.00	0.730	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
Trichloroethylene	33.0	8.00	0.758	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
Trichlorofluoromethane (Freon 11)	<0.703	8.00	0.703	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
Vinyl Chloride	182	8.00	0.830	µg/L	4	L-05	624.1	11/9/22	11/11/22 7:10	EEH
m+p Xylene	<1.84	8.00	1.84	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH
o-Xylene	<0.919	4.00	0.919	µg/L	4		624.1	11/9/22	11/11/22 7:10	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		11/11/22 7:10
Toluene-d8	100	70-130		11/11/22 7:10
4-Bromofluorobenzene	93.3	70-130		11/11/22 7:10

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: MW-2S-110322 | Sampled: 11/3/2022 10:58

Sample ID: 22K0994-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
cis-1,2-Dichloroethylene	0.480	1.00	0.147	µg/L	1	J	624.1	11/9/22	11/11/22 2:10	EEH
1,1-Dichloroethane	0.930	2.00	0.142	µg/L	1	J	624.1	11/9/22	11/11/22 2:10	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	11/9/22	11/11/22 2:10	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		11/11/22 2:10
Toluene-d8	101	70-130		11/11/22 2:10
4-Bromofluorobenzene	90.7	70-130		11/11/22 2:10

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: MW-14R-110322 | Sampled: 11/3/2022 10:52

Sample ID: 22K0994-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
cis-1,2-Dichloroethylene	6.37	1.00	0.147	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
Trichloroethylene	0.470	2.00	0.189	µg/L	1	J	624.1	11/9/22	11/11/22 2:37	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
Vinyl Chloride	7.41	2.00	0.208	µg/L	1	L-05	624.1	11/9/22	11/11/22 2:37	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	11/9/22	11/11/22 2:37	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	112	70-130		11/11/22 2:37
Toluene-d8	101	70-130		11/11/22 2:37
4-Bromofluorobenzene	92.1	70-130		11/11/22 2:37

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: MW-14S-110322 | Sampled: 11/3/2022 12:30

Sample ID: 22K0994-15

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
cis-1,2-Dichloroethylene	<0.147	1.00	0.147	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	11/9/22	11/11/22 3:05	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	115	70-130		11/11/22 3:05
Toluene-d8	102	70-130		11/11/22 3:05
4-Bromofluorobenzene	92.8	70-130		11/11/22 3:05

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: PZ-2-110322 | Sampled: 11/3/2022 14:15

Sample ID: 22K0994-16

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
cis-1,2-Dichloroethylene	3.55	1.00	0.147	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
1,1-Dichloroethane	0.720	2.00	0.142	µg/L	1	J	624.1	11/9/22	11/11/22 3:32	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
Tetrachloroethylene	0.960	2.00	0.187	µg/L	1	J	624.1	11/9/22	11/11/22 3:32	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
1,1,1-Trichloroethane	0.900	2.00	0.169	µg/L	1	J	624.1	11/9/22	11/11/22 3:32	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
Trichloroethylene	1.88	2.00	0.189	µg/L	1	J	624.1	11/9/22	11/11/22 3:32	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	11/9/22	11/11/22 3:32	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	116	70-130		11/11/22 3:32
Toluene-d8	101	70-130		11/11/22 3:32
4-Bromofluorobenzene	91.8	70-130		11/11/22 3:32

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: MW-2R-110322 | Sampled: 11/3/2022 14:11

Sample ID: 22K0994-17

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
cis-1,2-Dichloroethylene	1.23	1.00	0.147	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
Methylene Chloride	0.270	5.00	0.235	µg/L	1	J	624.1	11/9/22	11/11/22 3:59	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
Toluene	12.7	1.00	0.224	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
Vinyl Chloride	1.02	2.00	0.208	µg/L	1	L-05, J	624.1	11/9/22	11/11/22 3:59	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	11/9/22	11/11/22 3:59	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	117	70-130		11/11/22 3:59
Toluene-d8	99.9	70-130		11/11/22 3:59
4-Bromofluorobenzene	92.5	70-130		11/11/22 3:59

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: MW-13S-110422 | Sampled: 11/4/2022 09:30

Sample ID: 22K0994-18

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
cis-1,2-Dichloroethylene	7.58	1.00	0.147	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
1,1-Dichloroethane	0.470	2.00	0.142	µg/L	1	J	624.1	11/9/22	11/11/22 4:27	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
Trichloroethylene	0.700	2.00	0.189	µg/L	1	J	624.1	11/9/22	11/11/22 4:27	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
Vinyl Chloride	1.38	2.00	0.208	µg/L	1	L-05, J	624.1	11/9/22	11/11/22 4:27	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	11/9/22	11/11/22 4:27	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	114	70-130		11/11/22 4:27
Toluene-d8	101	70-130		11/11/22 4:27
4-Bromofluorobenzene	92.0	70-130		11/11/22 4:27

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: PZ-1-110422 | Sampled: 11/4/2022 10:20

Sample ID: 22K0994-19

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
cis-1,2-Dichloroethylene	8.21	1.00	0.147	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
1,1-Dichloroethane	0.310	2.00	0.142	µg/L	1	J	624.1	11/9/22	11/11/22 4:54	EEH
1,1-Dichloroethylene	0.280	2.00	0.141	µg/L	1	J	624.1	11/9/22	11/11/22 4:54	EEH
trans-1,2-Dichloroethylene	0.420	2.00	0.169	µg/L	1	J	624.1	11/9/22	11/11/22 4:54	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
Methylene Chloride	0.300	5.00	0.235	µg/L	1	J	624.1	11/9/22	11/11/22 4:54	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
Trichloroethylene	4.86	2.00	0.189	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
Vinyl Chloride	1.09	2.00	0.208	µg/L	1	L-05, J	624.1	11/9/22	11/11/22 4:54	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	11/9/22	11/11/22 4:54	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	118	70-130		11/11/22 4:54
Toluene-d8	102	70-130		11/11/22 4:54
4-Bromofluorobenzene	92.4	70-130		11/11/22 4:54

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: PW-1-110422 | Sampled: 11/4/2022 12:00

Sample ID: 22K0994-20

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.799	4.00	0.799	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
Bromodichloromethane	<0.722	8.00	0.722	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
Bromoform	<1.53	8.00	1.53	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
Bromomethane	<6.15	8.00	6.15	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
Carbon Tetrachloride	<0.660	8.00	0.660	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
Chlorobenzene	<0.421	8.00	0.421	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
Chlorodibromomethane	<0.890	8.00	0.890	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
Chloroethane	<1.28	8.00	1.28	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
Chloroform	<0.670	8.00	0.670	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
Chloromethane	<2.09	8.00	2.09	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
1,2-Dichlorobenzene	<0.487	8.00	0.487	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
1,3-Dichlorobenzene	<0.473	8.00	0.473	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
1,4-Dichlorobenzene	<0.521	8.00	0.521	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
1,2-Dichloroethane	<1.23	8.00	1.23	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
cis-1,2-Dichloroethylene	127	4.00	0.587	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
1,1-Dichloroethane	10.3	8.00	0.566	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
1,1-Dichloroethylene	2.16	8.00	0.566	µg/L	4	J	624.1	11/9/22	11/11/22 9:36	EEH
trans-1,2-Dichloroethylene	5.28	8.00	0.674	µg/L	4	J	624.1	11/9/22	11/11/22 9:36	EEH
1,2-Dichloropropane	<0.724	8.00	0.724	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
cis-1,3-Dichloropropene	<0.633	8.00	0.633	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
trans-1,3-Dichloropropene	<0.672	8.00	0.672	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
Ethylbenzene	<0.860	8.00	0.860	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
Methyl tert-Butyl Ether (MTBE)	<0.689	8.00	0.689	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
Methylene Chloride	<0.939	20.0	0.939	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
1,1,2,2-Tetrachloroethane	<0.507	8.00	0.507	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
Tetrachloroethylene	<0.748	8.00	0.748	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
Toluene	<0.897	4.00	0.897	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
1,1,1-Trichloroethane	<0.676	8.00	0.676	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
1,1,2-Trichloroethane	<0.730	8.00	0.730	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
Trichloroethylene	10.8	8.00	0.758	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
Trichlorofluoromethane (Freon 11)	<0.703	8.00	0.703	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
Vinyl Chloride	46.0	8.00	0.830	µg/L	4	L-05	624.1	11/9/22	11/11/22 9:36	EEH
m+p Xylene	<1.84	8.00	1.84	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH
o-Xylene	<0.919	4.00	0.919	µg/L	4		624.1	11/9/22	11/11/22 9:36	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	117	70-130		11/11/22 9:36
Toluene-d8	102	70-130		11/11/22 9:36
4-Bromofluorobenzene	93.1	70-130		11/11/22 9:36

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: RB-110422 | Sampled: 11/4/2022 12:20

Sample ID: 22K0994-21

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
cis-1,2-Dichloroethylene	<0.147	1.00	0.147	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
Methylene Chloride	0.350	5.00	0.235	µg/L	1	J	624.1	11/9/22	11/11/22 5:21	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	11/9/22	11/11/22 5:21	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	115	70-130		11/11/22 5:21
Toluene-d8	101	70-130		11/11/22 5:21
4-Bromofluorobenzene	88.0	70-130		11/11/22 5:21

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: IDW-110422 | Sampled: 11/4/2022 12:05

Sample ID: 22K0994-22

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	0.310	1.00	0.200	µg/L	1	J	624.1	11/9/22	11/11/22 5:49	EEH
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
cis-1,2-Dichloroethylene	88.2	1.00	0.147	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
1,1-Dichloroethane	7.49	2.00	0.142	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
trans-1,2-Dichloroethylene	9.98	2.00	0.169	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Methylene Chloride	0.290	5.00	0.235	µg/L	1	J	624.1	11/9/22	11/11/22 5:49	EEH
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Tetrachloroethylene	0.470	2.00	0.187	µg/L	1	J	624.1	11/9/22	11/11/22 5:49	EEH
Toluene	0.390	1.00	0.224	µg/L	1	J	624.1	11/9/22	11/11/22 5:49	EEH
1,1,1-Trichloroethane	0.540	2.00	0.169	µg/L	1	J	624.1	11/9/22	11/11/22 5:49	EEH
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Trichloroethylene	8.61	2.00	0.189	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
Vinyl Chloride	28.4	2.00	0.208	µg/L	1	L-05	624.1	11/9/22	11/11/22 5:49	EEH
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	11/9/22	11/11/22 5:49	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		11/11/22 5:49
Toluene-d8	100	70-130		11/11/22 5:49
4-Bromofluorobenzene	93.4	70-130		11/11/22 5:49

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Rochester, NY | Sample Description: | Work Order: 22K0994

Date Received: 11/5/2022

Field Sample #: PZ-4-110422 | Sampled: 11/4/2022 14:40

Sample ID: 22K0994-23

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.799	4.00	0.799	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
Bromodichloromethane	<0.722	8.00	0.722	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
Bromoform	<1.53	8.00	1.53	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
Bromomethane	<6.15	8.00	6.15	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
Carbon Tetrachloride	<0.660	8.00	0.660	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
Chlorobenzene	<0.421	8.00	0.421	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
Chlorodibromomethane	<0.890	8.00	0.890	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
Chloroethane	<1.28	8.00	1.28	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
Chloroform	<0.670	8.00	0.670	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
Chloromethane	<2.09	8.00	2.09	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
1,2-Dichlorobenzene	<0.487	8.00	0.487	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
1,3-Dichlorobenzene	<0.473	8.00	0.473	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
1,4-Dichlorobenzene	<0.521	8.00	0.521	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
1,2-Dichloroethane	<1.23	8.00	1.23	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
cis-1,2-Dichloroethylene	724	4.00	0.587	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
1,1-Dichloroethane	28.6	8.00	0.566	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
1,1-Dichloroethylene	6.76	8.00	0.566	µg/L	4	J	624.1	11/9/22	11/11/22 7:38	EEH
trans-1,2-Dichloroethylene	7.48	8.00	0.674	µg/L	4	J	624.1	11/9/22	11/11/22 7:38	EEH
1,2-Dichloropropane	<0.724	8.00	0.724	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
cis-1,3-Dichloropropene	<0.633	8.00	0.633	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
trans-1,3-Dichloropropene	<0.672	8.00	0.672	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
Ethylbenzene	<0.860	8.00	0.860	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
Methyl tert-Butyl Ether (MTBE)	<0.689	8.00	0.689	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
Methylene Chloride	<0.939	20.0	0.939	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
1,1,2,2-Tetrachloroethane	<0.507	8.00	0.507	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
Tetrachloroethylene	8.08	8.00	0.748	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
Toluene	<0.897	4.00	0.897	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
1,1,1-Trichloroethane	34.7	8.00	0.676	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
1,1,2-Trichloroethane	<0.730	8.00	0.730	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
Trichloroethylene	248	8.00	0.758	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
Trichlorofluoromethane (Freon 11)	<0.703	8.00	0.703	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
Vinyl Chloride	79.8	8.00	0.830	µg/L	4	L-05	624.1	11/9/22	11/11/22 7:38	EEH
m+p Xylene	<1.84	8.00	1.84	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH
o-Xylene	<0.919	4.00	0.919	µg/L	4		624.1	11/9/22	11/11/22 7:38	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	117	70-130		11/11/22 7:38
Toluene-d8	102	70-130		11/11/22 7:38
4-Bromofluorobenzene	88.9	70-130		11/11/22 7:38

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 5030B-624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22K0994-01 [TB-110122]	B322428	5	5.00	11/08/22
22K0994-02 [MW-9S-110122]	B322428	5	5.00	11/08/22
22K0994-03 [MW-5R-110122]	B322428	1.25	5.00	11/08/22
22K0994-04 [PZ-3-110122]	B322428	5	5.00	11/08/22
22K0994-05 [PZ-3-110122-Q]	B322428	5	5.00	11/08/22
22K0994-07 [MW-8R-110122]	B322428	2.5	5.00	11/08/22
22K0994-08 [MW-15R-110222]	B322428	5	5.00	11/08/22
22K0994-10 [MW-1S-110222]	B322428	5	5.00	11/08/22

Prep Method: SW-846 5030B-624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22K0994-06 [IW-01-110122]	B322579	1	5.00	11/09/22
22K0994-09 [MW-16R-110222]	B322579	1	5.00	11/09/22
22K0994-11 [MW-10R-110222]	B322579	2.5	5.00	11/09/22
22K0994-12 [MW-17R-110222]	B322579	1.25	5.00	11/09/22
22K0994-13 [MW-2S-110322]	B322579	5	5.00	11/09/22
22K0994-14 [MW-14R-110322]	B322579	5	5.00	11/09/22
22K0994-15 [MW-14S-110322]	B322579	5	5.00	11/09/22
22K0994-16 [PZ-2-110322]	B322579	5	5.00	11/09/22
22K0994-17 [MW-2R-110322]	B322579	5	5.00	11/09/22
22K0994-18 [MW-13S-110422]	B322579	5	5.00	11/09/22
22K0994-19 [PZ-1-110422]	B322579	5	5.00	11/09/22
22K0994-20 [PW-1-110422]	B322579	1.25	5.00	11/09/22
22K0994-21 [RB-110422]	B322579	5	5.00	11/09/22
22K0994-22 [IDW-110422]	B322579	5	5.00	11/09/22
22K0994-23 [PZ-4-110422]	B322579	1.25	5.00	11/09/22

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B322428 - SW-846 5030B											
Blank (B322428-BLK1)					Prepared: 11/08/22 Analyzed: 11/09/22						
Benzene	ND	1.00	0.200	µg/L							
Bromodichloromethane	ND	2.00	0.180	µg/L							
Bromoform	ND	2.00	0.383	µg/L							
Bromomethane	ND	2.00	1.54	µg/L							
Carbon Tetrachloride	ND	2.00	0.165	µg/L							
Chlorobenzene	ND	2.00	0.105	µg/L							
Chlorodibromomethane	ND	2.00	0.222	µg/L							
Chloroethane	ND	2.00	0.320	µg/L							
Chloroform	ND	2.00	0.168	µg/L							
Chloromethane	ND	2.00	0.522	µg/L							
1,2-Dichlorobenzene	ND	2.00	0.122	µg/L							
1,3-Dichlorobenzene	ND	2.00	0.118	µg/L							
1,4-Dichlorobenzene	ND	2.00	0.130	µg/L							
1,2-Dichloroethane	ND	2.00	0.308	µg/L							
cis-1,2-Dichloroethylene	ND	1.00	0.147	µg/L							
1,1-Dichloroethane	ND	2.00	0.142	µg/L							
1,1-Dichloroethylene	ND	2.00	0.141	µg/L							
trans-1,2-Dichloroethylene	ND	2.00	0.169	µg/L							
1,2-Dichloropropane	ND	2.00	0.181	µg/L							
cis-1,3-Dichloropropene	ND	2.00	0.158	µg/L							
trans-1,3-Dichloropropene	ND	2.00	0.168	µg/L							
Ethylbenzene	ND	2.00	0.215	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.172	µg/L							
Methylene Chloride	ND	5.00	0.235	µg/L							
1,1,2,2-Tetrachloroethane	ND	2.00	0.127	µg/L							
Tetrachloroethylene	ND	2.00	0.187	µg/L							
Toluene	ND	1.00	0.224	µg/L							
1,1,1-Trichloroethane	ND	2.00	0.169	µg/L							
1,1,2-Trichloroethane	ND	2.00	0.183	µg/L							
Trichloroethylene	ND	2.00	0.189	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.00	0.176	µg/L							
Vinyl Chloride	ND	2.00	0.208	µg/L							
m+p Xylene	ND	2.00	0.459	µg/L							
o-Xylene	ND	1.00	0.230	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*28.0*			µg/L	25.0		112	70-130			
Surrogate: Toluene-d8	*24.8*			µg/L	25.0		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	*24.0*			µg/L	25.0		96.0	70-130			
LCS (B322428-BS1)					Prepared: 11/08/22 Analyzed: 11/09/22						
Benzene	20	1.00	0.200	µg/L	20.0		99.4	65-135			
Bromodichloromethane	21	2.00	0.180	µg/L	20.0		103	65-135			
Bromoform	19	2.00	0.383	µg/L	20.0		93.7	70-130			
Bromomethane	24	2.00	1.54	µg/L	20.0		120	15-185			
Carbon Tetrachloride	21	2.00	0.165	µg/L	20.0		107	70-130			
Chlorobenzene	21	2.00	0.105	µg/L	20.0		107	65-135			
Chlorodibromomethane	20	2.00	0.222	µg/L	20.0		102	70-135			
Chloroethane	23	2.00	0.320	µg/L	20.0		115	40-160			
Chloroform	22	2.00	0.168	µg/L	20.0		108	70-135			
Chloromethane	19	2.00	0.522	µg/L	20.0		93.7	20-205			
1,2-Dichlorobenzene	21	2.00	0.122	µg/L	20.0		107	65-135			

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B322428 - SW-846 5030B												
LCS (B322428-BS1)					Prepared: 11/08/22 Analyzed: 11/09/22							
1,3-Dichlorobenzene	22	2.00	0.118	µg/L	20.0		108		70-130			
1,4-Dichlorobenzene	21	2.00	0.130	µg/L	20.0		103		65-135			
1,2-Dichloroethane	20	2.00	0.308	µg/L	20.0		102		70-130			
cis-1,2-Dichloroethylene	22	1.00	0.147	µg/L	20.0		108		70-130			
1,1-Dichloroethane	20	2.00	0.142	µg/L	20.0		102		70-130			
1,1-Dichloroethylene	21	2.00	0.141	µg/L	20.0		106		50-150			
trans-1,2-Dichloroethylene	25	2.00	0.169	µg/L	20.0		127		70-130			
1,2-Dichloropropane	20	2.00	0.181	µg/L	20.0		102		35-165			
cis-1,3-Dichloropropene	20	2.00	0.158	µg/L	20.0		98.3		25-175			
trans-1,3-Dichloropropene	21	2.00	0.168	µg/L	20.0		105		50-150			
Ethylbenzene	22	2.00	0.215	µg/L	20.0		112		60-140			
Methyl tert-Butyl Ether (MTBE)	19	2.00	0.172	µg/L	20.0		97.0		70-130			
Methylene Chloride	22	5.00	0.235	µg/L	20.0		111		60-140			
1,1,2,2-Tetrachloroethane	22	2.00	0.127	µg/L	20.0		110		60-140			
Tetrachloroethylene	21	2.00	0.187	µg/L	20.0		105		70-130			
Toluene	21	1.00	0.224	µg/L	20.0		104		70-130			
1,1,1-Trichloroethane	22	2.00	0.169	µg/L	20.0		109		70-130			
1,1,2-Trichloroethane	22	2.00	0.183	µg/L	20.0		110		70-130			
Trichloroethylene	21	2.00	0.189	µg/L	20.0		104		65-135			
Trichlorofluoromethane (Freon 11)	23	2.00	0.176	µg/L	20.0		116		50-150			
Vinyl Chloride	40	2.00	0.208	µg/L	20.0		**202**	*	5-195			L-05
m+p Xylene	45	2.00	0.459	µg/L	40.0		112		70-130			
o-Xylene	23	1.00	0.230	µg/L	20.0		116		70-130			
Surrogate: 1,2-Dichloroethane-d4	*26.7*			µg/L	25.0		107		70-130			
Surrogate: Toluene-d8	*25.1*			µg/L	25.0		100		70-130			
Surrogate: 4-Bromofluorobenzene	*25.9*			µg/L	25.0		104		70-130			
Matrix Spike (B322428-MS1)		**Source: 22K0994-10**			Prepared: 11/08/22 Analyzed: 11/09/22							
Benzene	22	1.00	0.200	µg/L	20.0	ND	108		37-151			
Bromodichloromethane	22	2.00	0.180	µg/L	20.0	ND	111		35-155			
Bromoform	19	2.00	0.383	µg/L	20.0	ND	96.2		45-169			
Bromomethane	24	2.00	1.54	µg/L	20.0	ND	119		20-242			
Carbon Tetrachloride	24	2.00	0.165	µg/L	20.0	ND	119		70-140			
Chlorobenzene	22	2.00	0.105	µg/L	20.0	ND	110		37-160			
Chlorodibromomethane	22	2.00	0.222	µg/L	20.0	ND	108		53-149			
Chloroethane	25	2.00	0.320	µg/L	20.0	ND	124		14-230			
Chloroform	23	2.00	0.168	µg/L	20.0	ND	117		51-138			
Chloromethane	18	2.00	0.522	µg/L	20.0	ND	90.6		20-273			
1,2-Dichlorobenzene	21	2.00	0.122	µg/L	20.0	ND	105		18-190			
1,3-Dichlorobenzene	21	2.00	0.118	µg/L	20.0	ND	107		59-156			
1,4-Dichlorobenzene	20	2.00	0.130	µg/L	20.0	ND	102		18-190			
1,2-Dichloroethane	21	2.00	0.308	µg/L	20.0	ND	103		49-155			
cis-1,2-Dichloroethylene	55	1.00	0.147	µg/L	20.0	30	123		70-130			
1,1-Dichloroethane	23	2.00	0.142	µg/L	20.0	1.8	107		59-155			
1,1-Dichloroethylene	23	2.00	0.141	µg/L	20.0	0.64	112		20-234			
trans-1,2-Dichloroethylene	29	2.00	0.169	µg/L	20.0	ND	147		54-156			
1,2-Dichloropropane	20	2.00	0.181	µg/L	20.0	ND	102		20-210			
cis-1,3-Dichloropropene	20	2.00	0.158	µg/L	20.0	ND	98.8		20-227			
trans-1,3-Dichloropropene	21	2.00	0.168	µg/L	20.0	ND	103		17-183			
Ethylbenzene	23	2.00	0.215	µg/L	20.0	ND	116		37-162			

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B322428 - SW-846 5030B												
Matrix Spike (B322428-MS1)	**Source: 22K0994-10**				Prepared: 11/08/22 Analyzed: 11/09/22							
Methyl tert-Butyl Ether (MTBE)	19	2.00	0.172	µg/L	20.0	ND	95.8		70-130			
Methylene Chloride	24	5.00	0.235	µg/L	20.0	ND	120		20-221			
1,1,2,2-Tetrachloroethane	21	2.00	0.127	µg/L	20.0	ND	106		46-157			
Tetrachloroethylene	25	2.00	0.187	µg/L	20.0	2.7	111		64-148			
Toluene	22	1.00	0.224	µg/L	20.0	ND	108		47-150			
1,1,1-Trichloroethane	26	2.00	0.169	µg/L	20.0	1.8	122		52-162			
1,1,2-Trichloroethane	22	2.00	0.183	µg/L	20.0	ND	111		52-150			
Trichloroethylene	43	2.00	0.189	µg/L	20.0	19	117		70-157			
Trichlorofluoromethane (Freon 11)	25	2.00	0.176	µg/L	20.0	ND	126		17-181			
Vinyl Chloride	50	2.00	0.208	µg/L	20.0	ND	248		20-251			
m+p Xylene	46	2.00	0.459	µg/L	40.0	ND	115		70-130			
o-Xylene	24	1.00	0.230	µg/L	20.0	ND	119		70-130			
Surrogate: 1,2-Dichloroethane-d4	*27.1*			µg/L	25.0		108		70-130			
Surrogate: Toluene-d8	*25.1*			µg/L	25.0		100		70-130			
Surrogate: 4-Bromofluorobenzene	*25.9*			µg/L	25.0		104		70-130			
Matrix Spike Dup (B322428-MSD1)	**Source: 22K0994-10**				Prepared: 11/08/22 Analyzed: 11/09/22							
Benzene	23	1.00	0.200	µg/L	20.0	ND	113		37-151	4.80	61	
Bromodichloromethane	24	2.00	0.180	µg/L	20.0	ND	118		35-155	5.72	56	
Bromoform	21	2.00	0.383	µg/L	20.0	ND	106		45-169	10.1	42	
Bromomethane	27	2.00	1.54	µg/L	20.0	ND	134		20-242	11.8	61	
Carbon Tetrachloride	25	2.00	0.165	µg/L	20.0	ND	125		70-140	4.91	41	
Chlorobenzene	23	2.00	0.105	µg/L	20.0	ND	116		37-160	4.92	53	
Chlorodibromomethane	23	2.00	0.222	µg/L	20.0	ND	115		53-149	5.97	50	
Chloroethane	26	2.00	0.320	µg/L	20.0	ND	131		14-230	5.80	78	
Chloroform	24	2.00	0.168	µg/L	20.0	ND	122		51-138	4.40	54	
Chloromethane	20	2.00	0.522	µg/L	20.0	ND	101		20-273	10.9	60	
1,2-Dichlorobenzene	22	2.00	0.122	µg/L	20.0	ND	109		18-190	3.91	57	
1,3-Dichlorobenzene	23	2.00	0.118	µg/L	20.0	ND	116		59-156	7.39	43	
1,4-Dichlorobenzene	22	2.00	0.130	µg/L	20.0	ND	110		18-190	8.21	57	
1,2-Dichloroethane	22	2.00	0.308	µg/L	20.0	ND	108		49-155	4.88	49	
cis-1,2-Dichloroethylene	56	1.00	0.147	µg/L	20.0	30	128		70-130	1.58	30	
1,1-Dichloroethane	25	2.00	0.142	µg/L	20.0	1.8	116		59-155	6.86	40	
1,1-Dichloroethylene	24	2.00	0.141	µg/L	20.0	0.64	118		20-234	4.45	32	
trans-1,2-Dichloroethylene	32	2.00	0.169	µg/L	20.0	ND	**162**	*	54-156	9.66	45	MS-24
1,2-Dichloropropane	22	2.00	0.181	µg/L	20.0	ND	110		20-210	7.07	55	
cis-1,3-Dichloropropene	20	2.00	0.158	µg/L	20.0	ND	102		20-227	2.89	58	
trans-1,3-Dichloropropene	22	2.00	0.168	µg/L	20.0	ND	110		17-183	6.46	86	
Ethylbenzene	24	2.00	0.215	µg/L	20.0	ND	122		37-162	5.21	63	
Methyl tert-Butyl Ether (MTBE)	21	2.00	0.172	µg/L	20.0	ND	105		70-130	9.07	20	
Methylene Chloride	25	5.00	0.235	µg/L	20.0	ND	123		20-221	2.35	28	
1,1,2,2-Tetrachloroethane	23	2.00	0.127	µg/L	20.0	ND	116		46-157	8.99	61	
Tetrachloroethylene	26	2.00	0.187	µg/L	20.0	2.7	114		64-148	2.58	39	
Toluene	23	1.00	0.224	µg/L	20.0	ND	116		47-150	7.06	41	
1,1,1-Trichloroethane	27	2.00	0.169	µg/L	20.0	1.8	128		52-162	4.78	36	
1,1,2-Trichloroethane	23	2.00	0.183	µg/L	20.0	ND	117		52-150	5.54	45	
Trichloroethylene	42	2.00	0.189	µg/L	20.0	19	116		70-157	0.563	48	
Trichlorofluoromethane (Freon 11)	26	2.00	0.176	µg/L	20.0	ND	130		17-181	3.47	84	
Vinyl Chloride	51	2.00	0.208	µg/L	20.0	ND	**255**	*	20-251	2.96	66	MS-22
m+p Xylene	49	2.00	0.459	µg/L	40.0	ND	121		70-130	4.99	20	

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B322428 - SW-846 5030B											
Matrix Spike Dup (B322428-MSD1)	**Source: 22K0994-10**				Prepared: 11/08/22 Analyzed: 11/09/22						
o-Xylene	25	1.00	0.230	µg/L	20.0	ND	126	70-130	5.91	20	
Surrogate: 1,2-Dichloroethane-d4	*28.4*			µg/L	25.0		114	70-130			
Surrogate: Toluene-d8	*24.9*			µg/L	25.0		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	*25.9*			µg/L	25.0		104	70-130			
Batch B322579 - SW-846 5030B											
Blank (B322579-BLK1)					Prepared: 11/09/22 Analyzed: 11/11/22						
Benzene	ND	1.00	0.200	µg/L							
Bromodichloromethane	ND	2.00	0.180	µg/L							
Bromoform	ND	2.00	0.383	µg/L							
Bromomethane	ND	2.00	1.54	µg/L							
Carbon Tetrachloride	ND	2.00	0.165	µg/L							
Chlorobenzene	ND	2.00	0.105	µg/L							
Chlorodibromomethane	ND	2.00	0.222	µg/L							
Chloroethane	ND	2.00	0.320	µg/L							
Chloroform	ND	2.00	0.168	µg/L							
Chloromethane	ND	2.00	0.522	µg/L							
1,2-Dichlorobenzene	ND	2.00	0.122	µg/L							
1,3-Dichlorobenzene	ND	2.00	0.118	µg/L							
1,4-Dichlorobenzene	ND	2.00	0.130	µg/L							
1,2-Dichloroethane	ND	2.00	0.308	µg/L							
cis-1,2-Dichloroethylene	ND	1.00	0.147	µg/L							
1,1-Dichloroethane	ND	2.00	0.142	µg/L							
1,1-Dichloroethylene	ND	2.00	0.141	µg/L							
trans-1,2-Dichloroethylene	ND	2.00	0.169	µg/L							
1,2-Dichloropropane	ND	2.00	0.181	µg/L							
cis-1,3-Dichloropropene	ND	2.00	0.158	µg/L							
trans-1,3-Dichloropropene	ND	2.00	0.168	µg/L							
Ethylbenzene	ND	2.00	0.215	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	2.00	0.172	µg/L							
Methylene Chloride	ND	5.00	0.235	µg/L							
1,1,2,2-Tetrachloroethane	ND	2.00	0.127	µg/L							
Tetrachloroethylene	ND	2.00	0.187	µg/L							
Toluene	ND	1.00	0.224	µg/L							
1,1,1-Trichloroethane	ND	2.00	0.169	µg/L							
1,1,2-Trichloroethane	ND	2.00	0.183	µg/L							
Trichloroethylene	ND	2.00	0.189	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.00	0.176	µg/L							
Vinyl Chloride	ND	2.00	0.208	µg/L							
m+p Xylene	ND	2.00	0.459	µg/L							
o-Xylene	ND	1.00	0.230	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*29.0*			µg/L	25.0		116	70-130			
Surrogate: Toluene-d8	*25.4*			µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*23.4*			µg/L	25.0		93.6	70-130			

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B322579 - SW-846 5030B												
LCS (B322579-BS1)					Prepared: 11/09/22 Analyzed: 11/10/22							
Benzene	20	1.00	0.200	µg/L	20.0		101		65-135			
Bromodichloromethane	20	2.00	0.180	µg/L	20.0		102		65-135			
Bromoform	18	2.00	0.383	µg/L	20.0		87.7		70-130			
Bromomethane	21	2.00	1.54	µg/L	20.0		103		15-185			
Carbon Tetrachloride	22	2.00	0.165	µg/L	20.0		108		70-130			
Chlorobenzene	21	2.00	0.105	µg/L	20.0		105		65-135			
Chlorodibromomethane	20	2.00	0.222	µg/L	20.0		101		70-135			
Chloroethane	24	2.00	0.320	µg/L	20.0		120		40-160			
Chloroform	22	2.00	0.168	µg/L	20.0		111		70-135			
Chloromethane	21	2.00	0.522	µg/L	20.0		104		20-205			
1,2-Dichlorobenzene	21	2.00	0.122	µg/L	20.0		104		65-135			
1,3-Dichlorobenzene	21	2.00	0.118	µg/L	20.0		105		70-130			
1,4-Dichlorobenzene	20	2.00	0.130	µg/L	20.0		99.9		65-135			
1,2-Dichloroethane	20	2.00	0.308	µg/L	20.0		101		70-130			
cis-1,2-Dichloroethylene	22	1.00	0.147	µg/L	20.0		110		70-130			
1,1-Dichloroethane	21	2.00	0.142	µg/L	20.0		107		70-130			
1,1-Dichloroethylene	21	2.00	0.141	µg/L	20.0		103		50-150			
trans-1,2-Dichloroethylene	21	2.00	0.169	µg/L	20.0		106		70-130			
1,2-Dichloropropane	20	2.00	0.181	µg/L	20.0		101		35-165			
cis-1,3-Dichloropropene	19	2.00	0.158	µg/L	20.0		93.0		25-175			
trans-1,3-Dichloropropene	21	2.00	0.168	µg/L	20.0		104		50-150			
Ethylbenzene	22	2.00	0.215	µg/L	20.0		109		60-140			
Methyl tert-Butyl Ether (MTBE)	19	2.00	0.172	µg/L	20.0		95.5		70-130			
Methylene Chloride	22	5.00	0.235	µg/L	20.0		112		60-140			
1,1,2,2-Tetrachloroethane	21	2.00	0.127	µg/L	20.0		107		60-140			
Tetrachloroethylene	20	2.00	0.187	µg/L	20.0		99.5		70-130			
Toluene	21	1.00	0.224	µg/L	20.0		104		70-130			
1,1,1-Trichloroethane	22	2.00	0.169	µg/L	20.0		112		70-130			
1,1,2-Trichloroethane	21	2.00	0.183	µg/L	20.0		107		70-130			
Trichloroethylene	20	2.00	0.189	µg/L	20.0		102		65-135			
Trichlorofluoromethane (Freon 11)	23	2.00	0.176	µg/L	20.0		115		50-150			
Vinyl Chloride	44	2.00	0.208	µg/L	20.0		**222**	*	5-195			L-05
m+p Xylene	44	2.00	0.459	µg/L	40.0		110		70-130			
o-Xylene	23	1.00	0.230	µg/L	20.0		113		70-130			
Surrogate: 1,2-Dichloroethane-d4	*27.5*			µg/L	25.0		110		70-130			
Surrogate: Toluene-d8	*24.8*			µg/L	25.0		99.3		70-130			
Surrogate: 4-Bromofluorobenzene	*25.7*			µg/L	25.0		103		70-130			

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-05	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
RL-11	Elevated reporting limit due to high concentration of target compounds.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
624.1 in Water	
Benzene	CT,NY,MA,NH,RI,NC,ME,VA
Bromodichloromethane	CT,NY,MA,NH,RI,NC,ME,VA
Bromoform	CT,NY,MA,NH,RI,NC,ME,VA
Bromomethane	CT,NY,MA,NH,RI,NC,ME,VA
Carbon Tetrachloride	CT,NY,MA,NH,RI,NC,ME,VA
Chlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
Chlorodibromomethane	CT,NY,MA,NH,RI,NC,ME,VA
Chloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Chloroform	CT,NY,MA,NH,RI,NC,ME,VA
Chloromethane	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,3-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,4-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
cis-1,2-Dichloroethylene	NY,MA
1,1-Dichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1-Dichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
trans-1,2-Dichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichloropropane	CT,NY,MA,NH,RI,NC,ME,VA
cis-1,3-Dichloropropene	CT,NY,MA,NH,RI,NC,ME,VA
trans-1,3-Dichloropropene	CT,NY,MA,NH,RI,NC,ME,VA
Ethylbenzene	CT,NY,MA,NH,RI,NC,ME,VA
Methyl tert-Butyl Ether (MTBE)	NY,MA,NH,NC
Methylene Chloride	CT,NY,MA,NH,RI,NC,ME,VA
1,1,2,2-Tetrachloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Tetrachloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
Toluene	CT,NY,MA,NH,RI,NC,ME,VA
1,1,1-Trichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1,2-Trichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Trichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NY,MA,NH,RI,NC,ME,VA
Vinyl Chloride	CT,NY,MA,NH,RI,NC,ME,VA
m+p Xylene	CT,NY,MA,NH,RI,NC
o-Xylene	CT,NY,MA,NH,RI,NC

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2023
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2023

Pace Analytical® 22k0994 Phone: 612-607-6400 Fax: 612-607-6344 https://www.pacelabs.com/ Doc # 380 Rev 1_03242017

jill.gulczewski@wsp.com + jenelle.gaylord@dec.ny.gov

CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Page 1 of 3

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name:	WSP / NYSDEC
Address:	40 La Riviere Dr. Buffalo NY 14202 (WSP)
Phone:	625 Broadway (DER) Albany, NY 12233 (518)402-4791
Project Name:	Davis Howland
Project Location:	Rochester, NY
Project Number:	EE170507.0004
Project Manager:	Jill Gulczewski
Pace Analytical Quote Name/Number	
Invoice Recipient:	
Sampled By:	L. Zweigenbaum L. Reed

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☒ EDD
Other: Cat B (PDF)
CLP Like Data Pkg Required: ☐
Email To:
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	624.1 VOC	# of Containers	[2] Preservation Code	[3] Container Code
								19	19	H	V
1	TB-110122		11/1/22 09:37			GW		1			
2	MW-9S-110122		11/1/22 09:52			GW		2			
3	MWSR-110122		11/1/22 10:32			GW		2			
4	PZ-3-110122		11/1/22 11:18			GW		2			
5	PZ-3-110122-Q		11/1/22 11:18			GW		2			
6	IW-01-110122		11/1/22 13:32			GW		2			
7	MW-8R-110122		11/1/22 13:40			GW		2			
8	MW-15R-110222		11/2/22 09:46			GW		2			
9	MW-10R-110222		11/2/22 10:12			GW		2			
10	MW-1S-110222		11/2/22 12:12			GW		2			

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Comments:
TB-110122 is a trip blank

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time: 11/4/22 12:31
Received by: (signature) 7.5	Date/Time: 11/5
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☒ 6 x Excel NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

Pace Analytical®

22K0994

Phone: 612-607-6400
Fax: 612-607-6344

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

1800 Elm Street SE
Minneapolis, MN 55414

jill.gulczewski@wsp.com + jenelle.gaylord@dec.ny.gov

CHAIN OF CUSTODY RECORD (New York)

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name:	WSP / NYSDEC
Address:	40 La Riviere Dr. Buffalo NY 14202 (WSP)
~~Phone~~:	625 Broadway (DER) Albany NY 12233 (518) 402-9791
Project Name:	Davis Howland
Project Location:	Rochester, NY
Project Number:	EE1705007.0009 / NYSDEC #828088
Project Manager:	Jill Gulczewski
Pace Analytical Quote Name/Number	
Invoice Recipient:	
Sampled By:	

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☒ EDD
Other: Cat B (PDF)
CLP Like Data Pkg Required: ☐
Email To: See above
Fax To #:

ANALYSIS REQUESTED

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	624.1 VOC	# of Containers	[2] Preservation Code	[3] Container Code
10	MW-1S-110222-MS		11/2/22 12:12			GW		2	20	H	V
11	MW-1S-110222-MSD		11/2/22 12:32					2			
11	MW-102-110222		11/2/22 12:06					2			
12	MW-17R-110222		11/2/22 14:10					2			
13	MW-2S-110322		11/3/22 10:58					2			
14	MW-14R-110322		11/3/22 10:52					2			
15	MW-14S-110322		11/3/22 12:30					2			
16	PZ-2-110322		11/3/22 14:15					2			
17	MW-2R-110322		11/3/22 14:11					2			
18	MW-13S-110422		11/4/22 09:30					2			

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 11/4/22 12:31
Received by: (signature)	Date/Time: 11/5 11/4
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☒ Excel NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

Pace Analytical®

22K0994

Phone: 612-607-6400
Fax: 612-607-6344

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

1800 Elm Street SE
Minneapolis, MN 55414

jill.gulczewski@wsp.com + jenelle.gaylord@dec.ny.gov

CHAIN OF CUSTODY RECORD (New York)

Page 3 of 3

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name:	WSP/NYSDEC
Address:	40 La Riviere Dr. Buffalo NY 14202 (WSP)
Phone:	625 Broadway (DEC) Albany NY 12233 (518) 402-9791
Project Name:	David Howland
Project Location:	Rochester, NY
Project Number:	EE170500 7.0009
Project Manager:	Jill Gulczewski / Jenelle Gaylord
Pace Analytical Quote Name/Number	
Invoice Recipient:	
Sampled By:	K. Zwiegenbaum, LRoedl, E. Reiner

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☒ EDD
Other: cat B (PDF)
CLP Like Data Pkg Required: ☐
Email To: see above
Fax To #:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	624.1 VOA	# of Containers	Preservation Code	Container Code
19	PZ-1-110422		11/4/22 10:20			GW		2	10	H	V
20	PW-1-110422		11/4/22 12:00			GW		2			
21	RB-110422		11/4/22 12:20			O		2			
22	IDW-NOV22		11/4/22 12:05			WW		2			
23	PZ-4-110222		11/2/22 14:45			GW		2			

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Comments: RB-110422 is a rinse blank

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time:	11/4/22 12:31
Received by: (signature)	Date/Time:	11/5 1114
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☒ Excel NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

FedEx® Tracking

DELIVERED

Saturday

11/5/2022 at 11:14 am

Signed for by: M.ARROYO

Obtain Proof of delivery

DELIVERY STATUS

Delivered

Get Status Updates

TRACKING ID

791305479660

FROM
BUFFALO, NY US

Label Created
10/19/2022 9:15 AM

PACKAGE RECEIVED BY FEDEX
CHEEKTOWAGA, NY
11/4/2022 3:34 PM

IN TRANSIT
WINDSOR LOCKS, CT
11/5/2022 10:08 AM

OUT FOR DELIVERY
WINDSOR LOCKS, CT
11/5/2022 10:08 AM

DELIVERED
East Longmeadow, MA US

DELIVERED
11/5/2022 at 11:14 AM

View travel history

Manage Delivery

Shipment facts

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.pacelabs.com

Pace PEOPLE ADVANCING SCIENCE

Doc# 277 Rev 6 July 2022

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client WSP

Received By LR Date 11/15 Time 1114

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct From Sample _____ Ambient _____ Melted Ice _____

Were samples within Tempurature? Within 2-6°C T By Gun # 3 Actual Temp - 2.5
By Blank # _____ Actual Temp - _____

Was Custody Seal In tact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client? T Analysis? T Sampler Name? T
Project? T ID's? T Collection Dates/Times? T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Samples are received within holding time? T Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? T

Proper Media/Containers Used? T splitting samples required F

Were trip blanks receive T On COC? T

Do All Samples Have the proper pH? NA Acid Base

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	49	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments: