



WSP USA, Inc.
100 Apollo Drive, 3rd Floor
Chelmsford, MA 01824

February 4, 2026

Mr. Joseph T. Martella II, Senior Engineer
Rhode Island Department of Environmental Management
Office of Land Revitalization and Sustainable Materials Management
Site Remediation Program
235 Promenade Street
Providence, Rhode Island 02908

**RE: Parcel C Groundwater Sampling – December 2025
Former Gorham Manufacturing Facility
333 Adelaide Avenue, Providence, Rhode Island
WSP Project No. 3652220351**

Dear Mr. Martella:

This letter summarizes the December 17, 2025, collection and analysis of a groundwater sample from monitoring well MW-D within Parcel C at the Former Gorham Manufacturing Site in Providence, Rhode Island (**Figure 1**). The groundwater sampling and review was conducted in accordance with the Remedial Action Work Plan (RAWP) dated March 11, 2015, and the corresponding Rhode Island Department of Environmental Management (RIDEM) July 9, 2015, Order of Approval (Order of Approval).

Background

Extensive groundwater investigations were previously conducted throughout the upland portions of the Former Gorham Manufacturing Site property, including Parcel C, and within the Mashapaug Inner and Outer Coves. The groundwater investigations identified low levels of volatile organic compounds (VOCs) in groundwater immediately upgradient of and along the southern shore of the Inner Cove (Parcels C and C-1).

Based on 2006-2010 groundwater data, tetrachloroethylene (PCE) and trichloroethylene (TCE) were present at low levels in groundwater from the northwestern corner of Parcel C. Groundwater and Inner Cove sediment data collected during the same period (2006-2010) demonstrated that a clear trend of decreasing contaminant concentrations within the groundwater had occurred over time.

RIDEM's Order of Approval required Textron to monitor Parcel C/C-1 groundwater following completion of the remedial action in December 2015, by sampling six wells (MW-235S, MW-236S, MW-237S, MW-D, MW-241, and MW-FS) until data from three consecutive sampling rounds demonstrate that Parcel C groundwater is compliant with RIDEM's GB Groundwater Objectives with no increasing concentrations of VOCs, and that Parcel C-1 groundwater is compliant with the Massachusetts Department of Environmental Protection (MassDEP) GW-3 Standards with no increasing concentrations of VOCs.

The April 2016 sampling event confirmed that both MW-FS and MW-237S met the required criteria of three consecutive decreasing rounds of groundwater concentrations that were below the MassDEP GW-3 Standards.

These two wells were eliminated from the groundwater monitoring program (April 2016 groundwater monitoring report). Three more wells were eliminated from monitoring following the July 2016 sampling round, specifically MW-235S, MW-236S, and MW-241, in accordance with the Order of Approval. Starting in September 2016, only MW-D has been sampled; it has been sampled seventeen times semi-annually in the late winter/early spring and fall of each year.

At the time of the Parcel C Closure Report submittal in May 2017, TCE and 1,1-dichloroethene (1,1-DCE) were the only analytes present above their respective GB Groundwater Objectives in MW-D. Concentration trends for both analytes were generally decreasing during 2017. Other chemicals that have been detected in MW-D since May 2017 are detected at concentrations well below their respective applicable standards and are not discussed further herein.

APTIM continues to sample monitoring well MW-D semi-annually, and reported concentrations of VOCs, specifically 1,1-DCE and TCE, have continued to remain stable or are trending downward. However, concentrations of TCE typically remain above the applicable GB Groundwater Objective and below the MassDEP GW-3 standards. Previously collected results have been presented in a semi-annual letter report to RIDEM since 2015.

December 2025 Activities

On December 17, 2025, APTIM, of Canton, Massachusetts sampled groundwater monitoring well, MW-D (**Figure 2**), using the U.S. Environmental Protection Agency (USEPA) low-flow methodology. The groundwater sample was submitted under chain-of-custody control to Pace Analytical Services in East Longmeadow, MA, for VOC analysis by USEPA Method 8260B. Stabilization parameters for this groundwater sampling event are included in **Appendix A**. Due to equipment issues the day of sampling, stabilization parameters were taken on December 22nd.

Groundwater Sampling Results

Table 1 summarizes the historic VOC concentrations detected in MW-D including the December 2025 groundwater sampling event. VOC concentrations detected in Parcel C (including MW-D) are compared to the GB Groundwater Objectives, as well as the MassDEP GW-3 Standards (per the 2015 Order of Approval). The analytical laboratory report for the December 2025 groundwater sampling event is included in **Appendix B**.

As shown in **Table 1**, results from the December 17, 2025 sampling revealed detections of TCE. The TCE concentration of 0.8 mg/L was above the applicable GB Groundwater Objective, but below the applicable MassDEP GW-3 Standard. The concentration of TCE was consistent with the most recent sampling event and was lower than the previous sampling events in August 2024 and May 2025. The TCE concentrations for those rounds were both 1.5 mg/L. The concentration of 1,1-DCE was below detection limits. This is consistent with previous sampling events, and it has not been detected since the March 2021 event where it was 0.0054 mg/L respectively.

Groundwater Monitoring Approach

Based on the extensive groundwater data collected, VOC concentrations within the northwestern area of Parcel C have been reduced. In 2016 and 2017, only MW-D continued to exhibit exceedances of GB Groundwater Objectives. Concentrations of 1,1-DCE had reduced to below their respective criteria by April 2019, likely as a result of continued biodegradation and natural attenuation in the groundwater. Additionally, 1,1-DCE was not detected in the four most recent sampling rounds in August 2023, February 2024, August 2024, and May 2025. Furthermore, TCE concentrations have also been trending downward since the September 2016 sampling event. Although the TCE concentrations are still above the applicable GB Groundwater Objective, WSP concludes that the results continue to show an overall downward trend in all analytes since 2016.

The Parcel C/C-1 area continues to be utilized by the City of Providence School Department as a recreational field. No buildings are planned in the area of MW-D which is located within the grassy landscaped area. An Environmental Land Use Restrictions (ELUR) and Soil Management Plan (SMP) has been signed by the City of Providence and filed in the Providence Land Evidence Records and is currently enforceable. The ELUR includes the provision preventing the use of the groundwater for potable and non-potable use, and that no subsurface structures can be constructed over the groundwater without prior approval from RIDEM. This provision addresses the potential future vapor intrusion issue associated with the RIDEM GB Groundwater Objective.

Textron proposes to continue monitoring the groundwater quality at MW-D on a semi-annual basis, pending continued compliance with RIDEM's GB Groundwater Objectives. The next scheduled sampling event is Spring 2026. A report will be prepared and submitted to RIDEM in May 2026 to update the status of this one monitoring well and provide an annual recommendation concerning the continuation of the semi-annual monitoring of this well.

Please contact Greg Simpson, Textron, (401-457-2635), Saif Hassan, Textron, (401-457-2231), Mykel Mendes, WSP, (951-312-8756), or Ryan Thibault, WSP, (978-518-0367), if we can provide additional information or answer any questions concerning these groundwater monitoring data and planned future sampling of MW-D.

Sincerely,
WSP USA, Inc.



Ryan Thibault,
Consultant

Sincerely,
WSP USA, Inc.



Mykel Mendes, P.E.
Project Manager

Enclosures: Table 1 – Summary of Parcel C/C-1 Groundwater Results 1989 – 2025
Figure 1 – Site Location Map
Figure 2 – Parcel C/C-1 Site Map
Appendix A – Stabilization Parameters December 2025 Sampling Event
Appendix B – Laboratory Report December 2025 Sampling Event

cc: Robert Azar, Deputy Director - Providence Planning & Development (Electronic)
Saif Hassan, Textron, Inc. (Electronic)
G. Simpson, Textron, Inc. (Electronic)
Knight Memorial Library Repository

Tables

Figures



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Location of Site



SITE LOCATION MAP

Former Gorham
Manufacturing Site

333 Adelaide Avenue
Providence, Rhode Island

Notes & Sources

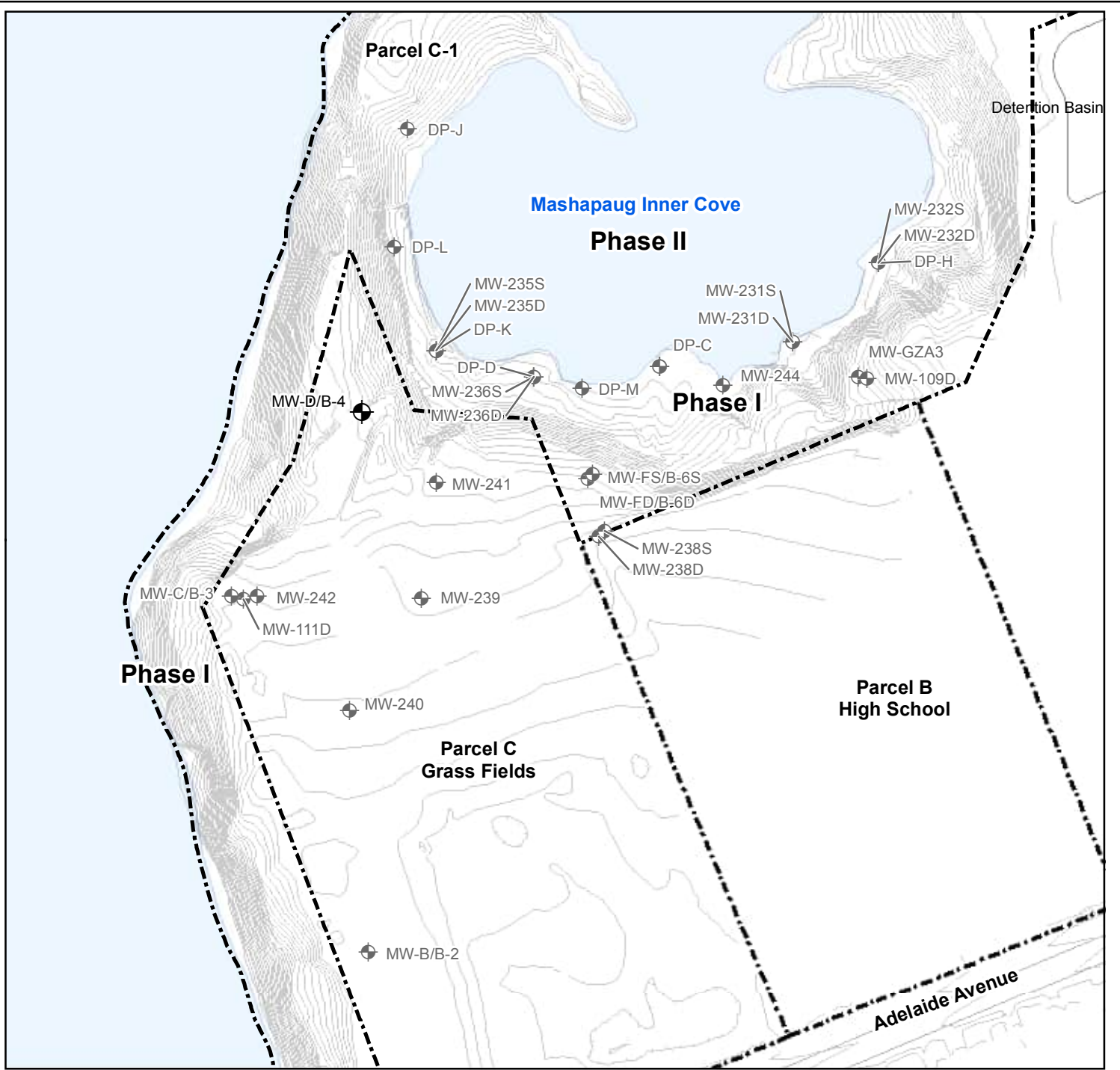
0 1,000 2,000
Feet



WSP USA, Inc.
100 Apollo Road
Chelmsford, MA 01824

FIGURE

1



**PARCEL C:
MW-D**

Former Gorham
Manufacturing Site

333 Adelaide Avenue
Providence, Rhode Island

Legend

- Existing Monitoring Well
- Abandoned Monitoring Well
- Approximate Site Boundary
- Mashapaug Pond
- Elevation Contour

Location of Site



Notes & Sources



WSP USA, Inc.
100 Apollo Road
Chelmsford, MA 01824



FIGURE

2



Appendix A

Stabilization Parameters December 2025 Sampling Event

Appendix A - Stabilization Parameters for MW-D, December 2025 Sampling Event								
Date	Feb-22	Aug-22	Feb-23	Aug-23	Feb-24	Aug-24	May-25	Dec-25
pH	6.94	6.36	7.9	6.21	5.58	5.91	6.53	6.39
Temp (°C)	9.26	13.32	10.78	13.16	11.71	13.2	11.71	12.1
Conductivity (µS/cm)	313	375	302	339	129	542	301	472
DO (mg/L)	3.36	0.93	4.61	1.02	2.77	1.23	1.02	0.58
ORP (mV)	-35.2	115.6	123.1	-153.4	180.9	55.3	63.4	88.1
Turbidity (NTU)	0.5	0.4	0.4	0.6	0.4	0.54	N/A	0.58
Depth to Water (ft)	20.18	21.18	19.97	20.97	19.02	20.88	20.42	20.65**
Depth to Bottom (ft)	22*	33.75	33.85	33.78	33.8	33.79	33.82	33.7**

* Possible obstruction noted at 22 ft.

** Measurements taken on 12/17/25

The field parameters collected in December 2025 were collected on December 22, 2025 due to equipment issues.

N/A - No reading taken

Prepared by: RST 1/23/2026
Checked by: MDM 01/26/2026



Appendix B

Laboratory Report, December 2025 Sampling Event



Pace Analytical Services, LLC - East Longmeadow, Ma

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

January 9, 2026

Catherine Joe Mainville
APTIM - MA
150 Royall Street
Canton, MA 02021

Project Location: 333 Adelaide Ave, Providence, RI
Client Job Number:
Project Number: 631010697
Laboratory Work Order Number: 25L1306

Enclosed are results of analyses for samples as received by the laboratory on December 19, 2025. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

William A. Scott
Project Manager

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Pace Analytical Services, LLC - East Longmeadow, Ma

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

APTIM - MA
150 Royall Street
Canton, MA 02021
ATTN: Catherine Joe Mainville

REPORT DATE: 1/9/2026

PURCHASE ORDER NUMBER: 216859 CO 002

PROJECT NUMBER: 631010697

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 25L1306

The results of analyses performed on the following samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, are found in this report.

PROJECT LOCATION: 333 Adelaide Ave, Providence, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-D-20251217	25L1306-07	Ground Water		SW-846 8260D	

CASE NARRATIVE SUMMARY

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

SW-846 8260D

Qualifications:

L-04

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

Analyte & Samples(s) Qualified:

Methyl Acetate

25L1306-07[MW-D-20251217], B419777-BLK1, B419777-BS1, B419777-BSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

25L1306-07[MW-D-20251217]

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:

2,2-Dichloropropane

25L1306-07[MW-D-20251217], B419777-BLK1, B419777-BS1, B419777-BSD1, S130041-CCV1

Bromochloromethane

25L1306-07[MW-D-20251217], B419777-BLK1, B419777-BS1, B419777-BSD1, S130041-CCV1

Chloromethane

25L1306-07[MW-D-20251217], B419777-BLK1, B419777-BS1, B419777-BSD1, S130041-CCV1

Diisopropyl Ether (DIPE)

25L1306-07[MW-D-20251217], B419777-BLK1, B419777-BS1, B419777-BSD1, S130041-CCV1

Methyl Acetate

25L1306-07[MW-D-20251217], B419777-BLK1, B419777-BS1, B419777-BSD1, S130041-CCV1

tert-Butyl Alcohol (TBA)

25L1306-07[MW-D-20251217], B419777-BLK1, B419777-BS1, B419777-BSD1, S130041-CCV1

Tetrahydrofuran

25L1306-07[MW-D-20251217], B419777-BLK1, B419777-BS1, B419777-BSD1, S130041-CCV1

trans-1,4-Dichloro-2-butene

25L1306-07[MW-D-20251217], B419777-BLK1, B419777-BS1, B419777-BSD1, S130041-CCV1

The results of analyses reported only relate to samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, 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

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

Project Location: 333 Adelaide Ave, Providence, RI

Sample Description:

Work Order: 25L1306

Date Received: 12/19/2025

Field Sample #: MW-D-20251217

Sampled: 12/17/2025 12:30

Sample ID: 25L1306-07

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	250	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Acrylonitrile	ND	25	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.5	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Benzene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Bromobenzene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Bromochloromethane	ND	5.0	µg/L	5	V-05	SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Bromodichloromethane	ND	2.5	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Bromoform	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Bromomethane	ND	10	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
2-Butanone (MEK)	ND	100	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
tert-Butyl Alcohol (TBA)	ND	100	µg/L	5	V-05	SW-846 8260D	12/22/25	12/24/25 4:10	EEH
n-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
sec-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
tert-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	2.5	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Carbon Disulfide	ND	25	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Carbon Tetrachloride	ND	25	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Chlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Chlorodibromomethane	ND	2.5	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Chloroethane	ND	10	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Chloroform	ND	10	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Chloromethane	ND	10	µg/L	5	V-05	SW-846 8260D	12/22/25	12/24/25 4:10	EEH
2-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
4-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	25	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,2-Dibromoethane (EDB)	ND	2.5	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Dibromomethane	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,2-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,3-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,4-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
trans-1,4-Dichloro-2-butene	ND	10	µg/L	5	V-05	SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Dichlorodifluoromethane (Freon 12)	ND	10	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,1-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,2-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,1-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
cis-1,2-Dichloroethylene	65	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
trans-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,3-Dichloropropane	ND	2.5	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
2,2-Dichloropropane	ND	5.0	µg/L	5	V-05	SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,1-Dichloropropene	ND	10	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
cis-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
trans-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Diethyl Ether	ND	10	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH

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

Project Location: 333 Adelaide Ave, Providence, RI

Sample Description:

Work Order: 25L1306

Date Received: 12/19/2025

Field Sample #: MW-D-20251217

Sampled: 12/17/2025 12:30

Sample ID: 25L1306-07

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	2.5	µg/L	5	V-05	SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,4-Dioxane	ND	250	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Ethylbenzene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Hexachlorobutadiene	ND	3.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
2-Hexanone (MBK)	ND	50	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Isopropylbenzene (Cumene)	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
p-Isopropyltoluene (p-Cymene)	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Methyl Acetate	ND	5.0	µg/L	5	L-04, V-05	SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Methyl Cyclohexane	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Methylene Chloride	ND	25	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
4-Methyl-2-pentanone (MIBK)	ND	50	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Naphthalene	ND	10	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
n-Propylbenzene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Styrene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,1,2,2-Tetrachloroethane	ND	2.5	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Tetrachloroethylene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Tetrahydrofuran	ND	50	µg/L	5	V-05	SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Toluene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,2,3-Trichlorobenzene	ND	25	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,2,4-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,3,5-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,1,1-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,1,2-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Trichloroethylene	800	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Trichlorofluoromethane (Freon 11)	ND	10	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,2,3-Trichloropropane	ND	10	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,2,4-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
1,3,5-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Vinyl Chloride	ND	10	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
m+p Xylene	ND	10	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
o-Xylene	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH
Xylenes (total)	ND	5.0	µg/L	5		SW-846 8260D	12/22/25	12/24/25 4:10	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	12/24/25 4:10
Toluene-d8	99.2	70-130	12/24/25 4:10
4-Bromofluorobenzene	97.6	70-130	12/24/25 4:10



Pace Analytical Services, LLC - East Longmeadow, Ma

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25L1306-07 [MW-D-20251217]	B419777	1	5.00	12/22/25

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B419777 - SW-846 5030B

Blank (B419777-BLK1)

Prepared: 12/22/25 Analyzed: 12/23/25

Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							V-05
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							V-05
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							V-05
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							V-05
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							V-05
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							V-05
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B419777 - SW-846 5030B

Blank (B419777-BLK1)

Prepared: 12/22/25 Analyzed: 12/23/25

Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							V-05
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.3		µg/L	25.00		101	70-130			
Surrogate: Toluene-d8	23.6		µg/L	25.00		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	25.2		µg/L	25.00		101	70-130			

LCS (B419777-BS1)

Prepared: 12/22/25 Analyzed: 12/23/25

Acetone	79.4	50	µg/L	100.0		79.4	70-160			†
Acrylonitrile	8.51	5.0	µg/L	10.00		85.1	70-130			
tert-Amyl Methyl Ether (TAME)	8.92	0.50	µg/L	10.00		89.2	70-130			
Benzene	9.64	1.0	µg/L	10.00		96.4	70-130			
Bromobenzene	11.0	1.0	µg/L	10.00		110	70-130			
Bromochloromethane	7.93	1.0	µg/L	10.00		79.3	70-130			V-05
Bromodichloromethane	10.6	0.50	µg/L	10.00		106	70-130			
Bromoform	9.74	1.0	µg/L	10.00		97.4	70-130			
Bromomethane	8.25	2.0	µg/L	10.00		82.5	40-160			†
2-Butanone (MEK)	73.4	20	µg/L	100.0		73.4	40-160			†
tert-Butyl Alcohol (TBA)	68.1	20	µg/L	100.0		68.1	40-160			V-05 †
n-Butylbenzene	11.2	1.0	µg/L	10.00		112	70-130			
sec-Butylbenzene	11.2	1.0	µg/L	10.00		112	70-130			
tert-Butylbenzene	11.1	1.0	µg/L	10.00		111	70-130			
tert-Butyl Ethyl Ether (TBEE)	8.40	0.50	µg/L	10.00		84.0	70-130			
Carbon Disulfide	94.2	5.0	µg/L	100.0		94.2	70-130			
Carbon Tetrachloride	10.4	5.0	µg/L	10.00		104	70-130			
Chlorobenzene	11.3	1.0	µg/L	10.00		113	70-130			
Chlorodibromomethane	10.3	0.50	µg/L	10.00		103	70-130			
Chloroethane	8.71	2.0	µg/L	10.00		87.1	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B419777 - SW-846 5030B										
LCS (B419777-BS1)										
					Prepared: 12/22/25 Analyzed: 12/23/25					
Chloroform	10.3	2.0	µg/L	10.00		103	70-130			
Chloromethane	7.00	2.0	µg/L	10.00		70.0	40-160			V-05 †
2-Chlorotoluene	10.6	1.0	µg/L	10.00		106	70-130			
4-Chlorotoluene	11.0	1.0	µg/L	10.00		110	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.4	5.0	µg/L	10.00		104	70-130			
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.00		108	70-130			
Dibromomethane	10.6	1.0	µg/L	10.00		106	70-130			
1,2-Dichlorobenzene	12.2	1.0	µg/L	10.00		122	70-130			
1,3-Dichlorobenzene	12.1	1.0	µg/L	10.00		121	70-130			
1,4-Dichlorobenzene	11.8	1.0	µg/L	10.00		118	70-130			
trans-1,4-Dichloro-2-butene	7.00	2.0	µg/L	10.00		70.0	70-130			V-05
Dichlorodifluoromethane (Freon 12)	10.3	2.0	µg/L	10.00		103	40-160			†
1,1-Dichloroethane	9.82	1.0	µg/L	10.00		98.2	70-130			
1,2-Dichloroethane	9.22	1.0	µg/L	10.00		92.2	70-130			
1,1-Dichloroethylene	10.2	1.0	µg/L	10.00		102	70-130			
cis-1,2-Dichloroethylene	9.65	1.0	µg/L	10.00		96.5	70-130			
trans-1,2-Dichloroethylene	9.53	1.0	µg/L	10.00		95.3	70-130			
1,2-Dichloropropane	8.78	1.0	µg/L	10.00		87.8	70-130			
1,3-Dichloropropane	11.3	0.50	µg/L	10.00		113	70-130			
2,2-Dichloropropane	8.75	1.0	µg/L	10.00		87.5	40-130			V-05 †
1,1-Dichloropropene	10.3	2.0	µg/L	10.00		103	70-130			
cis-1,3-Dichloropropene	9.93	0.50	µg/L	10.00		99.3	70-130			
trans-1,3-Dichloropropene	9.03	0.50	µg/L	10.00		90.3	70-130			
Diethyl Ether	8.89	2.0	µg/L	10.00		88.9	70-130			
Diisopropyl Ether (DIPE)	7.85	0.50	µg/L	10.00		78.5	70-130			V-05
1,4-Dioxane	106	50	µg/L	100.0		106	40-130			†
Ethylbenzene	10.7	1.0	µg/L	10.00		107	70-130			
Hexachlorobutadiene	10.6	0.60	µg/L	10.00		106	70-130			
2-Hexanone (MBK)	83.4	10	µg/L	100.0		83.4	70-160			†
Isopropylbenzene (Cumene)	11.2	1.0	µg/L	10.00		112	70-130			
p-Isopropyltoluene (p-Cymene)	10.8	1.0	µg/L	10.00		108	70-130			
Methyl Acetate	6.00	1.0	µg/L	10.00		60.0 *	70-130			L-04, V-05
Methyl tert-Butyl Ether (MTBE)	9.27	1.0	µg/L	10.00		92.7	70-130			
Methyl Cyclohexane	9.35	1.0	µg/L	10.00		93.5	70-130			
Methylene Chloride	8.18	5.0	µg/L	10.00		81.8	70-130			
4-Methyl-2-pentanone (MIBK)	86.6	10	µg/L	100.0		86.6	70-160			†
Naphthalene	8.92	2.0	µg/L	10.00		89.2	40-130			†
n-Propylbenzene	10.7	1.0	µg/L	10.00		107	70-130			
Styrene	10.8	1.0	µg/L	10.00		108	70-130			
1,1,1,2-Tetrachloroethane	10.6	1.0	µg/L	10.00		106	70-130			
1,1,2,2-Tetrachloroethane	9.84	0.50	µg/L	10.00		98.4	70-130			
Tetrachloroethylene	11.0	1.0	µg/L	10.00		110	70-130			
Tetrahydrofuran	7.60	10	µg/L	10.00		76.0	70-130			V-05
Toluene	10.5	1.0	µg/L	10.00		105	70-130			
1,2,3-Trichlorobenzene	9.02	5.0	µg/L	10.00		90.2	70-130			
1,2,4-Trichlorobenzene	9.91	1.0	µg/L	10.00		99.1	70-130			
1,3,5-Trichlorobenzene	11.3	1.0	µg/L	10.00		113	70-130			
1,1,1-Trichloroethane	10.6	1.0	µg/L	10.00		106	70-130			
1,1,2-Trichloroethane	9.92	1.0	µg/L	10.00		99.2	70-130			
Trichloroethylene	11.2	1.0	µg/L	10.00		112	70-130			
Trichlorofluoromethane (Freon 11)	12.5	2.0	µg/L	10.00		125	70-130			
1,2,3-Trichloropropane	11.5	2.0	µg/L	10.00		115	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B419777 - SW-846 5030B										
LCS (B419777-BS1)										
					Prepared: 12/22/25 Analyzed: 12/23/25					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	1.0	µg/L	10.00		100	70-130			
1,2,4-Trimethylbenzene	11.3	1.0	µg/L	10.00		113	70-130			
1,3,5-Trimethylbenzene	11.1	1.0	µg/L	10.00		111	70-130			
Vinyl Chloride	8.93	2.0	µg/L	10.00		89.3	40-160			†
m+p Xylene	22.8	2.0	µg/L	20.00		114	70-130			
o-Xylene	11.5	1.0	µg/L	10.00		115	70-130			
Xylenes (total)	34.4	1.0	µg/L	30.00		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.8		µg/L	25.00		99.1	70-130			
Surrogate: Toluene-d8	23.9		µg/L	25.00		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	24.4		µg/L	25.00		97.6	70-130			
LCS Dup (B419777-BSD1)										
					Prepared: 12/22/25 Analyzed: 12/23/25					
Acetone	81.3	50	µg/L	100.0		81.3	70-160	2.31	25	†
Acrylonitrile	8.23	5.0	µg/L	10.00		82.3	70-130	3.35	25	
tert-Amyl Methyl Ether (TAME)	8.94	0.50	µg/L	10.00		89.4	70-130	0.224	25	
Benzene	9.26	1.0	µg/L	10.00		92.6	70-130	4.02	25	
Bromobenzene	11.0	1.0	µg/L	10.00		110	70-130	0.0908	25	
Bromochloromethane	7.97	1.0	µg/L	10.00		79.7	70-130	0.503	25	V-05
Bromodichloromethane	10.5	0.50	µg/L	10.00		105	70-130	0.662	25	
Bromoform	9.66	1.0	µg/L	10.00		96.6	70-130	0.825	25	
Bromomethane	8.43	2.0	µg/L	10.00		84.3	40-160	2.16	25	†
2-Butanone (MEK)	75.9	20	µg/L	100.0		75.9	40-160	3.28	25	†
tert-Butyl Alcohol (TBA)	69.9	20	µg/L	100.0		69.9	40-160	2.64	25	V-05 †
n-Butylbenzene	10.5	1.0	µg/L	10.00		105	70-130	6.65	25	
sec-Butylbenzene	10.5	1.0	µg/L	10.00		105	70-130	6.44	25	
tert-Butylbenzene	10.4	1.0	µg/L	10.00		104	70-130	6.78	25	
tert-Butyl Ethyl Ether (TBEE)	8.08	0.50	µg/L	10.00		80.8	70-130	3.88	25	
Carbon Disulfide	87.5	5.0	µg/L	100.0		87.5	70-130	7.42	25	
Carbon Tetrachloride	10.0	5.0	µg/L	10.00		100	70-130	3.83	25	
Chlorobenzene	11.1	1.0	µg/L	10.00		111	70-130	1.97	25	
Chlorodibromomethane	10.0	0.50	µg/L	10.00		100	70-130	3.05	25	
Chloroethane	8.27	2.0	µg/L	10.00		82.7	70-130	5.18	25	
Chloroform	9.74	2.0	µg/L	10.00		97.4	70-130	5.59	25	
Chloromethane	6.68	2.0	µg/L	10.00		66.8	40-160	4.68	25	V-05 †
2-Chlorotoluene	10.4	1.0	µg/L	10.00		104	70-130	2.19	25	
4-Chlorotoluene	10.7	1.0	µg/L	10.00		107	70-130	2.49	25	
1,2-Dibromo-3-chloropropane (DBCP)	10.9	5.0	µg/L	10.00		109	70-130	4.04	25	
1,2-Dibromoethane (EDB)	10.6	0.50	µg/L	10.00		106	70-130	1.87	25	
Dibromomethane	10.5	1.0	µg/L	10.00		105	70-130	0.570	25	
1,2-Dichlorobenzene	11.5	1.0	µg/L	10.00		115	70-130	5.66	25	
1,3-Dichlorobenzene	11.1	1.0	µg/L	10.00		111	70-130	8.61	25	
1,4-Dichlorobenzene	11.0	1.0	µg/L	10.00		110	70-130	6.96	25	
trans-1,4-Dichloro-2-butene	7.08	2.0	µg/L	10.00		70.8	70-130	1.14	25	V-05
Dichlorodifluoromethane (Freon 12)	9.86	2.0	µg/L	10.00		98.6	40-160	4.27	25	†
1,1-Dichloroethane	9.24	1.0	µg/L	10.00		92.4	70-130	6.09	25	
1,2-Dichloroethane	9.29	1.0	µg/L	10.00		92.9	70-130	0.756	25	
1,1-Dichloroethylene	9.60	1.0	µg/L	10.00		96.0	70-130	6.35	25	
cis-1,2-Dichloroethylene	9.62	1.0	µg/L	10.00		96.2	70-130	0.311	25	
trans-1,2-Dichloroethylene	9.39	1.0	µg/L	10.00		93.9	70-130	1.48	25	
1,2-Dichloropropane	8.92	1.0	µg/L	10.00		89.2	70-130	1.58	25	
1,3-Dichloropropane	10.6	0.50	µg/L	10.00		106	70-130	5.76	25	
2,2-Dichloropropane	8.36	1.0	µg/L	10.00		83.6	40-130	4.56	25	V-05 †

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B419777 - SW-846 5030B										
LCS Dup (B419777-BSD1)										
					Prepared: 12/22/25 Analyzed: 12/23/25					
1,1-Dichloropropene	10.0	2.0	µg/L	10.00		100	70-130	2.85	25	
cis-1,3-Dichloropropene	9.57	0.50	µg/L	10.00		95.7	70-130	3.69	25	
trans-1,3-Dichloropropene	8.45	0.50	µg/L	10.00		84.5	70-130	6.64	25	
Diethyl Ether	8.84	2.0	µg/L	10.00		88.4	70-130	0.564	25	
Diisopropyl Ether (DIPE)	7.62	0.50	µg/L	10.00		76.2	70-130	2.97	25	V-05
1,4-Dioxane	107	50	µg/L	100.0		107	40-130	0.910	50	† ‡
Ethylbenzene	10.5	1.0	µg/L	10.00		105	70-130	2.36	25	
Hexachlorobutadiene	9.80	0.60	µg/L	10.00		98.0	70-130	7.65	25	
2-Hexanone (MBK)	85.7	10	µg/L	100.0		85.7	70-160	2.81	25	†
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.00		108	70-130	3.55	25	
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.00		102	70-130	5.14	25	
Methyl Acetate	5.90	1.0	µg/L	10.00		59.0 *	70-130	1.68	25	L-04, V-05
Methyl tert-Butyl Ether (MTBE)	9.04	1.0	µg/L	10.00		90.4	70-130	2.51	25	
Methyl Cyclohexane	8.66	1.0	µg/L	10.00		86.6	70-130	7.66	25	
Methylene Chloride	8.19	5.0	µg/L	10.00		81.9	70-130	0.122	25	
4-Methyl-2-pentanone (MIBK)	89.4	10	µg/L	100.0		89.4	70-160	3.18	25	†
Naphthalene	8.57	2.0	µg/L	10.00		85.7	40-130	4.00	25	†
n-Propylbenzene	10.6	1.0	µg/L	10.00		106	70-130	0.847	25	
Styrene	10.3	1.0	µg/L	10.00		103	70-130	4.85	25	
1,1,1,2-Tetrachloroethane	10.7	1.0	µg/L	10.00		107	70-130	0.842	25	
1,1,2,2-Tetrachloroethane	9.56	0.50	µg/L	10.00		95.6	70-130	2.89	25	
Tetrachloroethylene	10.4	1.0	µg/L	10.00		104	70-130	6.54	25	
Tetrahydrofuran	7.74	10	µg/L	10.00		77.4	70-130	1.83	25	V-05
Toluene	9.94	1.0	µg/L	10.00		99.4	70-130	5.48	25	
1,2,3-Trichlorobenzene	8.61	5.0	µg/L	10.00		86.1	70-130	4.65	25	
1,2,4-Trichlorobenzene	9.66	1.0	µg/L	10.00		96.6	70-130	2.55	25	
1,3,5-Trichlorobenzene	10.9	1.0	µg/L	10.00		109	70-130	3.97	25	
1,1,1-Trichloroethane	10.1	1.0	µg/L	10.00		101	70-130	4.53	25	
1,1,2-Trichloroethane	10.0	1.0	µg/L	10.00		100	70-130	1.20	25	
Trichloroethylene	11.0	1.0	µg/L	10.00		110	70-130	0.991	25	
Trichlorofluoromethane (Freon 11)	12.0	2.0	µg/L	10.00		120	70-130	4.58	25	
1,2,3-Trichloropropane	11.5	2.0	µg/L	10.00		115	70-130	0.0871	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.39	1.0	µg/L	10.00		93.9	70-130	6.79	25	
1,2,4-Trimethylbenzene	11.3	1.0	µg/L	10.00		113	70-130	0.266	25	
1,3,5-Trimethylbenzene	10.7	1.0	µg/L	10.00		107	70-130	3.12	25	
Vinyl Chloride	8.49	2.0	µg/L	10.00		84.9	40-160	5.05	25	†
m+p Xylene	21.8	2.0	µg/L	20.00		109	70-130	4.70	25	
o-Xylene	11.0	1.0	µg/L	10.00		110	70-130	4.53	25	
Xylenes (total)	32.8	1.0	µg/L	30.00		109	70-130	4.65	25	
Surrogate: 1,2-Dichloroethane-d4	25.2		µg/L	25.00		101	70-130			
Surrogate: Toluene-d8	24.0		µg/L	25.00		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	25.4		µg/L	25.00		102	70-130			

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 is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
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.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260D in Water</i>	
Acetone	CT,ME,NH,VA,NY,NC,NJ
Acrylonitrile	CT,ME,NH,VA,NY,NC,NJ
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY,NC,NJ
Benzene	CT,ME,NH,VA,NY,NC,NJ
Bromobenzene	ME,NY,NC,NJ
Bromochloromethane	ME,NH,VA,NY,NC,NJ
Bromodichloromethane	CT,ME,NH,VA,NY,NC,NJ
Bromoform	CT,ME,NH,VA,NY,NC,NJ
Bromomethane	CT,ME,NH,VA,NY,NC,NJ
2-Butanone (MEK)	CT,ME,NH,VA,NY,NC,NJ
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY,NC,NJ
n-Butylbenzene	ME,VA,NY,NC,NJ
sec-Butylbenzene	ME,VA,NY,NC,NJ
tert-Butylbenzene	ME,VA,NY,NC,NJ
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY,NC,NJ
Carbon Disulfide	CT,ME,NH,VA,NY,NC,NJ
Carbon Tetrachloride	CT,ME,NH,VA,NY,NC,NJ
Chlorobenzene	CT,ME,NH,VA,NY,NC,NJ
Chlorodibromomethane	CT,ME,NH,VA,NY,NC,NJ
Chloroethane	CT,ME,NH,VA,NY,NC,NJ
Chloroform	CT,ME,NH,VA,NY,NC,NJ
Chloromethane	CT,ME,NH,VA,NY,NC,NJ
2-Chlorotoluene	ME,NH,VA,NY,NC,NJ
4-Chlorotoluene	ME,NH,VA,NY,NC,NJ
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY,NC,NJ
1,2-Dibromoethane (EDB)	ME,NY,NC,NJ
Dibromomethane	ME,NH,VA,NY,NC,NJ
1,2-Dichlorobenzene	CT,ME,NH,VA,NY,NC,NJ
1,3-Dichlorobenzene	CT,ME,NH,VA,NY,NC,NJ
1,4-Dichlorobenzene	CT,ME,NH,VA,NY,NC,NJ
trans-1,4-Dichloro-2-butene	ME,NH,VA,NY,NC,NJ
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY,NC,NJ
1,1-Dichloroethane	CT,ME,NH,VA,NY,NC,NJ
1,2-Dichloroethane	CT,ME,NH,VA,NY,NC,NJ
1,1-Dichloroethylene	CT,ME,NH,VA,NY,NC,NJ
cis-1,2-Dichloroethylene	ME,NY,NC,NJ
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY,NC,NJ
1,2-Dichloropropane	CT,ME,NH,VA,NY,NC,NJ
1,3-Dichloropropane	ME,VA,NY,NC,NJ
2,2-Dichloropropane	ME,NH,VA,NY,NC,NJ
1,1-Dichloropropene	ME,NH,VA,NY,NC,NJ
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY,NC,NJ
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY,NC,NJ
Diethyl Ether	ME,NY,NC,NJ
Diisopropyl Ether (DIPE)	ME,NH,VA,NY,NC,NJ
1,4-Dioxane	ME,NH,NY,NC,NJ
Ethylbenzene	CT,ME,NH,VA,NY,NC,NJ

CERTIFICATIONS

Certified Analyses included in this Report

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

Pace Analytical Services, LLC - East Longmeadow, Ma, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2026
NY	New York State Department of Health	10899 NELAP	04/1/2026
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2026
NC	North Carolina Div. of Water Quality	652	12/31/2026
NJ	New Jersey DEP	MA007 NELAP	06/30/2026
ME	State of Maine	MA00100	06/9/2027
VA	Commonwealth of Virginia	460217	09/30/2026

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http://www.pacelabs.com

39 Spruce Street
East Longmeadow, MA 01028

Phone: 413-525-2332
Fax: 413-525-6405
Access, COC, and Support Requests

CHAIN OF CUSTODY RECORD

ANALYSIS REQUESTED

Company Name: Pace Analytical Address: 150 Bayard St, Canton MA 01921 Phone: 413-525-2332 Project Name: Tootton Providence Project Location: 333A Adelaide Ave, Providence RI Project Number: 031010617 Project Manager: Cathy. Jee@pacelabs.com Pace Quote Name/Number: Invoice Recipient: Sampled By:		Requested Turnaround Time 7-Day <input type="checkbox"/> 10-Day <input checked="" type="checkbox"/> PFAS 10-Day (std) <input type="checkbox"/> Due Date: Rush/Approval Required 1-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> 4-Day <input type="checkbox"/> Data Delivery Format: PDF <input type="checkbox"/> EXCEL <input type="checkbox"/> Other: SOXHLET CLIP Like Data Pkg Required: <input type="checkbox"/> Email To: NON SOXHLET Fax To #:		Dissolved Metals Samples Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/> Orthophosphate Samples Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/> PCB ONLY SOXHLET <input type="checkbox"/> NON SOXHLET <input type="checkbox"/>	
Pace Work Order # MWD-20251217	Client Sample ID / Description MWD-20251217	Beginning Date 12-17	Ending Date/Time 12-30	Matrix Code GRAB GW	Conc Code 3
Relinquished by: (signature) Date/Time: 12/19/2025 Received by: (signature) Date/Time: 12/19/2025 Relinquished by: (signature) Date/Time: 12/19/2025 Received by: (signature) Date/Time: 12/19/2025 Relinquished by: (signature) Date/Time: 12/19/2025 Received by: (signature) Date/Time: 12/19/2025					
Client Comments: Client Comments:					
Special Requirements MA MCP Required <input type="checkbox"/> MCP Certification Form Required <input type="checkbox"/> CT RCP Required <input type="checkbox"/> RCP Certification Form Required <input type="checkbox"/> MA State DW Required <input type="checkbox"/> PWSID #					
Detection Limit Requirements MA: <input type="checkbox"/> CT: <input type="checkbox"/> Other:					
Project Entity Government <input type="checkbox"/> Municipality <input type="checkbox"/> Federal <input type="checkbox"/> 21 J <input type="checkbox"/> City <input type="checkbox"/> Brownfield <input type="checkbox"/>					
Other WRTA <input type="checkbox"/> MWPA <input type="checkbox"/> School <input type="checkbox"/> MBTA <input type="checkbox"/> Chromatogram <input type="checkbox"/> AIHA-LAP, LLC <input type="checkbox"/>					

1 Preservation Code
 Courier Use Only
 Total Number Of:
 VIALS _____
 GLASS _____
 PLASTIC _____
 BACTERIA _____
 ENCORE _____

Glassware in the fridge?
 Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Pace Analytical is not responsible for missing samples from prepacked coolers

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 Thiocyanate
 O = Other (please define)

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

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

ENV-FRM-ELON-0001 v09_Sample Receiving Checklist

Log In Back-Sheet

Client APT/M
 Project Textron Providence
 MCP/RCP Required _____
 Deliverable Package Requirement _____
 Location 333 Adelaide Ave. Providence, RI.
 PWSID# (When Applicable) _____
 Arrival Method:
 Courier Fed Ex Walk In Other
 Received By / Date / Time ASP 12/19/25 1703
 Back-Sheet By / Date / Time SMW 12/19/25 1926
 Temperature Method GUN # 9
 WV samples: Yes (see note*) No (follow normal procedure)
 Temp < 6° C Actual Temperature -0.9
 Rush Samples: Yes No Notify _____
 Short Hold: Yes No Notify _____

Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy)
 Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Received in Cooler	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Custody Seal: DATE TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Relinquished	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC/Samples Labels Agree	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Samples in Good Condition	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples Received within Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is there enough Volume	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper Media/Container Used	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Splitting Samples Required	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MS/MSD	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trip Blanks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Lab to Filters	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Legible	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC Included: (Check all included)		
Client <input checked="" type="checkbox"/>	Analysis <input checked="" type="checkbox"/>	Sampler Name <input checked="" type="checkbox"/>
Project <input checked="" type="checkbox"/>	IDs <input checked="" type="checkbox"/>	Collection Date/Time <input checked="" type="checkbox"/>
All Samples Proper pH: <u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>
Samples Chlorinated: <u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>

Notes regarding Samples/COC outside of SOP:

VIALS RECEIVED FROZEN + BROKEN:

- SAMPLE 4 (10P3)

- SAMPLE 7 (10F3)

Additional Container Notes

**Note: West Virginia requires all samples to have their temperature taken. Note any outliers.*

