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MONTHLY REPORT OF THE OPERATIONS & MAINTENANCE ACTIVITIES (MARCH 2025)

**CLAREMONT POLYCHEMICAL
OPERABLE UNIT 5 GROUND
WATER TREATMENT
SYSTEM, OLD BETHPAGE, NY**

**MONTHLY REPORT OF THE OPERATIONS & MAINTENANCE
ACTIVITIES (MARCH 2025)
CLAREMONT POLYCHEMICAL OPERABLE UNIT 5 GROUND
WATER TREATMENT SYSTEM, OLD BETHPAGE, NY**

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CONTENTS

1.	Operation and Maintenance Activities	4
1.1	Daily Operations Summary Reports	4
1.2	Summary of Maintenance Activities	4
1.3	Maintenance Logs	5
2.	Technical Support Activities	5
2.1	GES/Ramboll Personnel	5
2.2	NYSDEC Personnel, Sub-contractors, and Other Visitors	5
2.3	Deliveries	5
3.	Health and Safety	5
4.	Planned Activities and Schedules	6
5.	Monitoring Well Water Elevations	6
6.	Treatment System Flows	6
7.	Chemical Consumption	7
8.	Waste Disposals	7
9.	Monthly Discharge Monitoring Report	7
10.	Pending Issues and Considerations	7
11.	Plant Documents	8
12.	Monitoring Results	8
12.1	Off-site Analytical Data Results	8
12.2	Field Data	9
12.2.1	Plant Discharge pH and Temperature	9
12.2.2	Air Stripper (AS) Tower Air Monitoring	9
13.	Process Analysis and System Status	9
13.1	Extraction (RW) Processes	9
13.2	AS Process	10
13.3	PD Process	10
13.4	Other	10
14.	Grounds	11
14.1	Plant Perimeter	11
14.2	Well Field	11
14.3	Other	11

LIST OF FIGURES

1. Plant Discharge Daily Flow

LIST OF TABLES

1. Claremont Corrective Actions Summary
2. Plant Discharge Average Flow & Volume
3. Plant Daily Totalizer Readings
4. Pump System Flow Readings
5. Claremont OU5 O&M Sampling/Measurement
6. Plant Discharge Analytical Results – March 4, 2025
7. Emerging Contaminant Analytical Results – March 4 and 10, 2025
8. Effluent pH and Temperature Readings
9. Plant Discharge Monthly Average pH
10. AS Tower Air Monitoring Readings

LIST OF ATTACHMENTS

1. Monthly O&M Sampling Analytical Results – March 4 and 10, 2025

LIST OF ACRONYMS AND ABBREVIATIONS

AS	Air Stripper
A/V	Air and Vacuum
ASF	Air Stripper feed
BNA	Base Neutral & Acid Extractables
CPC	Claremont Polychemical
CSE	Confined Space Entry
DOSR	Daily Operations Summary Report
EE	Electrical Engineer
GAC	Granular Activated Carbon
GES	Groundwater & Environmental Services, Inc.
GPM	Gallons Per Minute
GWTS	Groundwater extraction, treatment, and reinjection system
HDR	Henningson, Durham & Richardson Architecture and Engineering, P.C.
HMI	Human Machine Interface
HVAC	Heating, Ventilation, and Air Conditioning
MTBA	Tert-Butyl-Methyl ether
MW	Monitoring Well
NYSDEC	New York State Department of Environmental Conservation
O&M	Operation and Maintenance
OU4	Operable Unit 4
OU5	Operable Unit 5
PD	Plant Discharge
PDB	Passive Diffusion Bag
PFAS	Per- and polyfluoroalkyl substances
PFOS	Perfluorooctanesulfonic acid
PFOA	Perfluorooctanoic acid
PID	Photoionization Detector
PFF	Pressure Filter Feed
PLC	Programmable Logic Controller
ppm	parts per million
PW	Process Water
Ramboll	Ramboll Americas Engineering Solutions, Inc.
RW	Recovery Well, Process Well
SPEDES	State Pollutant Discharge Elimination System
SSHP	Site Safety and Health Plan
SU	Standard pH Units
SVOCs	Semi-Volatile Organic Compounds
TBA	Tert-butyl alcohol
TDS	Total Dissolved Solids
TKN	Total Kjeldahl Nitrogen
TOC	Total Organic Carbon
TOGS	Technical and Operational Guidance Series
TSS	Total Suspended Solids
USEPA	United States Environmental Protection Agency
US Water	US Water Services Corporation
VOCs	Volatile Organic Compounds,

1. OPERATION AND MAINTENANCE ACTIVITIES

On behalf of Ramboll Americas Engineering Solutions, Inc. (Ramboll), Groundwater & Environmental Services, Inc. (GES) continued the daily operation and maintenance (O&M) of the Claremont Polychemical (CPC) Superfund Site Groundwater Treatment System (GWTS) Operable Unit 5 (OU5) during the month of March 2025. In addition, former Operable Unit (OU4) was inspected once per month to ensure security and building code compliance. For this report every time plant is mentioned it refers to OU5. OU4 will be referred to as such whenever discussed. This report covers the O&M activities for the system during the period defined as beginning at approximately 0800 hours, February 28, 2025, through approximately 0800 hours, April 1, 2025. O&M conducted during this reporting period was guided by the site O&M Manual.

The GWTS – treatment plant, grounds, and well systems - were maintained for the 32 days in this reporting period during which the treatment system had no downtime in operational status. Readings of the key plant process parameters are normally recorded each workday. These readings and the Human Machine Interface (HMI) flow trend lines are used to monitor the system's performance and condition. Selected readings are recorded in the daily database which is an electronic file maintained in the monthly operating documents folder. If the plant is not occupied, the system is monitored remotely.

The treatment process control and alarm systems are functional. The recovery well pumps, process pumps, and air stripper blower are operated in the automatic mode and are normally remotely controlled and monitored. The RW-3 through RW-5 recovery wells were functional and fully operational during the month of March.

1.1 Daily Operations Summary Reports

The GWTS's daily operations and maintenance activities, project tasks, and observations during this period are briefly described in the Daily Operations Summary Report (DOSR). The DOSR is based in part on the treatment system's daily operating worksheets and logs which include:

- Daily Operating Log – flow readings and calculations (Form-01)
- Daily Site and Safety Inspection – plant condition checklist (Form-02)
- Daily Plant Activity Notes – plant manager's daily summary (Form-03)
- Sign-In Sheet – GES/Ramboll employee on-site hours (Form-15)
- Daily Process Data Sheet – point process readings (Form-30)
- Logbook CPC 5-8– plant operator's daily logbook
- Daily Database – daily process readings (March 25 Database.xlsx)
- NYSDEC Log-in Sheet – Entry/Exit Log with COVID-19 Acknowledgement

1.2 Summary of Maintenance Activities

The operation and maintenance of the treatment system, facility, and associated equipment is performed in accordance with the site O&M Manual. These tasks and inspections incorporate the equipment manufacturers' recommendations, operations experience, and good engineering and maintenance practices. A detailed accounting of the March activities is further provided in the plant operator's daily logbook.

Maintenance and project activities undertaken during the March period included:

- Routine and general maintenance tasks were conducted at the plant, on the grounds, and in the well fields.
- Single Air Stripper Feed (ASF) pumps were placed into hand mode and frequently switched to cycle their activity.
- The monthly process equipment tests were conducted.
- The Operable Unit 4 (OU4) comprehensive inspections were completed.
- The monthly Process/Recovery Well (RW) system inspection was completed.
- Basin 33 was inspected.
- Basin 1 was inspected.
- The ASF pumps were lubricated, and the seals tightened.
- The OU5 comprehensive inspections were completed.
- The PFF pumps were lubricated, and the seals tightened.
- The fire alarm system components were inspected.
- The monthly electrical device survey was completed.
- The SUNY wellfield was inspected.

1.3 Maintenance Logs

The following operating logbooks are currently in use and maintained at OU5:

- CL-18 OU-4 Log (at OU4)
- CL-43 General Field Support Log (truck)
- CL-47 Misc. Projects Field Notebook (Brian Dunn)
- CPC 5-4 Project Support Logbook (site)
- CPC 5-8 Site Supervisor's Daily Logbook (Brian Dunn)

2. TECHNICAL SUPPORT ACTIVITIES

2.1 GES/Ramboll Personnel

- GES maintained the system throughout the period.

2.2 NYSDEC Personnel, Sub - contractors, and Other Visitors

- No visitors during the reporting period.

2.3 Deliveries

- On February 27, 2025, Pace courier delivered coolers and supplies for the monthly OU-5 system sampling.

3. HEALTH AND SAFETY

Work at the Claremont GWTS OU5 was conducted in accordance with the approved and Ramboll adopted Site Safety and Health Plan (SSHP). Safety related activities during this period included:

- The water remained off at OU4. Both potable and non-potable lines were drained. (No sanitary water).

- Daily site safety inspections were completed as part of the routine O&M activities.

4. PLANNED ACTIVITIES AND SCHEDULES

The evaluation of the plant operating system and equipment is ongoing by GES/Ramboll. A list in the form of corrective actions or maintenance tasks has been generated as a monthly system status report. These reports are updated as needed and reviewed at least monthly. Both are electronically filed. The corrective action list is included at the end of this report as **Table 1** – Claremont Corrective Action Summary.

Upcoming tasks include:

- Close and exercise all globe valves at the non-operational recovery wells.
- Plan for replacement of non-functional plant process room lighting (with LED lighting).
- Plan for replacement of non-functional emergency heaters in the process room.
- Evaluate HVAC system upgrades for adequate heat production.
- Plan to evaluate replacement of electric motor controls at all recovery pumps.
- Plan to evaluate the fire control system due to system issues.

5. MONITORING WELL WATER ELEVATIONS

The monitoring well system's groundwater elevation data table was updated after the February 2025 quarterly GW elevation recording task. This database is available for review. The next set of synoptic water level measurements will be scheduled for June 2025 and will be conducted by Ramboll.

6. TREATMENT SYSTEM FLOWS

During the March period, the plant continued to operate in the auto control mode. The volume of treated water discharged by the treatment system to the selected recharge basin was calculated from the plant influent and effluent flow meter readings. These readings are taken at the HMI and recorded in the daily database.

During the month of March 2025, recovery wells RW-3 through RW-5 operated normally.

Both RW-1 and RW-2 recovery pumps are currently inoperable as both motor control starters from these pumps were installed at RW-5, RW-3, respectively, as a temporary repair measure.

During the month of March, the plant discharge was directed solely to Recharge Basin 1.

The total volume of treated water discharged from ~0800 hours February 28, 2025 to ~0800 hours April 1, 2025 was approximately 33,044,000 gallons. The data in **Table 2** is a summary of plant discharge flows.

A graphic representation of the system's daily plant discharge output is provided in **Figure 1** and the daily plant totalizer readings for March 2025 are provided in **Table 3**, both following the text of this report.

Under current conditions, the PLC and the control system are functioning as designed. Flows from the individual recovery wells are remotely read, transmitted, and totalized.

The flow summary for the individual components of the system can be found in **Table 4** at the end of this report.

7. CHEMICAL CONSUMPTION

The hydrochloric acid feed system is currently off-line, and the system is void of acid. There are four drums of virgin acid on site. No acid was used for water treatment purposes in March of 2025.

The sodium hydroxide storage system is currently not in use and the system is empty of caustic. There is no bulk sodium hydroxide on site and no caustic was used in March of 2025.

The sodium hypochlorite storage system is currently not in use and the system is empty of bleach. No bulk sodium hypochlorite is stored on site. No sodium hypochlorite was used in March of 2025.

8. WASTE DISPOSALS

Routine accumulation of waste materials continued from plant day to day operations. Waste removal is being handled by National Waste Services, LLC. The waste container was last emptied in February 2025.

9. MONTHLY DISCHARGE MONITORING REPORT

The GWTS is operated under an equivalency permit from the NYSDEC. **Table 5** presents the Claremont OU5 O&M Sampling and Measurement requirements and their frequency. The analytical results for the plant discharge sampling conducted on March 4 and 10, 2025 indicate that the analyzed parameters were compliant with permit limits (**Table 6**). Monthly system sampling analytical results are provided in **Attachment 1**.

The OU5 GWTS plant's water discharge permit is in the process of being renewed by the NYSDEC.

10. PENDING ISSUES AND CONSIDERATIONS

Ramboll is currently planning demolition of the OU4 building; which is scheduled for 2025.

The discrepancies/inaccuracies in the plant flow meter readings at OU5 may be due to the inappropriate configuration of the local piping. Future calibration or adjustment of pulse reading may be required.

The OU4 plant is offline and its disposition including that of the injection well system and vapor carbon beds is pending.

The status of key aspects of OU4 are as follows:

- The plant heat is currently off, and the system is out of service.
- The fire alarm panels are off-line.
- The fire sprinkler system is currently off-line. The water has been drained from the system. Although BK Fire Suppression Systems LLC installed a central monitoring and an alarm system on the sprinkler system at OU4 in the past, the system is not operational.
- The facility is secure, and its physical monitoring continues.
- The facility and grounds are not maintained except for the facility entrance and plant egress points.
- NYSDEC plans on decommissioning and demolishing OU4. A team from Ramboll has selected a contractor for this work which is scheduled for 2025.

11. PLANT DOCUMENTS

Procedures and standard forms are written, reviewed, and revised as needed. As-built drawings are generated and updated as necessary.

12. MONITORING RESULTS

The CPC GWTS is monitored through the analysis of off-site laboratory analytical data and on-site field data.

12.1 Off-site Analytical Data Results

Monthly Plant Discharge (PD) samples are taken for organic analysis in compliance with the NYSDEC discharge permit. Quarterly groundwater samples are taken for organic analysis, and quarterly process water (PW) samples are taken for organic, inorganic, and generic analysis. At the direction of the NYSDEC in an August 17, 2022 email, analysis of Per- and polyfluoroalkyl substances (PFAS) and 1,4-dioxane were added to monthly sampling for both influent and effluent for the foreseeable future. The March 2025 PFAS and 1,4-dioxane influent and effluent results can be found in **Table 7** following the text of this report. Monthly and quarterly system sampling analytical results are provided in **Attachment 1**.

The March sampling activities included:

- The March PD data was processed and submitted.
- Monthly and quarterly system sampling was completed on March 4 and 10, 2025.

12.2 Field Data

12.2.1 Plant Discharge pH and Temperature

The treatment plant effluent is monitored for pH and temperature on a weekly basis to obtain a monthly average in compliance with the NYSDEC discharge permit requirements. These measurements are taken from the plant effluent at a controlled point with a calibrated portable meter. The plant discharge readings for March 2025 can be found in **Table 8** following the text of this report.

The March 2025 average pH measurement was 7.21 standard units (su). The NYSDEC discharge permit requires the plant discharge to have an average monthly pH between 6.5 and 8.5 su. The results for this month meet this requirement. Data showing the plant discharge's monthly average pH trend over several months is provided in **Table 9** following the text of this report.

12.2.2 Air Stripper (AS) Tower Air Monitoring

Using a calibrated photoionization detector (PID), the vapor discharge from the air stripper tower was monitored weekly for volatile organic compounds (VOCs). The measurements were taken from the tower's effluent air stream through Port B when the treatment system is online. The March 2025 readings from the AS tower are provided in **Table 10**.

Other routine data collected in March 2025 included:

- The electric and water meter readings at OU5 were recorded weekly.
- The plant vaults and selected areas were monitored for VOCs weekly.
- The plant sound levels were recorded bi-weekly.
- The monthly electric and gas meter readings for OU4 were recorded.
- The recharge basins were inspected weekly.
- The differential pressure readings across the AS Tower were recorded bi-weekly.

13. PROCESS ANALYSIS AND SYSTEM STATUS

The treatment system is currently operated 24/7 in the automatic mode. It is remotely monitored as necessary.

13.1 Extraction (RW) Processes

- The monthly system inspection was completed.
- The vault space heating units were reactivated in December 2024.
- The recovery well pump system is remotely controlled and monitored, it operates in the auto mode.
- RW-4 pump experienced electrical issues and shut down on May 21, 2024. It has been subsequently placed back online; however, it continues to experience randomized shut downs. Upon further testing, GES plans to replace the motor starter and relay overload at the controls of RW-4.
- Pump flow readouts are transmitted to the plant and the totalizers for pumps RW-3, and RW-4 are fully functional. The local flow meter for RW-5 occasionally stops transmitting.

- Air/Vacuum (A/V) valve at station 33+96 encountered a leak in May 2023 that required the vault to be pumped out and have its air/vacuum valve removed. Currently a stopper has been fitted to the pit that allows water to flow through the system.
- The Air/Vacuum (A/V) valve at station 16+57 and 17+10 remain isolated from the transmission line.
- RW-1 and RW-2 are offline and periodically run for preventative maintenance purposes. Their flow meters are not transmitting through the PLC. When repairs were made at RW-1 in November 2021, stones were removed from the flow meterhousing. There was a thick coating of iron salt deposits on the housing and impeller. Both RW-1 and RW-2 are isolated from the process pipeline throughout the operating period. On a monthly basis, the isolation valves are actuated open and pumps are run for five minutes to rotate the motors. The RW-1 pump was tested operational last as of June 2024. The motor controls (motor starter with relay overload) were taken from RW-1 and installed at RW-5 on June 18, 2024 due to these parts being obsolete. RW-1 will remain offline and inoperative until suitable replacement parts can be obtained.
- RW-2 pump was last tested operational in November 2024. The motor starter and relay overload were removed on November 18, 2024 and installed at RW-3. RW-2 will remain offline and inoperative until suitable replacement parts can be obtained.

13.2 AS Process

- The three OU5 ASF pumps in the AS Process are fully functional.
- Motors and seals were lubricated on a bi-weekly schedule. Seals were tightened and the drains were cleared as necessary.
- The AS tower main drain valve's manual actuator is not functional (fail open).
- The tower media appears clean as the pressure differential between the top and bottom ports remains relatively constant. The lower section of media has been visually inspected.
- The discharge valves for ASF P1 and P2 appear to be frozen in the open position.
- Two floats in the ASF wet vault were replaced on November 1, 2024.

13.3 PD Process

- The plant discharge flow is directed intermittently to Recharge Basin 1 and Recharge Basin 33 based on RB33 liquid level.
- Pump PF-1 was historically taken out of service due to excessive noise and vibration. A full evaluation is required.
- Pump PF-2 and PF-3 remain fully functional.
- The motors and seals were lubricated as necessary.
- The discharge valve for PFF P-3 has failed open.

13.4 Other

- The plant's first bank of lights is wired to the emergency-light recharging system. The circuit is kept on 24/7. The lamps appear burnt out. The second bank of lights provides sufficient lighting for general tasks. Additional work lights were installed around the plant area to further illuminate work areas.
- The potential for leaks in the water supply line running through the plant will continue to be monitored.

- Potential issues with the smoke detectors and fire alarm pull boxes in OU5 was discovered during system troubleshooting on February 19, 2025. Further testing of the smoke detectors and fire alarm pull boxes will be required.

14. GROUNDS

14.1 Plant Perimeter

- General outdoor clean-up tasks are on-going.
- The fencing is clear and secure.

14.2 Well Field

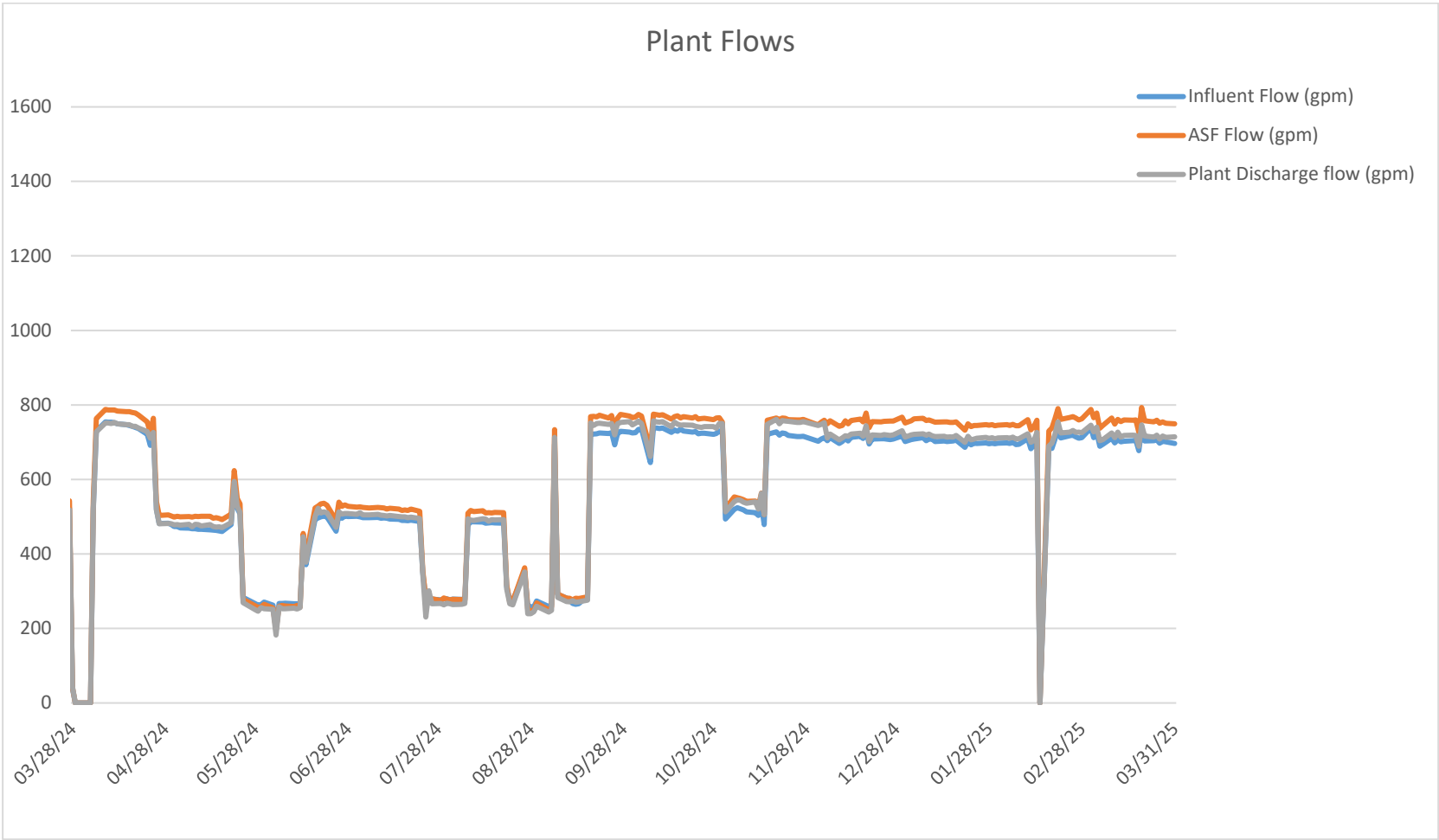
- Well field, and recharge basin inspections continue. Quarterly groundskeeping activities are performed to clear vegetation and poison ivy from around all well fields in anticipation of quarterly groundwater sampling events. In addition, the entrance to Recharge Basin 33 is maintained for ease of access.

14.3 Other

- The CPC GWTF OU4 is secure.
- The property at and around the OU4 site continues to be inspected. While the grounds are not maintained, the treatment plant's entrance and egress points are kept clear and functional.

FIGURE

Figure 1
Plant Discharge Daily Flow



TABLES

Table 1
Claremont Corrective Actions Summary

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
The RW Discharge Manifold integrity is suspect	The condition of the various devices on the RW discharge manifold are suspect. The Air Vent valve in the vault on the N-side of the 6th fairway is leaking from the influent nipple. The shut-off valve was closed and the device isolated. The air-vent valve in the vault to the east of the 6th green is leaking. The shut-off valve was closed and the device isolated. The manifold employs isolation, venting, and drain valves as well as other devices. Along the path of the manifold are vaults which house some of these devices. These vaults need to be accessed, pumped out, and the devices tested. Two isolation valves were closed between RW-1 and RW-3. These valves seemed to hold. Perform a reassessment of the RW Discharge Manifold infrastructure relative to condition of key components.	Plant staff and outside contractors	Possible shutdown	May require a Confined Space Entry (CSE)

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
AS Tower main drain valve is not controlled	The valve does not respond to manipulation of its actuator. This valve should be replaced. No further action is planned at this time.	Operator	Plant will need to be shut down to change out the valve	None
OU4 fire alarm system is not functioning Central monitoring of the fire alarm system or fire suppression system does not exist OU4 electrical system has been unstable	The Nassau County Fire Code indicates that the sprinkler system must have central monitoring for flow and valve tampering. The fire alarm system needs to be replaced and centrally monitored. Several contractors have been at the site to propose options for the system. BK Fire installed central monitoring on the sprinkler system. Both are offline as the sprinkler system will remain drained until the HVAC system is repaired. Certain OU4 lights currently create a large amount of noise in the fan box within the control room. The southern lights flicker and then die including the emergency system. OU4 is currently being planned for demolition.	Plant operator, Electrical Engineer (EE) and outside vender	None at this time	Fire code violations. High altitude tasks, safety code violations
The float controls for the PFF pump system have intermittently shorted out causing the system to not properly control the pumping operation	The wiring of the pump control system is connected below grade. The junction box in the wet well is thought to be filled with water creating a problem with the float switches to control relay wiring. The box cannot be opened without damage to it and the conduit. This appears to have been a longstanding problem, as when switches have been replaced in the past, they were spliced outside the box.	Plant operator and GES resources	Plant shut down is required	Possible Confined Space Entry work

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
	The output from the W-2 relay was moved to the output for the W-1 relay. This has stopped the short cycling. The control wiring should be changed and moved above grade. Currently the second splices to the floats are above ground outside the vault.			
PFF Pump Reliability	Pump PFF P1 was removed from service on February 24, 2020. Remaining pumps PFF P2 and PFF P3 are aging and rusted, preventing any significant maintenance if problems arise. It is recommended that replacement pumps be specified and PFF P1 be replaced in the event that PFF P2 or PFF P3 fail.	Ramboll Engineers (design), Outside contractors (installation)	Less water being treated if another PFF pump fails.	To be determined
As the ASF pumps cycle off/on, the check valves have started to slam closed. When reactivating, the motor starter contact is rather violent. Both actions tend to rattle the piping and fixtures	There is no available literature regarding the check valves, so the exact description of their functioning parts is to be determined. A softer start/stop control may fix this issue. This will need further investigation. Soft-start equipment and variable frequency controls were discussed.	Plant operator and EE support	If replacement or repairs are necessary, a plant shutdown will be required as the units can- not be isolated	To be determined
The flowmeters for system flow, ASF flow and plant discharge are out of sync with the flow meters on the recovery wells	While the ASF flow meter is the most out of line, it is plumbed correctly. The influent system flow meter and the plant discharge flow meters are piped incorrectly. The same style of relay is used to count pulses, but the meters have not been calibrated. The while the flow meters for the system show differences between recorded flows, they are not significant enough to warrant action at this	EE support	To be determined	none

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
	time.			
EF-4 is not operable	The fan is controlled through the mezzanine thermostat, but is non-functional. The fan should be replaced.	EE support	Only in an emergency	Only in an emergency
Wiring nests in main control console	The wiring in the main control console needs to be cleaned up and labeled, to facilitate problem troubleshooting and process improvements.	EE support	A shut down may be necessary	Electrical work
Pressure Filter Feed pump controls	With P1 out of service, the sequencing of pumps allows for the PFF vault to reach HHL conditions in certain circumstances. Reprogram the sequencing to eliminate the position of P1.	EE support	To be determined	To be determined
Air vacuum valve removal	On May 22, 2022 RW-4 was shut down due to a leak detected in the field near an air/vacuum valve pit. On May 24 2022 through May 25, 2022 water was pumped out of the vault and on May 31, 2022 a confined space entry was made to attempt to tighten the valve in an effort to stop the leak. This tightening was unsuccessful, and the valve was removed entirely and replaced with a blank flange until further notice.	GES Mechanical Support	Less water is treated	Confined space entry required to do work in vault

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
	Perform a reassessment of the RW Discharge Manifold infrastructure relative to condition of key components.			
Plant Electric Heater and HVAC system performance	The HVAC system struggles to provide sufficient heat in the process room in very cold temperatures and the hanging heaters in the process room are not functional. Coordinate upgrades to HVAC and replacement of emergency heaters.	EE support and Outside contractor	Water lines freezing	Equipment damage

Other Plant Conditions of Note (no action required at this time)

- The methane detection system is offline. **To function, it will need a technical inspection and maintenance.** However, methane does not currently appear to be a hazard. A Town of Oyster Bay contractor completed plant and surrounding area testing for methane gas on March 25, 2024.
- It has been determined that intrinsically safe components are no longer required in the plant.
- There has been no need for acid washing of the AS Tower media, the hydrochloric acid feed and storage system have not been operated. The tanks have not been filled and the level monitoring system has not been operated.

As previously noted, there are pieces of equipment that are out of service and require repairs. Currently there are no plans for addressing these conditions as the operation of this equipment is not necessary or needed for the operation of the treatment system.

Equipment	Fault	Status
Plant electric heater UH-1	Needs transformer	Heater is not needed
Plant electric heater UH-2	Needs relay timer and wiring repairs	Heater is not needed
Recovery well pump pressure switch assembly	Units are unwieldy and subject to vibration, corrosion, and leaks	Each unit requires assessment and disposition
NaOH sump pump	Pump is not operating	No water or chemicals stored in vault. Portable submersible pump in sump should suffice
Plant lights are wired to the emergency light charging system	Un-segregated light cannot be shut off. Several of the lamps may have burnt out	The bank of lights appears to have failed/burnt out. The second bank of lights

Equipment	Fault	Status
		are sufficient
Plant exhaust fans are part of methane system	Fans cannot be manually operated	Once the methane monitoring system is online, the fans can be operated
Plant discharge drain	Leak in Victaulic fitting	Drain line on plant discharge intermittently leaks. Parts are in-house. Not pressing
ASF pump isolation valve	Valve P1 has failed open	Not needed at this time
PFF pump isolation valve	Valve P3 has failed open	Not needed at this time
RW-1 flow meter	The meter is not operating	Pump is offline. Rocks were pulled from the housing and iron sediment was encrusting the flow meter impeller and housing
RW-2 flow meter	The meter is not transmitting	Pump is offline
Air stripper flow meter	Non-functional and removed	
AH-1 condenser	Air conditioner is non-functional	Two window AC units in place
Plant outdoor lights	9 of 12 lights not functioning	Not a security issue

Table 2
Plant Discharge Average Flow & Volume

Period	Average Flow (gpm)	Average Daily volume (gal)	Total Period Flow (gal)	Min off	Min on
Q4 2016	517	745,000	68,540,000	7,309	125,171
Q1 2017	520	748,244	67,342,000	655	128,945
Q2 2017	576	829,130	76,280,000	6,165	126,315
Q3 2017	634	913,576	84,049,000	1,110	131,370
Q4 2017	256	368,762	33,926,110	69,165	63,315
Q1 2018	53	75,989	6,839,000	118,180	11,420
Q2 2018	179	258,284	23,762,103	102,929	29,551
Q3 2018	504	725,280	66,725,717	57,416	75,064
Q4 2018	726	1,045,065	96,145,984	23,734	108,746
Q1 2019	527	758,467	68,262,000	735	128,865
Q2 2019	662	953,877	87,756,724	405	132,075
Q3 2019	685	985,802	90,693,740	108	132,372
Q4 2019	655	943,871	82,116,780	5,039	129,326
Q1 2020	480	682,527	62,110,000	1,824	129,326
Q2 2020	698	996,998	88,732,846	3,838	127,185
Q3 2020	669	955,928	87,945,333	1,099	131,401
Q4 2020	695	1,001,365	92,125,539	52	132,497
Q1 2021	708	1,019,733	91,776,000	0	129,603
Q2 2021	709	1,021,317	92,939,850	0	131,040
Q3 2021	615	884,934	81,413,897	0	132,475
Q4 2021	677	928,370	85,410,047	6,317	126,185
Q1 2022	633	1,291,661	80,082,987	5,280	124,320
Q2 2022	434	624,605	53,716,000	12,200	123,840
Q3 2022	365	514,501	46,283,000	3,004	124,994

Period	Average Flow (gpm)	Average Daily volume (gal)	Total Period Flow (gal)	Min off	Min on
Q4 2022	257	369,307	34,007,000	491	132,154
Q1 2023	305	434,900	37,841,000	323	123,817
Q2 2023	548	799,720	74,309,000	204	135,126
Q3 2023	560	806,666	72,430,000	102	130,998
Q4 2023	572	818,838	75,728,000	1,733	129,307
Q1 2024	642	915,413	79,922,000	1,336	123,944
Q2 2024	498	656,134	62,091,000	8,998*	126,218
Q3 2024	440	633,318	57,658,000	35	132,445
Q4 2024	709	977,100	88,790,000	5,457	125,646
Q1 2025	717	986,016	90,043,000	5,346	125,640

Acronyms: gal – gallons gpm – gallons per minute,

* Planned system shut down to conduct system re-piping and install of GAC vessel bypass lines.

Table 3
Plant Daily Totalizer Readings

March 2025 Flows						
Plant Influent			Plant Discharge		RW Discharge	
Date	Volume	Avg. Flow	Volume	Avg. Flow	Volume	Avg. Flow
02/28/25	-	760	-	727	-	710
03/03/25	3,294,000	763	3,135,000	726	3,075,000	712
03/04/25	1,087,000	788	1,029,000	746	1,019,000	738
03/05/25	1,103,000	766	1,048,000	728	1,025,000	712
03/06/25	1,121,000	778	1,066,000	740	1,046,000	726
03/07/25	1,062,000	738	1,014,000	704	992,000	689
03/10/25	3,217,000	745	3,054,000	707	2,998,000	694
03/11/25	1,101,000	765	1,044,000	725	1,023,000	710
03/12/25	1,112,000	749	1,057,000	712	1,037,000	698
03/13/25	1,062,000	761	1,014,000	727	986,000	707
03/14/25	1,088,000	756	1,028,000	714	1,009,000	701
03/17/25	3,283,000	760	3,101,000	718	3,034,000	702
03/18/25	1,093,000	759	1,035,000	719	1,014,000	704
03/19/25	1,094,000	760	1,034,000	718	1,016,000	706
03/20/25	1,046,000	726	992,000	689	975,000	677
03/21/25	1,142,000	793	1,075,000	747	1,056,000	733
03/24/25	3,273,000	758	3,095,000	716	3,038,000	703
03/25/25	1,086,000	754	1,028,000	714	1,014,000	704
03/26/25	1,093,000	759	1,035,000	719	1,017,000	706
03/27/25	1,081,000	751	1,020,000	708	1,004,000	697
03/28/25	1,086,000	754	1,032,000	717	1,012,000	703
03/31/25	3,245,000	751	3,079,000	713	3,029,000	701
04/01/25	1,079,000	749	1,029,000	715	1,003,000	697
March Total Plant Influent (Gal)			34,848,000			
March Total Plant Effluent (Gal)			33,044,000			
March Total RW Discharge (Gal)			32,422,000			

Acronyms: gal - gallons

gpm – gallons per minute

Table 4
Pump System Flow Readings

March 2025	On-Time Minutes (actual)	Avg. Flow (gpm)	Avg. Flow (gpd)	Total Flow (gal)
RW-1*	0	NR	0	0
RW-2*	0	NR	0	0
RW-3	46,020	243	349,219	11,175,000
RW-4	46,020	256	368,156	11,781,000
RW-5	46,020	237	340,906	10,909,000
RW Totals	46,020	705	1,013,188	32,422,000
Plant Influent	46,020	757	1,089,000	34,848,000
Plant Effluent	46,020	718	1,032,625	33,044,000

Acronyms: gal - gallons gpm – gallons per minute gpd – gallons per day

The treatment process was online 32 days in during the March 2025 reporting period with 0 minutes of downtime.

* Offline aside from monthly process equipment test to check their functionality. There are no average gallons per day. Currently, both RW-1 and RW-2 remain offline without working electric motor controls to activate pumps.

Table 5
Claremont OU5 O&M Sampling/Measurement Program and Frequency

Measurement / Analyte	Sampling Location			
	System Influent	Plant Discharge	Recovery Wells	Monitoring Wells
Flow	Daily	Daily	Daily	NA
pH	Quarterly	Weekly	Quarterly	Quarterly
VOCs (+Tert-Butyl-Methyl ether (MTBA) & Tert-butyl alcohol (TBA))	Quarterly	Monthly	Quarterly	Quarterly
Semi-Volatile Organic Compound (SVOC) Base Neutral & Acid Extractables (BNA)	Quarterly	Monthly	NS	NS
Per- and polyfluoroalkyl substances (PFAS)	Bi-Monthly	Bi-Monthly	NS	Quarterly ⁽¹⁾
1,4-Dioxane	Monthly	Monthly	NS	Quarterly ⁽¹⁾
Total Kjeldahl Nitrogen→ (TKN)	NS	Quarterly	NS	NS
Total Suspended Solids (TSS)	Quarterly	NS	Quarterly	NS
Total Organic Carbon (TOC)	Quarterly	NS	NS	NS
Total Dissolved Solids (TDS)	NS	Quarterly	NS	NS
Cyanide	NS	Quarterly	NS	NS
Hexavalent Chromium	NS	Quarterly	NS	NS
Mercury	NS	Quarterly	NS	NS
Metals	Quarterly	Quarterly	Quarterly	NS
Anions	NS	Quarterly	NS	NS

Notes: NA – Not applicable; NS – Not sampled. ⁽¹⁾ – CPC wells only

Table 6
Plant Discharge Analytical Results
March 4, 2025

Parameters	Discharge Limitations (SPDES)	Units	Results
<i>pH (range)</i>	6.5 – 8.5	<i>su</i>	7.21
1,1,1-Trichloroethane	5	ug/l	U
1,1-Dichloroethane	5	ug/l	U
1,1-Dichloroethylene	5	ug/l	U
1,2- Dichloroethane	0.6	ug/l	U
Benzene	0.7	ug/l	U
Chlorobenzene	5	ug/l	U
Chloroform	7	ug/l	U
CIS 1,2-Dichloroethylene	5	ug/l	U
Ethylbenzene	5	ug/l	U
Methylene Chloride	5	ug/l	U
Tert-butyl alcohol (TBA)	Not indicated	ug/l	U
Tert-Butyl-Methyl ether (MTBA)	5	ug/l	U
Tetrachloroethylene (PCE)	5	ug/l	U
Toluene	5	ug/l	U
Trans 1,2-Dichloroethylene	5	ug/l	U
Trichloroethylene (TCE)	5	ug/l	U
Bis(2-ethylhexyl) phthalate	5	ug/l	U
Di-n-butyl phthalate	50	ug/l	U
Nitro Benzene	0.4	ug/l	U
Antimony, Total recoverable	3	ug/l	U
Arsenic, Total recoverable	50	ug/l	U
Barium, Total recoverable	2000	ug/l	69.9
Chromium, Hexavalent	100	ug/l	U
Lead, Total recoverable	50	ug/l	U
Iron, Total recoverable	600	ug/l	U
Manganese, Total recoverable	600	ug/l	136
Mercury	Not indicated	ug/l	U
Zinc	Not indicated	mg/l	U
Nitrogen, Total (as N)	10	mg/l	4.5
Selenium, Total recoverable	40	ug/l	U
Solids, Total Dissolved	1000	mg/l	210
Chloride Ion	NL	mg/l	130
Cyanide	Not indicated	ug/l	U
Fluoride Ion	NL	mg/l	0.10

Parameters	Discharge Limitations (SPDES)	Units	Results
Sulfate Ion	NL	mg/l	20
J – Estimated value U – Analyzed but not detected NL – Monitor only NS– Not sampled SPDES – State Pollutant Discharge Elimination System ug/l – micrograms per liter ng/l – nanograms per liter mg/l – milligrams per liter Discharge limitations updates as per the water discharge permit. Note: Parameters shaded in gray are analyzed quarterly with results generally being provided March, June, October, and December.			

Table 7
Emerging Contaminant Analytical Results
March 4 and 10, 2025

Parameters	Guidance Values	Units	Influent Results	Effluent Results
PFOA	6.7 ¹	ng/l	46	48
PFOS	2.7 ¹	ng/l	15	15
1,4-Dioxane	0.35 ¹	ug/l	18	20
J – Estimated value U – Analyzed but not detected ug/l – micrograms per liter ng/l – nanograms per liter x / x – indicates primary/duplicate results PFOA - Perfluorooctanoic acid PFOS - Perfluorooctanesulfonic acid ¹ NYSDEC - 2023 Addendum to June 1998 Division of Water Technical and Operational Guidance Series (TOGS) N0. 1.1.1.				

Table 8
Effluent pH and Temperature Readings

Date	pH (su)	Temp (° C)
03/05/25	7.75	13.5
03/14/25	7.13	15.5
03/19/25	6.98	15.1
03/26/25	6.97	15.1
March Average	7.21 su	14.8 °C

Table 9
Plant Discharge Monthly Average pH

Month	pH(su)
Aug '19	6.56
Sept '19	7.45
Oct '19	6.86
Nov '19	6.88
Dec '19	6.84
Jan '20	6.63
Feb '20	6.75
Mar '20	6.74
Apr '20	6.65
May '20	6.8
June '20	6.8
July '20	6.9
Aug '20	6.8
Sept '20	6.8
Oct. '20	6.95
Nov '20	6.8
Dec '20	6.64
Jan '21	6.8
Feb '21	6.75
Mar '21	6.76
Apr '21	7.28
May '21	7.53
June '21	7.44
July '21	7.41
Aug '21	7.42
Sept '21	7.13
Oct '21	7.10
Nov '21	7.09
Dec '21	7.01
Jan '22	6.90
Feb '22	6.90
Mar '22	6.80
Apr '22	6.78
May '22	6.79
June '22	6.79
July '22	7.01
Aug '22	6.99
Sept '22	7.19
Oct '22	7.62
Nov '22	7.68
Dec '22	7.52

Month	pH(su)
Jan `23	7.24
Feb `23	7.36
Mar `23	7.56
Apr `23	7.28
May `23	7.56
June`23	7.36
July` 23	7.39
Aug ` 23	7.24
Sept` 23	7.25
Oct` 23	7.22
Nov` 23	6.99
Dec` 23	6.94
Jan` 24	6.81
Feb` 24	6.94
Mar` 24	7.00
Apr` 24	7.23
May` 24	7.20
Jun` 24	7.28
July` 24	7.21
Aug` 24	7.11
Sep` 24	7.21
Oct` 24	7.06
Nov` 24	7.01
Dec` 24	7.09
Jan` 25	7.19
Feb` 25	7.06
Mar` 25	7.21

Plant Discharge Monthly Average pH Reading

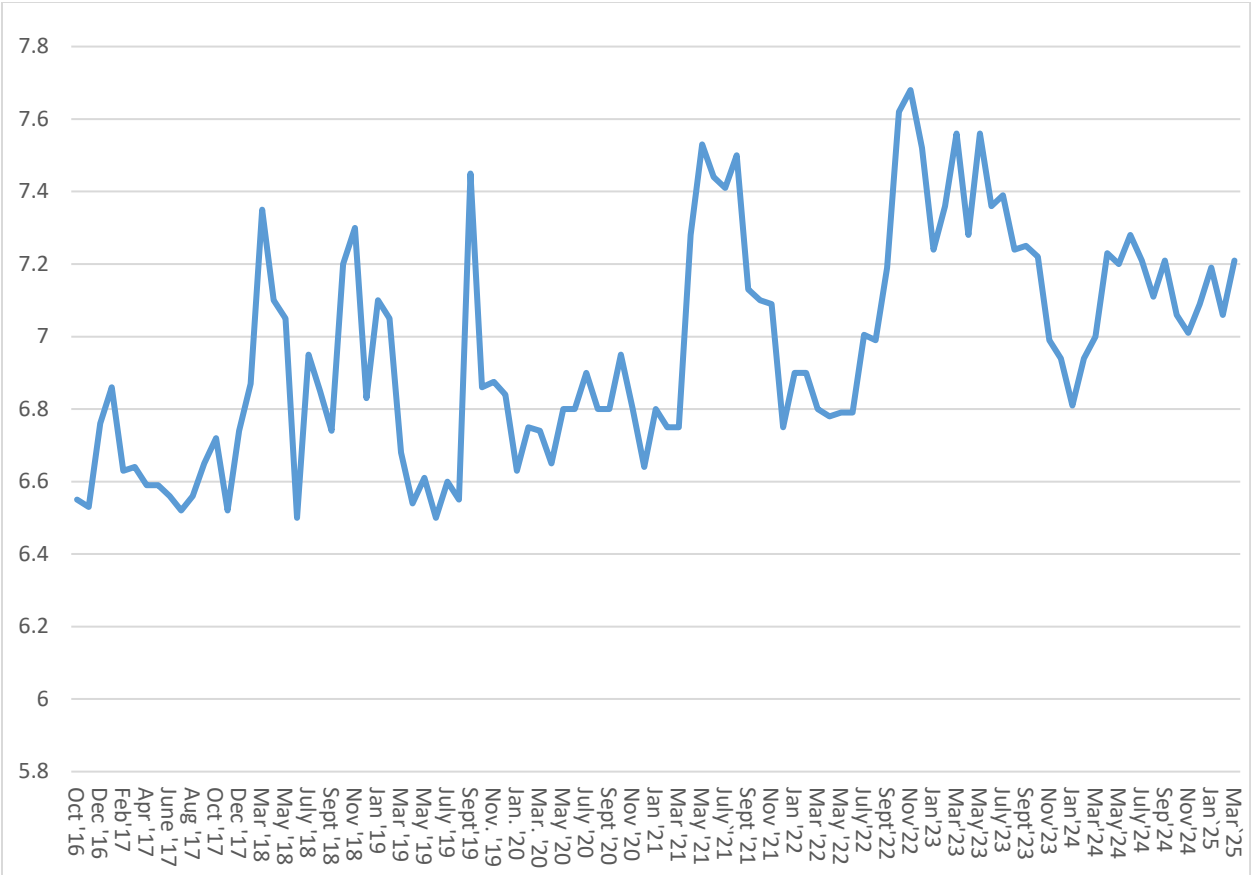


Table 10
AS Tower Air Monitoring Readings

Recorded Date	Port B (ppm)
03/05/25	0.1
03/14/25	0.1
03/19/25	0.1
03/26/25	0.1

ATTACHMENT 1
MONTHLY O&M SAMPLING ANALYTICAL RESULTS –MARCH 4 AND 10, 2025

April 4, 2025

Payson Long
NYDEC_Ramboll US Consulting, Inc. - Syracuse
333 West Washington Street, PO Box 4873
Syracuse, NY 13202

Project Location: Old Bethpage, New York
Client Job Number:
Project Number: 130015
Laboratory Work Order Number: 25C0124

Enclosed are results of analyses for samples as received by the laboratory on March 5, 2025. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle A. Murray
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	10
25C0124-01	10
25C0124-02	19
25C0124-03	22
25C0124-04	31
25C0124-05	40
25C0124-06	44
25C0124-07	45
25C0124-08	49
25C0124-09	53
Sample Preparation Information	56
QC Data	58
Volatile Organic Compounds by GC/MS	58
B400231	58
B400382	64
B400231	69
B400382	69
Semivolatile Organic Compounds by GC/MS	70
B400223	70
1,4-Dioxane by isotope dilution GC/MS	75
B400243	75
Semivolatile Organic Compounds by - LC/MS-MS	76
B400204	76

Table of Contents (continued)

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)	81
B400249	81
B400364	81
B400578	81
B400954	81
B401495	82
B401843	82
B402286	83
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)	84
B400233	84
Flag/Qualifier Summary	85
Certifications	86
Chain of Custody/Sample Receipt	91



Pace Analytical Services, LLC - East Longmeadow, Ma

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

NYDEC_Ramboll US Consulting, Inc. - Syracuse
333 West Washington Street, PO Box 4873
Syracuse, NY 13202
ATTN: Payson Long

REPORT DATE: 4/4/2025

PURCHASE ORDER NUMBER: 151811

PROJECT NUMBER: 130015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 25C0124

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: Old Bethpage, New York

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
ASF-CP-00-030423	25C0124-01	Ground Water		Draft Method 1633 SM 21-23 5310B SM21-24 2540D SW-846 8260D SW-846 8270E varies	NY10478; M-NY026 MA M-MA-086/CT PH-0574/NY11148
ASF-CP-01-030425	25C0124-02	Ground Water		Draft Method 1633 SM 21-23 5310B SW-846 8270E varies	NY10478; M-NY026 MA M-MA-086/CT PH-0574/NY11148
PD-CP-00-030425	25C0124-03	Ground Water		Draft Method 1633 EPA 300.0 SM19-24 4500-N Org B,C-NH3 C SM21-24 2540C SW-846 7196A SW-846 8260D SW-846 8270E SW-846 9014 varies	 MA M-MA-086/CT PH-0574/NY11148
PD-CP-01-030425	25C0124-04	Ground Water		Draft Method 1633 EPA 300.0 SM19-24 4500-N Org B,C-NH3 C SM21-24 2540C SW-846 7196A SW-846 8260D SW-846 8270E SW-846 9014	 MA M-MA-086/CT PH-0574/NY11148
RW3-CP-00-030425	25C0124-05	Ground Water		SM21-24 2540D SW-846 8260D varies	 MA M-MA-086/CT PH-0574/NY11148
RW3-CP-01-030425	25C0124-06	Ground Water		SM21-24 2540D	
RW-4-CP-01-030425	25C0124-07	Ground Water		SM21-24 2540D SW-846 8260D varies	 MA M-MA-086/CT PH-0574/NY11148



Pace Analytical Services, LLC - East Longmeadow, Ma

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

NYDEC_Ramboll US Consulting, Inc. - Syracuse
333 West Washington Street, PO Box 4873
Syracuse, NY 13202
ATTN: Payson Long

REPORT DATE: 4/4/2025

PURCHASE ORDER NUMBER: 151811

PROJECT NUMBER: 130015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 25C0124

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: Old Bethpage, New York

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RW-5-CP-01-030425	25C0124-08	Ground Water		SM21-24 2540D SW-846 8260D varies	MA M-MA-086/CT PH-0574/NY11148
TB-030425	25C0124-09	Trip Blank 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.

Did not receive containers for 1,4 Dioxane on saamples -03 & -04, cancelled.

EPA 300.0**Qualifications:****H-04**

Initial analysis within holding time. Reanalysis for the required dilution was past holding time.

Analyte & Samples(s) Qualified:**Chloride**

25C0124-03[PD-CP-00-030425], 25C0124-04[PD-CP-01-030425], B402286-MS1, B402286-MSD1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.

Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**Sulfate**

25C0124-03[PD-CP-00-030425], B401495-MS1, B401495-MSD1

SM21-24 2540D**Qualifications:****DL-16**

Test results of sample did not achieve the method required minimum yield of 2.5mg of dried residue and for which less than 1L of sample was filtered.

Analyte & Samples(s) Qualified:**Total Suspended Solids**

25C0124-05[RW3-CP-00-030425], 25C0124-07[RW-4-CP-01-030425], 25C0124-08[RW-5-CP-01-030425]

SW-846 7196A**Qualifications:****H-01**

Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.

Analyte & Samples(s) Qualified:**Hexavalent Chromium**

25C0124-03[PD-CP-00-030425], 25C0124-04[PD-CP-01-030425], B400249-MS1, B400249-MSD1

SW-846 8260D**Qualifications:****L-07**

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**1,2-Dibromo-3-chloropropane (DBCP)**

B400231-BSD1

Methyl Acetate

B400231-BSD1

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:**1,2-Dibromo-3-chloropropane (DBCP)**

B400231-MS1

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**

25C0124-01[ASF-CP-00-030423], 25C0124-03[PD-CP-00-030425], 25C0124-04[PD-CP-01-030425], 25C0124-05[RW3-CP-00-030425], 25C0124-08[RW-5-CP-01-030425], 25C0124-09[TB-030425], B400231-BLK1, B400231-BS1, B400231-BSD1, B400231-MS1, B400231-MSD1, S 118890-CCV1

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

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:

1,2-Dibromo-3-chloropropane (DBCP)

B400231-BS1, B400231-BSD1, B400231-MS1, B400231-MSD1, S118890-CCV1

2-Hexanone (MBK)

B400231-BS1, B400231-BSD1, B400231-MS1, B400231-MSD1, S118890-CCV1

4-Methyl-2-pentanone (MIBK)

B400231-BS1, B400231-BSD1, B400231-MS1, B400231-MSD1, S118890-CCV1

Chlorodibromomethane

B400231-BS1, B400231-BSD1, B400231-MS1, B400231-MSD1, S118890-CCV1

Methyl Acetate

B400231-BS1, B400231-BSD1, B400231-MS1, B400231-MSD1, S118890-CCV1

SW-846 8270E

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:

Caprolactam

25C0124-01[ASF-CP-00-030423], 25C0124-03[PD-CP-00-030425], 25C0124-04[PD-CP-01-030425], B400223-BLK1, B400223-BS1, B400223-BSD1

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

25C0124-01[ASF-CP-00-030423], 25C0124-03[PD-CP-00-030425], 25C0124-04[PD-CP-01-030425], B400223-BLK1, B400223-BS1, B400223-BSD1, S118873-CCV1

Di-n-octylphthalate

25C0124-01[ASF-CP-00-030423], 25C0124-03[PD-CP-00-030425], 25C0124-04[PD-CP-01-030425], B400223-BLK1, B400223-BS1, B400223-BSD1, S118873-CCV1

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:

4-Chloroaniline

25C0124-01[ASF-CP-00-030423], 25C0124-03[PD-CP-00-030425], 25C0124-04[PD-CP-01-030425], B400223-BLK1, B400223-BS1, B400223-BSD1, S118873-CCV1

Aniline

25C0124-03[PD-CP-00-030425], B400223-BLK1, B400223-BS1, B400223-BSD1, S118873-CCV1

Atrazine

25C0124-01[ASF-CP-00-030423], 25C0124-03[PD-CP-00-030425], 25C0124-04[PD-CP-01-030425], B400223-BLK1, B400223-BS1, B400223-BSD1, S118873-CCV2

Caprolactam

25C0124-01[ASF-CP-00-030423], 25C0124-03[PD-CP-00-030425], 25C0124-04[PD-CP-01-030425], B400223-BLK1, B400223-BS1, B400223-BSD1, S118873-CCV2

N-Nitrosodi-n-propylamine

25C0124-01[ASF-CP-00-030423], 25C0124-03[PD-CP-00-030425], 25C0124-04[PD-CP-01-030425], B400223-BLK1, B400223-BS1, B400223-BSD1, S118873-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Aniline

S117929-ICV1, S118873-CCV1

SW-846 9014

Qualifications:

Z-01

Test sw846 9014 had a calibration point outside acceptable limits. Reanalysis yielded similar non-conformance.

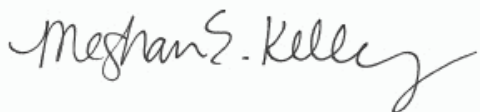
Analyte & Samples(s) Qualified:

Cyanide

25C0124-04[PD-CP-01-030425]

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.

A handwritten signature in black ink that reads "Meghan E. Kelley". The signature is written in a cursive style.

Meghan E. Kelley
Reporting Specialist

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: ASF-CP-00-030423

Sampled: 3/4/2025 09:15

Sample ID: 25C0124-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	3/5/25	3/6/25 11:02	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
cis-1,2-Dichloroethylene	2.0	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: ASF-CP-00-030423

Sampled: 3/4/2025 09:15

Sample ID: 25C0124-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Tetrachloroethylene	9.4	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Trichloroethylene	58	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:02	EEH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	96.3	70-130							
Toluene-d8	96.8	70-130							
4-Bromofluorobenzene	104	70-130							



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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: ASF-CP-00-030423

Sampled: 3/4/2025 09:15

Sample ID: 25C0124-01

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	3/5/25	3/6/25 11:02	EEH

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: ASF-CP-00-030423

Sampled: 3/4/2025 09:15

Sample ID: 25C0124-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	17	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Atrazine	ND	17	µg/L	1	V-05	SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Benzaldehyde	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Biphenyl	ND	17	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Caprolactam	ND	8.7	µg/L	1	V-05, L-04	SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Acenaphthene	ND	4.3	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Acenaphthylene	ND	4.3	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Acetophenone	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Aniline	ND	17	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Anthracene	ND	4.3	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Benzo(a)anthracene	ND	4.3	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Benzo(a)pyrene	ND	4.3	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Benzo(b)fluoranthene	ND	4.3	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Benzo(g,h,i)perylene	ND	4.3	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Benzo(k)fluoranthene	ND	4.3	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Bis(2-chloroethoxy)methane	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Bis(2-chloroethyl)ether	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
2,2'-oxybis(1-Chloropropane)	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Bis(2-Ethylhexyl)phthalate	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
4-Bromophenylphenylether	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Butylbenzylphthalate	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Carbazole	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
4-Chloroaniline	ND	8.7	µg/L	1	V-05	SW-846 8270E	3/5/25	3/6/25 11:22	BGL
4-Chloro-3-methylphenol	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
2-Chloronaphthalene	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
2-Chlorophenol	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
4-Chlorophenylphenylether	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Chrysene	ND	4.3	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Dibenz(a,h)anthracene	ND	4.3	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Dibenzofuran	ND	4.3	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Di-n-butylphthalate	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
3,3-Dichlorobenzidine	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
2,4-Dichlorophenol	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Diethylphthalate	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
2,4-Dimethylphenol	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Dimethylphthalate	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
4,6-Dinitro-2-methylphenol	ND	17	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
2,4-Dinitrophenol	ND	8.7	µg/L	1	V-04	SW-846 8270E	3/5/25	3/6/25 11:22	BGL
2,4-Dinitrotoluene	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
2,6-Dinitrotoluene	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Di-n-octylphthalate	ND	8.7	µg/L	1	V-04	SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Fluoranthene	ND	4.3	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Fluorene	ND	4.3	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Hexachlorobenzene	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: ASF-CP-00-030423

Sampled: 3/4/2025 09:15

Sample ID: 25C0124-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Hexachlorocyclopentadiene	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Hexachloroethane	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Indeno(1,2,3-cd)pyrene	ND	4.3	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Isophorone	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
1-Methylnaphthalene	ND	4.3	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
2-Methylnaphthalene	ND	4.3	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
2-Methylphenol	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
3/4-Methylphenol	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Naphthalene	ND	4.3	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
2-Nitroaniline	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
3-Nitroaniline	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
4-Nitroaniline	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Nitrobenzene	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
2-Nitrophenol	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
4-Nitrophenol	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
N-Nitrosodi-n-propylamine	ND	8.7	µg/L	1	V-05	SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Pentachlorophenol	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Phenanthrene	ND	4.3	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Phenol	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Pyrene	ND	4.3	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
Pyridine	ND	17	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
1,2,4,5-Tetrachlorobenzene	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
2,4,5-Trichlorophenol	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL
2,4,6-Trichlorophenol	ND	8.7	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:22	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	52.9	15-110	
Phenol-d6	32.8	15-110	
Nitrobenzene-d5	88.0	30-130	
2-Fluorobiphenyl	92.9	30-130	
2,4,6-Tribromophenol	79.1	15-110	
p-Terphenyl-d14	105	30-130	



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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: ASF-CP-00-030423

Sampled: 3/4/2025 09:15

Sample ID: 25C0124-01

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	18	0.19	µg/L	1		SW-846 8270E	3/5/25	3/14/25 14:59	GJB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,4-Dioxane-d8		30.7	15-110				3/14/25 14:59		

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: ASF-CP-00-030423

Sampled: 3/4/2025 09:15

Sample ID: 25C0124-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	41	6.0	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluoropentanoic acid (PFPeA)	19	3.0	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluorohexanoic acid (PFHxA)	24	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluoroheptanoic acid (PFHpA)	13	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluorooctanoic acid (PFOA)	44	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluorononanoic acid (PFNA)	29	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluorodecanoic acid (PFDA)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluorododecanoic acid (PFDoA)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluorobutanesulfonic acid (PFBS)	3.7	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluoropentanesulfonic acid (PFPeS)	2.7	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluorohexanesulfonic acid (PFHxS)	8.3	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluorooctanesulfonic acid (PFOS)	15	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
N-MeFOSAA (NMeFOSAA)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
N-EtFOSAA (NEtFOSAA)	2.5	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.0	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.0	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
9Cl-PF3ONS (F53B Minor)	ND	6.0	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
11Cl-PF3OUDS (F53B Major)	ND	6.0	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	37	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	37	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: ASF-CP-00-030423

Sampled: 3/4/2025 09:15

Sample ID: 25C0124-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.0	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:46	CML
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C4-PFBA	92.3	5-130						3/6/25 9:46	
13C5-PFPeA	90.1	40-130						3/6/25 9:46	
13C5-PFHxA	98.1	40-130						3/6/25 9:46	
13C4-PFHpA	98.5	40-130						3/6/25 9:46	
13C8-PFOA	95.7	40-130						3/6/25 9:46	
13C9-PFNA	98.1	40-130						3/6/25 9:46	
13C6-PFDA	99.2	40-130						3/6/25 9:46	
13C7-PFUnA	103	30-130						3/6/25 9:46	
13C2-PFDoA	86.6	10-130						3/6/25 9:46	
13C2-PFTeDA	82.8	10-130						3/6/25 9:46	
13C3-PFBS	110	40-135						3/6/25 9:46	
13C3-PFHxS	99.8	40-130						3/6/25 9:46	
13C8-PFOS	95.9	40-130						3/6/25 9:46	
13C2-4:2FTS	124	40-200						3/6/25 9:46	
13C2-6:2FTS	70.6	40-200						3/6/25 9:46	
13C2-8:2FTS	78.8	40-300						3/6/25 9:46	
13C8-PFOSA	75.6	40-130						3/6/25 9:46	
D3-NMeFOSA	68.0	10-130						3/6/25 9:46	
D5-NEtFOSA	65.4	10-130						3/6/25 9:46	
D3-NMeFOSAA	84.8	40-170						3/6/25 9:46	
D5-NEtFOSAA	81.0	25-135						3/6/25 9:46	
D7-NMeFOSE	74.4	10-130						3/6/25 9:46	
D9-NEtFOSE	70.5	10-130						3/6/25 9:46	
13C3-HFPO-DA	96.7	40-130						3/6/25 9:46	



Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: ASF-CP-00-030423

Sampled: 3/4/2025 09:15

Sample ID: 25C0124-01

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	2.5	mg/L	1		SM21-24 2540D	3/7/25	3/7/25 13:09	LL



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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: ASF-CP-01-030425

Sampled: 3/4/2025 09:15

Sample ID: 25C0124-02

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	18	0.19	µg/L	1		SW-846 8270E	3/5/25	3/14/25 15:19	GJB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,4-Dioxane-d8		29.9	15-110				3/14/25 15:19		

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: ASF-CP-01-030425

Sampled: 3/4/2025 09:15

Sample ID: 25C0124-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	41	5.7	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluoropentanoic acid (PFPeA)	21	2.9	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluorohexanoic acid (PFHxA)	26	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluoroheptanoic acid (PFHpA)	13	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluorooctanoic acid (PFOA)	46	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluorononanoic acid (PFNA)	29	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluorodecanoic acid (PFDA)	ND	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluorododecanoic acid (PFDoA)	ND	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluorobutanesulfonic acid (PFBS)	3.9	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluoropentanesulfonic acid (PFPeS)	2.4	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluorohexanesulfonic acid (PFHxS)	8.0	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluorooctanesulfonic acid (PFOS)	15	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.7	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.7	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.7	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
N-MeFOSAA (NMeFOSAA)	ND	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
N-EtFOSAA (NEtFOSAA)	2.5	1.4	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	14	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	14	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.7	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	5.7	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
9Cl-PF3ONS (F53B Minor)	ND	5.7	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
11Cl-PF3OUDS (F53B Major)	ND	5.7	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.2	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	36	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	36	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.9	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.9	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: ASF-CP-01-030425

Sampled: 3/4/2025 09:15

Sample ID: 25C0124-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.9	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.9	ng/L	1		Draft Method 1633	3/5/25	3/6/25 9:55	CML
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C4-PFBA	89.8	5-130						3/6/25 9:55	
13C5-PFPeA	88.0	40-130						3/6/25 9:55	
13C5-PFHxA	91.8	40-130						3/6/25 9:55	
13C4-PFHpA	96.4	40-130						3/6/25 9:55	
13C8-PFOA	85.3	40-130						3/6/25 9:55	
13C9-PFNA	86.2	40-130						3/6/25 9:55	
13C6-PFDA	86.1	40-130						3/6/25 9:55	
13C7-PFUnA	89.7	30-130						3/6/25 9:55	
13C2-PFDoA	74.4	10-130						3/6/25 9:55	
13C2-PFTeDA	75.3	10-130						3/6/25 9:55	
13C3-PFBS	102	40-135						3/6/25 9:55	
13C3-PFHxS	94.6	40-130						3/6/25 9:55	
13C8-PFOS	80.5	40-130						3/6/25 9:55	
13C2-4:2FTS	110	40-200						3/6/25 9:55	
13C2-6:2FTS	71.6	40-200						3/6/25 9:55	
13C2-8:2FTS	76.4	40-300						3/6/25 9:55	
13C8-PFOSA	68.7	40-130						3/6/25 9:55	
D3-NMeFOSA	59.9	10-130						3/6/25 9:55	
D5-NEtFOSA	57.9	10-130						3/6/25 9:55	
D3-NMeFOSAA	73.9	40-170						3/6/25 9:55	
D5-NEtFOSAA	69.7	25-135						3/6/25 9:55	
D7-NMeFOSE	63.4	10-130						3/6/25 9:55	
D9-NEtFOSE	56.4	10-130						3/6/25 9:55	
13C3-HFPO-DA	90.7	40-130						3/6/25 9:55	

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: PD-CP-00-030425

Sampled: 3/4/2025 10:00

Sample ID: 25C0124-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	3/5/25	3/6/25 11:35	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: PD-CP-00-030425

Sampled: 3/4/2025 10:00

Sample ID: 25C0124-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 11:35	EEH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	97.2	70-130							
Toluene-d8	93.9	70-130							
4-Bromofluorobenzene	107	70-130							



Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: PD-CP-00-030425

Sampled: 3/4/2025 10:00

Sample ID: 25C0124-03

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Silanol, trimethyl-	1.7	µg/L	28838	2.502	1	001066-40-6	86	SW-846 8260D	3/5/25	3/6/25 11:35	EEH

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: PD-CP-00-030425

Sampled: 3/4/2025 10:00

Sample ID: 25C0124-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	18	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Atrazine	ND	18	µg/L	1	V-05	SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Benzaldehyde	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Biphenyl	ND	18	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Caprolactam	ND	8.9	µg/L	1	L-04, V-05	SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Acenaphthene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Acenaphthylene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Acetophenone	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Aniline	ND	18	µg/L	1	V-05	SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Anthracene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Benzo(a)anthracene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Benzo(a)pyrene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Benzo(b)fluoranthene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Benzo(g,h,i)perylene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Benzo(k)fluoranthene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Bis(2-chloroethoxy)methane	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Bis(2-chloroethyl)ether	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
2,2'-oxybis(1-Chloropropane)	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Bis(2-Ethylhexyl)phthalate	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
4-Bromophenylphenylether	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Butylbenzylphthalate	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Carbazole	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
4-Chloroaniline	ND	8.9	µg/L	1	V-05	SW-846 8270E	3/5/25	3/6/25 11:43	BGL
4-Chloro-3-methylphenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
2-Chloronaphthalene	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
2-Chlorophenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
4-Chlorophenylphenylether	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Chrysene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Dibenz(a,h)anthracene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Dibenzofuran	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Di-n-butylphthalate	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
3,3-Dichlorobenzidine	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
2,4-Dichlorophenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Diethylphthalate	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
2,4-Dimethylphenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Dimethylphthalate	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
4,6-Dinitro-2-methylphenol	ND	18	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
2,4-Dinitrophenol	ND	8.9	µg/L	1	V-04	SW-846 8270E	3/5/25	3/6/25 11:43	BGL
2,4-Dinitrotoluene	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
2,6-Dinitrotoluene	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Di-n-octylphthalate	ND	8.9	µg/L	1	V-04	SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Fluoranthene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Fluorene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Hexachlorobenzene	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: PD-CP-00-030425

Sampled: 3/4/2025 10:00

Sample ID: 25C0124-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Hexachlorocyclopentadiene	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Hexachloroethane	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Indeno(1,2,3-cd)pyrene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Isophorone	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
1-Methylnaphthalene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
2-Methylnaphthalene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
2-Methylphenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
3/4-Methylphenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Naphthalene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
2-Nitroaniline	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
3-Nitroaniline	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
4-Nitroaniline	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Nitrobenzene	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
2-Nitrophenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
4-Nitrophenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
N-Nitrosodi-n-propylamine	ND	8.9	µg/L	1	V-05	SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Pentachlorophenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Phenanthrene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Phenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Pyrene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
Pyridine	ND	18	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
1,2,4,5-Tetrachlorobenzene	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
2,4,5-Trichlorophenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL
2,4,6-Trichlorophenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 11:43	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	45.2	15-110	3/6/25 11:43
Phenol-d6	28.2	15-110	3/6/25 11:43
Nitrobenzene-d5	82.9	30-130	3/6/25 11:43
2-Fluorobiphenyl	86.0	30-130	3/6/25 11:43
2,4,6-Tribromophenol	64.6	15-110	3/6/25 11:43
p-Terphenyl-d14	100	30-130	3/6/25 11:43

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: PD-CP-00-030425

Sampled: 3/4/2025 10:00

Sample ID: 25C0124-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	45	6.2	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluoropentanoic acid (PFPeA)	23	3.1	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluorohexanoic acid (PFHxA)	27	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluoroheptanoic acid (PFHpA)	12	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluorooctanoic acid (PFOA)	46	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluorononanoic acid (PFNA)	29	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluorobutanesulfonic acid (PFBS)	3.7	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluoropentanesulfonic acid (PFPeS)	3.1	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluorohexanesulfonic acid (PFHxS)	8.9	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluorooctanesulfonic acid (PFOS)	15	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.2	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.2	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.2	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
N-EtFOSAA (NEtFOSAA)	2.6	1.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	16	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.2	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.2	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
9Cl-PF3ONS (F53B Minor)	ND	6.2	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
11Cl-PF3OUDS (F53B Major)	ND	6.2	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.8	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	39	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: PD-CP-00-030425

Sampled: 3/4/2025 10:00

Sample ID: 25C0124-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:05	CML
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C4-PFBA	90.0	5-130						3/6/25 10:05	
13C5-PFPeA	88.8	40-130						3/6/25 10:05	
13C5-PFHxA	93.3	40-130						3/6/25 10:05	
13C4-PFHpA	102	40-130						3/6/25 10:05	
13C8-PFOA	91.0	40-130						3/6/25 10:05	
13C9-PFNA	93.9	40-130						3/6/25 10:05	
13C6-PFDA	95.3	40-130						3/6/25 10:05	
13C7-PFUnA	98.4	30-130						3/6/25 10:05	
13C2-PFDoA	84.7	10-130						3/6/25 10:05	
13C2-PFTeDA	90.3	10-130						3/6/25 10:05	
13C3-PFBS	105	40-135						3/6/25 10:05	
13C3-PFHxS	93.6	40-130						3/6/25 10:05	
13C8-PFOS	89.2	40-130						3/6/25 10:05	
13C2-4:2FTS	120	40-200						3/6/25 10:05	
13C2-6:2FTS	69.8	40-200						3/6/25 10:05	
13C2-8:2FTS	83.8	40-300						3/6/25 10:05	
13C8-PFOSA	79.5	40-130						3/6/25 10:05	
D3-NMeFOSA	68.2	10-130						3/6/25 10:05	
D5-NEtFOSA	68.2	10-130						3/6/25 10:05	
D3-NMeFOSAA	89.6	40-170						3/6/25 10:05	
D5-NEtFOSAA	85.2	25-135						3/6/25 10:05	
D7-NMeFOSE	75.0	10-130						3/6/25 10:05	
D9-NEtFOSE	74.5	10-130						3/6/25 10:05	
13C3-HFPO-DA	95.6	40-130						3/6/25 10:05	



Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: PD-CP-00-030425

Sampled: 3/4/2025 10:00

Sample ID: 25C0124-03

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	130	5.0	mg/L	5	H-04	EPA 300.0	4/3/25	4/3/25 23:03	NRH
Cyanide	ND	0.010	mg/L	1		SW-846 9014	3/17/25	3/18/25 10:35	DET
Fluoride	0.10	0.10	mg/L	1		EPA 300.0	3/25/25	3/25/25 3:54	ML3
Hexavalent Chromium	ND	0.0040	mg/L	1	H-01	SW-846 7196A	3/5/25	3/5/25 18:45	JF
Sulfate	20	1.0	mg/L	1	MS-07A	EPA 300.0	3/25/25	3/25/25 3:54	ML3
Total Kjeldahl Nitrogen	4.5	1.0	mg/L	1		SM19-24 4500-N Org B,C-NH3 C	3/28/25	3/29/25 13:47	EDS



Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: PD-CP-00-030425

Sampled: 3/4/2025 10:00

Sample ID: 25C0124-03

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	210	10	mg/L	1		SM21-24 2540C	3/6/25	3/6/25 12:49	LL

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: PD-CP-01-030425

Sampled: 3/4/2025 10:00

Sample ID: 25C0124-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	3/5/25	3/6/25 12:00	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: PD-CP-01-030425

Sampled: 3/4/2025 10:00

Sample ID: 25C0124-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:00	EEH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	101	70-130							
Toluene-d8	96.1	70-130							
4-Bromofluorobenzene	107	70-130							



Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: PD-CP-01-030425

Sampled: 3/4/2025 10:00

Sample ID: 25C0124-04

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	3/5/25	3/6/25 12:00	EEH

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: PD-CP-01-030425

Sampled: 3/4/2025 10:00

Sample ID: 25C0124-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	18	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Atrazine	ND	18	µg/L	1	V-05	SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Benzaldehyde	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Biphenyl	ND	18	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Caprolactam	ND	8.9	µg/L	1	L-04, V-05	SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Acenaphthene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Acenaphthylene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Acetophenone	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Aniline	ND	18	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Anthracene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Benzo(a)anthracene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Benzo(a)pyrene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Benzo(b)fluoranthene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Benzo(g,h,i)perylene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Benzo(k)fluoranthene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Bis(2-chloroethoxy)methane	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Bis(2-chloroethyl)ether	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
2,2'-oxybis(1-Chloropropane)	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Bis(2-Ethylhexyl)phthalate	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
4-Bromophenylphenylether	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Butylbenzylphthalate	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Carbazole	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
4-Chloroaniline	ND	8.9	µg/L	1	V-05	SW-846 8270E	3/5/25	3/6/25 12:03	BGL
4-Chloro-3-methylphenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
2-Chloronaphthalene	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
2-Chlorophenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
4-Chlorophenylphenylether	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Chrysene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Dibenz(a,h)anthracene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Dibenzofuran	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Di-n-butylphthalate	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
3,3-Dichlorobenzidine	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
2,4-Dichlorophenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Diethylphthalate	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
2,4-Dimethylphenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Dimethylphthalate	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
4,6-Dinitro-2-methylphenol	ND	18	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
2,4-Dinitrophenol	ND	8.9	µg/L	1	V-04	SW-846 8270E	3/5/25	3/6/25 12:03	BGL
2,4-Dinitrotoluene	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
2,6-Dinitrotoluene	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Di-n-octylphthalate	ND	8.9	µg/L	1	V-04	SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Fluoranthene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Fluorene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Hexachlorobenzene	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: PD-CP-01-030425

Sampled: 3/4/2025 10:00

Sample ID: 25C0124-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Hexachlorocyclopentadiene	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Hexachloroethane	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Indeno(1,2,3-cd)pyrene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Isophorone	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
1-Methylnaphthalene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
2-Methylnaphthalene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
2-Methylphenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
3/4-Methylphenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Naphthalene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
2-Nitroaniline	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
3-Nitroaniline	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
4-Nitroaniline	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Nitrobenzene	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
2-Nitrophenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
4-Nitrophenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
N-Nitrosodi-n-propylamine	ND	8.9	µg/L	1	V-05	SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Pentachlorophenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Phenanthrene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Phenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Pyrene	ND	4.4	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
Pyridine	ND	18	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
1,2,4,5-Tetrachlorobenzene	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
2,4,5-Trichlorophenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL
2,4,6-Trichlorophenol	ND	8.9	µg/L	1		SW-846 8270E	3/5/25	3/6/25 12:03	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	38.3	15-110	
Phenol-d6	24.0	15-110	
Nitrobenzene-d5	73.5	30-130	
2-Fluorobiphenyl	75.4	30-130	
2,4,6-Tribromophenol	56.4	15-110	
p-Terphenyl-d14	77.9	30-130	

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: PD-CP-01-030425

Sampled: 3/4/2025 10:00

Sample ID: 25C0124-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	45	6.1	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluoropentanoic acid (PFPeA)	25	3.0	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluorohexanoic acid (PFHxA)	25	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluoroheptanoic acid (PFHpA)	13	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluorooctanoic acid (PFOA)	48	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluorononanoic acid (PFNA)	30	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluorodecanoic acid (PFDA)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluorododecanoic acid (PFDoA)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluorobutanesulfonic acid (PFBS)	4.0	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluoropentanesulfonic acid (PFPeS)	2.9	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluorohexanesulfonic acid (PFHxS)	9.2	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluorooctanesulfonic acid (PFOS)	15	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.1	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.1	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.1	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
N-MeFOSAA (NMeFOSAA)	ND	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
N-EtFOSAA (NEtFOSAA)	2.1	1.5	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	15	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.1	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.1	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
9Cl-PF3ONS (F53B Minor)	ND	6.1	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
11Cl-PF3OUDS (F53B Major)	ND	6.1	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.6	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	38	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	38	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	3.0	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: PD-CP-01-030425

Sampled: 3/4/2025 10:00

Sample ID: 25C0124-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.0	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	ng/L	1		Draft Method 1633	3/5/25	3/6/25 10:14	CML
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
13C4-PFBA	90.6	5-130						3/6/25 10:14	
13C5-PFPeA	87.0	40-130						3/6/25 10:14	
13C5-PFHxA	93.3	40-130						3/6/25 10:14	
13C4-PFHpA	98.3	40-130						3/6/25 10:14	
13C8-PFOA	94.7	40-130						3/6/25 10:14	
13C9-PFNA	99.1	40-130						3/6/25 10:14	
13C6-PFDA	94.9	40-130						3/6/25 10:14	
13C7-PFUnA	107	30-130						3/6/25 10:14	
13C2-PFDoA	91.2	10-130						3/6/25 10:14	
13C2-PFTeDA	91.8	10-130						3/6/25 10:14	
13C3-PFBS	105	40-135						3/6/25 10:14	
13C3-PFHxS	90.5	40-130						3/6/25 10:14	
13C8-PFOS	94.4	40-130						3/6/25 10:14	
13C2-4:2FTS	127	40-200						3/6/25 10:14	
13C2-6:2FTS	71.3	40-200						3/6/25 10:14	
13C2-8:2FTS	85.9	40-300						3/6/25 10:14	
13C8-PFOSA	82.7	40-130						3/6/25 10:14	
D3-NMeFOSA	66.7	10-130						3/6/25 10:14	
D5-NEtFOSA	65.8	10-130						3/6/25 10:14	
D3-NMeFOSAA	90.6	40-170						3/6/25 10:14	
D5-NEtFOSAA	85.0	25-135						3/6/25 10:14	
D7-NMeFOSE	73.5	10-130						3/6/25 10:14	
D9-NEtFOSE	73.2	10-130						3/6/25 10:14	
13C3-HFPO-DA	93.3	40-130						3/6/25 10:14	



Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: PD-CP-01-030425

Sampled: 3/4/2025 10:00

Sample ID: 25C0124-04

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	130	5.0	mg/L	5	H-04	EPA 300.0	4/3/25	4/4/25 0:10	NRH
Cyanide	ND	0.010	mg/L	1	Z-01	SW-846 9014	3/10/25	3/11/25 7:00	LL
Fluoride	0.10	0.10	mg/L	1		EPA 300.0	3/25/25	3/25/25 5:01	ML3
Hexavalent Chromium	ND	0.0040	mg/L	1	H-01	SW-846 7196A	3/5/25	3/5/25 18:45	JF
Sulfate	20	1.0	mg/L	1		EPA 300.0	3/25/25	3/25/25 5:01	ML3
Total Kjeldahl Nitrogen	4.5	1.0	mg/L	1		SM19-24 4500-N Org B,C-NH3 C	3/28/25	3/29/25 13:50	EDS



Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: PD-CP-01-030425

Sampled: 3/4/2025 10:00

Sample ID: 25C0124-04

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	240	10	mg/L	1		SM21-24 2540C	3/6/25	3/6/25 12:49	LL

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: RW3-CP-00-030425

Sampled: 3/4/2025 13:30

Sample ID: 25C0124-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	3/5/25	3/6/25 12:26	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
cis-1,2-Dichloroethylene	1.1	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: RW3-CP-00-030425

Sampled: 3/4/2025 13:30

Sample ID: 25C0124-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Tetrachloroethylene	4.8	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Trichloroethylene	39	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:26	EEH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	102	70-130						3/6/25 12:26	
Toluene-d8	94.6	70-130						3/6/25 12:26	
4-Bromofluorobenzene	109	70-130						3/6/25 12:26	



Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: RW3-CP-00-030425

Sampled: 3/4/2025 13:30

Sample ID: 25C0124-05

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	3/5/25	3/6/25 12:26	EEH



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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: RW3-CP-00-030425

Sampled: 3/4/2025 13:30

Sample ID: 25C0124-05

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	8.9	mg/L	1	DL-16	SM21-24 2540D	3/7/25	3/7/25 13:09	LL



Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: RW3-CP-01-030425

Sampled: 3/4/2025 13:30

Sample ID: 25C0124-06

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	2.5	mg/L	1		SM21-24 2540D	3/7/25	3/7/25 13:09	LL

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: RW-4-CP-01-030425

Sampled: 3/4/2025 13:50

Sample ID: 25C0124-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Benzene	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
cis-1,2-Dichloroethylene	2.4	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: RW-4-CP-01-030425

Sampled: 3/4/2025 13:50

Sample ID: 25C0124-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Tetrachloroethylene	12	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Trichloroethylene	88	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	3/7/25	3/7/25 19:29	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	95.7	70-130							
Toluene-d8	101	70-130							
4-Bromofluorobenzene	99.5	70-130							



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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: RW-4-CP-01-030425

Sampled: 3/4/2025 13:50

Sample ID: 25C0124-07

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	3/7/25	3/7/25 19:29	LBD



Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: RW-4-CP-01-030425

Sampled: 3/4/2025 13:50

Sample ID: 25C0124-07

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	8.3	mg/L	1	DL-16	SM21-24 2540D	3/7/25	3/7/25 13:09	LL

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: RW-5-CP-01-030425

Sampled: 3/4/2025 14:10

Sample ID: 25C0124-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	3/5/25	3/6/25 12:52	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
1,1-Dichloroethylene	2.2	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
cis-1,2-Dichloroethylene	2.3	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: RW-5-CP-01-030425

Sampled: 3/4/2025 14:10

Sample ID: 25C0124-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Tetrachloroethylene	11	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Trichloroethylene	45	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 12:52	EEH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	98.1	70-130						3/6/25 12:52	
Toluene-d8	99.6	70-130						3/6/25 12:52	
4-Bromofluorobenzene	105	70-130						3/6/25 12:52	



Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: RW-5-CP-01-030425

Sampled: 3/4/2025 14:10

Sample ID: 25C0124-08

Sample Matrix: Ground Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	3/5/25	3/6/25 12:52	EEH



Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: RW-5-CP-01-030425

Sampled: 3/4/2025 14:10

Sample ID: 25C0124-08

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	8.6	mg/L	1	DL-16	SM21-24 2540D	3/7/25	3/7/25 13:09	LL

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: TB-030425

Sampled: 3/4/2025 00:00

Sample ID: 25C0124-09

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	3/5/25	3/6/25 10:08	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: TB-030425

Sampled: 3/4/2025 00:00

Sample ID: 25C0124-09

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	3/5/25	3/6/25 10:08	EEH
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	97.4	70-130						3/6/25 10:08	
Toluene-d8	98.0	70-130						3/6/25 10:08	
4-Bromofluorobenzene	106	70-130						3/6/25 10:08	



Pace Analytical Services, LLC - East Longmeadow, Ma

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

Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0124

Date Received: 3/5/2025

Field Sample #: TB-030425

Sampled: 3/4/2025 00:00

Sample ID: 25C0124-09

Sample Matrix: Trip Blank Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260D	3/5/25	3/6/25 10:08	EEH

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Sample Extraction Data

Prep Method:EPA 1633 **Analytical Method:**Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C0124-01 [ASF-CP-00-030423]	B400204	534	4.00	03/05/25
25C0124-02 [ASF-CP-01-030425]	B400204	558	4.00	03/05/25
25C0124-03 [PD-CP-00-030425]	B400204	515	4.00	03/05/25
25C0124-04 [PD-CP-01-030425]	B400204	528	4.00	03/05/25

Prep Method:EPA 300.0 **Analytical Method:**EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C0124-03 [PD-CP-00-030425]	B401495	10.0	10.0	03/25/25
25C0124-04 [PD-CP-01-030425]	B401495	10.0	10.0	03/25/25

Prep Method:EPA 300.0 **Analytical Method:**EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C0124-03 [PD-CP-00-030425]	B402286	10.0	10.0	04/03/25
25C0124-04 [PD-CP-01-030425]	B402286	10.0	10.0	04/03/25

Prep Method:SM4500 N Org B C **Analytical Method:**SM19-24 4500-N Org B,C-NI

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C0124-03 [PD-CP-00-030425]	B401843	25.0	25.0	03/28/25
25C0124-04 [PD-CP-01-030425]	B401843	25.0	25.0	03/28/25

SM21-24 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
25C0124-03 [PD-CP-00-030425]	B400233	50.0	03/06/25
25C0124-04 [PD-CP-01-030425]	B400233	50.0	03/06/25

SM21-24 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
25C0124-01 [ASF-CP-00-030423]	B400364	1000	03/07/25
25C0124-05 [RW3-CP-00-030425]	B400364	280	03/07/25
25C0124-06 [RW3-CP-01-030425]	B400364	1000	03/07/25
25C0124-07 [RW-4-CP-01-030425]	B400364	300	03/07/25
25C0124-08 [RW-5-CP-01-030425]	B400364	290	03/07/25

SW-846 7196A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C0124-03 [PD-CP-00-030425]	B400249	50.0	50.0	03/05/25
25C0124-04 [PD-CP-01-030425]	B400249	50.0	50.0	03/05/25

Sample Extraction Data**Prep Method:SW-846 5030B Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C0124-01 [ASF-CP-00-030423]	B400231	5	5.00	03/05/25
25C0124-03 [PD-CP-00-030425]	B400231	5	5.00	03/05/25
25C0124-04 [PD-CP-01-030425]	B400231	5	5.00	03/05/25
25C0124-05 [RW3-CP-00-030425]	B400231	5	5.00	03/05/25
25C0124-08 [RW-5-CP-01-030425]	B400231	5	5.00	03/05/25
25C0124-09 [TB-030425]	B400231	5	5.00	03/05/25

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C0124-07 [RW-4-CP-01-030425]	B400382	5	5.00	03/07/25

Prep Method:SW-846 3510C Analytical Method:SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C0124-01 [ASF-CP-00-030423]	B400223	115	1.00	03/05/25
25C0124-03 [PD-CP-00-030425]	B400223	113	1.00	03/05/25
25C0124-04 [PD-CP-01-030425]	B400223	113	1.00	03/05/25

Prep Method:SW-846 3510C Analytical Method:SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C0124-01 [ASF-CP-00-030423]	B400243	1050	1.00	03/05/25
25C0124-02 [ASF-CP-01-030425]	B400243	1050	1.00	03/05/25

SW-846 9014

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C0124-04 [PD-CP-01-030425]	B400578	50.0	50.0	03/10/25

Prep Method:SW-846 9010C Analytical Method:SW-846 9014

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C0124-03 [PD-CP-00-030425]	B400954	50.0	50.0	03/17/25

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 B400231 - SW-846 5030B

Blank (B400231-BLK1)

Prepared: 03/05/25 Analyzed: 03/06/25

Acetone	ND	50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							V-05
2-Butanone (MEK)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	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							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	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							
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							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Ethylbenzene	ND	1.0	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							
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							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							

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	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B400231 - SW-846 5030B										
Blank (B400231-BLK1)										
Prepared: 03/05/25 Analyzed: 03/06/25										
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	25.1		µg/L	25.00		100	70-130			
Surrogate: Toluene-d8	24.2		µg/L	25.00		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	26.0		µg/L	25.00		104	70-130			
LCS (B400231-BS1)										
Prepared: 03/05/25 Analyzed: 03/06/25										
Acetone	107	50	µg/L	100.0		107	70-160			†
Benzene	8.87	1.0	µg/L	10.00		88.7	70-130			
Bromochloromethane	10.4	1.0	µg/L	10.00		104	70-130			
Bromodichloromethane	11.6	0.50	µg/L	10.00		116	70-130			
Bromoform	12.0	1.0	µg/L	10.00		120	70-130			
Bromomethane	7.43	2.0	µg/L	10.00		74.3	40-160		V-05	†
2-Butanone (MEK)	115	20	µg/L	100.0		115	40-160			†
n-Butylbenzene	9.11	1.0	µg/L	10.00		91.1	70-130			
sec-Butylbenzene	8.74	1.0	µg/L	10.00		87.4	70-130			
tert-Butylbenzene	8.63	1.0	µg/L	10.00		86.3	70-130			
Carbon Disulfide	88.5	5.0	µg/L	100.0		88.5	70-130			
Carbon Tetrachloride	11.5	5.0	µg/L	10.00		115	70-130			
Chlorobenzene	10.0	1.0	µg/L	10.00		100	70-130			
Chlorodibromomethane	12.2	0.50	µg/L	10.00		122	70-130		V-20	
Chloroethane	8.19	2.0	µg/L	10.00		81.9	70-130			
Chloroform	10.3	2.0	µg/L	10.00		103	70-130			
Chloromethane	8.19	2.0	µg/L	10.00		81.9	40-160			†
Cyclohexane	9.12	5.0	µg/L	10.00		91.2	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	12.1	5.0	µg/L	10.00		121	70-130		V-20	
1,2-Dibromoethane (EDB)	12.0	0.50	µg/L	10.00		120	70-130			
1,2-Dichlorobenzene	9.53	1.0	µg/L	10.00		95.3	70-130			
1,3-Dichlorobenzene	9.49	1.0	µg/L	10.00		94.9	70-130			
1,4-Dichlorobenzene	9.41	1.0	µg/L	10.00		94.1	70-130			
Dichlorodifluoromethane (Freon 12)	9.70	2.0	µg/L	10.00		97.0	40-160			†
1,1-Dichloroethane	9.46	1.0	µg/L	10.00		94.6	70-130			
1,2-Dichloroethane	10.9	1.0	µg/L	10.00		109	70-130			
1,1-Dichloroethylene	9.72	1.0	µg/L	10.00		97.2	70-130			
cis-1,2-Dichloroethylene	9.66	1.0	µg/L	10.00		96.6	70-130			
trans-1,2-Dichloroethylene	9.42	1.0	µg/L	10.00		94.2	70-130			
1,2-Dichloropropane	9.37	1.0	µg/L	10.00		93.7	70-130			
cis-1,3-Dichloropropene	10.4	0.50	µg/L	10.00		104	70-130			
trans-1,3-Dichloropropene	11.5	0.50	µg/L	10.00		115	70-130			
Ethylbenzene	9.80	1.0	µg/L	10.00		98.0	70-130			
2-Hexanone (MBK)	133	10	µg/L	100.0		133	70-160		V-20	†
Isopropylbenzene (Cumene)	9.74	1.0	µg/L	10.00		97.4	70-130			
p-Isopropyltoluene (p-Cymene)	9.12	1.0	µg/L	10.00		91.2	70-130			
Methyl Acetate	12.6	1.0	µg/L	10.00		126	70-130			V-20
Methyl tert-Butyl Ether (MTBE)	10.3	1.0	µg/L	10.00		103	70-130			

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	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B400231 - SW-846 5030B
LCS (B400231-BS1)

Prepared: 03/05/25 Analyzed: 03/06/25

Methyl Cyclohexane	10.3	1.0	µg/L	10.00		103	70-130			
Methylene Chloride	9.77	5.0	µg/L	10.00		97.7	70-130			
4-Methyl-2-pentanone (MIBK)	134	10	µg/L	100.0		134	70-160			V-20 †
Naphthalene	10.4	2.0	µg/L	10.00		104	40-130			†
n-Propylbenzene	9.68	1.0	µg/L	10.00		96.8	70-130			
Styrene	9.73	1.0	µg/L	10.00		97.3	70-130			
1,1,2,2-Tetrachloroethane	10.9	0.50	µg/L	10.00		109	70-130			
Tetrachloroethylene	11.4	1.0	µg/L	10.00		114	70-130			
Toluene	10.2	1.0	µg/L	10.00		102	70-130			
1,2,3-Trichlorobenzene	10.6	5.0	µg/L	10.00		106	70-130			
1,2,4-Trichlorobenzene	10.3	1.0	µg/L	10.00		103	70-130			
1,1,1-Trichloroethane	11.4	1.0	µg/L	10.00		114	70-130			
1,1,2-Trichloroethane	11.1	1.0	µg/L	10.00		111	70-130			
Trichloroethylene	10.7	1.0	µg/L	10.00		107	70-130			
Trichlorofluoromethane (Freon 11)	10.9	2.0	µg/L	10.00		109	70-130			
1,2,3-Trichloropropane	11.8	2.0	µg/L	10.00		118	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2	1.0	µg/L	10.00		102	70-130			
1,2,4-Trimethylbenzene	9.09	1.0	µg/L	10.00		90.9	70-130			
1,3,5-Trimethylbenzene	10.1	1.0	µg/L	10.00		101	70-130			
Vinyl Chloride	8.68	2.0	µg/L	10.00		86.8	40-160			†
m+p Xylene	19.6	2.0	µg/L	20.00		98.0	70-130			
o-Xylene	10.0	1.0	µg/L	10.00		100	70-130			
Xylenes (total)	29.6	1.0	µg/L	30.00		98.8	0-200			
Surrogate: 1,2-Dichloroethane-d4	25.6		µg/L	25.00		102	70-130			
Surrogate: Toluene-d8	24.4		µg/L	25.00		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	27.1		µg/L	25.00		108	70-130			

LCS Dup (B400231-BS1)

Prepared: 03/05/25 Analyzed: 03/06/25

Acetone	116	50	µg/L	100.0		116	70-160	7.98	25	†
Benzene	9.31	1.0	µg/L	10.00		93.1	70-130	4.84	25	
Bromochloromethane	10.6	1.0	µg/L	10.00		106	70-130	2.57	25	
Bromodichloromethane	12.3	0.50	µg/L	10.00		123	70-130	6.20	25	
Bromoform	12.6	1.0	µg/L	10.00		126	70-130	4.62	25	
Bromomethane	7.67	2.0	µg/L	10.00		76.7	40-160	3.18	25	V-05 †
2-Butanone (MEK)	120	20	µg/L	100.0		120	40-160	3.97	25	†
n-Butylbenzene	9.61	1.0	µg/L	10.00		96.1	70-130	5.34	25	
sec-Butylbenzene	9.25	1.0	µg/L	10.00		92.5	70-130	5.67	25	
tert-Butylbenzene	9.44	1.0	µg/L	10.00		94.4	70-130	8.97	25	
Carbon Disulfide	88.9	5.0	µg/L	100.0		88.9	70-130	0.440	25	
Carbon Tetrachloride	11.6	5.0	µg/L	10.00		116	70-130	0.950	25	
Chlorobenzene	10.2	1.0	µg/L	10.00		102	70-130	2.27	25	
Chlorodibromomethane	12.4	0.50	µg/L	10.00		124	70-130	1.87	25	V-20
Chloroethane	8.00	2.0	µg/L	10.00		80.0	70-130	2.35	25	
Chloroform	10.1	2.0	µg/L	10.00		101	70-130	2.16	25	
Chloromethane	8.56	2.0	µg/L	10.00		85.6	40-160	4.42	25	†
Cyclohexane	9.20	5.0	µg/L	10.00		92.0	70-130	0.873	25	
1,2-Dibromo-3-chloropropane (DBCP)	13.8	5.0	µg/L	10.00		138 *	70-130	12.9	25	L-07, V-20
1,2-Dibromoethane (EDB)	12.6	0.50	µg/L	10.00		126	70-130	4.96	25	
1,2-Dichlorobenzene	9.86	1.0	µg/L	10.00		98.6	70-130	3.40	25	
1,3-Dichlorobenzene	9.94	1.0	µg/L	10.00		99.4	70-130	4.63	25	
1,4-Dichlorobenzene	9.74	1.0	µg/L	10.00		97.4	70-130	3.45	25	
Dichlorodifluoromethane (Freon 12)	10.4	2.0	µg/L	10.00		104	40-160	6.77	25	†

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	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B400231 - SW-846 5030B										
LCS Dup (B400231-BS01)										
Prepared: 03/05/25 Analyzed: 03/06/25										
1,1-Dichloroethane	9.85	1.0	µg/L	10.00		98.5	70-130	4.04	25	
1,2-Dichloroethane	10.9	1.0	µg/L	10.00		109	70-130	0.550	25	
1,1-Dichloroethylene	9.90	1.0	µg/L	10.00		99.0	70-130	1.83	25	
cis-1,2-Dichloroethylene	9.91	1.0	µg/L	10.00		99.1	70-130	2.55	25	
trans-1,2-Dichloroethylene	9.55	1.0	µg/L	10.00		95.5	70-130	1.37	25	
1,2-Dichloropropane	9.87	1.0	µg/L	10.00		98.7	70-130	5.20	25	
cis-1,3-Dichloropropene	11.1	0.50	µg/L	10.00		111	70-130	6.05	25	
trans-1,3-Dichloropropene	11.4	0.50	µg/L	10.00		114	70-130	0.788	25	
Ethylbenzene	10.1	1.0	µg/L	10.00		101	70-130	3.02	25	
2-Hexanone (MBK)	144	10	µg/L	100.0		144	70-160	7.94	25	V-20 †
Isopropylbenzene (Cumene)	10.3	1.0	µg/L	10.00		103	70-130	5.39	25	
p-Isopropyltoluene (p-Cymene)	9.52	1.0	µg/L	10.00		95.2	70-130	4.29	25	
Methyl Acetate	13.3	1.0	µg/L	10.00		133 *	70-130	5.24	25	L-07, V-20
Methyl tert-Butyl Ether (MTBE)	10.8	1.0	µg/L	10.00		108	70-130	5.04	25	
Methyl Cyclohexane	9.78	1.0	µg/L	10.00		97.8	70-130	5.37	25	
Methylene Chloride	10.1	5.0	µg/L	10.00		101	70-130	3.12	25	
4-Methyl-2-pentanone (MIBK)	144	10	µg/L	100.0		144	70-160	6.82	25	V-20 †
Naphthalene	11.1	2.0	µg/L	10.00		111	40-130	6.31	25	†
n-Propylbenzene	10.1	1.0	µg/L	10.00		101	70-130	3.95	25	
Styrene	9.99	1.0	µg/L	10.00		99.9	70-130	2.64	25	
1,1,2,2-Tetrachloroethane	11.8	0.50	µg/L	10.00		118	70-130	8.02	25	
Tetrachloroethylene	11.5	1.0	µg/L	10.00		115	70-130	0.788	25	
Toluene	10.1	1.0	µg/L	10.00		101	70-130	1.08	25	
1,2,3-Trichlorobenzene	11.1	5.0	µg/L	10.00		111	70-130	4.72	25	
1,2,4-Trichlorobenzene	10.2	1.0	µg/L	10.00		102	70-130	0.976	25	
1,1,1-Trichloroethane	11.5	1.0	µg/L	10.00		115	70-130	1.40	25	
1,1,2-Trichloroethane	11.4	1.0	µg/L	10.00		114	70-130	2.67	25	
Trichloroethylene	11.3	1.0	µg/L	10.00		113	70-130	5.09	25	
Trichlorofluoromethane (Freon 11)	11.4	2.0	µg/L	10.00		114	70-130	5.03	25	
1,2,3-Trichloropropane	12.3	2.0	µg/L	10.00		123	70-130	3.82	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.7	1.0	µg/L	10.00		107	70-130	4.50	25	
1,2,4-Trimethylbenzene	9.17	1.0	µg/L	10.00		91.7	70-130	0.876	25	
1,3,5-Trimethylbenzene	9.99	1.0	µg/L	10.00		99.9	70-130	1.39	25	
Vinyl Chloride	8.66	2.0	µg/L	10.00		86.6	40-160	0.231	25	†
m+p Xylene	20.8	2.0	µg/L	20.00		104	70-130	6.03	25	
o-Xylene	10.4	1.0	µg/L	10.00		104	70-130	3.62	25	
Xylenes (total)	31.2	1.0	µg/L	30.00		104	0-200	5.22		
Surrogate: 1,2-Dichloroethane-d4	24.4		µg/L	25.00		97.5	70-130			
Surrogate: Toluene-d8	24.4		µg/L	25.00		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	27.3		µg/L	25.00		109	70-130			
Matrix Spike (B400231-MS1)										
Source: 25C0124-03 Prepared: 03/05/25 Analyzed: 03/06/25										
Acetone	99.3	50	µg/L	100.0	3.50	95.8	70-130			
Benzene	9.24	1.0	µg/L	10.00	ND	92.4	70-130			
Bromochloromethane	10.3	1.0	µg/L	10.00	ND	103	70-130			
Bromodichloromethane	11.6	0.50	µg/L	10.00	ND	116	70-130			
Bromoform	12.7	1.0	µg/L	10.00	ND	127	70-130			
Bromomethane	7.58	2.0	µg/L	10.00	ND	75.8	70-130			V-05
2-Butanone (MEK)	105	20	µg/L	100.0	ND	105	70-130			
n-Butylbenzene	10.4	1.0	µg/L	10.00	ND	104	70-130			
sec-Butylbenzene	10.2	1.0	µg/L	10.00	ND	102	70-130			
tert-Butylbenzene	10.6	1.0	µg/L	10.00	ND	106	70-130			

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	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B400231 - SW-846 5030B										
Matrix Spike (B400231-MS1)	Source: 25C0124-03			Prepared: 03/05/25 Analyzed: 03/06/25						
Carbon Disulfide	91.6	5.0	µg/L	100.0	ND	91.6	70-130			
Carbon Tetrachloride	12.3	5.0	µg/L	10.00	ND	123	70-130			
Chlorobenzene	11.5	1.0	µg/L	10.00	ND	115	70-130			
Chlorodibromomethane	11.7	0.50	µg/L	10.00	ND	117	70-130			V-20
Chloroethane	8.48	2.0	µg/L	10.00	ND	84.8	70-130			
Chloroform	10.1	2.0	µg/L	10.00	ND	101	70-130			
Chloromethane	8.67	2.0	µg/L	10.00	ND	86.7	70-130			
Cyclohexane	9.64	5.0	µg/L	10.00	ND	96.4	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	13.2	5.0	µg/L	10.00	ND	132 *	70-130			MS-22, V-20
1,2-Dibromoethane (EDB)	11.9	0.50	µg/L	10.00	ND	119	70-130			
1,2-Dichlorobenzene	11.0	1.0	µg/L	10.00	ND	110	70-130			
1,3-Dichlorobenzene	10.9	1.0	µg/L	10.00	ND	109	70-130			
1,4-Dichlorobenzene	10.7	1.0	µg/L	10.00	ND	107	70-130			
Dichlorodifluoromethane (Freon 12)	10.3	2.0	µg/L	10.00	ND	103	70-130			
1,1-Dichloroethane	9.87	1.0	µg/L	10.00	ND	98.7	70-130			
1,2-Dichloroethane	10.8	1.0	µg/L	10.00	ND	108	70-130			
1,1-Dichloroethylene	9.70	1.0	µg/L	10.00	ND	97.0	70-130			
cis-1,2-Dichloroethylene	9.94	1.0	µg/L	10.00	ND	99.4	70-130			
trans-1,2-Dichloroethylene	9.49	1.0	µg/L	10.00	ND	94.9	70-130			
1,2-Dichloropropane	9.72	1.0	µg/L	10.00	ND	97.2	70-130			
cis-1,3-Dichloropropene	10.3	0.50	µg/L	10.00	ND	103	70-130			
trans-1,3-Dichloropropene	11.0	0.50	µg/L	10.00	ND	110	70-130			
Ethylbenzene	11.5	1.0	µg/L	10.00	ND	115	70-130			
2-Hexanone (MBK)	123	10	µg/L	100.0	ND	123	70-130			V-20
Isopropylbenzene (Cumene)	11.5	1.0	µg/L	10.00	ND	115	70-130			
p-Isopropyltoluene (p-Cymene)	10.4	1.0	µg/L	10.00	ND	104	70-130			
Methyl Acetate	9.88	1.0	µg/L	10.00	ND	98.8	70-130			V-20
Methyl tert-Butyl Ether (MTBE)	9.79	1.0	µg/L	10.00	ND	97.9	70-130			
Methyl Cyclohexane	10.1	1.0	µg/L	10.00	ND	101	70-130			
Methylene Chloride	9.56	5.0	µg/L	10.00	ND	95.6	70-130			
4-Methyl-2-pentanone (MIBK)	125	10	µg/L	100.0	ND	125	70-130			V-20
Naphthalene	11.4	2.0	µg/L	10.00	ND	114	70-130			
n-Propylbenzene	11.5	1.0	µg/L	10.00	ND	115	70-130			
Styrene	10.7	1.0	µg/L	10.00	ND	107	70-130			
1,1,1,2-Tetrachloroethane	12.1	0.50	µg/L	10.00	ND	121	70-130			
Tetrachloroethylene	12.2	1.0	µg/L	10.00	ND	122	70-130			
Toluene	10.4	1.0	µg/L	10.00	ND	104	70-130			
1,2,3-Trichlorobenzene	11.7	5.0	µg/L	10.00	ND	117	70-130			
1,2,4-Trichlorobenzene	11.4	1.0	µg/L	10.00	ND	114	70-130			
1,1,1-Trichloroethane	11.9	1.0	µg/L	10.00	ND	119	70-130			
1,1,2-Trichloroethane	11.5	1.0	µg/L	10.00	ND	115	70-130			
Trichloroethylene	11.5	1.0	µg/L	10.00	ND	115	70-130			
Trichlorofluoromethane (Freon 11)	12.0	2.0	µg/L	10.00	ND	120	70-130			
1,2,3-Trichloropropane	12.4	2.0	µg/L	10.00	ND	124	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6	1.0	µg/L	10.00	ND	106	70-130			
1,2,4-Trimethylbenzene	10.5	1.0	µg/L	10.00	ND	105	70-130			
1,3,5-Trimethylbenzene	11.6	1.0	µg/L	10.00	ND	116	70-130			
Vinyl Chloride	9.00	2.0	µg/L	10.00	ND	90.0	70-130			
m+p Xylene	22.6	2.0	µg/L	20.00	ND	113	70-130			
o-Xylene	11.6	1.0	µg/L	10.00	ND	116	70-130			
Xylenes (total)	34.2	1.0	µg/L	30.00	ND	114	0-200			

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	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B400231 - SW-846 5030B										
Matrix Spike (B400231-MS1)		Source: 25C0124-03			Prepared: 03/05/25 Analyzed: 03/06/25					
Surrogate: 1,2-Dichloroethane-d4	27.4		µg/L	25.00		110	70-130			
Surrogate: Toluene-d8	23.9		µg/L	25.00		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	26.6		µg/L	25.00		106	70-130			
Matrix Spike Dup (B400231-MSD1)		Source: 25C0124-03			Prepared: 03/05/25 Analyzed: 03/06/25					
Acetone	99.5	50	µg/L	100.0	3.50	96.0	70-130	0.191	30	
Benzene	9.02	1.0	µg/L	10.00	ND	90.2	70-130	2.41	30	
Bromochloromethane	9.96	1.0	µg/L	10.00	ND	99.6	70-130	3.26	30	
Bromodichloromethane	10.7	0.50	µg/L	10.00	ND	107	70-130	8.27	30	
Bromoform	11.4	1.0	µg/L	10.00	ND	114	70-130	10.5	30	
Bromomethane	7.56	2.0	µg/L	10.00	ND	75.6	70-130	0.264	30	V-05
2-Butanone (MEK)	103	20	µg/L	100.0	ND	103	70-130	2.32	30	
n-Butylbenzene	9.95	1.0	µg/L	10.00	ND	99.5	70-130	4.52	30	
sec-Butylbenzene	10.2	1.0	µg/L	10.00	ND	102	70-130	0.687	30	
tert-Butylbenzene	10.0	1.0	µg/L	10.00	ND	100	70-130	6.10	30	
Carbon Disulfide	85.9	5.0	µg/L	100.0	ND	85.9	70-130	6.46	30	
Carbon Tetrachloride	11.5	5.0	µg/L	10.00	ND	115	70-130	6.73	30	
Chlorobenzene	10.8	1.0	µg/L	10.00	ND	108	70-130	6.35	30	
Chlorodibromomethane	11.1	0.50	µg/L	10.00	ND	111	70-130	5.25	30	V-20
Chloroethane	8.20	2.0	µg/L	10.00	ND	82.0	70-130	3.36	30	
Chloroform	9.89	2.0	µg/L	10.00	ND	98.9	70-130	2.20	30	
Chloromethane	8.42	2.0	µg/L	10.00	ND	84.2	70-130	2.93	30	
Cyclohexane	9.40	5.0	µg/L	10.00	ND	94.0	70-130	2.52	30	
1,2-Dibromo-3-chloropropane (DBCP)	12.9	5.0	µg/L	10.00	ND	129	70-130	1.84	30	V-20
1,2-Dibromoethane (EDB)	11.0	0.50	µg/L	10.00	ND	110	70-130	8.05	30	
1,2-Dichlorobenzene	10.4	1.0	µg/L	10.00	ND	104	70-130	5.69	30	
1,3-Dichlorobenzene	10.5	1.0	µg/L	10.00	ND	105	70-130	3.56	30	
1,4-Dichlorobenzene	10.2	1.0	µg/L	10.00	ND	102	70-130	4.39	30	
Dichlorodifluoromethane (Freon 12)	9.52	2.0	µg/L	10.00	ND	95.2	70-130	7.97	30	
1,1-Dichloroethane	9.46	1.0	µg/L	10.00	ND	94.6	70-130	4.24	30	
1,2-Dichloroethane	9.89	1.0	µg/L	10.00	ND	98.9	70-130	8.89	30	
1,1-Dichloroethylene	9.70	1.0	µg/L	10.00	ND	97.0	70-130	0.00	30	
cis-1,2-Dichloroethylene	9.58	1.0	µg/L	10.00	ND	95.8	70-130	3.69	30	
trans-1,2-Dichloroethylene	9.62	1.0	µg/L	10.00	ND	96.2	70-130	1.36	30	
1,2-Dichloropropane	9.20	1.0	µg/L	10.00	ND	92.0	70-130	5.50	30	
cis-1,3-Dichloropropene	9.41	0.50	µg/L	10.00	ND	94.1	70-130	8.64	30	
trans-1,3-Dichloropropene	9.94	0.50	µg/L	10.00	ND	99.4	70-130	10.6	30	
Ethylbenzene	10.5	1.0	µg/L	10.00	ND	105	70-130	8.93	30	
2-Hexanone (MBK)	119	10	µg/L	100.0	ND	119	70-130	3.18	30	V-20
Isopropylbenzene (Cumene)	10.4	1.0	µg/L	10.00	ND	104	70-130	9.77	30	
p-Isopropyltoluene (p-Cymene)	10.1	1.0	µg/L	10.00	ND	101	70-130	3.21	30	
Methyl Acetate	9.47	1.0	µg/L	10.00	ND	94.7	70-130	4.24	30	V-20
Methyl tert-Butyl Ether (MTBE)	9.70	1.0	µg/L	10.00	ND	97.0	70-130	0.924	30	
Methyl Cyclohexane	9.72	1.0	µg/L	10.00	ND	97.2	70-130	3.93	30	
Methylene Chloride	9.43	5.0	µg/L	10.00	ND	94.3	70-130	1.37	30	
4-Methyl-2-pentanone (MIBK)	121	10	µg/L	100.0	ND	121	70-130	3.30	30	V-20
Naphthalene	10.9	2.0	µg/L	10.00	ND	109	70-130	4.03	30	
n-Propylbenzene	10.2	1.0	µg/L	10.00	ND	102	70-130	12.4	30	
Styrene	9.73	1.0	µg/L	10.00	ND	97.3	70-130	9.78	30	
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.00	ND	108	70-130	11.0	30	
Tetrachloroethylene	10.9	1.0	µg/L	10.00	ND	109	70-130	11.7	30	
Toluene	9.55	1.0	µg/L	10.00	ND	95.5	70-130	8.90	30	

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 B400231 - SW-846 5030B

Matrix Spike Dup (B400231-MSD1)

Source: 25C0124-03

Prepared: 03/05/25 Analyzed: 03/06/25

1,2,3-Trichlorobenzene	11.2	5.0	µg/L	10.00	ND	112	70-130	5.07	30	
1,2,4-Trichlorobenzene	10.3	1.0	µg/L	10.00	ND	103	70-130	10.1	30	
1,1,1-Trichloroethane	11.1	1.0	µg/L	10.00	ND	111	70-130	7.14	30	
1,1,2-Trichloroethane	10.6	1.0	µg/L	10.00	ND	106	70-130	8.51	30	
Trichloroethylene	10.5	1.0	µg/L	10.00	ND	105	70-130	8.83	30	
Trichlorofluoromethane (Freon 11)	11.3	2.0	µg/L	10.00	ND	113	70-130	6.03	30	
1,2,3-Trichloropropane	11.8	2.0	µg/L	10.00	ND	118	70-130	4.94	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.95	1.0	µg/L	10.00	ND	99.5	70-130	6.70	30	
1,2,4-Trimethylbenzene	9.98	1.0	µg/L	10.00	ND	99.8	70-130	5.46	30	
1,3,5-Trimethylbenzene	10.6	1.0	µg/L	10.00	ND	106	70-130	9.91	30	
Vinyl Chloride	8.75	2.0	µg/L	10.00	ND	87.5	70-130	2.82	30	
m+p Xylene	21.3	2.0	µg/L	20.00	ND	106	70-130	5.93	20	
o-Xylene	10.3	1.0	µg/L	10.00	ND	103	70-130	12.5	30	
Xylenes (total)	31.5	1.0	µg/L	30.00	ND	105	0-200	8.12		
Surrogate: 1,2-Dichloroethane-d4	27.2		µg/L	25.00		109	70-130			
Surrogate: Toluene-d8	23.4		µg/L	25.00		93.8	70-130			
Surrogate: 4-Bromofluorobenzene	25.3		µg/L	25.00		101	70-130			

Batch B400382 - SW-846 5030B

Blank (B400382-BLK1)

Prepared & Analyzed: 03/07/25

Acetone	ND	50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
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							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	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							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	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							
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							
cis-1,3-Dichloropropene	ND	0.50	µg/L							

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	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B400382 - SW-846 5030B
Blank (B400382-BLK1)

Prepared & Analyzed: 03/07/25

trans-1,3-Dichloropropene	ND	0.50	µg/L							
Ethylbenzene	ND	1.0	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							
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							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-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	24.3		µg/L	25.00		97.0	70-130			
Surrogate: Toluene-d8	25.4		µg/L	25.00		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.1		µg/L	25.00		96.4	70-130			

LCS (B400382-BS1)

Prepared & Analyzed: 03/07/25

Acetone	94.1	50	µg/L	100.0		94.1	70-160			†
Benzene	10.6	1.0	µg/L	10.00		106	70-130			
Bromochloromethane	10.8	1.0	µg/L	10.00		108	70-130			
Bromodichloromethane	9.84	0.50	µg/L	10.00		98.4	70-130			
Bromoform	9.11	1.0	µg/L	10.00		91.1	70-130			
Bromomethane	12.1	2.0	µg/L	10.00		121	40-160			†
2-Butanone (MEK)	94.7	20	µg/L	100.0		94.7	40-160			†
n-Butylbenzene	10.3	1.0	µg/L	10.00		103	70-130			
sec-Butylbenzene	10.2	1.0	µg/L	10.00		102	70-130			
tert-Butylbenzene	10.1	1.0	µg/L	10.00		101	70-130			
Carbon Disulfide	98.9	5.0	µg/L	100.0		98.9	70-130			
Carbon Tetrachloride	9.22	5.0	µg/L	10.00		92.2	70-130			
Chlorobenzene	10.5	1.0	µg/L	10.00		105	70-130			
Chlorodibromomethane	9.81	0.50	µg/L	10.00		98.1	70-130			
Chloroethane	11.3	2.0	µg/L	10.00		113	70-130			
Chloroform	10.1	2.0	µg/L	10.00		101	70-130			
Chloromethane	9.17	2.0	µg/L	10.00		91.7	40-160			

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	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B400382 - SW-846 5030B										
LCS (B400382-BS1)				Prepared & Analyzed: 03/07/25						
Cyclohexane	10.8	5.0	µg/L	10.00		108	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.62	5.0	µg/L	10.00		86.2	70-130			
1,2-Dibromoethane (EDB)	9.90	0.50	µg/L	10.00		99.0	70-130			
1,2-Dichlorobenzene	9.61	1.0	µg/L	10.00		96.1	70-130			
1,3-Dichlorobenzene	9.89	1.0	µg/L	10.00		98.9	70-130			
1,4-Dichlorobenzene	9.79	1.0	µg/L	10.00		97.9	70-130			
Dichlorodifluoromethane (Freon 12)	9.81	2.0	µg/L	10.00		98.1	40-160			†
1,1-Dichloroethane	10.6	1.0	µg/L	10.00		106	70-130			
1,2-Dichloroethane	9.62	1.0	µg/L	10.00		96.2	70-130			
1,1-Dichloroethylene	10.7	1.0	µg/L	10.00		107	70-130			
cis-1,2-Dichloroethylene	10.2	1.0	µg/L	10.00		102	70-130			
trans-1,2-Dichloroethylene	10.1	1.0	µg/L	10.00		101	70-130			
1,2-Dichloropropane	10.3	1.0	µg/L	10.00		103	70-130			
cis-1,3-Dichloropropene	9.44	0.50	µg/L	10.00		94.4	70-130			
trans-1,3-Dichloropropene	9.38	0.50	µg/L	10.00		93.8	70-130			
Ethylbenzene	10.3	1.0	µg/L	10.00		103	70-130			
2-Hexanone (MBK)	93.8	10	µg/L	100.0		93.8	70-160			†
Isopropylbenzene (Cumene)	10.5	1.0	µg/L	10.00		105	70-130			
p-Isopropyltoluene (p-Cymene)	10.4	1.0	µg/L	10.00		104	70-130			
Methyl Acetate	11.4	1.0	µg/L	10.00		114	70-130			
Methyl tert-Butyl Ether (MTBE)	10.6	1.0	µg/L	10.00		106	70-130			
Methyl Cyclohexane	11.6	1.0	µg/L	10.00		116	70-130			
Methylene Chloride	9.99	5.0	µg/L	10.00		99.9	70-130			
4-Methyl-2-pentanone (MIBK)	96.5	10	µg/L	100.0		96.5	70-160			†
Naphthalene	9.30	2.0	µg/L	10.00		93.0	40-130			†
n-Propylbenzene	10.4	1.0	µg/L	10.00		104	70-130			
Styrene	10.4	1.0	µg/L	10.00		104	70-130			
1,1,1,2-Tetrachloroethane	10.0	0.50	µg/L	10.00		100	70-130			
Tetrachloroethylene	10.5	1.0	µg/L	10.00		105	70-130			
Toluene	10.3	1.0	µg/L	10.00		103	70-130			
1,2,3-Trichlorobenzene	8.97	5.0	µg/L	10.00		89.7	70-130			
1,2,4-Trichlorobenzene	9.17	1.0	µg/L	10.00		91.7	70-130			
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.00		104	70-130			
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.00		104	70-130			
Trichloroethylene	10.1	1.0	µg/L	10.00		101	70-130			
Trichlorofluoromethane (Freon 11)	10.5	2.0	µg/L	10.00		105	70-130			
1,2,3-Trichloropropane	10.5	2.0	µg/L	10.00		105	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1	1.0	µg/L	10.00		111	70-130			
1,2,4-Trimethylbenzene	10.0	1.0	µg/L	10.00		100	70-130			
1,3,5-Trimethylbenzene	10.6	1.0	µg/L	10.00		106	70-130			
Vinyl Chloride	10.1	2.0	µg/L	10.00		101	40-160			†
m+p Xylene	20.3	2.0	µg/L	20.00		102	70-130			
o-Xylene	10.1	1.0	µg/L	10.00		101	70-130			
Xylenes (total)	30.4	1.0	µg/L	30.00		101	0-200			
Surrogate: 1,2-Dichloroethane-d4	23.8		µg/L	25.00		95.3	70-130			
Surrogate: Toluene-d8	25.9		µg/L	25.00		104	70-130			
Surrogate: 4-Bromofluorobenzene	24.6		µg/L	25.00		98.3	70-130			

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	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B400382 - SW-846 5030B										
LCS Dup (B400382-BSD1)				Prepared & Analyzed: 03/07/25						
Acetone	101	50	µg/L	100.0		101	70-160	6.81	25	†
Benzene	10.9	1.0	µg/L	10.00		109	70-130	2.42	25	
Bromochloromethane	10.7	1.0	µg/L	10.00		107	70-130	1.12	25	
Bromodichloromethane	10.1	0.50	µg/L	10.00		101	70-130	2.90	25	
Bromoform	9.09	1.0	µg/L	10.00		90.9	70-130	0.220	25	
Bromomethane	11.8	2.0	µg/L	10.00		118	40-160	1.92	25	†
2-Butanone (MEK)	102	20	µg/L	100.0		102	40-160	7.11	25	†
n-Butylbenzene	10.6	1.0	µg/L	10.00		106	70-130	3.45	25	
sec-Butylbenzene	10.5	1.0	µg/L	10.00		105	70-130	3.57	25	
tert-Butylbenzene	10.4	1.0	µg/L	10.00		104	70-130	3.01	25	
Carbon Disulfide	102	5.0	µg/L	100.0		102	70-130	3.48	25	
Carbon Tetrachloride	10.4	5.0	µg/L	10.00		104	70-130	11.6	25	
Chlorobenzene	10.4	1.0	µg/L	10.00		104	70-130	1.44	25	
Chlorodibromomethane	9.77	0.50	µg/L	10.00		97.7	70-130	0.409	25	
Chloroethane	12.2	2.0	µg/L	10.00		122	70-130	7.24	25	
Chloroform	10.3	2.0	µg/L	10.00		103	70-130	2.16	25	
Chloromethane	9.98	2.0	µg/L	10.00		99.8	40-160	8.46	25	†
Cyclohexane	11.3	5.0	µg/L	10.00		113	70-130	4.70	25	
1,2-Dibromo-3-chloropropane (DBCP)	9.50	5.0	µg/L	10.00		95.0	70-130	9.71	25	
1,2-Dibromoethane (EDB)	10.2	0.50	µg/L	10.00		102	70-130	2.49	25	
1,2-Dichlorobenzene	9.92	1.0	µg/L	10.00		99.2	70-130	3.17	25	
1,3-Dichlorobenzene	9.97	1.0	µg/L	10.00		99.7	70-130	0.806	25	
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.00		101	70-130	2.92	25	
Dichlorodifluoromethane (Freon 12)	10.5	2.0	µg/L	10.00		105	40-160	6.70	25	†
1,1-Dichloroethane	10.6	1.0	µg/L	10.00		106	70-130	0.283	25	
1,2-Dichloroethane	9.69	1.0	µg/L	10.00		96.9	70-130	0.725	25	
1,1-Dichloroethylene	11.2	1.0	µg/L	10.00		112	70-130	4.11	25	
cis-1,2-Dichloroethylene	10.7	1.0	µg/L	10.00		107	70-130	4.78	25	
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.00		106	70-130	4.54	25	
1,2-Dichloropropane	10.3	1.0	µg/L	10.00		103	70-130	0.291	25	
cis-1,3-Dichloropropene	9.60	0.50	µg/L	10.00		96.0	70-130	1.68	25	
trans-1,3-Dichloropropene	9.63	0.50	µg/L	10.00		96.3	70-130	2.63	25	
Ethylbenzene	10.5	1.0	µg/L	10.00		105	70-130	1.63	25	
2-Hexanone (MBK)	99.8	10	µg/L	100.0		99.8	70-160	6.25	25	†
Isopropylbenzene (Cumene)	10.6	1.0	µg/L	10.00		106	70-130	0.951	25	
p-Isopropyltoluene (p-Cymene)	10.7	1.0	µg/L	10.00		107	70-130	2.94	25	
Methyl Acetate	12.2	1.0	µg/L	10.00		122	70-130	6.71	25	
Methyl tert-Butyl Ether (MTBE)	10.6	1.0	µg/L	10.00		106	70-130	0.188	25	
Methyl Cyclohexane	12.0	1.0	µg/L	10.00		120	70-130	2.63	25	
Methylene Chloride	10.2	5.0	µg/L	10.00		102	70-130	2.57	25	
4-Methyl-2-pentanone (MIBK)	102	10	µg/L	100.0		102	70-160	5.48	25	†
Naphthalene	9.87	2.0	µg/L	10.00		98.7	40-130	5.95	25	†
n-Propylbenzene	10.6	1.0	µg/L	10.00		106	70-130	2.09	25	
Styrene	10.3	1.0	µg/L	10.00		103	70-130	0.868	25	
1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.00		104	70-130	3.24	25	
Tetrachloroethylene	10.8	1.0	µg/L	10.00		108	70-130	3.47	25	
Toluene	10.8	1.0	µg/L	10.00		108	70-130	3.98	25	
1,2,3-Trichlorobenzene	9.24	5.0	µg/L	10.00		92.4	70-130	2.97	25	
1,2,4-Trichlorobenzene	9.47	1.0	µg/L	10.00		94.7	70-130	3.22	25	
1,1,1-Trichloroethane	10.7	1.0	µg/L	10.00		107	70-130	3.32	25	
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.00		104	70-130	0.481	25	
Trichloroethylene	10.2	1.0	µg/L	10.00		102	70-130	1.38	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 B400382 - SW-846 5030B

LCS Dup (B400382-BSD1)

Prepared & Analyzed: 03/07/25

Trichlorofluoromethane (Freon 11)	11.0	2.0	µg/L	10.00		110	70-130	5.12	25	
1,2,3-Trichloropropane	10.9	2.0	µg/L	10.00		109	70-130	3.46	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.6	1.0	µg/L	10.00		116	70-130	4.66	25	
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.00		103	70-130	2.56	25	
1,3,5-Trimethylbenzene	10.7	1.0	µg/L	10.00		107	70-130	0.564	25	
Vinyl Chloride	10.9	2.0	µg/L	10.00		109	40-160	8.28	25	†
m+p Xylene	20.5	2.0	µg/L	20.00		102	70-130	0.784	25	
o-Xylene	10.2	1.0	µg/L	10.00		102	70-130	0.493	25	
Xylenes (total)	30.6	1.0	µg/L	30.00		102	0-200	0.688		

Surrogate: 1,2-Dichloroethane-d4	23.8		µg/L	25.00		95.2	70-130			
Surrogate: Toluene-d8	26.0		µg/L	25.00		104	70-130			
Surrogate: 4-Bromofluorobenzene	24.7		µg/L	25.00		98.7	70-130			

QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B400231 - SW-846 5030B

Blank (B400231-BLK1)

Prepared: 03/05/25 Analyzed: 03/06/25

No TICs Found	0.0		µg/L
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Batch B400382 - SW-846 5030B

Blank (B400382-BLK1)

Prepared & Analyzed: 03/07/25

No TICs Found	0.0		µg/L
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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile 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 B400223 - SW-846 3510C

Blank (B400223-BLK1)

Prepared: 03/05/25 Analyzed: 03/06/25

2,3,4,6-Tetrachlorophenol	ND	20	µg/L							
Atrazine	ND	20	µg/L							V-05
Benzaldehyde	ND	10	µg/L							
Biphenyl	ND	20	µg/L							
Caprolactam	ND	10	µg/L							L-04, V-05
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	20	µg/L							V-05
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
2,2'-oxybis(1-Chloropropane)	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							V-05
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	20	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-04
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							V-04
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							

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

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B400223 - SW-846 3510C										
Blank (B400223-BLK1)										
Prepared: 03/05/25 Analyzed: 03/06/25										
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							V-05
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
Pyridine	ND	20	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	207		µg/L	400.0		51.7	15-110			
Surrogate: Phenol-d6	128		µg/L	400.0		32.1	15-110			
Surrogate: Nitrobenzene-d5	149		µg/L	200.0		74.6	30-130			
Surrogate: 2-Fluorobiphenyl	154		µg/L	200.0		77.0	30-130			
Surrogate: 2,4,6-Tribromophenol	267		µg/L	400.0		66.8	15-110			
Surrogate: p-Terphenyl-d14	162		µg/L	200.0		81.2	30-130			
LCS (B400223-BS1)										
Prepared: 03/05/25 Analyzed: 03/06/25										
2,3,4,6-Tetrachlorophenol	71.8	20	µg/L	100.0		71.8	40-140			
Atrazine	72.4	20	µg/L	100.0		72.4	40-140			V-05
Benzaldehyde	57.3	10	µg/L	100.0		57.3	40-140			
Biphenyl	83.1	20	µg/L	100.0		83.1	40-140			
Caprolactam	18.5	10	µg/L	100.0		18.5 *	40-140			V-05, L-04
Acenaphthene	75.9	5.0	µg/L	100.0		75.9	40-140			
Acenaphthylene	79.7	5.0	µg/L	100.0		79.7	40-140			
Acetophenone	64.4	10	µg/L	100.0		64.4	40-140			
Aniline	58.1	20	µg/L	100.0		58.1	40-140			V-05
Anthracene	80.3	5.0	µg/L	100.0		80.3	40-140			
Benzo(a)anthracene	77.4	5.0	µg/L	100.0		77.4	40-140			
Benzo(a)pyrene	79.5	5.0	µg/L	100.0		79.5	40-140			
Benzo(b)fluoranthene	80.5	5.0	µg/L	100.0		80.5	40-140			
Benzo(g,h,i)perylene	88.9	5.0	µg/L	100.0		88.9	40-140			
Benzo(k)fluoranthene	79.8	5.0	µg/L	100.0		79.8	40-140			
Bis(2-chloroethoxy)methane	71.3	10	µg/L	100.0		71.3	40-140			
Bis(2-chloroethyl)ether	71.3	10	µg/L	100.0		71.3	40-140			
2,2'-oxybis(1-Chloropropane)	75.4	10	µg/L	100.0		75.4	40-140			
Bis(2-Ethylhexyl)phthalate	65.6	10	µg/L	100.0		65.6	40-140			
4-Bromophenylphenylether	74.0	10	µg/L	100.0		74.0	40-140			
Butylbenzylphthalate	74.2	10	µg/L	100.0		74.2	40-140			
Carbazole	76.8	10	µg/L	100.0		76.8	40-140			
4-Chloroaniline	68.2	10	µg/L	100.0		68.2	40-140			V-05
4-Chloro-3-methylphenol	63.0	10	µg/L	100.0		63.0	30-130			
2-Chloronaphthalene	72.4	10	µg/L	100.0		72.4	40-140			
2-Chlorophenol	67.2	10	µg/L	100.0		67.2	30-130			

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B400223 - SW-846 3510C										
LCS (B400223-BS1)				Prepared: 03/05/25 Analyzed: 03/06/25						
4-Chlorophenylphenylether	69.4	10	µg/L	100.0		69.4	40-140			
Chrysene	82.2	5.0	µg/L	100.0		82.2	40-140			
Dibenz(a,h)anthracene	82.9	5.0	µg/L	100.0		82.9	40-140			
Dibenzofuran	77.2	5.0	µg/L	100.0		77.2	40-140			
Di-n-butylphthalate	67.4	10	µg/L	100.0		67.4	40-140			
3,3-Dichlorobenzidine	89.1	10	µg/L	100.0		89.1	40-140			
2,4-Dichlorophenol	67.7	10	µg/L	100.0		67.7	30-130			
Diethylphthalate	65.6	10	µg/L	100.0		65.6	40-140			
2,4-Dimethylphenol	77.6	10	µg/L	100.0		77.6	30-130			
Dimethylphthalate	68.1	10	µg/L	100.0		68.1	40-140			
4,6-Dinitro-2-methylphenol	58.2	20	µg/L	100.0		58.2	30-130			
2,4-Dinitrophenol	46.2	10	µg/L	100.0		46.2	30-130			V-04
2,4-Dinitrotoluene	74.0	10	µg/L	100.0		74.0	40-140			
2,6-Dinitrotoluene	80.8	10	µg/L	100.0		80.8	40-140			
Di-n-octylphthalate	62.9	10	µg/L	100.0		62.9	40-140			V-04
Fluoranthene	74.9	5.0	µg/L	100.0		74.9	40-140			
Fluorene	75.0	5.0	µg/L	100.0		75.0	40-140			
Hexachlorobenzene	81.3	10	µg/L	100.0		81.3	40-140			
Hexachlorobutadiene	78.1	10	µg/L	100.0		78.1	40-140			
Hexachlorocyclopentadiene	87.7	10	µg/L	100.0		87.7	30-140			†
Hexachloroethane	72.4	10	µg/L	100.0		72.4	40-140			
Indeno(1,2,3-cd)pyrene	84.8	5.0	µg/L	100.0		84.8	40-140			
Isophorone	74.1	10	µg/L	100.0		74.1	40-140			
1-Methylnaphthalene	65.8	5.0	µg/L	100.0		65.8	40-140			
2-Methylnaphthalene	65.2	5.0	µg/L	100.0		65.2	40-140			
2-Methylphenol	60.1	10	µg/L	100.0		60.1	30-130			
3/4-Methylphenol	81.0	10	µg/L	100.0		81.0	30-130			
Naphthalene	75.9	5.0	µg/L	100.0		75.9	40-140			
2-Nitroaniline	91.9	10	µg/L	100.0		91.9	40-140			
3-Nitroaniline	76.3	10	µg/L	100.0		76.3	40-140			
4-Nitroaniline	71.5	10	µg/L	100.0		71.5	40-140			
Nitrobenzene	79.0	10	µg/L	100.0		79.0	40-140			
2-Nitrophenol	69.6	10	µg/L	100.0		69.6	30-130			
4-Nitrophenol	43.5	10	µg/L	100.0		43.5	10-130			†
N-Nitrosodiphenylamine/Diphenylamine	78.8	10	µg/L	100.0		78.8	40-140			
N-Nitrosodi-n-propylamine	57.5	10	µg/L	100.0		57.5	40-140			V-05
Pentachlorophenol	62.9	10	µg/L	100.0		62.9	30-130			
Phenanthrene	78.7	5.0	µg/L	100.0		78.7	40-140			
Phenol	39.5	10	µg/L	100.0		39.5	20-130			†
Pyrene	81.9	5.0	µg/L	100.0		81.9	40-140			
Pyridine	47.1	20	µg/L	100.0		47.1	10-140			†
1,2,4,5-Tetrachlorobenzene	82.8	10	µg/L	100.0		82.8	40-140			
2,4,5-Trichlorophenol	75.0	10	µg/L	100.0		75.0	30-130			
2,4,6-Trichlorophenol	70.0	10	µg/L	100.0		70.0	30-130			
Surrogate: 2-Fluorophenol	224		µg/L	400.0		56.0	15-110			
Surrogate: Phenol-d6	152		µg/L	400.0		38.1	15-110			
Surrogate: Nitrobenzene-d5	172		µg/L	200.0		86.0	30-130			
Surrogate: 2-Fluorobiphenyl	179		µg/L	200.0		89.3	30-130			
Surrogate: 2,4,6-Tribromophenol	316		µg/L	400.0		79.0	15-110			
Surrogate: p-Terphenyl-d14	182		µg/L	200.0		90.8	30-130			

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B400223 - SW-846 3510C										
LCS Dup (B400223-BSD1)				Prepared: 03/05/25 Analyzed: 03/06/25						
2,3,4,6-Tetrachlorophenol	62.0	20	µg/L	100.0		62.0	40-140	14.7	20	
Atrazine	69.6	20	µg/L	100.0		69.6	40-140	3.93	20	V-05
Benzaldehyde	51.3	10	µg/L	100.0		51.3	40-140	11.1	20	
Biphenyl	77.7	20	µg/L	100.0		77.7	40-140	6.72	20	
Caprolactam	15.7	10	µg/L	100.0		15.7	* 40-140	16.6	20	L-04, V-05
Acenaphthene	72.5	5.0	µg/L	100.0		72.5	40-140	4.57	20	
Acenaphthylene	75.5	5.0	µg/L	100.0		75.5	40-140	5.43	20	
Acetophenone	60.5	10	µg/L	100.0		60.5	40-140	6.31	20	
Aniline	54.2	20	µg/L	100.0		54.2	40-140	6.84	50	V-05 ‡
Anthracene	75.3	5.0	µg/L	100.0		75.3	40-140	6.40	20	
Benzo(a)anthracene	73.7	5.0	µg/L	100.0		73.7	40-140	5.00	20	
Benzo(a)pyrene	74.2	5.0	µg/L	100.0		74.2	40-140	6.92	20	
Benzo(b)fluoranthene	75.7	5.0	µg/L	100.0		75.7	40-140	6.13	20	
Benzo(g,h,i)perylene	85.7	5.0	µg/L	100.0		85.7	40-140	3.72	20	
Benzo(k)fluoranthene	76.1	5.0	µg/L	100.0		76.1	40-140	4.84	20	
Bis(2-chloroethoxy)methane	66.4	10	µg/L	100.0		66.4	40-140	7.19	20	
Bis(2-chloroethyl)ether	66.1	10	µg/L	100.0		66.1	40-140	7.60	20	
2,2'-oxybis(1-Chloropropane)	69.4	10	µg/L	100.0		69.4	40-140	8.24	20	
Bis(2-Ethylhexyl)phthalate	61.0	10	µg/L	100.0		61.0	40-140	7.28	20	
4-Bromophenylphenylether	69.4	10	µg/L	100.0		69.4	40-140	6.41	20	
Butylbenzylphthalate	72.5	10	µg/L	100.0		72.5	40-140	2.28	20	
Carbazole	71.8	10	µg/L	100.0		71.8	40-140	6.71	20	
4-Chloroaniline	65.0	10	µg/L	100.0		65.0	40-140	4.79	20	V-05
4-Chloro-3-methylphenol	54.9	10	µg/L	100.0		54.9	30-130	13.7	20	
2-Chloronaphthalene	66.3	10	µg/L	100.0		66.3	40-140	8.86	20	
2-Chlorophenol	58.7	10	µg/L	100.0		58.7	30-130	13.4	20	
4-Chlorophenylphenylether	64.6	10	µg/L	100.0		64.6	40-140	7.21	20	
Chrysene	80.0	5.0	µg/L	100.0		80.0	40-140	2.79	20	
Dibenz(a,h)anthracene	79.7	5.0	µg/L	100.0		79.7	40-140	4.03	20	
Dibenzofuran	74.0	5.0	µg/L	100.0		74.0	40-140	4.19	20	
Di-n-butylphthalate	63.0	10	µg/L	100.0		63.0	40-140	6.60	20	
3,3-Dichlorobenzidine	84.9	10	µg/L	100.0		84.9	40-140	4.88	20	
2,4-Dichlorophenol	60.5	10	µg/L	100.0		60.5	30-130	11.4	20	
Diethylphthalate	60.2	10	µg/L	100.0		60.2	40-140	8.60	20	
2,4-Dimethylphenol	70.6	10	µg/L	100.0		70.6	30-130	9.37	20	
Dimethylphthalate	64.9	10	µg/L	100.0		64.9	40-140	4.74	50	‡
4,6-Dinitro-2-methylphenol	51.6	20	µg/L	100.0		51.6	30-130	12.0	50	‡
2,4-Dinitrophenol	38.1	10	µg/L	100.0		38.1	30-130	19.4	50	V-04 ‡
2,4-Dinitrotoluene	70.4	10	µg/L	100.0		70.4	40-140	4.93	20	
2,6-Dinitrotoluene	74.2	10	µg/L	100.0		74.2	40-140	8.45	20	
Di-n-octylphthalate	57.1	10	µg/L	100.0		57.1	40-140	9.57	20	V-04
Fluoranthene	70.2	5.0	µg/L	100.0		70.2	40-140	6.40	20	
Fluorene	71.6	5.0	µg/L	100.0		71.6	40-140	4.64	20	
Hexachlorobenzene	75.8	10	µg/L	100.0		75.8	40-140	6.93	20	
Hexachlorobutadiene	72.6	10	µg/L	100.0		72.6	40-140	7.30	20	
Hexachlorocyclopentadiene	84.5	10	µg/L	100.0		84.5	30-140	3.65	50	† ‡
Hexachloroethane	66.4	10	µg/L	100.0		66.4	40-140	8.66	50	‡
Indeno(1,2,3-cd)pyrene	82.6	5.0	µg/L	100.0		82.6	40-140	2.66	50	‡
Isophorone	70.0	10	µg/L	100.0		70.0	40-140	5.64	20	
1-Methylnaphthalene	62.3	5.0	µg/L	100.0		62.3	40-140	5.43	20	
2-Methylnaphthalene	59.8	5.0	µg/L	100.0		59.8	40-140	8.66	20	
2-Methylphenol	54.9	10	µg/L	100.0		54.9	30-130	9.05	20	

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B400223 - SW-846 3510C										
LCS Dup (B400223-BSD1)										
Prepared: 03/05/25 Analyzed: 03/06/25										
3/4-Methylphenol	74.2	10	µg/L	100.0		74.2	30-130	8.84	20	
Naphthalene	70.4	5.0	µg/L	100.0		70.4	40-140	7.52	20	
2-Nitroaniline	86.8	10	µg/L	100.0		86.8	40-140	5.73	20	
3-Nitroaniline	72.2	10	µg/L	100.0		72.2	40-140	5.56	20	
4-Nitroaniline	67.7	10	µg/L	100.0		67.7	40-140	5.43	20	
Nitrobenzene	74.3	10	µg/L	100.0		74.3	40-140	6.15	20	
2-Nitrophenol	63.2	10	µg/L	100.0		63.2	30-130	9.69	20	
4-Nitrophenol	38.0	10	µg/L	100.0		38.0	10-130	13.6	50	† ‡
N-Nitrosodiphenylamine/Diphenylamine	73.8	10	µg/L	100.0		73.8	40-140	6.59	20	
N-Nitrosodi-n-propylamine	55.4	10	µg/L	100.0		55.4	40-140	3.65	20	V-05
Pentachlorophenol	57.6	10	µg/L	100.0		57.6	30-130	8.93	50	‡
Phenanthrene	74.0	5.0	µg/L	100.0		74.0	40-140	6.05	20	
Phenol	36.4	10	µg/L	100.0		36.4	20-130	8.03	20	†
Pyrene	78.9	5.0	µg/L	100.0		78.9	40-140	3.81	20	
Pyridine	45.8	20	µg/L	100.0		45.8	10-140	2.93	50	† ‡
1,2,4,5-Tetrachlorobenzene	76.0	10	µg/L	100.0		76.0	40-140	8.49	20	
2,4,5-Trichlorophenol	62.2	10	µg/L	100.0		62.2	30-130	18.7	20	
2,4,6-Trichlorophenol	61.6	10	µg/L	100.0		61.6	30-130	12.7	50	‡
Surrogate: 2-Fluorophenol	192		µg/L	400.0		48.1	15-110			
Surrogate: Phenol-d6	132		µg/L	400.0		33.1	15-110			
Surrogate: Nitrobenzene-d5	156		µg/L	200.0		78.0	30-130			
Surrogate: 2-Fluorobiphenyl	165		µg/L	200.0		82.5	30-130			
Surrogate: 2,4,6-Tribromophenol	279		µg/L	400.0		69.7	15-110			
Surrogate: p-Terphenyl-d14	169		µg/L	200.0		84.6	30-130			

QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B400243 - SW-846 3510C										
Blank (B400243-BLK1)				Prepared: 03/05/25 Analyzed: 03/14/25						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	2.90		µg/L	10.00		29.0	15-110			
LCS (B400243-BS1)				Prepared: 03/05/25 Analyzed: 03/14/25						
1,4-Dioxane	10.3	0.20	µg/L	10.00		103	40-140			
Surrogate: 1,4-Dioxane-d8	3.16		µg/L	10.00		31.6	15-110			
LCS Dup (B400243-BSD1)				Prepared: 03/05/25 Analyzed: 03/14/25						
1,4-Dioxane	10.8	0.20	µg/L	10.00		108	40-140	4.88	30	
Surrogate: 1,4-Dioxane-d8	3.06		µg/L	10.00		30.6	15-110			

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

QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B400204 - EPA 1633										
Blank (B400204-BLK1)										
Prepared: 03/05/25 Analyzed: 03/06/25										
Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.1	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.6	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.6	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.6	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.6	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	ng/L							
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.6	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.6	ng/L							
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	16	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	ng/L							
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	6.3	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	6.3	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	6.3	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.9	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	3.1	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	ng/L							
Surrogate: 13C4-PFBA	74.9		ng/L	78.59		95.3	5-130			

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

QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B400204 - EPA 1633
Blank (B400204-BLK1)

Prepared: 03/05/25 Analyzed: 03/06/25

Surrogate: 13C5-PFPeA	37.2		ng/L	39.29		94.6	40-130			
Surrogate: 13C5-PFHxA	19.1		ng/L	19.65		97.1	40-130			
Surrogate: 13C4-PFHpA	19.9		ng/L	19.65		101	40-130			
Surrogate: 13C8-PFOA	19.5		ng/L	19.65		99.1	40-130			
Surrogate: 13C9-PFNA	9.69		ng/L	9.824		98.7	40-130			
Surrogate: 13C6-PFDA	9.70		ng/L	9.824		98.7	40-130			
Surrogate: 13C7-PFUnA	10.2		ng/L	9.824		104	30-130			
Surrogate: 13C2-PFDoA	9.78		ng/L	9.824		99.6	10-130			
Surrogate: 13C2-PFTeDA	9.75		ng/L	9.824		99.3	10-130			
Surrogate: 13C3-PFBS	19.5		ng/L	19.65		99.1	40-135			
Surrogate: 13C3-PFHxS	19.0		ng/L	19.65		96.9	40-130			
Surrogate: 13C8-PFOS	19.5		ng/L	19.65		99.2	40-130			
Surrogate: 13C2-4:2FTS	40.1		ng/L	39.29		102	40-200			
Surrogate: 13C2-6:2FTS	43.2		ng/L	39.29		110	40-200			
Surrogate: 13C2-8:2FTS	41.9		ng/L	39.29		107	40-300			
Surrogate: 13C8-PFOA	16.9		ng/L	19.65		86.0	40-130			
Surrogate: D3-NMeFOSA	14.7		ng/L	19.65		74.7	10-130			
Surrogate: D5-NEtFOSA	14.6		ng/L	19.65		74.4	10-130			
Surrogate: D3-NMeFOSAA	39.1		ng/L	39.29		99.6	40-170			
Surrogate: D5-NEtFOSAA	37.8		ng/L	39.29		96.3	25-135			
Surrogate: D7-NMeFOSE	172		ng/L	196.5		87.4	10-130			
Surrogate: D9-NEtFOSE	170		ng/L	196.5		86.6	10-130			
Surrogate: 13C3-HFPO-DA	77.1		ng/L	78.59		98.1	40-130			

LCS (B400204-BS1)

Prepared: 03/05/25 Analyzed: 03/06/25

Perfluorobutanoic acid (PFBA)	76.6	6.3	ng/L	78.61		97.5	70-140			
Perfluoropentanoic acid (PFPeA)	39.1	3.1	ng/L	39.30		99.6	65-135			
Perfluorohexanoic acid (PFHxA)	19.6	1.6	ng/L	19.65		99.8	70-145			
Perfluoroheptanoic acid (PFHpA)	20.2	1.6	ng/L	19.65		103	70-150			
Perfluorooctanoic acid (PFOA)	17.9	1.6	ng/L	19.65		91.1	70-150			
Perfluorononanoic acid (PFNA)	19.3	1.6	ng/L	19.65		98.3	70-150			
Perfluorodecanoic acid (PFDA)	20.3	1.6	ng/L	19.65		103	70-140			
Perfluoroundecanoic acid (PFUnA)	20.9	1.6	ng/L	19.65		106	70-145			
Perfluorododecanoic acid (PFDoA)	19.8	1.6	ng/L	19.65		101	70-140			
Perfluorotridecanoic acid (PFTTrDA)	21.4	1.6	ng/L	19.65		109	65-140			
Perfluorotetradecanoic acid (PFTeDA)	20.4	1.6	ng/L	19.65		104	60-140			
Perfluorobutanesulfonic acid (PFBS)	17.0	1.6	ng/L	17.45		97.5	60-145			
Perfluoropentanesulfonic acid (PFPeS)	18.8	1.6	ng/L	18.47		102	65-140			
Perfluorohexanesulfonic acid (PFHxS)	18.3	1.6	ng/L	17.92		102	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	19.6	1.6	ng/L	18.71		105	70-150			
Perfluorooctanesulfonic acid (PFOS)	17.8	1.6	ng/L	18.24		97.8	55-150			
Perfluorononanesulfonic acid (PFNS)	18.8	1.6	ng/L	18.87		99.4	65-145			
Perfluorodecanesulfonic acid (PFDS)	19.4	1.6	ng/L	18.94		102	60-145			
Perfluorododecanesulfonic acid (PFDoS)	20.5	1.6	ng/L	19.02		108	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	80.2	6.3	ng/L	73.65		109	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	79.8	6.3	ng/L	74.75		107	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	85.3	6.3	ng/L	75.46		113	60-150			
Perfluorooctanesulfonamide (PFOSA)	19.5	1.6	ng/L	19.65		99.1	70-145			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	19.8	1.6	ng/L	19.65		101	60-150			

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

QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B400204 - EPA 1633										
LCS (B400204-BS1)										
Prepared: 03/05/25 Analyzed: 03/06/25										
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	20.5	1.6	ng/L	19.65		104	65-145			
N-MeFOSAA (NMeFOSAA)	19.2	1.6	ng/L	19.65		97.5	50-140			
N-EtFOSAA (NEtFOSAA)	19.0	1.6	ng/L	19.65		96.5	70-145			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	192	16	ng/L	196.5		97.7	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	200	16	ng/L	196.5		102	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	81.4	6.3	ng/L	78.61		104	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	68.3	6.3	ng/L	74.28		91.9	65-145			
9Cl-PF3ONS (F53B Minor)	75.2	6.3	ng/L	73.34		103	70-155			
11Cl-PF3OUdS (F53B Major)	85.0	6.3	ng/L	73.42		116	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	81.7	7.9	ng/L	98.26		83.1	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	398	39	ng/L	491.3		81.0	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	419	39	ng/L	491.3		85.3	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	33.4	3.1	ng/L	35.06		95.1	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	37.7	3.1	ng/L	39.30		95.9	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.5	3.1	ng/L	39.30		103	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	44.6	3.1	ng/L	39.30		114	50-150			
Surrogate: 13C4-PFBA	76.2		ng/L	78.61		97.0	5-130			
Surrogate: 13C5-PFPeA	37.4		ng/L	39.30		95.1	40-130			
Surrogate: 13C5-PFHxA	19.6		ng/L	19.65		99.6	40-130			
Surrogate: 13C4-PFHpA	20.3		ng/L	19.65		103	40-130			
Surrogate: 13C8-PFOA	18.5		ng/L	19.65		94.3	40-130			
Surrogate: 13C9-PFNA	9.93		ng/L	9.826		101	40-130			
Surrogate: 13C6-PFDA	9.51		ng/L	9.826		96.8	40-130			
Surrogate: 13C7-PFUnA	10.1		ng/L	9.826		103	30-130			
Surrogate: 13C2-PFDoA	9.66		ng/L	9.826		98.4	10-130			
Surrogate: 13C2-PFTeDA	10.1		ng/L	9.826		102	10-130			
Surrogate: 13C3-PFBS	21.5		ng/L	19.65		109	40-135			
Surrogate: 13C3-PFHxS	19.9		ng/L	19.65		101	40-130			
Surrogate: 13C8-PFOS	18.2		ng/L	19.65		92.7	40-130			
Surrogate: 13C2-4:2FTS	39.5		ng/L	39.30		100	40-200			
Surrogate: 13C2-6:2FTS	41.1		ng/L	39.30		105	40-200			
Surrogate: 13C2-8:2FTS	40.5		ng/L	39.30		103	40-300			
Surrogate: 13C8-PFOSA	15.9		ng/L	19.65		80.7	40-130			
Surrogate: D3-NMeFOSA	13.9		ng/L	19.65		70.7	10-130			
Surrogate: D5-NEtFOSA	14.1		ng/L	19.65		71.6	10-130			
Surrogate: D3-NMeFOSAA	38.2		ng/L	39.30		97.2	40-170			
Surrogate: D5-NEtFOSAA	37.6		ng/L	39.30		95.7	25-135			
Surrogate: D7-NMeFOSE	166		ng/L	196.5		84.3	10-130			
Surrogate: D9-NEtFOSE	164		ng/L	196.5		83.6	10-130			
Surrogate: 13C3-HFPO-DA	78.8		ng/L	78.61		100	40-130			
MRL Check (B400204-MRL1)										
Prepared: 03/05/25 Analyzed: 03/06/25										
Perfluorobutanoic acid (PFBA)	11.5	6.3	ng/L	12.56		91.8	70-140			
Perfluoropentanoic acid (PFPeA)	5.55	3.1	ng/L	6.282		88.4	65-135			

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

QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B400204 - EPA 1633										
MRL Check (B400204-MRL1)										
Prepared: 03/05/25 Analyzed: 03/06/25										
Perfluorohexanoic acid (PFHxA)	2.88	1.6	ng/L	3.141		91.8	70-145			
Perfluoroheptanoic acid (PFHpA)	2.78	1.6	ng/L	3.141		88.6	70-150			
Perfluorooctanoic acid (PFOA)	2.61	1.6	ng/L	3.141		83.1	70-150			
Perfluorononanoic acid (PFNA)	2.76	1.6	ng/L	3.141		87.9	70-150			
Perfluorodecanoic acid (PFDA)	2.86	1.6	ng/L	3.141		91.0	70-140			
Perfluoroundecanoic acid (PFUnA)	2.53	1.6	ng/L	3.141		80.4	70-145			
Perfluorododecanoic acid (PFDoA)	2.68	1.6	ng/L	3.141		85.3	70-140			
Perfluorotridecanoic acid (PFTrDA)	2.84	1.6	ng/L	3.141		90.4	65-140			
Perfluorotetradecanoic acid (PFTeDA)	2.75	1.6	ng/L	3.141		87.4	60-140			
Perfluorobutanesulfonic acid (PFBS)	2.42	1.6	ng/L	2.789		86.6	60-145			
Perfluoropentanesulfonic acid (PFPeS)	2.49	1.6	ng/L	2.952		84.2	65-140			
Perfluorohexanesulfonic acid (PFHxS)	2.87	1.6	ng/L	2.864		100	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	2.41	1.6	ng/L	2.990		80.6	70-150			
Perfluorooctanesulfonic acid (PFOS)	2.63	1.6	ng/L	2.915		90.3	55-150			
Perfluorononanesulfonic acid (PFNS)	2.76	1.6	ng/L	3.015		91.4	65-145			
Perfluorodecanesulfonic acid (PFDS)	2.68	1.6	ng/L	3.028		88.6	60-145			
Perfluorododecanesulfonic acid (PFDoS)	2.71	1.6	ng/L	3.040		89.0	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	11.1	6.3	ng/L	11.77		94.4	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	11.9	6.3	ng/L	11.95		99.9	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	11.6	6.3	ng/L	12.06		96.5	60-150			
Perfluorooctanesulfonamide (PFOSA)	2.84	1.6	ng/L	3.141		90.5	70-145			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	2.93	1.6	ng/L	3.141		93.3	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	3.01	1.6	ng/L	3.141		95.8	65-145			
N-MeFOSAA (NMeFOSAA)	3.06	1.6	ng/L	3.141		97.4	50-140			
N-EtFOSAA (NEtFOSAA)	2.66	1.6	ng/L	3.141		84.8	70-145			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	27.8	16	ng/L	31.41		88.5	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	27.5	16	ng/L	31.41		87.6	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	11.1	6.3	ng/L	12.56		88.5	70-140			
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	9.80	6.3	ng/L	11.87		82.5	65-145			
9Cl-PF3ONS (F53B Minor)	11.0	6.3	ng/L	11.72		94.1	70-155			
11Cl-PF3OUDS (F53B Major)	12.2	6.3	ng/L	11.73		104	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	11.1	7.9	ng/L	15.70		70.4	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	56.8	39	ng/L	78.52		72.4	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	62.4	39	ng/L	78.52		79.5	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.82	3.1	ng/L	5.603		86.1	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	5.28	3.1	ng/L	6.282		84.1	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.56	3.1	ng/L	6.282		88.5	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.46	3.1	ng/L	6.282		87.0	50-150			
Surrogate: 13C4-PFBA	75.2		ng/L	78.52		95.8	5-130			
Surrogate: 13C5-PFPeA	37.4		ng/L	39.26		95.3	40-130			
Surrogate: 13C5-PFHxA	19.2		ng/L	19.63		98.0	40-130			

QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B400204 - EPA 1633

MRL Check (B400204-MRL1)

Prepared: 03/05/25 Analyzed: 03/06/25

Surrogate: 13C4-PFHpA	20.5		ng/L	19.63		105	40-130			
Surrogate: 13C8-PFOA	18.3		ng/L	19.63		93.3	40-130			
Surrogate: 13C9-PFNA	9.51		ng/L	9.815		96.9	40-130			
Surrogate: 13C6-PFDA	9.21		ng/L	9.815		93.8	40-130			
Surrogate: 13C7-PFUnA	10.5		ng/L	9.815		107	30-130			
Surrogate: 13C2-PFDoA	9.85		ng/L	9.815		100	10-130			
Surrogate: 13C2-PFTeDA	9.81		ng/L	9.815		99.9	10-130			
Surrogate: 13C3-PFBS	20.8		ng/L	19.63		106	40-135			
Surrogate: 13C3-PFHxS	19.9		ng/L	19.63		101	40-130			
Surrogate: 13C8-PFOS	18.1		ng/L	19.63		92.3	40-130			
Surrogate: 13C2-4:2FTS	40.9		ng/L	39.26		104	40-200			
Surrogate: 13C2-6:2FTS	39.8		ng/L	39.26		101	40-200			
Surrogate: 13C2-8:2FTS	39.2		ng/L	39.26		99.7	40-300			
Surrogate: 13C8-PFOSA	15.8		ng/L	19.63		80.3	40-130			
Surrogate: D3-NMeFOSA	14.6		ng/L	19.63		74.3	10-130			
Surrogate: D5-NEtFOSA	14.4		ng/L	19.63		73.2	10-130			
Surrogate: D3-NMeFOSAA	36.4		ng/L	39.26		92.8	40-170			
Surrogate: D5-NEtFOSAA	37.7		ng/L	39.26		95.9	25-135			
Surrogate: D7-NMeFOSE	162		ng/L	196.3		82.3	10-130			
Surrogate: D9-NEtFOSE	161		ng/L	196.3		82.0	10-130			
Surrogate: 13C3-HFPO-DA	80.0		ng/L	78.52		102	40-130			

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	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B400249 - SW-846 7196A										
Blank (B400249-BLK1)				Prepared & Analyzed: 03/05/25						
Hexavalent Chromium	ND	0.0040	mg/L							
LCS (B400249-BS1)				Prepared & Analyzed: 03/05/25						
Hexavalent Chromium	0.11	0.0040	mg/L	0.1000		105	80-120			
LCS Dup (B400249-BSD1)				Prepared & Analyzed: 03/05/25						
Hexavalent Chromium	0.10	0.0040	mg/L	0.1000		102	80-120	3.53	20	
Matrix Spike (B400249-MS1)				Source: 25C0124-03		Prepared & Analyzed: 03/05/25				
Hexavalent Chromium	0.10	0.0040	mg/L	0.1000	ND	103	85-115			H-01
Matrix Spike Dup (B400249-MSD1)				Source: 25C0124-03		Prepared & Analyzed: 03/05/25				
Hexavalent Chromium	0.10	0.0040	mg/L	0.1000	ND	102	85-115	1.19	20	H-01
Batch B400364 - SM21-24 2540D										
Blank (B400364-BLK1)				Prepared & Analyzed: 03/07/25						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B400364-BS1)				Prepared & Analyzed: 03/07/25						
Total Suspended Solids	178	25	mg/L	200.0		89.0	51.5-130			
Batch B400578 - SW-846 9014										
Blank (B400578-BLK1)				Prepared: 03/10/25 Analyzed: 03/11/25						
Cyanide	ND	0.010	mg/L							
LCS (B400578-BS1)				Prepared: 03/10/25 Analyzed: 03/11/25						
Cyanide	0.32	0.010	mg/L	0.3000		108	80-120			
LCS Dup (B400578-BSD1)				Prepared: 03/10/25 Analyzed: 03/11/25						
Cyanide	0.30	0.010	mg/L	0.3000		102	80-120	5.82	20	
Batch B400954 - SW-846 9010C										
Blank (B400954-BLK1)				Prepared: 03/17/25 Analyzed: 03/18/25						
Cyanide	ND	0.010	mg/L							
LCS (B400954-BS1)				Prepared: 03/17/25 Analyzed: 03/18/25						
Cyanide	0.29	0.010	mg/L	0.3000		97.8	80-120			

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	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B400954 - SW-846 9010C										
LCS Dup (B400954-BSD1)				Prepared: 03/17/25 Analyzed: 03/18/25						
Cyanide	0.26	0.010	mg/L	0.3000		87.3	80-120	11.4	20	
Matrix Spike (B400954-MS1)				Source: 25C0124-03 Prepared: 03/17/25 Analyzed: 03/18/25						
Cyanide	0.23	0.010	mg/L	0.2998	ND	77.0	75-125			
Matrix Spike Dup (B400954-MSD1)				Source: 25C0124-03 Prepared: 03/17/25 Analyzed: 03/18/25						
Cyanide	0.26	0.010	mg/L	0.2998	ND	85.2	75-125	10.2	20	
Batch B401495 - EPA 300.0										
Blank (B401495-BLK1)				Prepared & Analyzed: 03/24/25						
Fluoride	ND	0.10	mg/L							
Sulfate	ND	1.0	mg/L							
LCS (B401495-BS1)				Prepared & Analyzed: 03/24/25						
Fluoride	0.96	0.10	mg/L	1.000		95.8	90-110			
Sulfate	9.6	1.0	mg/L	10.00		96.4	90-110			
LCS Dup (B401495-BSD1)				Prepared & Analyzed: 03/24/25						
Fluoride	0.96	0.10	mg/L	1.000		96.1	90-110	0.386	20	
Sulfate	9.7	1.0	mg/L	10.00		96.7	90-110	0.232	20	
Matrix Spike (B401495-MS1)				Source: 25C0124-03 Prepared & Analyzed: 03/25/25						
Fluoride	0.97	0.10	mg/L	1.000	0.10	86.7	80-120			
Sulfate	27	1.0	mg/L	10.00	20	77.9 *	80-120			MS-07A
Matrix Spike Dup (B401495-MSD1)				Source: 25C0124-03 Prepared & Analyzed: 03/25/25						
Fluoride	0.97	0.10	mg/L	1.000	0.10	86.6	80-120	0.124	20	
Sulfate	27	1.0	mg/L	10.00	20	78.2 *	80-120	0.132	20	MS-07A
Batch B401843 - SM4500 N Org B C										
Blank (B401843-BLK1)				Prepared: 03/28/25 Analyzed: 03/29/25						
Total Kjeldahl Nitrogen	ND	1.0	mg/L							
LCS (B401843-BS1)				Prepared: 03/28/25 Analyzed: 03/29/25						
Total Kjeldahl Nitrogen	19	1.0	mg/L	20.00		95.2	86.3-118			
Duplicate (B401843-DUP1)				Source: 25C0124-03 Prepared: 03/28/25 Analyzed: 03/29/25						
Total Kjeldahl Nitrogen	4.5	1.0	mg/L		4.5			0.00	45.2	

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	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B401843 - SM4500 N Org B C										
Matrix Spike (B401843-MS1)	Source: 25C0124-03			Prepared: 03/28/25 Analyzed: 03/29/25						
Total Kjeldahl Nitrogen	27	1.0	mg/L	20.00	4.5	112	68.2-129			
Reference (B401843-SRM1)				Prepared: 03/28/25 Analyzed: 03/29/25						
Total Kjeldahl Nitrogen	19.0	1.0	mg/L	20.00		95.2	0-200			
Batch B402286 - EPA 300.0										
Blank (B402286-BLK1)				Prepared & Analyzed: 04/03/25						
Chloride	ND	1.0	mg/L							
LCS (B402286-BS1)				Prepared & Analyzed: 04/03/25						
Chloride	11	1.0	mg/L	10.00		106	90-110			
LCS Dup (B402286-BSD1)				Prepared & Analyzed: 04/03/25						
Chloride	11	1.0	mg/L	10.00		106	90-110	0.0301	20	
Matrix Spike (B402286-MS1)	Source: 25C0124-03			Prepared & Analyzed: 04/03/25						
Chloride	170	5.0	mg/L	50.00	130	87.4	80-120			H-04
Matrix Spike Dup (B402286-MSD1)	Source: 25C0124-03			Prepared & Analyzed: 04/03/25						
Chloride	170	5.0	mg/L	50.00	130	89.5	80-120	0.622	20	H-04



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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 (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B400233 - SM21-24 2540C

Blank (B400233-BLK1)

Prepared & Analyzed: 03/06/25

Total Dissolved Solids	ND	10	mg/L
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LCS (B400233-BS1)

Prepared & Analyzed: 03/06/25

Total Dissolved Solids	280	10	mg/L	293.0	94.5	62.9-115
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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.
DL-16	Test results of sample did not achieve the method required minimum yield of 2.5mg of dried residue and for which less than 1L of sample was filtered.
H-01	Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.
H-04	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
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.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias 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.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
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.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
Z-01	Test sw846 9014 had a calibration point outside acceptable limits. Reanalysis yielded similar non-conformance.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>Draft Method 1633 in Water</i>	
Perfluorobutanoic acid (PFBA)	NY
Perfluoropentanoic acid (PFPeA)	NY
Perfluorohexanoic acid (PFHxA)	NY
Perfluoroheptanoic acid (PFHpA)	NY
Perfluorooctanoic acid (PFOA)	NY
Perfluorononanoic acid (PFNA)	NY
Perfluorodecanoic acid (PFDA)	NY
Perfluoroundecanoic acid (PFUnA)	NY
Perfluorododecanoic acid (PFDoA)	NY
Perfluorotridecanoic acid (PFTrDA)	NY
Perfluorotetradecanoic acid (PFTeDA)	NY
Perfluorobutanesulfonic acid (PFBS)	NY
Perfluoropentanesulfonic acid (PFPeS)	NY
Perfluorohexanesulfonic acid (PFHxS)	NY
Perfluoroheptanesulfonic acid (PFHpS)	NY
Perfluorooctanesulfonic acid (PFOS)	NY
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NY
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NY
N-MeFOSAA (NMeFOSAA)	NY
N-EtFOSAA (NEtFOSAA)	NY
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NY
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NY
9Cl-PF3ONS (F53B Minor)	NY
11Cl-PF3OUdS (F53B Major)	NY
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEISA)	NY
Perfluoro-3-methoxypropanoic acid (PFMPA)	NY
<i>EPA 300.0 in Water</i>	
Chloride	NC,NY,MA,VA,ME,NH,CT,RI
Fluoride	NY,VA,ME,NH,CT,NJ
Sulfate	NC,NY,MA,VA,ME,NH,CT,RI,NJ
<i>SM19-24 4500-N Org B,C-NH3 C in Water</i>	
Total Kjeldahl Nitrogen	CT,MA,NH,NY,RI,NC,ME,VA,NJ
<i>SM21-24 2540C in Water</i>	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA,NJ
<i>SM21-24 2540D in Water</i>	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA,NJ
<i>SW-846 7196A in Water</i>	
Hexavalent Chromium	CT,NH,NY,NC,ME,VA
<i>SW-846 8260D in Water</i>	
Acetone	CT,ME,NH,VA,NY,NJ
Benzene	CT,ME,NH,VA,NY,NJ
Bromochloromethane	ME,NH,VA,NY,NJ
Bromodichloromethane	CT,ME,NH,VA,NY,NJ
Bromoform	CT,ME,NH,VA,NY,NJ
Bromomethane	CT,ME,NH,VA,NY,NJ

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260D in Water</i>	
2-Butanone (MEK)	CT,ME,NH,VA,NY,NJ
n-Butylbenzene	ME,VA,NY,NJ
sec-Butylbenzene	ME,VA,NY,NJ
tert-Butylbenzene	ME,VA,NY,NJ
Carbon Disulfide	CT,ME,NH,VA,NY,NJ
Carbon Tetrachloride	CT,ME,NH,VA,NY,NJ
Chlorobenzene	CT,ME,NH,VA,NY,NJ
Chlorodibromomethane	CT,ME,NH,VA,NY,NJ
Chloroethane	CT,ME,NH,VA,NY,NJ
Chloroform	CT,ME,NH,VA,NY,NJ
Chloromethane	CT,ME,NH,VA,NY,NJ
Cyclohexane	ME,NY,NJ
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY,NJ
1,2-Dibromoethane (EDB)	ME,NY,NJ
1,2-Dichlorobenzene	CT,ME,NH,VA,NY,NJ
1,3-Dichlorobenzene	CT,ME,NH,VA,NY,NJ
1,4-Dichlorobenzene	CT,ME,NH,VA,NY,NJ
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY,NJ
1,1-Dichloroethane	CT,ME,NH,VA,NY,NJ
1,2-Dichloroethane	CT,ME,NH,VA,NY,NJ
1,1-Dichloroethylene	CT,ME,NH,VA,NY,NJ
cis-1,2-Dichloroethylene	ME,NY,NJ
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY,NJ
1,2-Dichloropropane	CT,ME,NH,VA,NY,NJ
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY,NJ
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY,NJ
1,4-Dioxane	ME,NY,NJ
Ethylbenzene	CT,ME,NH,VA,NY,NJ
Hexachlorobutadiene	CT,ME,NH,VA,NY,NJ
2-Hexanone (MBK)	CT,ME,NH,VA,NY,NJ
Isopropylbenzene (Cumene)	ME,VA,NY,NJ
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY,NJ
Methyl Acetate	ME,NY,NJ
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY,NJ
Methyl Cyclohexane	NY,NJ
Methylene Chloride	CT,ME,NH,VA,NY,NJ
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY,NJ
Naphthalene	ME,NH,VA,NY,NJ
n-Propylbenzene	CT,ME,NH,VA,NY,NJ
Styrene	CT,ME,NH,VA,NY,NJ
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY,NJ
Tetrachloroethylene	CT,ME,NH,VA,NY,NJ
Toluene	CT,ME,NH,VA,NY,NJ
1,2,3-Trichlorobenzene	ME,NH,VA,NY,NJ
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY,NJ
1,1,1-Trichloroethane	CT,ME,NH,VA,NY,NJ
1,1,2-Trichloroethane	CT,ME,NH,VA,NY,NJ

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260D in Water</i>	
Trichloroethylene	CT,ME,NH,VA,NY,NJ
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY,NJ
1,2,3-Trichloropropane	ME,NH,VA,NY,NJ
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY,NJ
1,2,4-Trimethylbenzene	ME,VA,NY,NJ
1,3,5-Trimethylbenzene	ME,VA,NY,NJ
Vinyl Chloride	CT,ME,NH,VA,NY,NJ
m+p Xylene	CT,ME,NH,VA,NY,NJ
o-Xylene	CT,ME,NH,VA,NY,NJ
Xylenes (total)	ME,NY,NJ
<i>SW-846 8270E in Water</i>	
1,4-Dioxane	NY,NH,NJ
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
2,2'-oxybis(1-Chloropropane)	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270E in Water</i>	
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC
<i>SW-846 9014 in Water</i>	
Cyanide	NY,CT,NH,NC,ME,VA,NJ

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2025
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
RI	Rhode Island Department of Health	LAO00373	12/30/2025
NC	North Carolina Div. of Water Quality	652	12/31/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2025

RAMBOLL

Quarterly System Sampling - March 2025

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Brian D. Dunn

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F		

Page 37

ge #1: MO A pace Time:

92 type: N = Normal env. sample, FD = field duplicate FR = Equipment Bl-

○ **Matrix:** SE = Sediment, SO = Soil, WG = Groundwater. WD = Water Quality

Reactive Code: 0 = none, 1 = HCl, 2 = HNO₃, 3 = H₂SO₄, 4 = NaOH, 5 = Zn Acetate

38

CHD 5436

2015-10-15

Iteration	α	β	γ
0	0.5	1.8	1.1
1	0.5	1.8	1.1
2	0.5	1.8	1.1
3	0.5	1.8	1.1
4	0.5	1.8	1.1
5	0.5	1.8	1.1
6	0.5	1.8	1.1
7	0.5	1.8	1.1
8	0.5	1.8	1.1
9	0.5	1.8	1.1
10	0.5	1.8	1.1
11	0.5	1.8	1.1
12	0.5	1.8	1.1
13	0.5	1.8	1.1
14	0.5	1.8	1.1
15	0.5	1.8	1.1
16	0.5	1.8	1.1
17	0.5	1.8	1.1
18	0.5	1.8	1.1
19	0.5	1.8	1.1
20	0.5	1.8	1.1
21	0.5	1.8	1.1
22	0.5	1.8	1.1
23	0.5	1.8	1.1
24	0.5	1.8	1.1
25	0.5	1.8	1.1
26	0.5	1.8	1.1
27	0.5	1.8	1.1
28	0.5	1.8	1.1
29	0.5	1.8	1.1
30	0.5	1.8	1.1
31	0.5	1.8	1.1
32	0.5	1.8	1.1
33	0.5	1.8	1.1
34	0.5	1.8	1.1
35	0.5	1.8	1.1
36	0.5	1.8	1.1
37	0.5	1.8	1.1
38	0.5	1.8	1.1
39	0.5	1.8	1.1
40	0.5	1.8	1.1
41	0.5	1.8	1.1
42	0.5	1.8	1.1
43	0.5	1.8	1.1
44	0.5	1.8	1.1
45	0.5	1.8	1.1
46	0.5	1.8	1.1
47	0.5	1.8	1.1
48	0.5	1.8	1.1
49	0.5	1.8	1.1
50	0.5	1.8	1.1
51	0.5	1.8	1.1
52	0.5	1.8	1.1
53	0.5	1.8	1.1
54	0.5	1.8	1.1
55	0.5	1.8	1.1
56	0.5	1.8	1.1
57	0.5	1.8	1.1
58	0.5	1.8	1.1
59	0.5	1.8	1.1
60	0.5	1.8	1.1
61	0.5	1.8	1.1
62	0.5	1.8	1.1
63	0.5	1.8	1.1
64	0.5	1.8	1.1
65	0.5	1.8	1.1
66	0.5	1.8	1.1
67	0.5	1.8	1.1
68	0.5	1.8	1.1
69	0.5	1.8	1.1
70	0.5	1.8	1.1
71	0.5	1.8	1.1
72	0.5	1.8	1.1
73	0.5	1.8	1.1
74	0.5	1.8	1.1
75	0.5	1.8	1.1
76	0.5	1.8	1.1
77	0.5	1.8	1.1
78	0.5	1.8	1.1
79	0.5	1.8	1.1
80	0.5	1.8	1.1
81	0.5	1.8	1.1
82	0.5	1.8	1.1
83	0.5	1.8	1.1
84	0.5	1.8	1.1
85	0.5	1.8	1.1
86	0.5	1.8	1.1
87	0.5	1.8	1.1
88	0.5	1.8	1.1
89	0.5	1.8	1.1
90	0.5	1.8	1.1
91	0.5	1.8	1.1
92	0.5	1.8	1.1
93	0.5	1.8	1.1
94	0.5	1.8	1.1
95	0.5	1.8	1.1
96			

Confidential

21

1 of 3 covers

Page 92 of 138

38 *Quercus* 3/5/25 0140
Quercus 0.5 1.2 1.1 3/5/25 0140

	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Log In Back-Sheet

Client Rumbolt
 Project Curran Pond Site 202501
 MCP/RCP Required NA
 Deliverable Package Requirement NA
 Location 012 Bethpage New York
 PWSID# (When Applicable) NY
 Arrival Method:
 Courier ☒ Fed Ex ☐ Walk In ☐ Other ☐
 Received By / Date / Time Rum 3/5/25 014C
 Back-Sheet By / Date / Time A 3/5/25 832
 Temperature Method Gun #6
 WV samples: Yes (see note*) / No (follow normal procedure)
 Temp < 6° C Actual Temperature 0.5/18/11
 Rush Samples: Yes (No) Notify
 Short Hold: Yes No Notify Rum 5

Notes regarding Samples/COC outside of SOP:

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

Additional Container Notes

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

Effective Date: 06/11/2024

[illegible]



ANALYTICAL REPORT

Lab Number:	L2512167
Client:	Pace New England 39 Spruce St. East Longmeadow, MA 01028
ATTN:	Kyle Murray
Phone:	(413) 525-2332
Project Name:	25C0124
Project Number:	25C0124
Report Date:	03/13/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 25C0124
Project Number: 25C0124

Lab Number: L2512167
Report Date: 03/13/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2512167-01	ASF-CP-00-030423	WATER	Not Specified	03/04/25 09:15	03/05/25
L2512167-02	ASF-CP-01-030425	WATER	Not Specified	03/04/25 09:15	03/05/25
L2512167-03	ASF-CF-00-030425	WATER	Not Specified	03/04/25 10:00	03/05/25
L2512167-04	RW3-CP-00-030425	WATER	Not Specified	03/04/25 13:30	03/05/25
L2512167-05	RW-4-CP-01-030425	WATER	Not Specified	03/04/25 13:50	03/05/25
L2512167-06	RW-5-CP-01-030425	WATER	Not Specified	03/04/25 14:10	03/05/25

Project Name: 25C0124
Project Number: 25C0124

Lab Number: L2512167
Report Date: 03/13/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 25C0124

Lab Number: L2512167

Project Number: 25C0124

Report Date: 03/13/25

Case Narrative (continued)

Report Revision

March 13, 2025: All non-detect (ND) concentrations have been quantitated to the limit noted in the RL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Melissa Sturgis

Title: Technical Director/Representative

Date: 03/13/25

METALS

Project Name: 25C0124

Lab Number: L2512167

Project Number: 25C0124

Report Date: 03/13/25

SAMPLE RESULTS

Lab ID: L2512167-01

Date Collected: 03/04/25 09:15

Client ID: ASF-CP-00-030423

Date Received: 03/05/25

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Antimony, Total	ND		mg/l	0.0500	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Arsenic, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Barium, Total	0.0759		mg/l	0.0100	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Beryllium, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Cadmium, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Calcium, Total	9.85		mg/l	0.100	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Chromium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Cobalt, Total	ND		mg/l	0.0200	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Copper, Total	0.0460		mg/l	0.0100	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Iron, Total	ND		mg/l	0.0500	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Lead, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Magnesium, Total	6.05		mg/l	0.100	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Manganese, Total	0.138		mg/l	0.0100	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Mercury, Total	ND		mg/l	0.00020	--	1	03/11/25 10:59	03/11/25 13:49	EPA 7470A	1,7470A	CME
Nickel, Total	ND		mg/l	0.0250	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Potassium, Total	9.59		mg/l	2.50	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Selenium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Silver, Total	ND		mg/l	0.0070	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Sodium, Total	74.1		mg/l	2.00	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Thallium, Total	ND		mg/l	0.0200	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Vanadium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC
Zinc, Total	ND		mg/l	0.0500	--	1	03/11/25 09:44	03/11/25 14:39	EPA 3005A	1,6010D	DMC



Project Name: 25C0124

Lab Number: L2512167

Project Number: 25C0124

Report Date: 03/13/25

SAMPLE RESULTS

Lab ID: L2512167-02

Date Collected: 03/04/25 09:15

Client ID: ASF-CP-01-030425

Date Received: 03/05/25

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Antimony, Total	ND		mg/l	0.0500	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Arsenic, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Barium, Total	0.0767		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Beryllium, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Cadmium, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Calcium, Total	10.4		mg/l	0.100	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Chromium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Cobalt, Total	ND		mg/l	0.0200	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Copper, Total	0.0122		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Iron, Total	ND		mg/l	0.0500	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Lead, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Magnesium, Total	6.44		mg/l	0.100	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Manganese, Total	0.141		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Mercury, Total	ND		mg/l	0.00020	--	1	03/11/25 10:59	03/11/25 14:25	EPA 7470A	1,7470A	CME
Nickel, Total	ND		mg/l	0.0250	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Potassium, Total	10.1		mg/l	2.50	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Selenium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Silver, Total	ND		mg/l	0.0070	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Sodium, Total	75.9		mg/l	2.00	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Thallium, Total	ND		mg/l	0.0200	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Vanadium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC
Zinc, Total	ND		mg/l	0.0500	--	1	03/11/25 09:44	03/12/25 10:21	EPA 3005A	1,6010D	DMC



Project Name: 25C0124

Lab Number: L2512167

Project Number: 25C0124

Report Date: 03/13/25

SAMPLE RESULTS

Lab ID: L2512167-03

Date Collected: 03/04/25 10:00

Client ID: ASF-CF-00-030425

Date Received: 03/05/25

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Antimony, Total	ND		mg/l	0.0500	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Arsenic, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Barium, Total	0.0699		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Beryllium, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Cadmium, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Calcium, Total	9.35		mg/l	0.100	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Chromium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Cobalt, Total	ND		mg/l	0.0200	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Copper, Total	0.0287		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Iron, Total	ND		mg/l	0.0500	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Lead, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Magnesium, Total	6.26		mg/l	0.100	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Manganese, Total	0.136		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Mercury, Total	ND		mg/l	0.00020	--	1	03/11/25 10:59	03/11/25 14:08	EPA 7470A	1,7470A	CME
Nickel, Total	ND		mg/l	0.0250	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Potassium, Total	9.21		mg/l	2.50	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Selenium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Silver, Total	ND		mg/l	0.0070	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Sodium, Total	68.7		mg/l	2.00	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Thallium, Total	ND		mg/l	0.0200	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Vanadium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC
Zinc, Total	ND		mg/l	0.0500	--	1	03/11/25 09:44	03/12/25 09:28	EPA 3005A	1,6010D	DMC



Project Name: 25C0124

Lab Number: L2512167

Project Number: 25C0124

Report Date: 03/13/25

SAMPLE RESULTS

Lab ID: L2512167-04

Date Collected: 03/04/25 13:30

Client ID: RW3-CP-00-030425

Date Received: 03/05/25

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Antimony, Total	ND		mg/l	0.0500	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Arsenic, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Barium, Total	0.0508		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Beryllium, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Cadmium, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Calcium, Total	7.93		mg/l	0.100	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Chromium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Cobalt, Total	ND		mg/l	0.0200	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Copper, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Iron, Total	0.173		mg/l	0.0500	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Lead, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Magnesium, Total	5.95		mg/l	0.100	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Manganese, Total	0.197		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Mercury, Total	ND		mg/l	0.00020	--	1	03/11/25 10:59	03/11/25 14:28	EPA 7470A	1,7470A	CME
Nickel, Total	ND		mg/l	0.0250	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Potassium, Total	14.6		mg/l	2.50	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Selenium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Silver, Total	ND		mg/l	0.0070	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Sodium, Total	87.5		mg/l	2.00	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Thallium, Total	ND		mg/l	0.0200	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Vanadium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC
Zinc, Total	ND		mg/l	0.0500	--	1	03/11/25 09:44	03/12/25 10:27	EPA 3005A	1,6010D	DMC



Project Name: 25C0124

Lab Number: L2512167

Project Number: 25C0124

Report Date: 03/13/25

SAMPLE RESULTS

Lab ID: L2512167-05

Date Collected: 03/04/25 13:50

Client ID: RW-4-CP-01-030425

Date Received: 03/05/25

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Antimony, Total	ND		mg/l	0.0500	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Arsenic, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Barium, Total	0.0736		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Beryllium, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Cadmium, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Calcium, Total	10.8		mg/l	0.100	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Chromium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Cobalt, Total	ND		mg/l	0.0200	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Copper, Total	0.0371		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Iron, Total	ND		mg/l	0.0500	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Lead, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Magnesium, Total	6.64		mg/l	0.100	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Manganese, Total	0.0821		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Mercury, Total	ND		mg/l	0.00020	--	1	03/11/25 10:59	03/11/25 14:32	EPA 7470A	1,7470A	CME
Nickel, Total	ND		mg/l	0.0250	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Potassium, Total	9.13		mg/l	2.50	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Selenium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Silver, Total	ND		mg/l	0.0070	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Sodium, Total	66.1		mg/l	2.00	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Thallium, Total	ND		mg/l	0.0200	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Vanadium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC
Zinc, Total	ND		mg/l	0.0500	--	1	03/11/25 09:44	03/12/25 10:34	EPA 3005A	1,6010D	DMC



Project Name: 25C0124

Lab Number: L2512167

Project Number: 25C0124

Report Date: 03/13/25

SAMPLE RESULTS

Lab ID: L2512167-06

Date Collected: 03/04/25 14:10

Client ID: RW-5-CP-01-030425

Date Received: 03/05/25

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Antimony, Total	ND		mg/l	0.0500	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Arsenic, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Barium, Total	0.0936		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Beryllium, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Cadmium, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Calcium, Total	10.8		mg/l	0.100	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Chromium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Cobalt, Total	ND		mg/l	0.0200	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Copper, Total	0.0348		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Iron, Total	ND		mg/l	0.0500	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Lead, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Magnesium, Total	6.41		mg/l	0.100	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Manganese, Total	0.156		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Mercury, Total	ND		mg/l	0.00020	--	1	03/11/25 10:59	03/11/25 14:35	EPA 7470A	1,7470A	CME
Nickel, Total	ND		mg/l	0.0250	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Potassium, Total	6.18		mg/l	2.50	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Selenium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Silver, Total	ND		mg/l	0.0070	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Sodium, Total	66.0		mg/l	2.00	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Thallium, Total	ND		mg/l	0.0200	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Vanadium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC
Zinc, Total	ND		mg/l	0.0500	--	1	03/11/25 09:44	03/12/25 10:40	EPA 3005A	1,6010D	DMC



Project Name: 25C0124

Lab Number: L2512167

Project Number: 25C0124

Report Date: 03/13/25

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG2039008-1										
Aluminum, Total	ND		mg/l	0.100	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Antimony, Total	ND		mg/l	0.0500	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Arsenic, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Barium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Beryllium, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Cadmium, Total	ND		mg/l	0.0050	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Calcium, Total	ND		mg/l	0.100	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Chromium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Cobalt, Total	ND		mg/l	0.0200	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Copper, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Iron, Total	ND		mg/l	0.0500	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Lead, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Magnesium, Total	ND		mg/l	0.100	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Manganese, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Nickel, Total	ND		mg/l	0.0250	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Potassium, Total	ND		mg/l	2.50	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Selenium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Silver, Total	ND		mg/l	0.0070	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Sodium, Total	ND		mg/l	2.00	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Thallium, Total	ND		mg/l	0.0200	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Vanadium, Total	ND		mg/l	0.0100	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC
Zinc, Total	ND		mg/l	0.0500	--	1	03/11/25 09:44	03/11/25 14:11	1,6010D	DMC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG2039010-1										
Mercury, Total	ND		mg/l	0.00020	--	1	03/11/25 10:59	03/11/25 13:42	1,7470A	CME



Project Name: 25C0124
Project Number: 25C0124

Lab Number: L2512167
Report Date: 03/13/25

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7470A



Lab Control Sample Analysis **Batch Quality Control**

Project Name: 25C0124

Project Number: 25C0124

Lab Number: L2512167

Report Date: 03/13/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG2039008-2								
Aluminum, Total	102		-		80-120	-		
Antimony, Total	101		-		80-120	-		
Arsenic, Total	92		-		80-120	-		
Barium, Total	99		-		80-120	-		
Beryllium, Total	99		-		80-120	-		
Cadmium, Total	99		-		80-120	-		
Calcium, Total	95		-		80-120	-		
Chromium, Total	100		-		80-120	-		
Cobalt, Total	99		-		80-120	-		
Copper, Total	102		-		80-120	-		
Iron, Total	102		-		80-120	-		
Lead, Total	94		-		80-120	-		
Magnesium, Total	96		-		80-120	-		
Manganese, Total	98		-		80-120	-		
Nickel, Total	100		-		80-120	-		
Potassium, Total	102		-		80-120	-		
Selenium, Total	92		-		80-120	-		
Silver, Total	99		-		80-120	-		
Sodium, Total	100		-		80-120	-		
Thallium, Total	86		-		80-120	-		
Vanadium, Total	101		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control**Project Name:** 25C0124**Project Number:** 25C0124**Lab Number:** L2512167**Report Date:** 03/13/25

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG2039008-2					
Zinc, Total	101	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG2039010-2					
Mercury, Total	93	-	80-120	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: 25C0124

Project Number: 25C0124

Lab Number: L2512167

Report Date: 03/13/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 030423 QC Batch ID: WG2039008-3 WG2039008-4 QC Sample: L2512167-01 Client ID: ASF-CP-00-												
Aluminum, Total	ND	2	2.09	104		2.01	100		75-125	4		20
Antimony, Total	ND	0.5	0.508	102		0.502	100		75-125	1		20
Arsenic, Total	ND	0.12	0.110	92		0.111	92		75-125	1		20
Barium, Total	0.0759	2	2.07	100		2.02	97		75-125	2		20
Beryllium, Total	ND	0.05	0.0509	102		0.0493	99		75-125	3		20
Cadmium, Total	ND	0.053	0.0515	97		0.0506	95		75-125	2		20
Calcium, Total	9.85	10	19.6	98		18.9	90		75-125	4		20
Chromium, Total	ND	0.2	0.199	100		0.199	100		75-125	0		20
Cobalt, Total	ND	0.5	0.504	101		0.497	99		75-125	1		20
Copper, Total	0.0460	0.25	0.302	102		0.306	104		75-125	1		20
Iron, Total	ND	1	1.07	107		1.04	104		75-125	3		20
Lead, Total	ND	0.53	0.502	95		0.497	94		75-125	1		20
Magnesium, Total	6.05	10	15.5	94		15.5	94		75-125	0		20
Manganese, Total	0.138	0.5	0.633	99		0.612	95		75-125	3		20
Nickel, Total	ND	0.5	0.511	102		0.505	101		75-125	1		20
Potassium, Total	9.59	10	20.1	105		19.6	100		75-125	3		20
Selenium, Total	ND	0.12	0.115	96		0.114	95		75-125	1		20
Silver, Total	ND	0.05	0.0500	100		0.0508	102		75-125	2		20
Sodium, Total	74.1	10	85.8	117		82.8	87		75-125	4		20
Thallium, Total	ND	0.12	0.111	92		0.110	92		75-125	1		20
Vanadium, Total	ND	0.5	0.501	100		0.507	101		75-125	1		20

Matrix Spike Analysis
Batch Quality Control**Project Name:** 25C0124**Project Number:** 25C0124**Lab Number:** L2512167**Report Date:** 03/13/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 030423 QC Batch ID: WG2039008-3 WG2039008-4 QC Sample: L2512167-01 Client ID: ASF-CP-00-									
Zinc, Total	ND	0.5	0.530	106	0.522	104	75-125	2	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: 25C0124

Lab Number: L2512167

Project Number: 25C0124

Report Date: 03/13/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 030425 QC Batch ID: WG2039008-7 WG2039008-8 QC Sample: L2512167-03 Client ID: ASF-CF-00-									
Aluminum, Total	ND	2	1.98	99	1.97	98	75-125	1	20
Antimony, Total	ND	0.5	0.524	105	0.520	104	75-125	1	20
Arsenic, Total	ND	0.12	0.117	98	0.116	97	75-125	1	20
Barium, Total	0.0699	2	1.96	94	1.95	94	75-125	1	20
Beryllium, Total	ND	0.05	0.0522	104	0.0520	104	75-125	0	20
Cadmium, Total	ND	0.053	0.0530	100	0.0526	99	75-125	1	20
Calcium, Total	9.35	10	18.8	94	18.7	94	75-125	1	20
Chromium, Total	ND	0.2	0.200	100	0.199	100	75-125	1	20
Cobalt, Total	ND	0.5	0.505	101	0.501	100	75-125	1	20
Copper, Total	0.0287	0.25	0.267	95	0.266	95	75-125	0	20
Iron, Total	ND	1	1.00	100	1.01	101	75-125	1	20
Lead, Total	ND	0.53	0.529	100	0.528	100	75-125	0	20
Magnesium, Total	6.26	10	16.5	102	16.4	101	75-125	1	20
Manganese, Total	0.136	0.5	0.628	98	0.626	98	75-125	0	20
Nickel, Total	ND	0.5	0.533	107	0.528	106	75-125	1	20
Potassium, Total	9.21	10	19.4	102	19.5	103	75-125	1	20
Selenium, Total	ND	0.12	0.107	89	0.107	89	75-125	0	20
Silver, Total	ND	0.05	0.0520	104	0.0516	103	75-125	1	20
Sodium, Total	68.7	10	79.3	106	78.9	102	75-125	1	20
Thallium, Total	ND	0.12	0.108	90	0.108	90	75-125	0	20
Vanadium, Total	ND	0.5	0.518	104	0.516	103	75-125	0	20

Matrix Spike Analysis

Batch Quality Control

Project Name: 25C0124

Project Number: 25C0124

Lab Number: L2512167

Report Date: 03/13/25

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 030425 QC Batch ID: WG2039008-7 WG2039008-8 QC Sample: L2512167-03 Client ID: ASF-CF-00-030425									
Zinc, Total	ND	0.5	0.558	112	0.553	111	75-125	1	20
Total Metals - Mansfield Lab Associated sample(s): 01-06 030423 QC Batch ID: WG2039010-3 WG2039010-4 QC Sample: L2512167-01 Client ID: ASF-CP-00-030423									
Mercury, Total	ND	0.005	0.00488	98	0.00488	98	75-125	0	20
Total Metals - Mansfield Lab Associated sample(s): 01-06 030425 QC Batch ID: WG2039010-5 WG2039010-6 QC Sample: L2512167-03 Client ID: ASF-CF-00-030425									
Mercury, Total	ND	0.005	0.00482	96	0.00482	96	75-125	0	20

Project Name: 25C0124**Lab Number:** L2512167**Project Number:** 25C0124**Report Date:** 03/13/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2512167-01A	Plastic 250ml HNO3 preserved	A	<2	<2	18.4	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),K-TI(180),CD-TI(180),NA-TI(180),CA-TI(180)
L2512167-01A1	Plastic 250ml HNO3 preserved	A	<2	<2	18.4	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),K-TI(180),CD-TI(180),NA-TI(180),CA-TI(180)
L2512167-01A2	Plastic 250ml HNO3 preserved	A	<2	<2	18.4	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),CU-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),K-TI(180),CD-TI(180),NA-TI(180),CA-TI(180)
L2512167-02A	Plastic 250ml HNO3 preserved	A	<2	<2	18.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),PB-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2512167-03A	Plastic 250ml HNO3 preserved	A	<2	<2	18.4	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)

Project Name: 25C0124**Lab Number:** L2512167**Project Number:** 25C0124**Report Date:** 03/13/25**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2512167-04A	Plastic 250ml HNO3 preserved	A	<2	<2	18.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),V-TI(180),CO-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2512167-05A	Plastic 250ml HNO3 preserved	A	<2	<2	18.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),NA-TI(180),CD-TI(180),K-TI(180),CA-TI(180)
L2512167-06A	Plastic 250ml HNO3 preserved	A	<2	<2	18.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)

Project Name: 25C0124
Project Number: 25C0124

Lab Number: L2512167
Report Date: 03/13/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: 25C0124
Project Number: 25C0124

Lab Number: L2512167
Report Date: 03/13/25

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: 25C0124
Project Number: 25C0124

Lab Number: L2512167
Report Date: 03/13/25

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: 25C0124**Lab Number:** L2512167**Project Number:** 25C0124**Report Date:** 03/13/25

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

SM 2540D: TSS.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**

EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.** **EPA 522, EPA 537.1.**

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

SUBCONTRACT CHAIN OF CUSTODY

Pace New England

25C0124

L2512167
CONTEST – METALSSENDING LABORATORY:

Pace New England
39 Spruce Street
East Longmeadow, MA 01028
Phone: 413.525.2332
Fax: 413.525.6405
Project Manager: Kyle A. Murray

RECEIVING LABORATORY:

Pace Analytical Services - Westborough, MA
8 Walkup Drive
Westborough, MA 01581
Phone : (508) 898-9220
Fax: (508) 898-9193

Project Location: New York

Analysis	Sample Name	Due	Expires	Comments
Sample ID: 25C0124-01	ASF-CP-00-030423	Water	Sampled: 03/04/25 09:15	CAT A MS/MSD
SG-TAL 23 Metals 6010 (incl. Hg) Total		04/02/25 14:00	03/11/25 09:15	
MS/MSD Metal(s)		04/02/25 14:00	02/27/26 09:15	
<i>Containers Supplied:</i> 250 mL plastic + HNO3 (1 250 mL plastic + HNO3 (1 250 mL plastic + HNO3 (1				
Sample ID: 25C0124-02	ASF-CP-01-030425	Water	Sampled: 03/04/25 09:15	CAT A
SG-TAL 23 Metals 6010 (incl. Hg) Total		04/02/25 14:00	03/11/25 09:15	
<i>Containers Supplied:</i> 250 mL plastic + HNO3 (1				
Sample ID: 25C0124-03	ASF-CF-00-030425	Water	Sampled: 03/04/25 10:00	CAT A MS/MSD
SG-TAL 23 Metals 6010 (incl. Hg) Total		04/02/25 14:00	03/11/25 10:00	
<i>Containers Supplied:</i> 250 mL plastic + HNO3 (1				
Sample ID: 25C0124-05	RW3-CP-00-030425	Water	Sampled: 03/04/25 13:30	CAT A
SG-TAL 23 Metals 6010 (incl. Hg) Total		04/02/25 14:00	03/11/25 13:30	
<i>Containers Supplied:</i> 250 mL plastic + HNO3 (1				
Sample ID: 25C0124-07	RW-4-CP-01-030425	Water	Sampled: 03/04/25 13:50	CAT A
SG-TAL 23 Metals 6010 (incl. Hg) Total		04/02/25 14:00	03/11/25 13:50	
<i>Containers Supplied:</i> 250 mL plastic + HNO3 (1				
Sample ID: 25C0124-08	RW-5-CP-01-030425	Water	Sampled: 03/04/25 14:10	CAT A
SG-TAL 23 Metals 6010 (incl. Hg) Total		04/02/25 14:00	03/11/25 14:10	
<i>Containers Supplied:</i> 250 mL plastic + HNO3 (1				

Released By

Date

Received By

Date

Released By

Date

Received By

Date



March 25, 2025

Kyle Murray
Pace Analytical Services
39 Spruce St
East Longmeadow, MA 01028

RE: Project: 25C0124
Pace Project No.: 70342485

Dear Kyle Murray:

Enclosed are the analytical results for sample(s) received by the laboratory on March 12, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alexandria Correa
alexandria.correa@pacelabs.com
516-370-6000
Project Manager

Enclosures

cc: Raymond McCarthy, Pace Analytical Services - New
England
Ashley Rey
elon reports



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 25C0124
Pace Project No.: 70342485

Pace Analytical Services, LLC - Melville, NY

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Texas Certification #: T104704582

Florida Certification #: E871198

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 25C0124
Pace Project No.: 70342485

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70342485001	25C0124-01 ASF-CP-00-030423	Water	03/04/25 09:15	03/12/25 06:00
70342485002	25C0124-02 ASF-CP-01-030425	Water	03/04/25 09:15	03/12/25 06:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 25C0124
Pace Project No.: 70342485

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70342485001	25C0124-01 ASF-CP-00-030423	SM22 5310B	JWM	1
70342485002	25C0124-02 ASF-CP-01-030425	SM22 5310B	JWM	1

PACE-MV = Pace Analytical Services - Melville

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 25C0124

Pace Project No.: 70342485

Method: SM22 5310B

Description: 5310B TOC as NPOC

Client: Pace Analytical Services - New England

Date: March 25, 2025

General Information:

2 samples were analyzed for SM22 5310B by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25C0124

Pace Project No.: 70342485

Sample: 25C0124-01 ASF-CP-00-030423 Lab ID: 70342485001 Collected: 03/04/25 09:15 Received: 03/12/25 06:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5310B TOC as NPOC									
Analytical Method: SM22 5310B Pace Analytical Services - Melville									
Total Organic Carbon	1.8	mg/L	1.0	0.34	1		03/24/25 13:05	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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Date: 03/25/2025 09:45 AM



ANALYTICAL RESULTS

Project: 25C0124

Pace Project No.: 70342485

Sample: 25C0124-02 ASF-CP-01-030425 Lab ID: 70342485002 Collected: 03/04/25 09:15 Received: 03/12/25 06:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
5310B TOC as NPOC									
Analytical Method: SM22 5310B Pace Analytical Services - Melville									
Total Organic Carbon	1.8	mg/L	1.0	0.34	1		03/24/25 13:50	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 25C0124

Pace Project No.: 70342485

QC Batch: 390670

Analysis Method: SM22 5310B

QC Batch Method: SM22 5310B

Analysis Description: 5310B TOC

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70342485001, 70342485002

METHOD BLANK: 2054097

Matrix: Water

Associated Lab Samples: 70342485001, 70342485002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.50	0.34	03/24/25 12:31	

LABORATORY CONTROL SAMPLE: 2054098

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.3	103	85-115	

MATRIX SPIKE SAMPLE: 2054100

Parameter	Units	70342485001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.8	10	12.4	106	75-125	

SAMPLE DUPLICATE: 2054099

Parameter	Units	70342485001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.8	1.7	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Date: 03/25/2025 09:45 AM

Page 8 of 16

Page 130 of 138



QUALIFIERS

Project: 25C0124

Pace Project No.: 70342485

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25C0124
Pace Project No.: 70342485

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70342485001	25C0124-01 ASF-CP-00-030423	SM22 5310B	390670		
70342485002	25C0124-02 ASF-CP-01-030425	SM22 5310B	390670		

REPORT OF LABORATORY ANALYSIS

W0# : 70342485



CONTRACT CHAIN OF CUSTODY

Pace New England

25C0124

SENDING LABORATORY:

Pace New England
39 Spruce Street
East Longmeadow, MA 01028
Phone: 413.525.2332
Fax: 413.525.6405
Project Manager: Kyle A. Murray

RECEIVING LABORATORY:

Pace Analytical Services - Long Island, NY
575 Broad Hollow Road
Melville, NY 11747
Phone : (516) 370-6000
Fax: -

Project Location: New York

Analysis	Sample Name	Due	Expires	Comments
Sample ID: 25C0124-01	ASF-CP-00-030423	Water	Sampled: 03/04/25 09:15	CAT A MS/MSD
Total Organic Carbon		04/02/25 14:00	04/01/25 09:15	(JG 84)
Containers Supplied:				
250 mL amber + Phosphor				
Sample ID: 25C0124-02	ASF-CP-01-030425	Water	Sampled: 03/04/25 09:15	CAT A
Total Organic Carbon		04/02/25 14:00	04/01/25 09:15	16
Containers Supplied:				
250 mL amber + Phosphor				

Released By

Date

Received By

Date

Released By

Date

Received By

Date

RAMBOLLSampler(s):
(Signature)

Brian J. Dunn

Chain of Custody / Analysis Report

Page 1 of 1

2560124

Contact: Michael G. Grifasi

Address: 333 West Washington Street

Syracuse, New York 13221-4873

Phone: (315) 956-6100

Email: michael.grifasi@ramboll.com

Project: NYSDC Claremont Poly Site 2025 Q1 Sampling

YSDEC Standby Contract

Location: Old Bethpage, New York

Laboratory:

Pace Analytical Services

39 Spruce St., East

Longmeadow, MA 01028

Attn: Kyle Murray

Phone: 413-525-2332

Package Requirement:

Level 2 and Level 3

EDD Format:

EQUIS 4-file

Holding Time:

Number of Containers

Grab (g) or Composite (C)

Field Filtered? (Y/N)

TDS by 2540C

TDS by 2540C

TDS by 2540C

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Quarterly System Sampling - March 2025

(2) Special Instructions:

In the top boxes if the samples are to be shipped via courier (e.g., FedEx):

Inquired by: *Brian J. Dunn*Inquired by: *Brian J. Dunn*Inquired by: *Brian J. Dunn*Inquired by: *Brian J. Dunn*Inquired by: *Brian J. Dunn*Inquired by: *Brian J. Dunn*Inquired by: *Brian J. Dunn*Inquired by: *Brian J. Dunn*Inquired by: *Brian J. Dunn*Inquired by: *Brian J. Dunn*Inquired by: *Brian J. Dunn*Inquired by: *Brian J. Dunn*Inquired by: *Brian J. Dunn*Inquired by: *Brian J. Dunn*Inquired by: *Brian J. Dunn*Inquired by: *Brian J. Dunn*

Other comments or notes regarding condition of samples as received:

Condition:

Custody Seals Intact? (if so, indicate the #, date, and time of the seal)

Cooler Temperature:

Cooler Temperature:

Cooler Temperature:

Cooler Temperature:

Cooler Temperature:

Cooler Temperature:

Cooler Temperature:

Cooler Temperature:

Cooler Temperature:

Cooler Temperature:

Cooler Temperature:

Cooler Temperature:

Cooler Temperature:

Cooler Temperature:

WO#: 70342403

PM: ALC Due Date: 03/21/25
CLIENT: Pace-CON

Client Name:

Pace-CON

Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☒ Yes ☐ No Seals intact: ☒ Yes ☐ No Temperature Blank Present: ☐ Yes ☒ No
Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ Ziploc ☐ None ☐ Other Type of Ice: ☒ Wet ☐ Blue ☐ None

Thermometer Used: TA20 Correction Factor: 10.2 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 3.5 Cooler Temperature Corrected(°C): 3.7 Date/Time 5035A kits placed in freezer

Temp should be above freezing to 5°C

USDA Regulated Soil (☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or
VA (check map)? ☐ Yes ☐ No

Did samples originate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork

Date and Initials of person examining contents:

3/12/25
[Signature]

	COMMENTS:
Chain of Custody Present: ☒ Yes ☐ No	1
Chain of Custody Filled Out: ☒ Yes ☐ No	2
Chain of Custody Relinquished: ☒ Yes ☐ No	3
Sampler Name & Signature on COC: ☒ Yes ☐ No ☐ N/A	4
Samples Arrived within Hold Time: ☒ Yes ☐ No	5
Short Hold Time Analysis (<72hr): ☒ Yes ☐ No	6
Rush Turn Around Time Requested: ☐ Yes ☒ No	7
Sufficient Volume (Triple volume provided for MS/MSD) ☒ Yes ☐ No	8
Correct Containers Used: ☒ Yes ☐ No	9
-Pace Containers Used ☒ Yes ☐ No	
Containers Intact: ☒ Yes ☐ No	10
Filtered volume received for Dissolved tests ☐ Yes ☐ No ☒ N/A	11 Note if sediment is visible in the dissolved container
Sample Labels match COC ☒ Yes ☐ No	12
-includes date/time/ID/Analysis Matrix: ☒ SL ☐ WT ☐ OIL ☐ OTHER	

Date and Initials of person checking preservation:

3/12/25
[Signature]

All containers needing preservation have been pH paper Lot #	☐ Yes ☐ No ☒ N/A	13	☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, ☐ Yes ☐ No ☒ N/A NAOH>12 Cyanide)			Sample #
Exceptions VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water)			Initial when completed
Per Method, VOA pH is checked after analysis			Lot # of added preservative
Samples checked for dechlorination: ☐ Yes ☐ No ☒ N/A			Date/Time preservative added
KI starch test strips Lot #		14	
Residual chlorine strips Lot #			Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulf ☐ Yes ☐ No ☒ N/A		15	Positive for Sulfide? Y N
Lead Acetate Strips Lot #			
Headspace in ALK Bottle (>6mm): ☐ Yes ☐ No ☒ N/A		16	
Headspace in VOA Vials (>6mm): ☐ Yes ☐ No ☒ N/A		17	
Trip Blank Present: ☐ Yes ☐ No ☒ N/A			
Trip Blank Custody Seals Present ☐ Yes ☐ No ☒ N/A			

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.

SUBCONTRACT CHAIN OF CUSTODY

Pace New England

25C0124

SENDING LABORATORY:

Pace New England
 39 Spruce Street
 East Longmeadow, MA 01028
 Phone: 413.525.2332
 Fax: 413.525.6405
 Project Manager: Kyle A. Murray

RECEIVING LABORATORY:

Pace Analytical Services - Long Island, NY
 575 Broad Hollow Road
 Melville, NY 11747
 Phone : (516) 370-6000
 Fax: -

Project Location: New York

Analysis	Sample Name	Due	Expires	Comments
Sample ID: 25C0124-01	ASF-CP-00-030423	Water	Sampled: 03/04/25 09:15	CAT A MS/MSD
Total Organic Carbon		04/02/25 14:00	04/01/25 09:15	
<i>Containers Supplied:</i> 250 mL amber + Phosphor 250 mL amber + Phosphor 250 mL amber + Phosphor				
Sample ID: 25C0124-02	ASF-CP-01-030425	Water	Sampled: 03/04/25 09:15	CAT A
Total Organic Carbon		04/02/25 14:00	04/01/25 09:15	
<i>Containers Supplied:</i> 250 mL amber + Phosphor				

WO# : 70342485



70342485

Released By

Date

Received By

Date

Released By

Date

Received By

Date

RAMBOLLSampler(s):
(Signature)

Brian J. Dunn

Chain of Custody / Analysis Report

25C0124

Page 1 of 1

Contact: Michael G. Grifasi		Laboratory:		Holding Time:	
Address: 333 West Washington Street Syracuse, New York 13221-4873		Pace Analytical Services 39 Spruce St., East Longmeadow, MA 01028			
Phone: (315) 956-6100		Attn: Kyle Murray Phone: 413-525-2332		Package Requirement: Level 2 and Level 3 EDD Format: EQUS 4-file	
Project: NYSDDEC Claremont Poly Site 2025 Q1 Sampling		YSDEC Standby Contract		Location: Old Bethpage, New York	

Sample Identification										Number of Containers		Grab [G] or Composite [C]		Field Filtered?		Analysis Required												Lab Sample ID	Lab Number	Project Number	Lab Study ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Unique Field Sample ID (sys_sample_code)	Sample Location	Date	Time	Sample Type (See Key)	Sample Matrix (See Key)	Grab [G] or Composite [C]	Field Filtered?	DER TCL VOCs by 8260d	DER TCL SVORVT by 8270	TAL 23 Metals by 6010/7470	TDS by 2540C	TSS by 2540D	Hexavalent Chromium by 7196	Nitrogen (TKN) by 4500	TOC by 5310B	Anions (Cl, F, SO4) by 300	Cyanide by 9014	PFAS by 1633	1,4-Dioxane by 8270 SIM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
1 ASF-CP-00-030425	ASF	3/4/2025	09/15	N	WG	11	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Special Instructions: Quarterly System Sampling - March 2025

e the top boxes if the samples are to be shipped via courier (e.g., FedEx)

Carrier Name: FedEx

Date: 3/4/25

W0#: 70342485

Comments or

PM: ALC Due Date: 03/21/25
CLIENT: Pace-CON

on of samples

Inquired by: Brian J. Dunn

Tracking #: MO A Pace

Date: 3/4/25

Cooler Temperature: 1.9 (C)

Lab Sample ID

Inquired by: VMD P.L.E

Tracking #: MO A Pace

Date: 3/4/25

Cooler Temperature: 1.9 (C)

Lab Sample ID

Inquired by: VMD P.L.E

Tracking #: MO A Pace

Date: 3/4/25

Cooler Temperature: 1.9 (C)

Lab Sample ID

Inquired by: VMD P.L.E

Tracking #: MO A Pace

Date: 3/4/25

Cooler Temperature: 1.9 (C)

Lab Sample ID

Inquired by: VMD P.L.E

Tracking #: MO A Pace

Date: 3/4/25

Cooler Temperature: 1.9 (C)

Lab Sample ID

Inquired by: VMD P.L.E

Tracking #: MO A Pace

Date: 3/4/25

Cooler Temperature: 1.9 (C)

Lab Sample ID

DOC# Title ENV-FRM-MELV-0024 v07_SCUR
Effective Date 4/12/2024

WO#: 70342485

PM: ALC

Due Date: 03/21/25

CLIENT: Pace-CON

Client Name

Project #

Courier: ☐ Fed Ex ☐ UPS ☒ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals intact: ☐ Yes ☐ No Temperature Blank Present: ☐ Yes ☐ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other Type of Ice: Wet Blue None

Thermometer Used: TH211 Correction Factor: 10.2 ☐ Samples on ice: cooling process has begun
Cooler Temperature (°C): 2.0 Cooler Temperature Corrected (°C): 2.2 Date/Time 5035A kits placed in freezer
Temp should be above freezing to 5 °C

USDA Regulated Soil ☒ N/A water sample)

Did samples originate in a quarantine zone within the United States AL AR CA FL GA ID LA MS NC NM NY OK OR SC TN TX, or
VA (check map)? ☐ Yes ☐ No

Did samples originate from a foreign source including Hawaii and Puerto Rico? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents:

		COMMENTS:
Chain of Custody Present	☒ Yes ☐ No	1
Chain of Custody Filled Out	☒ Yes ☐ No	2
Chain of Custody Relinquished	☒ Yes ☐ No	3
Sampler Name & Signature on COC	☒ Yes ☐ No ☐ N/A	4
Samples Arrived within Hold Time	☒ Yes ☐ No	5
Short Hold Time Analysis (<72hr)	☒ Yes ☐ No	6
Rush Turn Around Time Requested	☒ Yes ☐ No	7
Sufficient Volume (Triple volume provided for MS/MSD)	☒ Yes ☐ No	8 <u>extra volume sent for pre-existing w/o</u>
Correct Containers Used	☒ Yes ☐ No	9
Pace Containers Used	☒ Yes ☐ No	
Containers Intact	☒ Yes ☐ No	10
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11 Note: if sediment is visible in the dissolved container
Sample Labels match COC	☒ Yes ☐ No	12
Includes date/time/DI/Analysis Matrix	SL ☒ WT ☐ DI ☐ OTHER	

Date and Initials of person checking preservation:

All containers needing preservation have been	☐ Yes ☐ No ☒ N/A	13	☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot #			Sample #
All containers needing preservation are found to be in compliance with method recommendation?	☐ Yes ☐ No ☒ N/A		
(HNO ₃ H ₂ SO ₄ HCl NaOH > 9 Sulfide ☐ Yes ☐ No ☒ N/A NaOH > 12 Cyanide)			
Exceptions VOA Coliform TOC/DOC Oil and Grease DRO/8015 (water)			Initial when completed
Per Method VOA pH is checked after analysis			Lot # of added preservative
Samples checked for dechlorination	☐ Yes ☐ No ☒ N/A	14	Date/Time preservative added
Ki starch test strips Lot #			
Residual chlorine strips Lot #			Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulf	☐ Yes ☐ No ☒ N/A	15	Positive for Sulfide? Y N
Lead Acetate Strips Lot #			
Headspace in ALK Bottle (>6mm)	☐ Yes ☐ No ☒ N/A		
Headspace in VOA Vials (>6mm)	☐ Yes ☐ No ☒ N/A	16	
Trip Blank Present	☐ Yes ☐ No ☒ N/A	17	
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS

March 17, 2025

Payson Long
NYDEC_Ramboll US Consulting, Inc. - Syracuse
333 West Washington Street, PO Box 4873
Syracuse, NY 13202

Project Location: Old Bethpage, New York
Client Job Number:
Project Number: 130015
Laboratory Work Order Number: 25C0502

Enclosed are results of analyses for samples as received by the laboratory on March 11, 2025. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle A. Murray
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
25C0502-01	5
25C0502-02	6
Sample Preparation Information	7
QC Data	8
1,4-Dioxane by isotope dilution GC/MS	8
B400594	8
Flag/Qualifier Summary	9
Certifications	10
Chain of Custody/Sample Receipt	11



Pace Analytical Services, LLC - East Longmeadow, Ma

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

NYDEC_Ramboll US Consulting, Inc. - Syracuse
333 West Washington Street, PO Box 4873
Syracuse, NY 13202
ATTN: Payson Long

REPORT DATE: 3/17/2025

PURCHASE ORDER NUMBER: 151811

PROJECT NUMBER: 130015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 25C0502

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: Old Bethpage, New York

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PD-CP-00-031025	25C0502-01	Ground Water		SW-846 8270E	
PD-CP-01-031025	25C0502-02	Ground Water		SW-846 8270E	

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 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



Project Location: Old Bethpage, New York

Date Received: 3/11/2025

Field Sample #: PD-CP-00-031025

Sample ID: 25C0502-01

Sample Matrix: Ground Water

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

Sample Description:

Work Order: 25C0502

Sampled: 3/10/2025 13:15

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	20	0.19	µg/L	1		SW-846 8270E	3/11/25	3/14/25 13:20	GJB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
1,4-Dioxane-d8		27.0	15-110				3/14/25 13:20		



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Project Location: Old Bethpage, New York

Sample Description:

Work Order: 25C0502

Date Received: 3/11/2025

Field Sample #: PD-CP-01-031025

Sampled: 3/10/2025 13:15

Sample ID: 25C0502-02

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	20	0.19	µg/L	1		SW-846 8270E	3/11/25	3/14/25 13:40	GJB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
1,4-Dioxane-d8	29.3	15-110						3/14/25 13:40	



Pace Analytical Services, LLC - East Longmeadow, Ma

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

Sample Extraction Data**Prep Method:**SW-846 3510C **Analytical Method:**SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25C0502-01 [PD-CP-00-031025]	B400594	1050	1.00	03/11/25
25C0502-02 [PD-CP-01-031025]	B400594	1050	1.00	03/11/25

QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Batch B400594 - SW-846 3510C								
Blank (B400594-BLK1)				Prepared: 03/11/25 Analyzed: 03/14/25				
1,4-Dioxane	ND	0.20	µg/L					
Surrogate: 1,4-Dioxane-d8	2.90		µg/L	10.00		29.0	15-110	
LCS (B400594-BS1)				Prepared: 03/11/25 Analyzed: 03/14/25				
1,4-Dioxane	10.3	0.20	µg/L	10.00		103	40-140	
Surrogate: 1,4-Dioxane-d8	3.38		µg/L	10.00		33.8	15-110	
LCS Dup (B400594-BSD1)				Prepared: 03/11/25 Analyzed: 03/14/25				
1,4-Dioxane	10.9	0.20	µg/L	10.00		109	40-140	6.47 30
Surrogate: 1,4-Dioxane-d8	3.11		µg/L	10.00		31.1	15-110	

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.



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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
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SW-846 8270E in Water

1,4-Dioxane	NY,NH,NJ
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Pace Analytical Services, LLC - East Longmeadow, Ma, operates under the following certifications and accreditations:

Code	Description	Number	Expires
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2026
NJ	New Jersey DEP	MA007 NELAP	06/30/2025

Page 11 of 13

	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Log In Back-Sheet

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

Client <u>Rumbl</u>	True	False
Project <u>Chippmunk Pond Site Q1 sampling</u>	☒	☐
MCP/RCP Required <u>NA</u>	☒	☐
Deliverable Package Requirement <u>NA</u>	☒	☐
Location <u>Old Bethpage, New York</u>	☒	☐
PWSID# (When Applicable) <u>NA</u>	☒	☐
Arrival Method:	☒	☐
Courier ☒ Fed Ex ☐ Walk In ☐ Other ☐	☒	☐
Received By / Date / Time <u>LA 3/11/25/35</u>	☒	☐
Back-Sheet By / Date / Time <u>LA 3/11/25/905</u>	☒	☐
Temperature Method <u>gln # 6</u>	☒	☐
WV samples: Yes (see note*) ☒ No ☐ (follow normal procedure)	☒	☐
Temp <u>✓ < 6°C</u> Actual Temperature <u>2.2</u>	☒	☐
Rush Samples: Yes ☒ No ☐ Notify	☒	☐
Short Hold: Yes ☒ No ☐ Notify	☒	☐

Notes regarding Samples/COC outside of SOP:

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

Additional Container Notes

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

Effective Date: 06/11/2024

Page 13 of 13