NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

Intended for

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

Document type

Report

Date

May 2025

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

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

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

Project name	**Claremont Polychemical Corporation Site**
Project no.	**1087815.1940101703**
Recipient	**New York State Department of Environmental Conservation**
Document type	**Report**
Version	**[1]**
Date	**May 8, 2025**
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LIST OF ACRONYMS AND ABBRIEVIATIONS

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 April 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, April 1, 2025, through approximately 0800 hours, April 30, 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 29 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 (RW) 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 April.

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 (April 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 April activities is further provided in the plant operator's daily logbook.

Maintenance and project activities undertaken during the April 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 pressure filter feed (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 April 22, 2025, JP Express delivered plastic drums to the site for use in transporting treated (post air stripper) groundwater to Purifics Water, Inc. in Ontario, Canada for treatability testing.
- On April 25, 2025, Pace courier delivered coolers and supplies for the monthly OU5 system sampling for May 2025.
- On April 28, Old Dominion trucking loaded and removed four drums of treated (post air stripper) groundwater to be transported to Purifics Water, Inc for treatability testing .

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 early June 2025 and will be conducted by Ramboll.

6. TREATMENT SYSTEM FLOWS

During the April 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 April 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 April, the plant discharge was directed to Recharge Basin 1. On April 21, 2025, treated water discharge was redirected to Basin 33.

The total volume of treated water discharged from ~0800 hours April 1, 2025 to ~0800 hours April 30, 2025 was approximately 29,820,000 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 April 2025 are provided in **Table 3**, both following the text of this report.

Under current conditions, the programmable logic controller (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 April 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 April 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 April 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 April 3, 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 and is preparing 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 April 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 April sampling activities included:

- The April PD data was processed and submitted.
- Monthly system sampling was completed on April 3, 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 April 2025 can be found in **Table 8** following the text of this report.

The April 2025 average pH measurement was 7.16 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 April 2025 readings from the AS tower are provided in **Table 10**.

Other routine data collected in April 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 deactivated in April 2025.
- 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 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 visuallyinspected.
- 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 Recharge Basin 33 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.
-

- Island Fire Defense Systems (IFDS) was called to OU5 on February 19, 2025 to troubleshoot alarm conditions which resulted from a regional power outage. During their visit, IFDS identified several problems with the fire alarm system, several of which are related to the advanced age of the components. IFDS recommended an assessment be performed on the fire alarm system to identify repair and/or replacement needs to keep the system fully operational. IFDS provided Ramboll with a proposal to perform an assessment of the fire alarm system. This assessment will be scheduled for the next several months. The results of this assessment will be used to specify necessary repairs to the fire alarm system.

14. GROUNDS

14.1 Plant Perimeter

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

14.2 Well Field

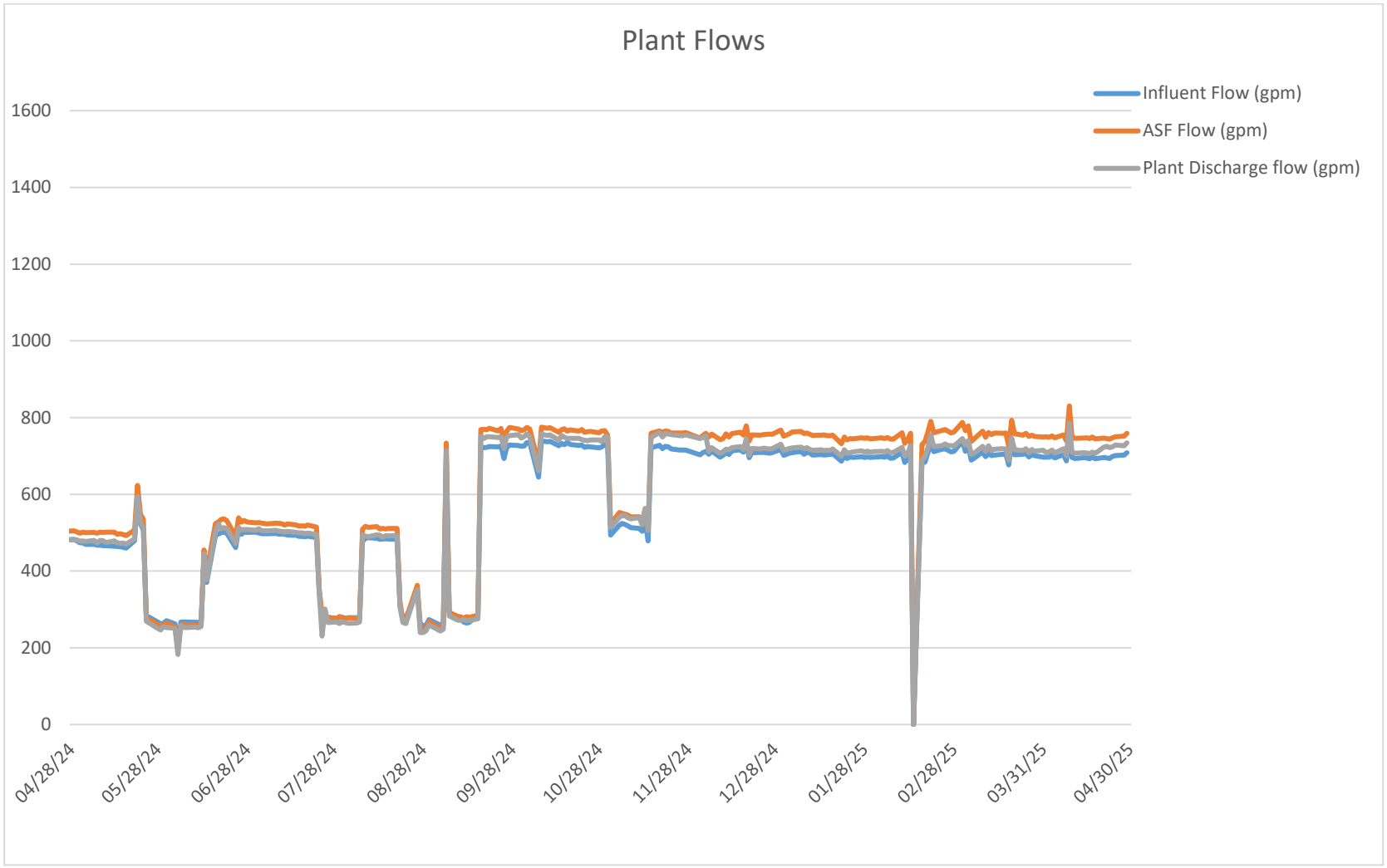
- Well field, and recharge basin inspections continue. Quarterly groundskeeping activities are performed to clear vegetation and poison ivy from around all well fields in anticipation of quarterly groundwater sampling events. In addition, the entrance to Recharge Basin 33 is maintained for ease of access.

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 vailed 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
April 2025	716	1,028,276	29,820,000	0	41,620

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

April 2025 Flows						
	Plant Influent		Plant Discharge		RW Discharge	
Date	Volume	Avg. Flow	Volume	Avg. Flow	Volume	Avg. Flow
04/01/25	-	749	-	715	-	697
04/02/25	1,080,000	750	1,020,000	708	1,003,000	697
04/03/25	1,078,000	749	1,023,000	710	1,003,000	697
04/04/25	1,083,000	752	1,030,000	715	1,009,000	701
04/07/25	3,228,000	747	3,059,000	708	3,002,000	695
04/08/25	1,087,000	755	1,035,000	719	1,013,000	703
04/09/25	961,000	739	911,000	701	893,000	687
04/10/25	1,071,000	830	1,014,000	786	995,000	771
04/11/25	1,079,000	749	1,022,000	710	1,002,000	696
04/14/25	3,334,000	746	3,161,000	707	3,099,000	693
04/15/25	1,075,000	747	1,020,000	708	1,001,000	695
04/16/25	1,076,000	747	1,019,000	708	1,000,000	694
04/17/25	1,073,000	745	1,016,000	706	997,000	692
04/18/25	1,079,000	749	1,022,000	710	1,005,000	698
04/21/25	3,218,000	745	3,052,000	706	2,992,000	693
04/22/25	1,075,000	747	1,041,000	723	1,002,000	696
04/23/25	1,073,000	745	1,044,000	725	1,000,000	694
04/24/25	1,071,000	744	1,039,000	722	998,000	693
04/25/25	1,076,000	747	1,042,000	724	1,006,000	699
04/28/25	3,242,000	750	3,147,000	728	3,028,000	701
04/29/25	1,082,000	751	1,046,000	726	1,011,000	702
04/30/25	1,093,000	759	1,057,000	734	1,020,000	708
	April Total Plant **Influent** (Gal)			31,234,000		
	April Total Plant **Effluent** (Gal)			29,820,000		
	April Total **RW Discharge** (Gal)			29,079,000		

Acronyms: gal - gallons gpm – gallons per minute

Table 4
Pump System Flow Readings

April 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	41,620	241	346,483	10,048,000
RW-4	41,620	257	368,172	10,677,000
RW-5	41,620	233	335,103	9,718,000
RW Totals	41,620	699	1,002,724	29,079,000
Plant Influent	41,620	750	1,077,034	31,234,000
Plant Effluent	41,620	716	1,028,276	29,820,000

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

The treatment process was online 29 days in April 2025 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
April 3, 2025

Parameters	Discharge Limitations (SPDES)	Units	Results
pH (range)	*6.5 – 8.5*	*su*	*7.16*
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	NS
Arsenic, Total recoverable	50	ug/l	NS
Barium, Total recoverable	2000	ug/l	NS
Chromium, Hexavalent	100	ug/l	NS
Lead, Total recoverable	50	ug/l	NS
Iron, Total recoverable	600	ug/l	NS
Manganese, Total recoverable	600	ug/l	NS
Mercury	Not indicated	ug/l	NS
Zinc	Not indicated	mg/l	NS
Nitrogen, Total (as N)	10	mg/l	NS
Selenium, Total recoverable	40	ug/l	NS
Solids, Total Dissolved	1000	mg/l	NS
Chloride Ion	NL	mg/l	NS
Cyanide	Not indicated	ug/l	NS
Fluoride Ion	NL	mg/l	NS

Parameters	Discharge Limitations (SPDES)	Units	Results
Sulfate Ion	NL	mg/l	NS

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
April 3, 2025

Parameters	Guidance Values	Units	Influent Results	Effluent Results
PFOA	6.7[1]	ng/l	47	43
PFOS	2.7[1]	ng/l	16	14
1,4-Dioxane	0.35[1]	ug/l	21	21

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 (^{o}C)
04/02/25	6.98	15.5
04/08/25	7.61	13.9
04/16/25	7.02	16.5
04/24/25	7.04	15.9
April Average	**7.16 su**	**15.5 ^{o}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
Apr`25	7.16

Plant Discharge Monthly Average pH Reading

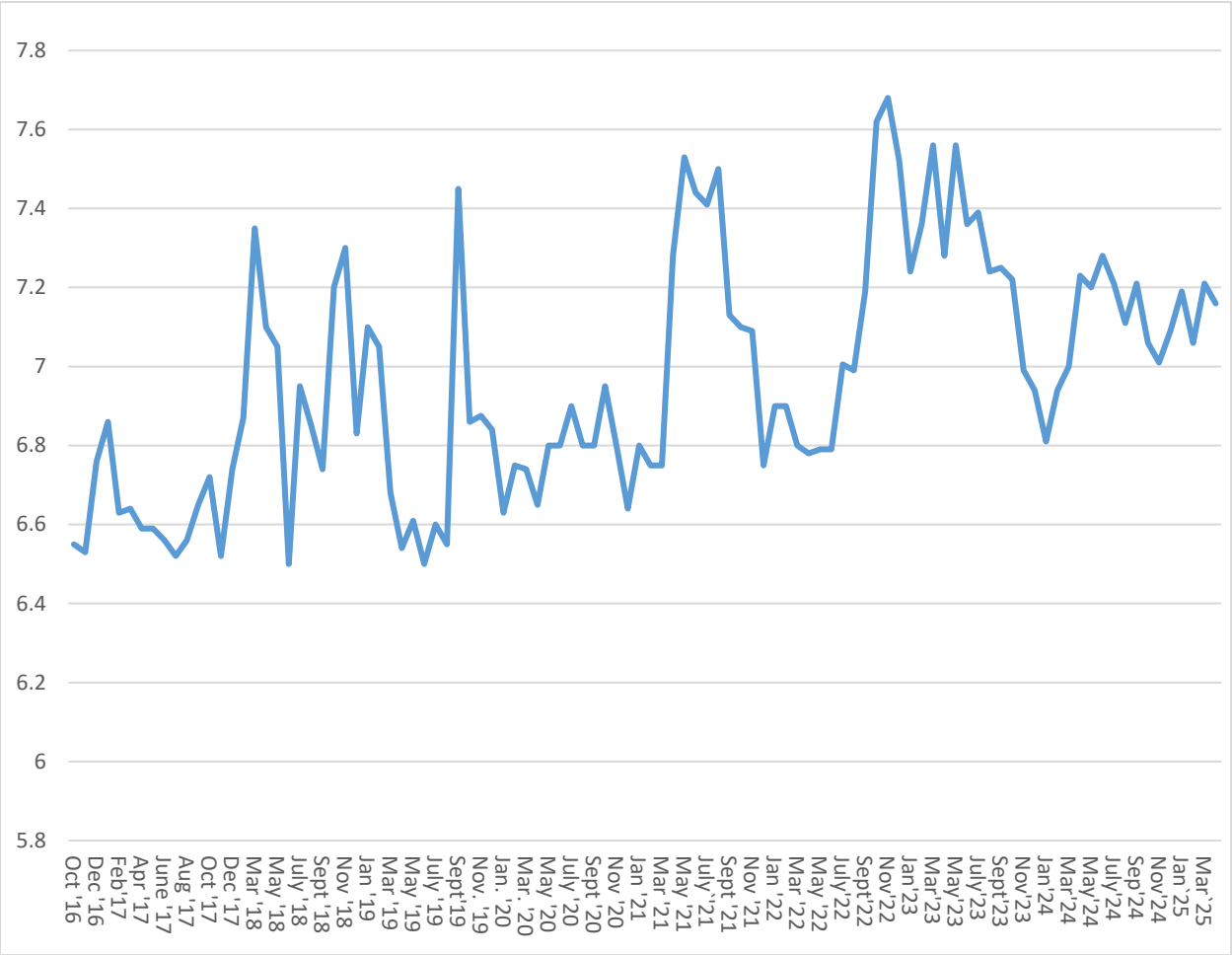


Table 10
AS Tower Air Monitoring Readings

Recorded Date	Port B (ppm)
04/02/25	0.1
04/08/25	0.1
04/16/25	0.0
04/23/25	0.1

ATTACHMENT 1
MONTHLY O&M SAMPLING ANALYTICAL RESULTS –APRIL 3, 2025

Pace Analytical Services, LLC - East Longmeadow, Ma

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

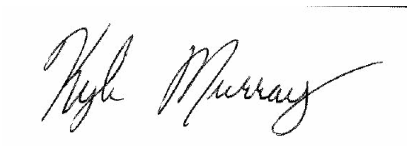
April 22, 2025

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

Project Location: Old Bethpage, NY
Client Job Number:
Project Number: 130015
Laboratory Work Order Number: 25D0332

Enclosed are results of analyses for samples as received by the laboratory on April 4, 2025. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle A. Murray
Project Manager

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Pace Analytical Services, LLC - East Longmeadow, Ma

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

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

REPORT DATE: 4/22/2025

PURCHASE ORDER NUMBER: 151811

PROJECT NUMBER: 130015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 25D0332

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, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PD-CP-00-040325	25D0332-01	Ground Water		Draft Method 1633	
				SW-846 8260D	
				SW-846 8270E	
PD-CP-01-040325	25D0332-02	Ground Water		Draft Method 1633	
				SW-846 8260D	
				SW-846 8270E	
ASF-CP-00-040325	25D0332-03	Ground Water		Draft Method 1633	
				SW-846 8270E	
ASF-CP-01-040325	25D0332-04	Ground Water		Draft Method 1633	
				SW-846 8270E	
TB-040325	25D0332-05	Trip Blank Water		SW-846 8260D	

Pace Analytical Services, LLC - East Longmeadow, Ma

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

CASE NARRATIVE SUMMARY

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

Pace Analytical Services, LLC - East Longmeadow, Ma

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

Draft Method 1633

Qualifications:

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:

11Cl-PF3OUdS (F53B Major)
B402829-BLK1

13C3-HFPO-DA
B402829-BLK1

4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
B402829-BLK1

9Cl-PF3ONS (F53B Minor)
B402829-BLK1

D9-NEtFOSE
S120471-CCB1, S120503-CCB1

Hexafluoropropylene oxide dimer acid (HFPO-DA)
B402829-BLK1

N-ethylperfluorooctanesulfonamidoethanol (NEtFO
S120471-CCB1, S120503-CCB1

PF-22

Qualifier ion ratio >150% of associated calibration. Detection is suspect.

Analyte & Samples(s) Qualified:

N-EtFOSAA (NEtFOSAA)
25D0332-04[ASF-CP-01-040325]

SW-846 8260D

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DBCP)
B402402-BS1, B402402-BSD1, B402402-MS1, B402402-MSD1, S120036-CCV1

MS-15

Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DBCP)
B402402-MS1, B402402-MSD1

Trichlorofluoromethane (Freon 11)
B402402-MS1, B402402-MSD1

MS-24

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

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 12)
B402402-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
25D0332-01[PD-CP-00-040325], 25D0332-02[PD-CP-01-040325], 25D0332-05[TB-040325], B402402-BLK1, B402402-BS1, B402402-BSD1, B402402-MS1, B402402-MSD1, S120036-CCV1

Chloromethane
25D0332-01[PD-CP-00-040325], 25D0332-02[PD-CP-01-040325], 25D0332-05[TB-040325], B402402-BLK1, B402402-BS1, B402402-BSD1, B402402-MS1, B402402-MSD1, S120036-CCV1

Pace Analytical Services, LLC - East Longmeadow, Ma

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)
B402402-BS1, B402402-BSD1, B402402-MS1, B402402-MSD1, S120036-CCV1

Bromodichloromethane
B402402-BS1, B402402-BSD1, B402402-MS1, B402402-MSD1, S120036-CCV1

Trichlorofluoromethane (Freon 11)
B402402-BS1, B402402-BSD1, B402402-MS1, B402402-MSD1, S120036-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
25D0332-01[PD-CP-00-040325], 25D0332-02[PD-CP-01-040325], B402372-BLK1, B402372-BS1, B402372-BSD1

Hexachlorobutadiene
25D0332-01[PD-CP-00-040325], 25D0332-02[PD-CP-01-040325], B402372-BLK1, B402372-BS1, B402372-BSD1

Hexachloroethane
25D0332-01[PD-CP-00-040325], 25D0332-02[PD-CP-01-040325], B402372-BLK1, B402372-BS1, B402372-BSD1

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

2,3,4,6-Tetrachlorophenol
B402372-BS1

2,4-Dinitrophenol
B402372-BS1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

2,3,4,6-Tetrachlorophenol
B402372-BSD1

2,4,5-Trichlorophenol
B402372-BS1, B402372-BSD1

2,4-Dichlorophenol
B402372-BS1, B402372-BSD1

2,4-Dinitrophenol
B402372-BSD1

2-Chlorophenol
B402372-BS1, B402372-BSD1

2-Nitrophenol
B402372-BS1, B402372-BSD1

4,6-Dinitro-2-methylphenol
B402372-BS1, B402372-BSD1

4-Nitrophenol
B402372-BS1, B402372-BSD1

Pentachlorophenol
B402372-BS1, B402372-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
25D0332-01[PD-CP-00-040325], 25D0332-02[PD-CP-01-040325], B402372-BLK1, B402372-BS1, B402372-BSD1, S120005-CCV1

Di-n-octylphthalate
25D0332-01[PD-CP-00-040325], 25D0332-02[PD-CP-01-040325], B402372-BLK1, B402372-BS1, B402372-BSD1, S120005-CCV1

Pace Analytical Services, LLC - East Longmeadow, Ma

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

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:

Aniline

25D0332-01[PD-CP-00-040325], 25D0332-02[PD-CP-01-040325], B402372-BLK1, B402372-BS1, B402372-BSD1, S120005-CCV1

Caprolactam

25D0332-01[PD-CP-00-040325], 25D0332-02[PD-CP-01-040325], B402372-BLK1, B402372-BS1, B402372-BSD1, S120005-CCV2

N-Nitrosodi-n-propylamine

25D0332-01[PD-CP-00-040325], 25D0332-02[PD-CP-01-040325], B402372-BLK1, B402372-BS1, B402372-BSD1, S120005-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

25D0332-01[PD-CP-00-040325], 25D0332-02[PD-CP-01-040325], B402372-BLK1, B402372-BS1, B402372-BSD1, S117929-ICV1, S120005-CCV1

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

Lisa A. Worthington
Technical Representative

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, NY | Sample Description: | Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: PD-CP-00-040325 | Sampled: 4/3/2025 11:30

Sample ID: 25D0332-01

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	4/7/25	4/8/25 11:45	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	4/7/25	4/8/25 11:45	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	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, NY | Sample Description: | Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: PD-CP-00-040325 | Sampled: 4/3/2025 11:30

Sample ID: 25D0332-01

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	4/7/25	4/8/25 11:45	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 11:45	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	117	70-130		4/8/25 11:45
Toluene-d8	102	70-130		4/8/25 11:45
4-Bromofluorobenzene	97.8	70-130		4/8/25 11:45

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, NY | Sample Description: | Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: PD-CP-00-040325 | Sampled: 4/3/2025 11:30

Sample ID: 25D0332-01

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	18	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Atrazine	ND	18	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Benzaldehyde	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Biphenyl	ND	18	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Caprolactam	ND	9.0	µg/L	1	V-05, L-04	SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Acenaphthene	ND	4.5	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Acenaphthylene	ND	4.5	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Acetophenone	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Aniline	ND	18	µg/L	1	V-05, V-34	SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Anthracene	ND	4.5	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Benzo(a)anthracene	ND	4.5	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Benzo(a)pyrene	ND	4.5	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Benzo(b)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Benzo(g,h,i)perylene	ND	4.5	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Benzo(k)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Bis(2-chloroethoxy)methane	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Bis(2-chloroethyl)ether	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
4-Bromophenylphenylether	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Butylbenzylphthalate	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Carbazole	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
4-Chloroaniline	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
4-Chloro-3-methylphenol	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
2-Chloronaphthalene	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
2-Chlorophenol	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
4-Chlorophenylphenylether	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Chrysene	ND	4.5	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Dibenz(a,h)anthracene	ND	4.5	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Dibenzofuran	ND	4.5	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Di-n-butylphthalate	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
3,3-Dichlorobenzidine	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
2,4-Dichlorophenol	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Diethylphthalate	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
2,4-Dimethylphenol	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Dimethylphthalate	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
4,6-Dinitro-2-methylphenol	ND	18	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
2,4-Dinitrophenol	ND	9.0	µg/L	1	V-04	SW-846 8270E	4/5/25	4/7/25 16:11	BGL
2,4-Dinitrotoluene	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
2,6-Dinitrotoluene	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Di-n-octylphthalate	ND	9.0	µg/L	1	V-04	SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Fluorene	ND	4.5	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Hexachlorobenzene	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL

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, NY | Sample Description: | Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: PD-CP-00-040325 | Sampled: 4/3/2025 11:30

Sample ID: 25D0332-01

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	9.0	µg/L	1	L-04	SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Hexachlorocyclopentadiene	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Hexachloroethane	ND	9.0	µg/L	1	L-04	SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Isophorone	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
1-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
2-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
2-Methylphenol	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
3/4-Methylphenol	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Naphthalene	ND	4.5	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
2-Nitroaniline	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
3-Nitroaniline	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
4-Nitroaniline	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Nitrobenzene	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
2-Nitrophenol	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
4-Nitrophenol	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
N-Nitrosodi-n-propylamine	ND	9.0	µg/L	1	V-05	SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Pentachlorophenol	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Phenanthrene	ND	4.5	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Phenol	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Pyrene	ND	4.5	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
Pyridine	ND	18	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
2,4,5-Trichlorophenol	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL
2,4,6-Trichlorophenol	ND	9.0	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:11	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	19.6	15-110		4/7/25 16:11
Phenol-d6	18.4	15-110		4/7/25 16:11
Nitrobenzene-d5	62.3	30-130		4/7/25 16:11
2-Fluorobiphenyl	66.1	30-130		4/7/25 16:11
2,4,6-Tribromophenol	27.2	15-110		4/7/25 16:11
p-Terphenyl-d14	76.1	30-130		4/7/25 16:11

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, NY | Sample Description: | Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: PD-CP-00-040325 | Sampled: 4/3/2025 11:30

Sample ID: 25D0332-01

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	20	0.19	µg/L	1		SW-846 8270E	4/8/25	4/10/25 11:37	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	24.6	15-110					4/10/25 11:37

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, NY | Sample Description: | Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: PD-CP-00-040325 | Sampled: 4/3/2025 11:30

Sample ID: 25D0332-01

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)	39	5.7	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluoropentanoic acid (PFPeA)	19	2.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluorohexanoic acid (PFHxA)	25	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluoroheptanoic acid (PFHpA)	12	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluorooctanoic acid (PFOA)	43	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluorononanoic acid (PFNA)	28	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluorodecanoic acid (PFDA)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluorododecanoic acid (PFDoA)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluorobutanesulfonic acid (PFBS)	3.3	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluoropentanesulfonic acid (PFPeS)	2.3	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluorohexanesulfonic acid (PFHxS)	7.0	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluorooctanesulfonic acid (PFOS)	14	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.7	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.7	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.7	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
N-MeFOSAA (NMeFOSAA)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
N-EtFOSAA (NEtFOSAA)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	14	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	14	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.7	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	5.7	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
9Cl-PF3ONS (F53B Minor)	ND	5.7	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
11Cl-PF3OUdS (F53B Major)	ND	5.7	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.1	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	36	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	36	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML

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, NY | Sample Description: | Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: PD-CP-00-040325 | Sampled: 4/3/2025 11:30

Sample ID: 25D0332-01

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	2.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 16:27	CML

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	107	5-130		4/16/25 16:27
13C5-PFPeA	105	40-130		4/16/25 16:27
13C5-PFHxA	108	40-130		4/16/25 16:27
13C4-PFHpA	102	40-130		4/16/25 16:27
13C8-PFOA	114	40-130		4/16/25 16:27
13C9-PFNA	105	40-130		4/16/25 16:27
13C6-PFDA	99.9	40-130		4/16/25 16:27
13C7-PFUnA	97.0	30-130		4/16/25 16:27
13C2-PFDoA	85.7	10-130		4/16/25 16:27
13C2-PFTeDA	73.2	10-130		4/16/25 16:27
13C3-PFBS	106	40-135		4/16/25 16:27
13C3-PFHxS	107	40-130		4/16/25 16:27
13C8-PFOS	101	40-130		4/16/25 16:27
13C2-4:2FTS	175	40-200		4/16/25 16:27
13C2-6:2FTS	141	40-200		4/16/25 16:27
13C2-8:2FTS	99.2	40-300		4/16/25 16:27
13C8-PFOSA	83.3	40-130		4/16/25 16:27
D3-NMeFOSA	73.3	10-130		4/16/25 16:27
D5-NEtFOSA	66.9	10-130		4/16/25 16:27
D3-NMeFOSAA	84.9	40-170		4/16/25 16:27
D5-NEtFOSAA	82.4	25-135		4/16/25 16:27
D7-NMeFOSE	66.0	10-130		4/16/25 16:27
D9-NEtFOSE	62.3	10-130		4/16/25 16:27
13C3-HFPO-DA	122	40-130		4/16/25 16:27

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, NY | Sample Description: | Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: PD-CP-01-040325 | Sampled: 4/3/2025 11:30

Sample ID: 25D0332-02

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	4/7/25	4/8/25 12:10	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	4/7/25	4/8/25 12:10	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	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, NY | Sample Description: | Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: PD-CP-01-040325 | Sampled: 4/3/2025 11:30

Sample ID: 25D0332-02

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	4/7/25	4/8/25 12:10	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 12:10	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	121	70-130		4/8/25 12:10
Toluene-d8	101	70-130		4/8/25 12:10
4-Bromofluorobenzene	99.7	70-130		4/8/25 12:10

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, NY | Sample Description: | Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: PD-CP-01-040325 | Sampled: 4/3/2025 11:30

Sample ID: 25D0332-02

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	19	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Atrazine	ND	19	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Benzaldehyde	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Biphenyl	ND	19	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Caprolactam	ND	9.7	µg/L	1	V-05, L-04	SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Acenaphthene	ND	4.8	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Acenaphthylene	ND	4.8	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Acetophenone	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Aniline	ND	19	µg/L	1	V-05, V-34	SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Anthracene	ND	4.8	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Benzo(a)anthracene	ND	4.8	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Benzo(a)pyrene	ND	4.8	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Benzo(b)fluoranthene	ND	4.8	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Benzo(g,h,i)perylene	ND	4.8	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Benzo(k)fluoranthene	ND	4.8	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Bis(2-chloroethoxy)methane	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Bis(2-chloroethyl)ether	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
4-Bromophenylphenylether	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Butylbenzylphthalate	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Carbazole	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
4-Chloroaniline	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
4-Chloro-3-methylphenol	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
2-Chloronaphthalene	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
2-Chlorophenol	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
4-Chlorophenylphenylether	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Chrysene	ND	4.8	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Dibenz(a,h)anthracene	ND	4.8	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Dibenzofuran	ND	4.8	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Di-n-butylphthalate	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
3,3-Dichlorobenzidine	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
2,4-Dichlorophenol	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Diethylphthalate	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
2,4-Dimethylphenol	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Dimethylphthalate	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
4,6-Dinitro-2-methylphenol	ND	19	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
2,4-Dinitrophenol	ND	9.7	µg/L	1	V-04	SW-846 8270E	4/5/25	4/7/25 16:31	BGL
2,4-Dinitrotoluene	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
2,6-Dinitrotoluene	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Di-n-octylphthalate	ND	9.7	µg/L	1	V-04	SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Fluoranthene	ND	4.8	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Fluorene	ND	4.8	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Hexachlorobenzene	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL

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, NY | Sample Description: | Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: PD-CP-01-040325 | Sampled: 4/3/2025 11:30

Sample ID: 25D0332-02

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	9.7	µg/L	1	L-04	SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Hexachlorocyclopentadiene	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Hexachloroethane	ND	9.7	µg/L	1	L-04	SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Indeno(1,2,3-cd)pyrene	ND	4.8	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Isophorone	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
1-Methylnaphthalene	ND	4.8	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
2-Methylnaphthalene	ND	4.8	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
2-Methylphenol	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
3/4-Methylphenol	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Naphthalene	ND	4.8	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
2-Nitroaniline	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
3-Nitroaniline	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
4-Nitroaniline	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Nitrobenzene	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
2-Nitrophenol	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
4-Nitrophenol	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
N-Nitrosodi-n-propylamine	ND	9.7	µg/L	1	V-05	SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Pentachlorophenol	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Phenanthrene	ND	4.8	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Phenol	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Pyrene	ND	4.8	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
Pyridine	ND	19	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
2,4,5-Trichlorophenol	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL
2,4,6-Trichlorophenol	ND	9.7	µg/L	1		SW-846 8270E	4/5/25	4/7/25 16:31	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	40.3	15-110		4/7/25 16:31
Phenol-d6	28.5	15-110		4/7/25 16:31
Nitrobenzene-d5	66.8	30-130		4/7/25 16:31
2-Fluorobiphenyl	69.8	30-130		4/7/25 16:31
2,4,6-Tribromophenol	60.5	15-110		4/7/25 16:31
p-Terphenyl-d14	78.5	30-130		4/7/25 16:31

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, NY | Sample Description: | Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: PD-CP-01-040325 | Sampled: 4/3/2025 11:30

Sample ID: 25D0332-02

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	21	0.19	µg/L	1		SW-846 8270E	4/8/25	4/10/25 11:59	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	24.7	15-110					4/10/25 11:59

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, NY | Sample Description: | Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: PD-CP-01-040325 | Sampled: 4/3/2025 11:30

Sample ID: 25D0332-02

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)	40	5.7	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluoropentanoic acid (PFPeA)	21	2.8	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluorohexanoic acid (PFHxA)	24	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluoroheptanoic acid (PFHpA)	11	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluorooctanoic acid (PFOA)	40	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluorononanoic acid (PFNA)	26	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluorodecanoic acid (PFDA)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluorododecanoic acid (PFDoA)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluorobutanesulfonic acid (PFBS)	3.4	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluoropentanesulfonic acid (PFPeS)	2.5	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluorohexanesulfonic acid (PFHxS)	6.8	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluorooctanesulfonic acid (PFOS)	13	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.7	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.7	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.7	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
N-MeFOSAA (NMeFOSAA)	ND	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
N-EtFOSAA (NEtFOSAA)	1.5	1.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	14	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	14	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.7	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	5.7	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
9Cl-PF3ONS (F53B Minor)	ND	5.7	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
11Cl-PF3OUdS (F53B Major)	ND	5.7	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.1	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	35	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	35	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.8	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.8	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML

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, NY | Sample Description: | Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: PD-CP-01-040325 | Sampled: 4/3/2025 11:30

Sample ID: 25D0332-02

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	2.8	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.8	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:05	CML

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	93.2	5-130		4/16/25 17:05
13C5-PFPeA	91.6	40-130		4/16/25 17:05
13C5-PFHxA	91.3	40-130		4/16/25 17:05
13C4-PFHpA	85.6	40-130		4/16/25 17:05
13C8-PFOA	98.7	40-130		4/16/25 17:05
13C9-PFNA	92.5	40-130		4/16/25 17:05
13C6-PFDA	90.3	40-130		4/16/25 17:05
13C7-PFUnA	87.0	30-130		4/16/25 17:05
13C2-PFDoA	71.0	10-130		4/16/25 17:05
13C2-PFTeDA	61.1	10-130		4/16/25 17:05
13C3-PFBS	95.0	40-135		4/16/25 17:05
13C3-PFHxS	97.6	40-130		4/16/25 17:05
13C8-PFOS	87.3	40-130		4/16/25 17:05
13C2-4:2FTS	158	40-200		4/16/25 17:05
13C2-6:2FTS	113	40-200		4/16/25 17:05
13C2-8:2FTS	81.3	40-300		4/16/25 17:05
13C8-PFOSA	75.4	40-130		4/16/25 17:05
D3-NMeFOSA	63.1	10-130		4/16/25 17:05
D5-NEtFOSA	59.9	10-130		4/16/25 17:05
D3-NMeFOSAA	76.4	40-170		4/16/25 17:05
D5-NEtFOSAA	70.3	25-135		4/16/25 17:05
D7-NMeFOSE	53.5	10-130		4/16/25 17:05
D9-NEtFOSE	49.3	10-130		4/16/25 17:05
13C3-HFPO-DA	102	40-130		4/16/25 17:05

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, NY Sample Description: Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: ASF-CP-00-040325 Sampled: 4/3/2025 11:00

Sample ID: 25D0332-03

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	21	0.19	µg/L	1		SW-846 8270E	4/8/25	4/10/25 12:21	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	23.5	15-110					4/10/25 12:21

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, NY | Sample Description: | Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: ASF-CP-00-040325 | Sampled: 4/3/2025 11:00

Sample ID: 25D0332-03

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)	40	5.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluoropentanoic acid (PFPeA)	22	3.0	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluorohexanoic acid (PFHxA)	25	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluoroheptanoic acid (PFHpA)	12	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluorooctanoic acid (PFOA)	45	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluorononanoic acid (PFNA)	29	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluorodecanoic acid (PFDA)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluorododecanoic acid (PFDoA)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluorobutanesulfonic acid (PFBS)	3.5	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluoropentanesulfonic acid (PFPeS)	2.5	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluorohexanesulfonic acid (PFHxS)	7.2	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluorooctanesulfonic acid (PFOS)	16	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
N-MeFOSAA (NMeFOSAA)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
N-EtFOSAA (NEtFOSAA)	1.9	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	15	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	5.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
9Cl-PF3ONS (F53B Minor)	ND	5.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
11Cl-PF3OUdS (F53B Major)	ND	5.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	37	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	37	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML

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, NY | Sample Description: | Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: ASF-CP-00-040325 | Sampled: 4/3/2025 11:00

Sample ID: 25D0332-03

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	3.0	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:15	CML

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	84.6	5-130		4/16/25 17:15
13C5-PFPeA	80.7	40-130		4/16/25 17:15
13C5-PFHxA	81.0	40-130		4/16/25 17:15
13C4-PFHpA	72.7	40-130		4/16/25 17:15
13C8-PFOA	81.7	40-130		4/16/25 17:15
13C9-PFNA	71.0	40-130		4/16/25 17:15
13C6-PFDA	65.9	40-130		4/16/25 17:15
13C7-PFUnA	53.9	30-130		4/16/25 17:15
13C2-PFDoA	38.6	10-130		4/16/25 17:15
13C2-PFTeDA	17.7	10-130		4/16/25 17:15
13C3-PFBS	75.8	40-135		4/16/25 17:15
13C3-PFHxS	75.4	40-130		4/16/25 17:15
13C8-PFOS	59.9	40-130		4/16/25 17:15
13C2-4:2FTS	128	40-200		4/16/25 17:15
13C2-6:2FTS	81.6	40-200		4/16/25 17:15
13C2-8:2FTS	53.4	40-300		4/16/25 17:15
13C8-PFOSA	52.5	40-130		4/16/25 17:15
D3-NMeFOSA	39.5	10-130		4/16/25 17:15
D5-NEtFOSA	28.0	10-130		4/16/25 17:15
D3-NMeFOSAA	42.9	40-170		4/16/25 17:15
D5-NEtFOSAA	34.4	25-135		4/16/25 17:15
D7-NMeFOSE	15.0	10-130		4/16/25 17:15
D9-NEtFOSE	10.0	10-130		4/16/25 17:15
13C3-HFPO-DA	89.3	40-130		4/16/25 17:15

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, NY Sample Description: Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: ASF-CP-01-040325 Sampled: 4/3/2025 11:00

Sample ID: 25D0332-04

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	21	0.19	µg/L	1		SW-846 8270E	4/8/25	4/10/25 12:43	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	22.2	15-110					4/10/25 12:43

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, NY | Sample Description: | Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: ASF-CP-01-040325 | Sampled: 4/3/2025 11:00

Sample ID: 25D0332-04

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)	41	5.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluoropentanoic acid (PFPeA)	22	3.0	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluorohexanoic acid (PFHxA)	25	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluoroheptanoic acid (PFHpA)	12	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluorooctanoic acid (PFOA)	47	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluorononanoic acid (PFNA)	31	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluorodecanoic acid (PFDA)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluoroundecanoic acid (PFUnA)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluorododecanoic acid (PFDoA)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluorobutanesulfonic acid (PFBS)	3.7	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluoropentanesulfonic acid (PFPeS)	2.3	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluorohexanesulfonic acid (PFHxS)	7.6	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluorooctanesulfonic acid (PFOS)	16	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluorononanesulfonic acid (PFNS)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
N-MeFOSAA (NMeFOSAA)	ND	1.5	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
N-EtFOSAA (NEtFOSAA)	1.8	1.5	ng/L	1	PF-22	Draft Method 1633	4/16/25	4/16/25 17:24	CML
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	15	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	5.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
9Cl-PF3ONS (F53B Minor)	ND	5.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
11Cl-PF3OUdS (F53B Major)	ND	5.9	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.4	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	37	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	37	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML

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, NY | Sample Description: | Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: ASF-CP-01-040325 | Sampled: 4/3/2025 11:00

Sample ID: 25D0332-04

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	4/16/25	4/16/25 17:24	CML
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	ng/L	1		Draft Method 1633	4/16/25	4/16/25 17:24	CML

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	93.3	5-130		4/16/25 17:24
13C5-PFPeA	90.2	40-130		4/16/25 17:24
13C5-PFHxA	92.1	40-130		4/16/25 17:24
13C4-PFHpA	83.3	40-130		4/16/25 17:24
13C8-PFOA	89.0	40-130		4/16/25 17:24
13C9-PFNA	83.1	40-130		4/16/25 17:24
13C6-PFDA	74.1	40-130		4/16/25 17:24
13C7-PFUnA	62.9	30-130		4/16/25 17:24
13C2-PFDoA	47.6	10-130		4/16/25 17:24
13C2-PFTeDA	26.0	10-130		4/16/25 17:24
13C3-PFBS	89.6	40-135		4/16/25 17:24
13C3-PFHxS	88.4	40-130		4/16/25 17:24
13C8-PFOS	70.1	40-130		4/16/25 17:24
13C2-4:2FTS	152	40-200		4/16/25 17:24
13C2-6:2FTS	92.8	40-200		4/16/25 17:24
13C2-8:2FTS	68.4	40-300		4/16/25 17:24
13C8-PFOSA	61.4	40-130		4/16/25 17:24
D3-NMeFOSA	49.0	10-130		4/16/25 17:24
D5-NEtFOSA	39.7	10-130		4/16/25 17:24
D3-NMeFOSAA	55.0	40-170		4/16/25 17:24
D5-NEtFOSAA	45.4	25-135		4/16/25 17:24
D7-NMeFOSE	28.3	10-130		4/16/25 17:24
D9-NEtFOSE	19.6	10-130		4/16/25 17:24
13C3-HFPO-DA	101	40-130		4/16/25 17:24

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, NY | Sample Description: | Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: TB-040325 | Sampled: 4/3/2025 00:00

Sample ID: 25D0332-05

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	4/7/25	4/8/25 10:54	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Bromomethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	4/7/25	4/8/25 10:54	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	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, NY | Sample Description: | Work Order: 25D0332

Date Received: 4/4/2025

Field Sample #: TB-040325 | Sampled: 4/3/2025 00:00

Sample ID: 25D0332-05

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	4/7/25	4/8/25 10:54	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	4/7/25	4/8/25 10:54	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	119	70-130		4/8/25 10:54
Toluene-d8	105	70-130		4/8/25 10:54
4-Bromofluorobenzene	103	70-130		4/8/25 10:54

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25D0332-01 [PD-CP-00-040325]	B402829	560	4.00	04/16/25
25D0332-02 [PD-CP-01-040325]	B402829	566	4.00	04/16/25
25D0332-03 [ASF-CP-00-040325]	B402829	539	4.00	04/16/25
25D0332-04 [ASF-CP-01-040325]	B402829	540	4.00	04/16/25

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25D0332-01 [PD-CP-00-040325]	B402402	5	5.00	04/07/25
25D0332-02 [PD-CP-01-040325]	B402402	5	5.00	04/07/25
25D0332-05 [TB-040325]	B402402	5	5.00	04/07/25

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25D0332-01 [PD-CP-00-040325]	B402372	111	1.00	04/05/25
25D0332-02 [PD-CP-01-040325]	B402372	104	1.00	04/05/25

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25D0332-01RE1 [PD-CP-00-040325]	B402496	1040	1.00	04/08/25
25D0332-02RE1 [PD-CP-01-040325]	B402496	1040	1.00	04/08/25
25D0332-03RE1 [ASF-CP-00-040325]	B402496	1040	1.00	04/08/25
25D0332-04RE1 [ASF-CP-01-040325]	B402496	1040	1.00	04/08/25

Pace Analytical Services, LLC - East Longmeadow, Ma

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 B402402 - SW-846 5030B										
Blank (B402402-BLK1)				Prepared: 04/07/25 Analyzed: 04/08/25						
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							V-05
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							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B402402 - SW-846 5030B												
Blank (B402402-BLK1)				Prepared: 04/07/25 Analyzed: 04/08/25								
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	*29.6*		µg/L	25.00		118		70-130				
Surrogate: Toluene-d8	*25.7*		µg/L	25.00		103		70-130				
Surrogate: 4-Bromofluorobenzene	*25.1*		µg/L	25.00		101		70-130				
LCS (B402402-BS1)				Prepared: 04/07/25 Analyzed: 04/08/25								
Acetone	98.6	50	µg/L	100.0		98.6		70-160				†
Benzene	9.27	1.0	µg/L	10.00		92.7		70-130				
Bromochloromethane	9.23	1.0	µg/L	10.00		92.3		70-130				
Bromodichloromethane	11.7	0.50	µg/L	10.00		117		70-130			V-20	
Bromoform	11.0	1.0	µg/L	10.00		110		70-130				
Bromomethane	7.80	2.0	µg/L	10.00		78.0		40-160			V-05	†
2-Butanone (MEK)	96.5	20	µg/L	100.0		96.5		40-160				†
n-Butylbenzene	11.4	1.0	µg/L	10.00		114		70-130				
sec-Butylbenzene	10.5	1.0	µg/L	10.00		105		70-130				
tert-Butylbenzene	10.3	1.0	µg/L	10.00		103		70-130				
Carbon Disulfide	91.0	5.0	µg/L	100.0		91.0		70-130				
Carbon Tetrachloride	11.6	5.0	µg/L	10.00		116		70-130				
Chlorobenzene	9.69	1.0	µg/L	10.00		96.9		70-130				
Chlorodibromomethane	10.9	0.50	µg/L	10.00		109		70-130				
Chloroethane	8.19	2.0	µg/L	10.00		81.9		70-130				
Chloroform	10.5	2.0	µg/L	10.00		105		70-130				
Chloromethane	8.26	2.0	µg/L	10.00		82.6		40-160			V-05	†
Cyclohexane	8.70	5.0	µg/L	10.00		87.0		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	15.5	5.0	µg/L	10.00		**155**	*	70-130			L-02, V-20	
1,2-Dibromoethane (EDB)	11.0	0.50	µg/L	10.00		110		70-130				
1,2-Dichlorobenzene	11.4	1.0	µg/L	10.00		114		70-130				
1,3-Dichlorobenzene	10.9	1.0	µg/L	10.00		109		70-130				
1,4-Dichlorobenzene	10.8	1.0	µg/L	10.00		108		70-130				
Dichlorodifluoromethane (Freon 12)	12.2	2.0	µg/L	10.00		122		40-160				†
1,1-Dichloroethane	9.43	1.0	µg/L	10.00		94.3		70-130				
1,2-Dichloroethane	11.4	1.0	µg/L	10.00		114		70-130				
1,1-Dichloroethylene	9.57	1.0	µg/L	10.00		95.7		70-130				
cis-1,2-Dichloroethylene	9.28	1.0	µg/L	10.00		92.8		70-130				
trans-1,2-Dichloroethylene	9.29	1.0	µg/L	10.00		92.9		70-130				
1,2-Dichloropropane	9.38	1.0	µg/L	10.00		93.8		70-130				
cis-1,3-Dichloropropene	10.8	0.50	µg/L	10.00		108		70-130				
trans-1,3-Dichloropropene	11.8	0.50	µg/L	10.00		118		70-130				
Ethylbenzene	10.5	1.0	µg/L	10.00		105		70-130				
2-Hexanone (MBK)	113	10	µg/L	100.0		113		70-160				†
Isopropylbenzene (Cumene)	10.1	1.0	µg/L	10.00		101		70-130				
p-Isopropyltoluene (p-Cymene)	10.3	1.0	µg/L	10.00		103		70-130				
Methyl Acetate	10.8	1.0	µg/L	10.00		108		70-130				
Methyl tert-Butyl Ether (MTBE)	10.8	1.0	µg/L	10.00		108		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B402402 - SW-846 5030B												
LCS (B402402-BS1)				Prepared: 04/07/25 Analyzed: 04/08/25								
Methyl Cyclohexane	10.6	1.0	µg/L	10.00		106		70-130				
Methylene Chloride	9.05	5.0	µg/L	10.00		90.5		70-130				
4-Methyl-2-pentanone (MIBK)	112	10	µg/L	100.0		112		70-160				†
Naphthalene	10.1	2.0	µg/L	10.00		101		40-130				†
n-Propylbenzene	10.3	1.0	µg/L	10.00		103		70-130				
Styrene	9.23	1.0	µg/L	10.00		92.3		70-130				
1,1,2,2-Tetrachloroethane	10.9	0.50	µg/L	10.00		109		70-130				
Tetrachloroethylene	11.1	1.0	µg/L	10.00		111		70-130				
Toluene	9.88	1.0	µg/L	10.00		98.8		70-130				
1,2,3-Trichlorobenzene	11.0	5.0	µg/L	10.00		110		70-130				
1,2,4-Trichlorobenzene	11.0	1.0	µg/L	10.00		110		70-130				
1,1,1-Trichloroethane	11.4	1.0	µg/L	10.00		114		70-130				
1,1,2-Trichloroethane	10.8	1.0	µg/L	10.00		108		70-130				
Trichloroethylene	11.5	1.0	µg/L	10.00		115		70-130				
Trichlorofluoromethane (Freon 11)	12.8	2.0	µg/L	10.00		128		70-130			V-20	
1,2,3-Trichloropropane	12.2	2.0	µg/L	10.00		122		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.7	1.0	µg/L	10.00		107		70-130				
1,2,4-Trimethylbenzene	10.7	1.0	µg/L	10.00		107		70-130				
1,3,5-Trimethylbenzene	10.4	1.0	µg/L	10.00		104		70-130				
Vinyl Chloride	9.87	2.0	µg/L	10.00		98.7		40-160				†
m+p Xylene	21.4	2.0	µg/L	20.00		107		70-130				
o-Xylene	10.6	1.0	µg/L	10.00		106		70-130				
Xylenes (total)	32.1	1.0	µg/L	30.00		107		0-200				
Surrogate: 1,2-Dichloroethane-d4	*30.0*		µg/L	25.00		120		70-130				
Surrogate: Toluene-d8	*25.7*		µg/L	25.00		103		70-130				
Surrogate: 4-Bromofluorobenzene	*25.2*		µg/L	25.00		101		70-130				
LCS Dup (B402402-BSD1)				Prepared: 04/07/25 Analyzed: 04/08/25								
Acetone	91.8	50	µg/L	100.0		91.8		70-160	7.17	25		†
Benzene	9.33	1.0	µg/L	10.00		93.3		70-130	0.645	25		
Bromochloromethane	8.85	1.0	µg/L	10.00		88.5		70-130	4.20	25		
Bromodichloromethane	12.2	0.50	µg/L	10.00		122		70-130	3.85	25	V-20	
Bromoform	10.4	1.0	µg/L	10.00		104		70-130	5.60	25		
Bromomethane	8.30	2.0	µg/L	10.00		83.0		40-160	6.21	25	V-05	†
2-Butanone (MEK)	89.6	20	µg/L	100.0		89.6		40-160	7.43	25		†
n-Butylbenzene	11.1	1.0	µg/L	10.00		111		70-130	2.93	25		
sec-Butylbenzene	10.8	1.0	µg/L	10.00		108		70-130	3.11	25		
tert-Butylbenzene	10.4	1.0	µg/L	10.00		104		70-130	1.15	25		
Carbon Disulfide	91.7	5.0	µg/L	100.0		91.7		70-130	0.799	25		
Carbon Tetrachloride	11.6	5.0	µg/L	10.00		116		70-130	0.690	25		
Chlorobenzene	9.60	1.0	µg/L	10.00		96.0		70-130	0.933	25		
Chlorodibromomethane	10.9	0.50	µg/L	10.00		109		70-130	0.459	25		
Chloroethane	8.40	2.0	µg/L	10.00		84.0		70-130	2.53	25		
Chloroform	10.5	2.0	µg/L	10.00		105		70-130	0.762	25		
Chloromethane	8.20	2.0	µg/L	10.00		82.0		40-160	0.729	25	V-05	†
Cyclohexane	8.72	5.0	µg/L	10.00		87.2		70-130	0.230	25		
1,2-Dibromo-3-chloropropane (DBCP)	14.8	5.0	µg/L	10.00		**148**	*	70-130	4.49	25	L-02, V-20	
1,2-Dibromoethane (EDB)	11.8	0.50	µg/L	10.00		118		70-130	7.12	25		
1,2-Dichlorobenzene	11.2	1.0	µg/L	10.00		112		70-130	1.06	25		
1,3-Dichlorobenzene	11.0	1.0	µg/L	10.00		110		70-130	0.732	25		
1,4-Dichlorobenzene	10.5	1.0	µg/L	10.00		105		70-130	2.90	25		
Dichlorodifluoromethane (Freon 12)	12.4	2.0	µg/L	10.00		124		40-160	2.27	25		†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B402402 - SW-846 5030B										
LCS Dup (B402402-BSD1)				Prepared: 04/07/25 Analyzed: 04/08/25						
1,1-Dichloroethane	9.19	1.0	µg/L	10.00		91.9	70-130	2.58	25	
1,2-Dichloroethane	11.7	1.0	µg/L	10.00		117	70-130	2.51	25	
1,1-Dichloroethylene	9.70	1.0	µg/L	10.00		97.0	70-130	1.35	25	
cis-1,2-Dichloroethylene	8.88	1.0	µg/L	10.00		88.8	70-130	4.41	25	
trans-1,2-Dichloroethylene	9.12	1.0	µg/L	10.00		91.2	70-130	1.85	25	
1,2-Dichloropropane	9.23	1.0	µg/L	10.00		92.3	70-130	1.61	25	
cis-1,3-Dichloropropene	11.2	0.50	µg/L	10.00		112	70-130	3.55	25	
trans-1,3-Dichloropropene	11.2	0.50	µg/L	10.00		112	70-130	5.32	25	
Ethylbenzene	10.6	1.0	µg/L	10.00		106	70-130	0.380	25	
2-Hexanone (MBK)	110	10	µg/L	100.0		110	70-160	2.62	25	†
Isopropylbenzene (Cumene)	10.1	1.0	µg/L	10.00		101	70-130	0.396	25	
p-Isopropyltoluene (p-Cymene)	10.4	1.0	µg/L	10.00		104	70-130	0.387	25	
Methyl Acetate	10.2	1.0	µg/L	10.00		102	70-130	5.32	25	
Methyl tert-Butyl Ether (MTBE)	10.4	1.0	µg/L	10.00		104	70-130	3.67	25	
Methyl Cyclohexane	10.9	1.0	µg/L	10.00		109	70-130	2.61	25	
Methylene Chloride	8.66	5.0	µg/L	10.00		86.6	70-130	4.40	25	
4-Methyl-2-pentanone (MIBK)	108	10	µg/L	100.0		108	70-160	3.29	25	†
Naphthalene	9.83	2.0	µg/L	10.00		98.3	40-130	2.41	25	†
n-Propylbenzene	10.2	1.0	µg/L	10.00		102	70-130	1.36	25	
Styrene	9.45	1.0	µg/L	10.00		94.5	70-130	2.36	25	
1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.00		106	70-130	2.60	25	
Tetrachloroethylene	11.2	1.0	µg/L	10.00		112	70-130	1.16	25	
Toluene	10.5	1.0	µg/L	10.00		105	70-130	6.08	25	
1,2,3-Trichlorobenzene	10.8	5.0	µg/L	10.00		108	70-130	1.01	25	
1,2,4-Trichlorobenzene	10.7	1.0	µg/L	10.00		107	70-130	2.40	25	
1,1,1-Trichloroethane	11.5	1.0	µg/L	10.00		115	70-130	0.963	25	
1,1,2-Trichloroethane	10.8	1.0	µg/L	10.00		108	70-130	0.00	25	
Trichloroethylene	11.2	1.0	µg/L	10.00		112	70-130	2.47	25	
Trichlorofluoromethane (Freon 11)	12.7	2.0	µg/L	10.00		127	70-130	0.862	25	V-20
1,2,3-Trichloropropane	12.0	2.0	µg/L	10.00		120	70-130	1.90	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8	1.0	µg/L	10.00		108	70-130	0.930	25	
1,2,4-Trimethylbenzene	11.0	1.0	µg/L	10.00		110	70-130	2.12	25	
1,3,5-Trimethylbenzene	10.0	1.0	µg/L	10.00		100	70-130	3.63	25	
Vinyl Chloride	9.97	2.0	µg/L	10.00		99.7	40-160	1.01	25	†
m+p Xylene	21.3	2.0	µg/L	20.00		107	70-130	0.514	25	
o-Xylene	10.9	1.0	µg/L	10.00		109	70-130	2.23	25	
Xylenes (total)	32.2	1.0	µg/L	30.00		107	0-200	0.404		
Surrogate: 1,2-Dichloroethane-d4	*30.2*		µg/L	25.00		121	70-130			
Surrogate: Toluene-d8	*25.5*		µg/L	25.00		102	70-130			
Surrogate: 4-Bromofluorobenzene	*25.2*		µg/L	25.00		101	70-130			
Matrix Spike (B402402-MS1)		**Source: 25D0332-01**		Prepared: 04/07/25 Analyzed: 04/08/25						
Acetone	87.6	50	µg/L	100.0	2.98	84.6	70-130			
Benzene	9.64	1.0	µg/L	10.00	ND	96.4	70-130			
Bromochloromethane	9.42	1.0	µg/L	10.00	ND	94.2	70-130			
Bromodichloromethane	12.5	0.50	µg/L	10.00	ND	125	70-130			V-20
Bromoform	11.2	1.0	µg/L	10.00	ND	112	70-130			
Bromomethane	8.33	2.0	µg/L	10.00	ND	83.3	70-130			V-05
2-Butanone (MEK)	85.5	20	µg/L	100.0	ND	85.5	70-130			
n-Butylbenzene	11.7	1.0	µg/L	10.00	ND	117	70-130			
sec-Butylbenzene	11.4	1.0	µg/L	10.00	ND	114	70-130			
tert-Butylbenzene	11.2	1.0	µg/L	10.00	ND	112	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B402402 - SW-846 5030B											
Matrix Spike (B402402-MS1)	**Source: 25D0332-01**			Prepared: 04/07/25 Analyzed: 04/08/25							
Carbon Disulfide	100	5.0	µg/L	100.0	ND	100		70-130			
Carbon Tetrachloride	12.7	5.0	µg/L	10.00	ND	127		70-130			
Chlorobenzene	10.2	1.0	µg/L	10.00	ND	102		70-130			
Chlorodibromomethane	11.2	0.50	µg/L	10.00	ND	112		70-130			
Chloroethane	9.11	2.0	µg/L	10.00	ND	91.1		70-130			
Chloroform	11.2	2.0	µg/L	10.00	ND	112		70-130			
Chloromethane	8.83	2.0	µg/L	10.00	ND	88.3		70-130			V-05
Cyclohexane	9.56	5.0	µg/L	10.00	ND	95.6		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	14.7	5.0	µg/L	10.00	ND	**147**	*	70-130			L-02, MS-15, V-20
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.00	ND	111		70-130			
1,2-Dichlorobenzene	12.0	1.0	µg/L	10.00	ND	120		70-130			
1,3-Dichlorobenzene	11.4	1.0	µg/L	10.00	ND	114		70-130			
1,4-Dichlorobenzene	11.4	1.0	µg/L	10.00	ND	114		70-130			
Dichlorodifluoromethane (Freon 12)	13.4	2.0	µg/L	10.00	ND	**134**	*	70-130			MS-24
1,1-Dichloroethane	9.83	1.0	µg/L	10.00	ND	98.3		70-130			
1,2-Dichloroethane	11.7	1.0	µg/L	10.00	ND	117		70-130			
1,1-Dichloroethylene	10.6	1.0	µg/L	10.00	ND	106		70-130			
cis-1,2-Dichloroethylene	9.83	1.0	µg/L	10.00	ND	98.3		70-130			
trans-1,2-Dichloroethylene	9.85	1.0	µg/L	10.00	ND	98.5		70-130			
1,2-Dichloropropane	9.69	1.0	µg/L	10.00	ND	96.9		70-130			
cis-1,3-Dichloropropene	10.6	0.50	µg/L	10.00	ND	106		70-130			
trans-1,3-Dichloropropene	11.4	0.50	µg/L	10.00	ND	114		70-130			
Ethylbenzene	11.3	1.0	µg/L	10.00	ND	113		70-130			
2-Hexanone (MBK)	104	10	µg/L	100.0	ND	104		70-130			
Isopropylbenzene (Cumene)	11.0	1.0	µg/L	10.00	ND	110		70-130			
p-Isopropyltoluene (p-Cymene)	10.4	1.0	µg/L	10.00	ND	104		70-130			
Methyl Acetate	8.33	1.0	µg/L	10.00	ND	83.3		70-130			
Methyl tert-Butyl Ether (MTBE)	11.0	1.0	µg/L	10.00	ND	110		70-130			
Methyl Cyclohexane	11.2	1.0	µg/L	10.00	ND	112		70-130			
Methylene Chloride	9.21	5.0	µg/L	10.00	ND	92.1		70-130			
4-Methyl-2-pentanone (MIBK)	108	10	µg/L	100.0	ND	108		70-130			
Naphthalene	9.79	2.0	µg/L	10.00	ND	97.9		70-130			
n-Propylbenzene	11.0	1.0	µg/L	10.00	ND	110		70-130			
Styrene	10.3	1.0	µg/L	10.00	ND	103		70-130			
1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.00	ND	107		70-130			
Tetrachloroethylene	11.8	1.0	µg/L	10.00	ND	118		70-130			
Toluene	11.4	1.0	µg/L	10.00	ND	114		70-130			
1,2,3-Trichlorobenzene	10.5	5.0	µg/L	10.00	ND	105		70-130			
1,2,4-Trichlorobenzene	11.0	1.0	µg/L	10.00	ND	110		70-130			
1,1,1-Trichloroethane	12.8	1.0	µg/L	10.00	ND	128		70-130			
1,1,2-Trichloroethane	10.7	1.0	µg/L	10.00	ND	107		70-130			
Trichloroethylene	12.2	1.0	µg/L	10.00	ND	122		70-130			
Trichlorofluoromethane (Freon 11)	13.8	2.0	µg/L	10.00	ND	**138**	*	70-130			MS-15, V-20
1,2,3-Trichloropropane	11.7	2.0	µg/L	10.00	ND	117		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.4	1.0	µg/L	10.00	ND	114		70-130			
1,2,4-Trimethylbenzene	11.6	1.0	µg/L	10.00	ND	116		70-130			
1,3,5-Trimethylbenzene	10.7	1.0	µg/L	10.00	ND	107		70-130			
Vinyl Chloride	11.1	2.0	µg/L	10.00	ND	111		70-130			
m+p Xylene	22.8	2.0	µg/L	20.00	ND	114		70-130			
o-Xylene	11.8	1.0	µg/L	10.00	ND	118		70-130			
Xylenes (total)	34.6	1.0	µg/L	30.00	ND	115		0-200			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B402402 - SW-846 5030B											
Matrix Spike (B402402-MS1)	**Source: 25D0332-01**			Prepared: 04/07/25 Analyzed: 04/08/25							
Surrogate: 1,2-Dichloroethane-d4	*29.7*		µg/L	25.00		119		70-130			
Surrogate: Toluene-d8	*25.4*		µg/L	25.00		102		70-130			
Surrogate: 4-Bromofluorobenzene	*26.2*		µg/L	25.00		105		70-130			
Matrix Spike Dup (B402402-MSD1)	**Source: 25D0332-01**			Prepared: 04/07/25 Analyzed: 04/08/25							
Acetone	90.1	50	µg/L	100.0	2.98	87.1		70-130	2.79	30	
Benzene	9.76	1.0	µg/L	10.00	ND	97.6		70-130	1.24	30	
Bromochloromethane	9.47	1.0	µg/L	10.00	ND	94.7		70-130	0.529	30	
Bromodichloromethane	12.9	0.50	µg/L	10.00	ND	129		70-130	3.07	30	V-20
Bromoform	10.8	1.0	µg/L	10.00	ND	108		70-130	3.73	30	
Bromomethane	9.22	2.0	µg/L	10.00	ND	92.2		70-130	10.1	30	V-05
2-Butanone (MEK)	80.4	20	µg/L	100.0	ND	80.4		70-130	6.19	30	
n-Butylbenzene	11.4	1.0	µg/L	10.00	ND	114		70-130	2.52	30	
sec-Butylbenzene	11.4	1.0	µg/L	10.00	ND	114		70-130	0.440	30	
tert-Butylbenzene	10.8	1.0	µg/L	10.00	ND	108		70-130	4.08	30	
Carbon Disulfide	98.1	5.0	µg/L	100.0	ND	98.1		70-130	2.35	30	
Carbon Tetrachloride	12.7	5.0	µg/L	10.00	ND	127		70-130	0.394	30	
Chlorobenzene	10.2	1.0	µg/L	10.00	ND	102		70-130	0.00	30	
Chlorodibromomethane	11.6	0.50	µg/L	10.00	ND	116		70-130	3.25	30	
Chloroethane	9.40	2.0	µg/L	10.00	ND	94.0		70-130	3.13	30	
Chloroform	11.2	2.0	µg/L	10.00	ND	112		70-130	0.268	30	
Chloromethane	9.17	2.0	µg/L	10.00	ND	91.7		70-130	3.78	30	V-05
Cyclohexane	9.50	5.0	µg/L	10.00	ND	95.0		70-130	0.630	30	
1,2-Dibromo-3-chloropropane (DBCP)	13.5	5.0	µg/L	10.00	ND	**135**	*	70-130	8.78	30	L-02, MS-15, V-20
1,2-Dibromoethane (EDB)	11.4	0.50	µg/L	10.00	ND	114		70-130	2.22	30	
1,2-Dichlorobenzene	11.5	1.0	µg/L	10.00	ND	115		70-130	4.43	30	
1,3-Dichlorobenzene	11.3	1.0	µg/L	10.00	ND	113		70-130	0.703	30	
1,4-Dichlorobenzene	11.4	1.0	µg/L	10.00	ND	114		70-130	0.439	30	
Dichlorodifluoromethane (Freon 12)	12.9	2.0	µg/L	10.00	ND	129		70-130	4.10	30	
1,1-Dichloroethane	9.89	1.0	µg/L	10.00	ND	98.9		70-130	0.609	30	
1,2-Dichloroethane	11.6	1.0	µg/L	10.00	ND	116		70-130	0.856	30	
1,1-Dichloroethylene	10.9	1.0	µg/L	10.00	ND	109		70-130	2.51	30	
cis-1,2-Dichloroethylene	9.74	1.0	µg/L	10.00	ND	97.4		70-130	0.920	30	
trans-1,2-Dichloroethylene	9.88	1.0	µg/L	10.00	ND	98.8		70-130	0.304	30	
1,2-Dichloropropane	9.72	1.0	µg/L	10.00	ND	97.2		70-130	0.309	30	
cis-1,3-Dichloropropene	10.8	0.50	µg/L	10.00	ND	108		70-130	1.86	30	
trans-1,3-Dichloropropene	11.8	0.50	µg/L	10.00	ND	118		70-130	3.19	30	
Ethylbenzene	11.3	1.0	µg/L	10.00	ND	113		70-130	0.00	30	
2-Hexanone (MBK)	103	10	µg/L	100.0	ND	103		70-130	0.571	30	
Isopropylbenzene (Cumene)	10.9	1.0	µg/L	10.00	ND	109		70-130	1.37	30	
p-Isopropyltoluene (p-Cymene)	10.7	1.0	µg/L	10.00	ND	107		70-130	2.93	30	
Methyl Acetate	8.46	1.0	µg/L	10.00	ND	84.6		70-130	1.55	30	
Methyl tert-Butyl Ether (MTBE)	10.5	1.0	µg/L	10.00	ND	105		70-130	4.47	30	
Methyl Cyclohexane	11.0	1.0	µg/L	10.00	ND	110		70-130	2.52	30	
Methylene Chloride	9.17	5.0	µg/L	10.00	ND	91.7		70-130	0.435	30	
4-Methyl-2-pentanone (MIBK)	108	10	µg/L	100.0	ND	108		70-130	0.371	30	
Naphthalene	9.38	2.0	µg/L	10.00	ND	93.8		70-130	4.28	30	
n-Propylbenzene	10.5	1.0	µg/L	10.00	ND	105		70-130	5.29	30	
Styrene	9.88	1.0	µg/L	10.00	ND	98.8		70-130	4.26	30	
1,1,2,2-Tetrachloroethane	10.3	0.50	µg/L	10.00	ND	103		70-130	3.99	30	
Tetrachloroethylene	12.0	1.0	µg/L	10.00	ND	120		70-130	1.26	30	
Toluene	11.4	1.0	µg/L	10.00	ND	114		70-130	0.176	30	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B402402 - SW-846 5030B											
Matrix Spike Dup (B402402-MSD1)	**Source: 25D0332-01**			Prepared: 04/07/25 Analyzed: 04/08/25							
1,2,3-Trichlorobenzene	10.2	5.0	µg/L	10.00	ND	102		70-130	2.89	30	
1,2,4-Trichlorobenzene	10.8	1.0	µg/L	10.00	ND	108		70-130	2.02	30	
1,1,1-Trichloroethane	12.9	1.0	µg/L	10.00	ND	129		70-130	0.699	30	
1,1,2-Trichloroethane	10.8	1.0	µg/L	10.00	ND	108		70-130	1.58	30	
Trichloroethylene	12.4	1.0	µg/L	10.00	ND	124		70-130	1.54	30	
Trichlorofluoromethane (Freon 11)	13.9	2.0	µg/L	10.00	ND	**139**	*	70-130	0.289	30	MS-15, V-20
1,2,3-Trichloropropane	11.8	2.0	µg/L	10.00	ND	118		70-130	0.938	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.4	1.0	µg/L	10.00	ND	114		70-130	0.614	30	
1,2,4-Trimethylbenzene	11.6	1.0	µg/L	10.00	ND	116		70-130	0.0864	30	
1,3,5-Trimethylbenzene	10.5	1.0	µg/L	10.00	ND	105		70-130	2.26	30	
Vinyl Chloride	10.9	2.0	µg/L	10.00	ND	109		70-130	1.91	30	
m+p Xylene	22.2	2.0	µg/L	20.00	ND	111		70-130	2.58	20	
o-Xylene	11.4	1.0	µg/L	10.00	ND	114		70-130	3.19	30	
Xylenes (total)	33.6	1.0	µg/L	30.00	ND	112		0-200	2.79		
Surrogate: 1,2-Dichloroethane-d4	*28.6*		µg/L	25.00		114		70-130			
Surrogate: Toluene-d8	*25.6*		µg/L	25.00		102		70-130			
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.00		99.8		70-130			

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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 B402372 - SW-846 3510C										
Blank (B402372-BLK1)				Prepared: 04/05/25 Analyzed: 04/07/25						
2,3,4,6-Tetrachlorophenol	ND	20	µg/L							
Atrazine	ND	20	µg/L							
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, V-34
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							
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							L-04
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							L-04
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							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B402372 - SW-846 3510C											
Blank (B402372-BLK1)				Prepared: 04/05/25 Analyzed: 04/07/25							
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	*169*		µg/L	400.0		42.4		15-110			
Surrogate: Phenol-d6	*138*		µg/L	400.0		34.5		15-110			
Surrogate: Nitrobenzene-d5	*173*		µg/L	200.0		86.4		30-130			
Surrogate: 2-Fluorobiphenyl	*182*		µg/L	200.0		91.1		30-130			
Surrogate: 2,4,6-Tribromophenol	*217*		µg/L	400.0		54.2		15-110			
Surrogate: p-Terphenyl-d14	*210*		µg/L	200.0		105		30-130			
LCS (B402372-BS1)				Prepared: 04/05/25 Analyzed: 04/07/25							
2,3,4,6-Tetrachlorophenol	39.0	20	µg/L	100.0		**39.0**	*	40-140			L-07A
Atrazine	71.4	20	µg/L	100.0		71.4		40-140			
Benzaldehyde	63.6	10	µg/L	100.0		63.6		40-140			
Biphenyl	69.9	20	µg/L	100.0		69.9		40-140			
Caprolactam	18.6	10	µg/L	100.0		**18.6**	*	40-140			V-05, L-04
Acenaphthene	68.0	5.0	µg/L	100.0		68.0		40-140			
Acenaphthylene	73.5	5.0	µg/L	100.0		73.5		40-140			
Acetophenone	63.2	10	µg/L	100.0		63.2		40-140			
Aniline	55.8	20	µg/L	100.0		55.8		40-140			V-05, V-34
Anthracene	78.1	5.0	µg/L	100.0		78.1		40-140			
Benzo(a)anthracene	77.8	5.0	µg/L	100.0		77.8		40-140			
Benzo(a)pyrene	80.1	5.0	µg/L	100.0		80.1		40-140			
Benzo(b)fluoranthene	81.1	5.0	µg/L	100.0		81.1		40-140			
Benzo(g,h,i)perylene	85.3	5.0	µg/L	100.0		85.3		40-140			
Benzo(k)fluoranthene	80.7	5.0	µg/L	100.0		80.7		40-140			
Bis(2-chloroethoxy)methane	69.3	10	µg/L	100.0		69.3		40-140			
Bis(2-chloroethyl)ether	66.4	10	µg/L	100.0		66.4		40-140			
2,2'-oxybis(1-Chloropropane)	65.1	10	µg/L	100.0		65.1		40-140			
Bis(2-Ethylhexyl)phthalate	63.6	10	µg/L	100.0		63.6		40-140			
4-Bromophenylphenylether	75.9	10	µg/L	100.0		75.9		40-140			
Butylbenzylphthalate	71.4	10	µg/L	100.0		71.4		40-140			
Carbazole	76.6	10	µg/L	100.0		76.6		40-140			
4-Chloroaniline	71.4	10	µg/L	100.0		71.4		40-140			
4-Chloro-3-methylphenol	60.3	10	µg/L	100.0		60.3		30-130			
2-Chloronaphthalene	61.2	10	µg/L	100.0		61.2		40-140			
2-Chlorophenol	50.6	10	µg/L	100.0		50.6		30-130			R-05

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B402372 - SW-846 3510C												
LCS (B402372-BS1)				Prepared: 04/05/25 Analyzed: 04/07/25								
4-Chlorophenylphenylether	68.8	10	µg/L	100.0		68.8		40-140				
Chrysene	77.4	5.0	µg/L	100.0		77.4		40-140				
Dibenz(a,h)anthracene	77.6	5.0	µg/L	100.0		77.6		40-140				
Dibenzofuran	74.4	5.0	µg/L	100.0		74.4		40-140				
Di-n-butylphthalate	65.4	10	µg/L	100.0		65.4		40-140				
3,3-Dichlorobenzidine	88.4	10	µg/L	100.0		88.4		40-140				
2,4-Dichlorophenol	54.4	10	µg/L	100.0		54.4		30-130			R-05	
Diethylphthalate	63.1	10	µg/L	100.0		63.1		40-140				
2,4-Dimethylphenol	76.2	10	µg/L	100.0		76.2		30-130				
Dimethylphthalate	68.2	10	µg/L	100.0		68.2		40-140				
4,6-Dinitro-2-methylphenol	30.4	20	µg/L	100.0		30.4		30-130			R-05	
2,4-Dinitrophenol	14.8	10	µg/L	100.0		**14.8**	*	30-130			V-04, L-07A	
2,4-Dinitrotoluene	72.4	10	µg/L	100.0		72.4		40-140				
2,6-Dinitrotoluene	79.2	10	µg/L	100.0		79.2		40-140				
Di-n-octylphthalate	60.6	10	µg/L	100.0		60.6		40-140			V-04	
Fluoranthene	74.2	5.0	µg/L	100.0		74.2		40-140				
Fluorene	73.3	5.0	µg/L	100.0		73.3		40-140				
Hexachlorobenzene	83.3	10	µg/L	100.0		83.3		40-140				
Hexachlorobutadiene	32.2	10	µg/L	100.0		**32.2**	*	40-140			L-04	
Hexachlorocyclopentadiene	50.0	10	µg/L	100.0		50.0		30-140				†
Hexachloroethane	31.5	10	µg/L	100.0		**31.5**	*	40-140			L-04	
Indeno(1,2,3-cd)pyrene	84.4	5.0	µg/L	100.0		84.4		40-140				
Isophorone	73.5	10	µg/L	100.0		73.5		40-140				
1-Methylnaphthalene	51.3	5.0	µg/L	100.0		51.3		40-140				
2-Methylnaphthalene	46.4	5.0	µg/L	100.0		46.4		40-140				
2-Methylphenol	60.1	10	µg/L	100.0		60.1		30-130				
3/4-Methylphenol	54.0	10	µg/L	100.0		54.0		30-130				
Naphthalene	49.4	5.0	µg/L	100.0		49.4		40-140				
2-Nitroaniline	84.6	10	µg/L	100.0		84.6		40-140				
3-Nitroaniline	76.5	10	µg/L	100.0		76.5		40-140				
4-Nitroaniline	71.2	10	µg/L	100.0		71.2		40-140				
Nitrobenzene	73.1	10	µg/L	100.0		73.1		40-140				
2-Nitrophenol	50.7	10	µg/L	100.0		50.7		30-130			R-05	
4-Nitrophenol	15.8	10	µg/L	100.0		15.8		10-130			R-05	†
N-Nitrosodiphenylamine/Diphenylamine	78.8	10	µg/L	100.0		78.8		40-140				
N-Nitrosodi-n-propylamine	57.8	10	µg/L	100.0		57.8		40-140			V-05	
Pentachlorophenol	34.5	10	µg/L	100.0		34.5		30-130			R-05	
Phenanthrene	78.0	5.0	µg/L	100.0		78.0		40-140				
Phenol	31.1	10	µg/L	100.0		31.1		20-130				†
Pyrene	82.2	5.0	µg/L	100.0		82.2		40-140				
Pyridine	44.9	20	µg/L	100.0		44.9		10-140				†
1,2,4,5-Tetrachlorobenzene	63.0	10	µg/L	100.0		63.0		40-140				
2,4,5-Trichlorophenol	53.9	10	µg/L	100.0		53.9		30-130			R-05	
2,4,6-Trichlorophenol	45.3	10	µg/L	100.0		45.3		30-130				
Surrogate: 2-Fluorophenol	*158*		µg/L	400.0		39.4		15-110				
Surrogate: Phenol-d6	*135*		µg/L	400.0		33.7		15-110				
Surrogate: Nitrobenzene-d5	*154*		µg/L	200.0		77.2		30-130				
Surrogate: 2-Fluorobiphenyl	*161*		µg/L	200.0		80.4		30-130				
Surrogate: 2,4,6-Tribromophenol	*225*		µg/L	400.0		56.3		15-110				
Surrogate: p-Terphenyl-d14	*175*		µg/L	200.0		87.6		30-130				

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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 B402372 - SW-846 3510C													
LCS Dup (B402372-BSD1)				Prepared: 04/05/25 Analyzed: 04/07/25									
2,3,4,6-Tetrachlorophenol	65.3	20	µg/L	100.0		65.3		40-140	**50.3**	*	20	R-05	
Atrazine	73.4	20	µg/L	100.0		73.4		40-140	2.76		20		
Benzaldehyde	64.5	10	µg/L	100.0		64.5		40-140	1.42		20		
Biphenyl	75.9	20	µg/L	100.0		75.9		40-140	8.17		20		
Caprolactam	19.0	10	µg/L	100.0		**19.0**	*	40-140	2.13		20	L-04, V-05	
Acenaphthene	72.5	5.0	µg/L	100.0		72.5		40-140	6.35		20		
Acenaphthylene	77.5	5.0	µg/L	100.0		77.5		40-140	5.26		20		
Acetophenone	64.5	10	µg/L	100.0		64.5		40-140	2.15		20		
Aniline	53.4	20	µg/L	100.0		53.4		40-140	4.40		50	V-05, V-34	‡
Anthracene	79.9	5.0	µg/L	100.0		79.9		40-140	2.29		20		
Benzo(a)anthracene	79.5	5.0	µg/L	100.0		79.5		40-140	2.08		20		
Benzo(a)pyrene	80.2	5.0	µg/L	100.0		80.2		40-140	0.137		20		
Benzo(b)fluoranthene	82.8	5.0	µg/L	100.0		82.8		40-140	2.04		20		
Benzo(g,h,i)perylene	86.8	5.0	µg/L	100.0		86.8		40-140	1.74		20		
Benzo(k)fluoranthene	85.0	5.0	µg/L	100.0		85.0		40-140	5.18		20		
Bis(2-chloroethoxy)methane	73.3	10	µg/L	100.0		73.3		40-140	5.63		20		
Bis(2-chloroethyl)ether	67.2	10	µg/L	100.0		67.2		40-140	1.05		20		
2,2'-oxybis(1-Chloropropane)	66.5	10	µg/L	100.0		66.5		40-140	2.10		20		
Bis(2-Ethylhexyl)phthalate	66.5	10	µg/L	100.0		66.5		40-140	4.44		20		
4-Bromophenylphenylether	78.8	10	µg/L	100.0		78.8		40-140	3.67		20		
Butylbenzylphthalate	74.6	10	µg/L	100.0		74.6		40-140	4.41		20		
Carbazole	78.4	10	µg/L	100.0		78.4		40-140	2.21		20		
4-Chloroaniline	72.6	10	µg/L	100.0		72.6		40-140	1.67		20		
4-Chloro-3-methylphenol	66.5	10	µg/L	100.0		66.5		30-130	9.71		20		
2-Chloronaphthalene	69.6	10	µg/L	100.0		69.6		40-140	12.9		20		
2-Chlorophenol	64.8	10	µg/L	100.0		64.8		30-130	**24.7**	*	20	R-05	
4-Chlorophenylphenylether	71.3	10	µg/L	100.0		71.3		40-140	3.54		20		
Chrysene	80.2	5.0	µg/L	100.0		80.2		40-140	3.49		20		
Dibenz(a,h)anthracene	81.8	5.0	µg/L	100.0		81.8		40-140	5.27		20		
Dibenzofuran	77.4	5.0	µg/L	100.0		77.4		40-140	4.02		20		
Di-n-butylphthalate	67.4	10	µg/L	100.0		67.4		40-140	3.07		20		
3,3-Dichlorobenzidine	91.2	10	µg/L	100.0		91.2		40-140	3.02		20		
2,4-Dichlorophenol	71.9	10	µg/L	100.0		71.9		30-130	**27.7**	*	20	R-05	
Diethylphthalate	65.5	10	µg/L	100.0		65.5		40-140	3.69		20		
2,4-Dimethylphenol	77.5	10	µg/L	100.0		77.5		30-130	1.64		20		
Dimethylphthalate	68.2	10	µg/L	100.0		68.2		40-140	0.0147		50		‡
4,6-Dinitro-2-methylphenol	58.6	20	µg/L	100.0		58.6		30-130	**63.4**	*	50	R-05	‡
2,4-Dinitrophenol	43.3	10	µg/L	100.0		43.3		30-130	**98.1**	*	50	R-05, V-04	‡
2,4-Dinitrotoluene	75.5	10	µg/L	100.0		75.5		40-140	4.18		20		
2,6-Dinitrotoluene	79.1	10	µg/L	100.0		79.1		40-140	0.101		20		
Di-n-octylphthalate	64.0	10	µg/L	100.0		64.0		40-140	5.38		20	V-04	
Fluoranthene	75.6	5.0	µg/L	100.0		75.6		40-140	1.87		20		
Fluorene	74.8	5.0	µg/L	100.0		74.8		40-140	1.96		20		
Hexachlorobenzene	84.3	10	µg/L	100.0		84.3		40-140	1.18		20		
Hexachlorobutadiene	37.2	10	µg/L	100.0		**37.2**	*	40-140	14.1		20	L-04	
Hexachlorocyclopentadiene	64.2	10	µg/L	100.0		64.2		30-140	24.9		50		† ‡
Hexachloroethane	33.4	10	µg/L	100.0		**33.4**	*	40-140	6.04		50	L-04	‡
Indeno(1,2,3-cd)pyrene	86.0	5.0	µg/L	100.0		86.0		40-140	1.95		50		‡
Isophorone	76.0	10	µg/L	100.0		76.0		40-140	3.37		20		
1-Methylnaphthalene	58.1	5.0	µg/L	100.0		58.1		40-140	12.3		20		
2-Methylnaphthalene	52.9	5.0	µg/L	100.0		52.9		40-140	13.1		20		
2-Methylphenol	62.8	10	µg/L	100.0		62.8		30-130	4.31		20		

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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 B402372 - SW-846 3510C												
LCS Dup (B402372-BSD1)				Prepared: 04/05/25 Analyzed: 04/07/25								
3/4-Methylphenol	55.7	10	µg/L	100.0		55.7	30-130	3.19		20		
Naphthalene	55.0	5.0	µg/L	100.0		55.0	40-140	10.7		20		
2-Nitroaniline	86.8	10	µg/L	100.0		86.8	40-140	2.54		20		
3-Nitroaniline	77.8	10	µg/L	100.0		77.8	40-140	1.74		20		
4-Nitroaniline	71.3	10	µg/L	100.0		71.3	40-140	0.0842		20		
Nitrobenzene	74.2	10	µg/L	100.0		74.2	40-140	1.49		20		
2-Nitrophenol	70.5	10	µg/L	100.0		70.5	30-130	**32.7**	*	20	R-05	
4-Nitrophenol	32.4	10	µg/L	100.0		32.4	10-130	**68.7**	*	50	R-05	† ‡
N-Nitrosodiphenylamine/Diphenylamine	82.2	10	µg/L	100.0		82.2	40-140	4.31		20		
N-Nitrosodi-n-propylamine	59.0	10	µg/L	100.0		59.0	40-140	2.07		20	V-05	
Pentachlorophenol	61.8	10	µg/L	100.0		61.8	30-130	**56.7**	*	50	R-05	‡
Phenanthrene	80.0	5.0	µg/L	100.0		80.0	40-140	2.49		20		
Phenol	35.0	10	µg/L	100.0		35.0	20-130	11.8		20		†
Pyrene	84.9	5.0	µg/L	100.0		84.9	40-140	3.24		20		
Pyridine	45.4	20	µg/L	100.0		45.4	10-140	1.09		50		† ‡
1,2,4,5-Tetrachlorobenzene	71.6	10	µg/L	100.0		71.6	40-140	12.8		20		
2,4,5-Trichlorophenol	74.2	10	µg/L	100.0		74.2	30-130	**31.7**	*	20	R-05	
2,4,6-Trichlorophenol	69.5	10	µg/L	100.0		69.5	30-130	42.1		50		‡
Surrogate: 2-Fluorophenol	*206*		µg/L	400.0		51.6	15-110					
Surrogate: Phenol-d6	*148*		µg/L	400.0		36.9	15-110					
Surrogate: Nitrobenzene-d5	*149*		µg/L	200.0		74.6	30-130					
Surrogate: 2-Fluorobiphenyl	*158*		µg/L	200.0		78.8	30-130					
Surrogate: 2,4,6-Tribromophenol	*297*		µg/L	400.0		74.2	15-110					
Surrogate: p-Terphenyl-d14	*172*		µg/L	200.0		85.8	30-130					

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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 B402496 - SW-846 3510C										
Blank (B402496-BLK1)				Prepared: 04/08/25 Analyzed: 04/10/25						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.66*		µg/L	10.00		26.6	15-110			
LCS (B402496-BS1)				Prepared: 04/08/25 Analyzed: 04/10/25						
1,4-Dioxane	11.3	0.20	µg/L	10.00		113	40-140			
Surrogate: 1,4-Dioxane-d8	*3.00*		µg/L	10.00		30.0	15-110			
LCS Dup (B402496-BSD1)				Prepared: 04/08/25 Analyzed: 04/10/25						
1,4-Dioxane	12.2	0.20	µg/L	10.00		122	40-140	7.99	30	
Surrogate: 1,4-Dioxane-d8	*2.90*		µg/L	10.00		29.0	15-110			

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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 B402829 - EPA 1633										
Blank (B402829-BLK1)				Prepared & Analyzed: 04/16/25						
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 perfluoroocatnesulfonamide (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							PF-17
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.3	ng/L							PF-17
9Cl-PF3ONS (F53B Minor)	ND	6.3	ng/L							PF-17
11Cl-PF3OUdS (F53B Major)	ND	6.3	ng/L							PF-17
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.8	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 (PFEESA)	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	*88.9*		ng/L	78.38		113	5-130			

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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 B402829 - EPA 1633											
Blank (B402829-BLK1)				Prepared & Analyzed: 04/16/25							
Surrogate: 13C5-PFPeA	*47.5*		ng/L	39.19		121		40-130			
Surrogate: 13C5-PFHxA	*22.4*		ng/L	19.59		114		40-130			
Surrogate: 13C4-PFHpA	*20.1*		ng/L	19.59		102		40-130			
Surrogate: 13C8-PFOA	*24.1*		ng/L	19.59		123		40-130			
Surrogate: 13C9-PFNA	*11.4*		ng/L	9.797		116		40-130			
Surrogate: 13C6-PFDA	*10.8*		ng/L	9.797		110		40-130			
Surrogate: 13C7-PFUnA	*10.6*		ng/L	9.797		109		30-130			
Surrogate: 13C2-PFDoA	*8.78*		ng/L	9.797		89.6		10-130			
Surrogate: 13C2-PFTeDA	*8.33*		ng/L	9.797		85.0		10-130			
Surrogate: 13C3-PFBS	*19.0*		ng/L	19.59		97.0		40-135			
Surrogate: 13C3-PFHxS	*20.7*		ng/L	19.59		106		40-130			
Surrogate: 13C8-PFOS	*21.2*		ng/L	19.59		108		40-130			
Surrogate: 13C2-4:2FTS	*49.1*		ng/L	39.19		125		40-200			
Surrogate: 13C2-6:2FTS	*49.8*		ng/L	39.19		127		40-200			
Surrogate: 13C2-8:2FTS	*45.7*		ng/L	39.19		117		40-300			
Surrogate: 13C8-PFOSA	*17.7*		ng/L	19.59		90.1		40-130			
Surrogate: D3-NMeFOSA	*16.9*		ng/L	19.59		86.0		10-130			
Surrogate: D5-NEtFOSA	*15.4*		ng/L	19.59		78.5		10-130			
Surrogate: D3-NMeFOSAA	*38.6*		ng/L	39.19		98.6		40-170			
Surrogate: D5-NEtFOSAA	*38.8*		ng/L	39.19		99.0		25-135			
Surrogate: D7-NMeFOSE	*156*		ng/L	195.9		79.8		10-130			
Surrogate: D9-NEtFOSE	*150*		ng/L	195.9		76.6		10-130			
Surrogate: 13C3-HFPO-DA	*102*		ng/L	78.38		**131**	*	40-130			PF-17
LCS (B402829-BS1)				Prepared & Analyzed: 04/16/25							
Perfluorobutanoic acid (PFBA)	79.0	6.3	ng/L	78.70		100		70-140			
Perfluoropentanoic acid (PFPeA)	40.8	3.1	ng/L	39.35		104		65-135			
Perfluorohexanoic acid (PFHxA)	19.7	1.6	ng/L	19.67		100		70-145			
Perfluoroheptanoic acid (PFHpA)	19.0	1.6	ng/L	19.67		96.8		70-150			
Perfluorooctanoic acid (PFOA)	18.8	1.6	ng/L	19.67		95.5		70-150			
Perfluorononanoic acid (PFNA)	20.1	1.6	ng/L	19.67		102		70-150			
Perfluorodecanoic acid (PFDA)	20.2	1.6	ng/L	19.67		103		70-140			
Perfluoroundecanoic acid (PFUnA)	20.0	1.6	ng/L	19.67		102		70-145			
Perfluorododecanoic acid (PFDoA)	19.8	1.6	ng/L	19.67		101		70-140			
Perfluorotridecanoic acid (PFTrDA)	19.9	1.6	ng/L	19.67		101		65-140			
Perfluorotetradecanoic acid (PFTeDA)	20.0	1.6	ng/L	19.67		102		60-140			
Perfluorobutanesulfonic acid (PFBS)	17.8	1.6	ng/L	17.47		102		60-145			
Perfluoropentanesulfonic acid (PFPeS)	19.0	1.6	ng/L	18.49		102		65-140			
Perfluorohexanesulfonic acid (PFHxS)	16.0	1.6	ng/L	17.94		89.2		65-145			
Perfluoroheptanesulfonic acid (PFHpS)	19.1	1.6	ng/L	18.73		102		70-150			
Perfluorooctanesulfonic acid (PFOS)	18.0	1.6	ng/L	18.26		98.3		55-150			
Perfluorononanesulfonic acid (PFNS)	18.4	1.6	ng/L	18.89		97.6		65-145			
Perfluorodecanesulfonic acid (PFDS)	17.4	1.6	ng/L	18.97		91.8		60-145			
Perfluorododecanesulfonic acid (PFDoS)	14.9	1.6	ng/L	19.04		78.3		50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	80.0	6.3	ng/L	73.74		109		70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	86.0	6.3	ng/L	74.84		115		65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	78.0	6.3	ng/L	75.55		103		60-150			
Perfluorooctanesulfonamide (PFOSA)	19.0	1.6	ng/L	19.67		96.7		70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	19.6	1.6	ng/L	19.67		99.8		60-150			

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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 B402829 - EPA 1633										
LCS (B402829-BS1)				Prepared & Analyzed: 04/16/25						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	19.5	1.6	ng/L	19.67		99.2	65-145			
N-MeFOSAA (NMeFOSAA)	18.2	1.6	ng/L	19.67		92.6	50-140			
N-EtFOSAA (NEtFOSAA)	17.3	1.6	ng/L	19.67		88.0	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	204	16	ng/L	196.7		104	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	206	16	ng/L	196.7		105	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	83.9	6.3	ng/L	78.70		107	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	81.0	6.3	ng/L	74.37		109	65-145			
9Cl-PF3ONS (F53B Minor)	70.6	6.3	ng/L	73.42		96.1	70-155			
11Cl-PF3OUdS (F53B Major)	65.8	6.3	ng/L	73.19		89.9	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	82.9	7.9	ng/L	98.37		84.2	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	427	39	ng/L	491.8		86.7	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	438	39	ng/L	491.8		89.1	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	38.8	3.1	ng/L	35.10		111	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	36.7	3.1	ng/L	39.35		93.2	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	39.9	3.1	ng/L	39.35		101	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	46.1	3.1	ng/L	39.35		117	50-150			
Surrogate: 13C4-PFBA	*74.5*		ng/L	78.70		94.6	5-130			
Surrogate: 13C5-PFPeA	*37.0*		ng/L	39.35		94.2	40-130			
Surrogate: 13C5-PFHxA	*18.2*		ng/L	19.67		92.7	40-130			
Surrogate: 13C4-PFHpA	*17.0*		ng/L	19.67		86.2	40-130			
Surrogate: 13C8-PFOA	*19.2*		ng/L	19.67		97.5	40-130			
Surrogate: 13C9-PFNA	*9.03*		ng/L	9.837		91.8	40-130			
Surrogate: 13C6-PFDA	*9.04*		ng/L	9.837		91.9	40-130			
Surrogate: 13C7-PFUnA	*8.82*		ng/L	9.837		89.6	30-130			
Surrogate: 13C2-PFDoA	*7.79*		ng/L	9.837		79.1	10-130			
Surrogate: 13C2-PFTeDA	*7.35*		ng/L	9.837		74.7	10-130			
Surrogate: 13C3-PFBS	*17.1*		ng/L	19.67		87.1	40-135			
Surrogate: 13C3-PFHxS	*18.4*		ng/L	19.67		93.4	40-130			
Surrogate: 13C8-PFOS	*18.2*		ng/L	19.67		92.5	40-130			
Surrogate: 13C2-4:2FTS	*39.5*		ng/L	39.35		101	40-200			
Surrogate: 13C2-6:2FTS	*38.9*		ng/L	39.35		98.9	40-200			
Surrogate: 13C2-8:2FTS	*39.5*		ng/L	39.35		100	40-300			
Surrogate: 13C8-PFOSA	*15.2*		ng/L	19.67		77.2	40-130			
Surrogate: D3-NMeFOSA	*14.9*		ng/L	19.67		75.7	10-130			
Surrogate: D5-NEtFOSA	*14.2*		ng/L	19.67		72.3	10-130			
Surrogate: D3-NMeFOSAA	*34.3*		ng/L	39.35		87.2	40-170			
Surrogate: D5-NEtFOSAA	*33.8*		ng/L	39.35		86.0	25-135			
Surrogate: D7-NMeFOSE	*129*		ng/L	196.7		65.5	10-130			
Surrogate: D9-NEtFOSE	*123*		ng/L	196.7		62.6	10-130			
Surrogate: 13C3-HFPO-DA	*82.2*		ng/L	78.70		104	40-130			
MRL Check (B402829-MRL1)				Prepared & Analyzed: 04/16/25						
Perfluorobutanoic acid (PFBA)	14.9	6.3	ng/L	12.60		119	70-140			
Perfluoropentanoic acid (PFPeA)	7.38	3.2	ng/L	6.302		117	65-135			

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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 B402829 - EPA 1633										
MRL Check (B402829-MRL1)				Prepared & Analyzed: 04/16/25						
Perfluorohexanoic acid (PFHxA)	3.55	1.6	ng/L	3.151		113	70-145			
Perfluoroheptanoic acid (PFHpA)	3.48	1.6	ng/L	3.151		110	70-150			
Perfluorooctanoic acid (PFOA)	3.62	1.6	ng/L	3.151		115	70-150			
Perfluorononanoic acid (PFNA)	3.40	1.6	ng/L	3.151		108	70-150			
Perfluorodecanoic acid (PFDA)	3.58	1.6	ng/L	3.151		114	70-140			
Perfluoroundecanoic acid (PFUnA)	3.39	1.6	ng/L	3.151		108	70-145			
Perfluorododecanoic acid (PFDoA)	3.53	1.6	ng/L	3.151		112	70-140			
Perfluorotridecanoic acid (PFTrDA)	3.70	1.6	ng/L	3.151		117	65-140			
Perfluorotetradecanoic acid (PFTeDA)	3.68	1.6	ng/L	3.151		117	60-140			
Perfluorobutanesulfonic acid (PFBS)	3.23	1.6	ng/L	2.798		115	60-145			
Perfluoropentanesulfonic acid (PFPeS)	3.03	1.6	ng/L	2.962		102	65-140			
Perfluorohexanesulfonic acid (PFHxS)	2.92	1.6	ng/L	2.874		102	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	3.63	1.6	ng/L	3.000		121	70-150			
Perfluorooctanesulfonic acid (PFOS)	3.27	1.6	ng/L	2.924		112	55-150			
Perfluorononanesulfonic acid (PFNS)	3.25	1.6	ng/L	3.025		107	65-145			
Perfluorodecanesulfonic acid (PFDS)	3.22	1.6	ng/L	3.037		106	60-145			
Perfluorododecanesulfonic acid (PFDoS)	2.83	1.6	ng/L	3.050		92.7	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	13.9	6.3	ng/L	11.81		118	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	14.8	6.3	ng/L	11.99		123	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	14.9	6.3	ng/L	12.10		123	60-150			
Perfluorooctanesulfonamide (PFOSA)	3.35	1.6	ng/L	3.151		106	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	3.88	1.6	ng/L	3.151		123	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	3.65	1.6	ng/L	3.151		116	65-145			
N-MeFOSAA (NMeFOSAA)	3.55	1.6	ng/L	3.151		113	50-140			
N-EtFOSAA (NEtFOSAA)	3.55	1.6	ng/L	3.151		113	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	37.0	16	ng/L	31.51		118	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	37.2	16	ng/L	31.51		118	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	15.0	6.3	ng/L	12.60		119	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	15.0	6.3	ng/L	11.91		126	65-145			
9Cl-PF3ONS (F53B Minor)	13.5	6.3	ng/L	11.76		115	70-155			
11Cl-PF3OUdS (F53B Major)	11.9	6.3	ng/L	11.72		102	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	14.9	7.9	ng/L	15.75		94.7	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	82.1	39	ng/L	78.77		104	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	79.3	39	ng/L	78.77		101	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.06	3.2	ng/L	5.621		126	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	6.79	3.2	ng/L	6.302		108	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	7.13	3.2	ng/L	6.302		113	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	7.63	3.2	ng/L	6.302		121	50-150			
Surrogate: 13C4-PFBA	*74.6*		ng/L	78.77		94.7	5-130			
Surrogate: 13C5-PFPeA	*37.0*		ng/L	39.39		94.1	40-130			
Surrogate: 13C5-PFHxA	*18.2*		ng/L	19.69		92.3	40-130			

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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 B402829 - EPA 1633										
MRL Check (B402829-MRL1)				Prepared & Analyzed: 04/16/25						
Surrogate: 13C4-PFHpA	*16.8*		ng/L	19.69		85.5	40-130			
Surrogate: 13C8-PFOA	*20.0*		ng/L	19.69		102	40-130			
Surrogate: 13C9-PFNA	*9.16*		ng/L	9.846		93.0	40-130			
Surrogate: 13C6-PFDA	*9.15*		ng/L	9.846		92.9	40-130			
Surrogate: 13C7-PFUnA	*9.16*		ng/L	9.846		93.1	30-130			
Surrogate: 13C2-PFDoA	*7.82*		ng/L	9.846		79.4	10-130			
Surrogate: 13C2-PFTeDA	*7.42*		ng/L	9.846		75.4	10-130			
Surrogate: 13C3-PFBS	*17.1*		ng/L	19.69		87.0	40-135			
Surrogate: 13C3-PFHxS	*18.8*		ng/L	19.69		95.3	40-130			
Surrogate: 13C8-PFOS	*17.9*		ng/L	19.69		90.7	40-130			
Surrogate: 13C2-4:2FTS	*42.7*		ng/L	39.39		108	40-200			
Surrogate: 13C2-6:2FTS	*39.7*		ng/L	39.39		101	40-200			
Surrogate: 13C2-8:2FTS	*35.4*		ng/L	39.39		89.9	40-300			
Surrogate: 13C8-PFOSA	*15.6*		ng/L	19.69		79.4	40-130			
Surrogate: D3-NMeFOSA	*15.0*		ng/L	19.69		76.3	10-130			
Surrogate: D5-NEtFOSA	*14.0*		ng/L	19.69		70.8	10-130			
Surrogate: D3-NMeFOSAA	*33.1*		ng/L	39.39		83.9	40-170			
Surrogate: D5-NEtFOSAA	*31.9*		ng/L	39.39		81.0	25-135			
Surrogate: D7-NMeFOSE	*132*		ng/L	196.9		66.8	10-130			
Surrogate: D9-NEtFOSE	*125*		ng/L	196.9		63.6	10-130			
Surrogate: 13C3-HFPO-DA	*81.0*		ng/L	78.77		103	40-130			

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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.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
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-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
MS-15	Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
PF-22	Qualifier ion ratio >150% of associated calibration. Detection is suspect.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Water	
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 (PFEESA)	NY
Perfluoro-3-methoxypropanoic acid (PFMPA)	NY
SW-846 8260D in Water	
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
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
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
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
SW-846 8270E in Water	
1,4-Dioxane	NY,NH,NJ

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
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
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

Pace Analytical Services, LLC - East Longmeadow, Ma

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
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

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

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2026
NY	New York State Department of Health	10899 NELAP	04/1/2026
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2026
NC	North Carolina Div. of Water Quality	652	12/31/2025
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

Chain of Custody / Analysis Report

25D0332

Page 1 of 1

Sampler(s): Brian Dunn
(Signature) [signature]

Contact: Michael Grifasi
Address: 333 West Washington Street, Syracuse, New York 13221-4873
Phone: (315) 956-6100
E-mail: michael.grifasi@ramboll.com
Project: NYSDEC Claremont Polychemical Site Q2 Sys Samples
Location: Old Bethpage, New York

Laboratory: Pace Analytical Services, 39 Spruce St., East Longmeadow, MA 01028
Attn: Kyle Murray
Phone: 413-525-2332

Holding Time:

Package Requirement: Level 2 and Level 3

EDD Format: EQuIS 4-file

Laboratory Use Only
Project Number:
Job Number:
Laboratory ID:

Analysis Required

	Unique Field Sample ID (sys_sample_code)	Sample Location	Date	Time	Sample Type (See Key)	Sample Matrix (See Key)	Number of Containers	Grab [G] or Composite [C]	Field Filtered? (Y / N)	8260d: DER TCLVOCs	8270: DER TCL SVORVTs	6010D TAL Metals +Mercury (7470A)	2570D: TDS	2540D: TSS	7196A: hexavalent chromium	351.2: TKN	9060A: TOC	300.0: Anions Cl,F,SO4,CN	9012B: Cyanide	1633: PFAS		8270D SIM: 1,4-dioxane	Lab Sample ID
Preservatives (see key at bottom)										1	0	2	0	0	0	3	8	0	4	0	0	0	
1	PD-CP-00-040325	PD	4/3/2025	11:30	N	WG	9	G	N	X	X									X		X	
2	PD-CP-01-040325	PD	4/3/2025	↓	FD	WG	9	G	N	X	X									X		X	
1	PD-CP-MS-040325	PD	4/3/2025	↓	MS	WG	3	G	N	X													
1	PD-CP-MSD-040325	PD	4/3/2025	↓	MSD	WG	3	G	N	X													
3	ASF-CP-00-040325	N	4/3/2025	11:00	N	WG	4	G	N											X		X	
4	ASF-CP-01-040325	FD	4/3/2025	↓	FD	WG	4	G	N											X		X	
5	TB-040325		4/3/2025		TB	WQ	2		N	X													
8																							
9																							
10																							
11																							
12																							
13																							
14																							

Special Instructions: *OU-5 April 2025 Monthly System Samples*

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

Relinquished by: BRIAN J. DUNN [signature] Of: GES, Inc.	Date: 4/3/25 Time:	~~Courier Name:~~ FedEx Received: Byd P-L (w) ~~Tracking #:~~ 1.4°C	Date: 4/3/25, 15:20 Time:
Relinquished by: Byd P-L Of:	Date: 4/3/25 Time: 18:00	Courier Name: MO A Pace Tracking #:	Date: 4/3/25 Time: 18:30
Courier Name: MO A Pace FedEx 20:56 Tracking #:	Date: 4/3/25 Time: 18:30	Received By: [signature] Of: PACE	Date: 4/3/25 Time: 22:28

Condition:

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

Cooler Temperature:

Other comments or notes regarding condition of samples as received:

Sample Type: N = Normal env. sample, FD = field duplicate, EB = Equipment Blank, TB = Trip Blank, MS = Lab Matrix Spike, Other (Specify): FRB = Field Reagent Blank
Sample Matrix: SE = Sediment, SO = Soil, WG = Groundwater, WQ = Water Quality, WS = Surface Water, WW = Waste Water, WP = Potable Water, AA = Ambient Air, Other (Specify):
Preservative Code: 0 = none, 1 = HCL, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = Zn Acetate, 6 = MeOH, 7 = $NaHSO_4$, 8 = Na_3PO_4, 9 = BenzalkoniumCl, 10 = other

[signature] 4/4/25 0100 [signature] 0.8, 1.9 4/4/25 0100

1 of 2 COOLERS

RAMBOLL

Chain of Custody / Analysis Report

Page 1 of 1

Sampler(s): Brian Dunn
(Signature) [signature]

25D0332

Contact:	Michael Grifasi
Address:	333 West Washington Street Syracuse, New York 13221-4873
Phone:	(315) 956-6100
E-mail:	michael.grifasi@ramboll.com
Project:	NYSDEC Claremont Polychemical Site Q2 Sys Samples
Location:	Old Bethpage, New York

Laboratory: Pace Analytical Services, 39 Spruce St., East Longmeadow, MA 01028
Attn: Kyle Murray
Phone: 413-525-2332

Holding Time:

Package Requirement: Level 2 and Level 3

EDD Format: EQuIS 4-file

Laboratory Use Only
Project Number:
Job Number:
Laboratory ID:

Analysis Required — Preservatives: (see key at bottom)

#	Unique Field Sample ID (sys_sample_code)	Sample Location	Date	Time	Sample Type (See Key)	Sample Matrix (See Key)	Number of Containers	Grab [G] or Composite [C]	Field Filtered? (Y / N)	8260d: DER TCLVOCs	8270: DER TCL SVORVTs	6010D TAL Metals +Mercury (7470A)		2570D: TDS	2540D: TSS	7196A: hexavalent chromium	351.2: TKN	9060A: TOC	300.0: Anions Cl,F,SO4,CN	9012B: Cyanide		1633: PFAS		8270D SIM: 1,4-dioxane			Lab Sample ID:
	Preservatives									1	0	2		0	0	0	3	8	0	4		0	0	0			
1	PD-CP-00-040325	PD	4/3/2025	1130	N	WG	9	G	N	X	X											X		X			
2	PD-CP-01-040325	PD	4/3/2025	↓	FD	WG	9	G	N	X	X											X		X			
3	PD-CP-MS-040325	PD	4/3/2025	↓	MS	WG	3	G	N	X																	
4	PD-CP-MSD-040325	PD	4/3/2025	↓	MSD	WG	3	G	N	X																	
5	ASF-CP-00-040325	N	4/3/2025	1100	N	WG	4	G	N													X		X			
6	ASF-CP-01-040325	FD	4/3/2025	↓	FD	WG	4	G	N													X		X			
7	TB-040325		4/3/2025		TB	WQ	2		N	X																	
8																											
9																											
10																											
11																											
12																											
13																											
14																											

Special Instructions: *OU-5 April 2025 Monthly System Samples*

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

Relinquished by: BRIAN J. DUNN [signature] Of: GES, Inc.	Date: 4/3/25 Time:	~~Courier Name:~~ [signature] FedEx (w) 1.4°C ~~Tracking #:~~	Date: 4/3/25 Time: 15:20
Relinquished by: [signature] Of:	Date: 4/3/25 Time: 18:__	Courier Name: MO A Pace Tracking #:	Date: 4/3/25 Time: 18:30
Courier Name: MO A Pace FedEx 20:56 Tracking #:	Date: 4/3/25 Time: 18:30	Received By: [signature] PACE Of:	Date: 4/3/25 Time: 20:20

Condition:

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

Cooler Temperature:

Other comments or notes regarding condition of samples as received:

Sample Type: N = Normal env. sample, FD = field duplicate, EB = Equipment Blank, TB = Trip Blank, MS = Lab Matrix Spike, Other (Specify): FRB = Field Reagent Blank
Sample Matrix: SE = Sediment, SO = Soil, WG = Groundwater, WQ = Water Quality, WS = Surface Water, WW = Waste Water, WP = Potable Water, AA = Ambient Air, Other (Specify):
Preservative Code: 0 = none, 1 = HCL, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = Zn Acetate, 6 = MeOH, 7 = $NaHSO_4$, 8 = Na_3PO_4, 9 = BenzalkoniumCl, 10 = other

[signature] 4/4/25 0100 [signature] 0.8, 1.9 4/4/25 0100

2 of 2 COOLERS

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

Log In Back-Sheet

Client Ramboll

Project Claremont Polychemical

MCP/RCP Required na

Deliverable Package Requirement na

Location NY

PWSID# (When Applicable) na

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐ _____

Received By / Date / Time RL 4/4/25 1100

Back-Sheet By / Date / Time GR 4/4/25 834

Temperature Method GUN # 6

WV samples: Yes (see note*) / (No) (follow normal procedure)

Temp < 6° C Actual Temperature 0.8, 1.9

Rush Samples: Yes / (No) Notify _____

Short Hold: Yes / (No) Notify _____

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
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: (N/A) ☐ ☐

Additional Container Notes

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

Qualtrax ID: 120836

Sample	Soils Jars (Circle Amb/Clear)				Ambers						Plastics												VOA Vials						Other / Fill in					
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	1 Liter			250mL		100mL	1 Liter		500mL	250mL																				
					Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Sulfuric	Unpreserved	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	Ammonium Acetate	NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	Bisulfate	Col/Bact							
1					2						2																							
2					2						2		2										3											
3					2								2																					
4					2								2																					
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Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist

Effective Date: 06/11/2024