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MONTHLY REPORT OF THE OPERATIONS & MAINTENANCE ACTIVITIES (OCTOBER 2024)

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

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

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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
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 October 2024. In addition, former Operable Unit (OU4) was inspected once per month to ensure security and building code compliance. For this report, where '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, October 1, 2024, through approximately 0800 hours, November 1, 2024. 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 31 days in this reporting period during which the treatment system experienced 5,457 minutes of downtime due to air stripper feed (ASF) wet vault signal issues (see **Section 6**). Readings of the key plant process parameters are normally recorded each workday. These readings and the Human Machine Interface (HMI) flow trend lines are used to monitor the system's performance and condition. Selected readings are recorded in the daily database which is an electronic file maintained in the monthly operating documents folder. If the plant is not occupied,the system is monitored remotely.

The treatment process control and alarm systems are functional. The recovery well pumps, process pumps, and air stripper blower are operated in the automatic mode and are normally remotely controlled and monitored. The RW-3, RW-4 and RW-5 recovery wells were functional and fully operational during the month of October.

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 (October 24 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 October activities is further provided in the plant operator's daily logbook.

Maintenance and project activities undertaken during the October period included:

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

1.3 Maintenance Logs

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

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

2. TECHNICAL SUPPORT ACTIVITIES

2.1 GES/Ramboll Personnel

- GES maintained the system throughout the period.
- October 1 through October 3, 2024, Conner Custance (Ramboll) was on site to oversee granular activated carbon (GAC) vessel removal activities.
- October 1 through October 10, 2024, Ramboll groundwater sampling team (Liam Blake and Ben Oppedisano) completed quarterly groundwater monitoring and well gauging.

2.2 NYSDEC Personnel, Sub - contractors, and Other Visitors

- October 1 through October 3, 2024, Brookside Environmental crew was on site for GAC treatment system disassembly and hoisting of heavy loads.
- On October 3, 2024, Long Island crane operator, Calgon Carbon truck drivers and Justin Taylor (Calgon Carbon) were on site to load GAC vessels and all associated piping for transport offsite.

2.3 Deliveries

- No deliveries during October 2024 reporting period.

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.
- Crane work and overhead lifting of GAC vessels were completed to remove the temporary GAC treatment system equipment offsite.

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.

5. MONITORING WELL WATER ELEVATIONS

The monitoring well system's groundwater elevation data table was updated after the October 2024 quarterly GW elevation recording task. This database is available for review. The next set of synoptic water level measurements will be scheduled for February 2025 and will be conducted by Ramboll.

6. TREATMENT SYSTEM FLOWS

During the October 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 October 2024, recovery wells RW-3 through RW-5 operated normally.

The GWTS system was placed offline between October 4 through October 7, 2024 and between October 31 through November 1, 2024 due to ASF wet vault signal issues (totaling 5,457 minutes). GES team completed wet vault draining and conducted float replacements of 3 floats.

During the month of October, the plant discharge was directed entirely to Recharge Basin 33.

The total volume of treated water discharged from ~0800 hours October 1, 2024 to ~0800 hours November 1, 2024 was approximately 29,442,000 gallons. The data compiled as **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 October 2024 are provided in **Table 3**, both following the text of this report.

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

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

7. CHEMICAL CONSUMPTION

The hydrochloric acid feed system is currently off-line, and the system is void of acid. There are four drums of virgin acid on site. No acid was used for water treatment purposes in October of 2024.

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 October of 2024.

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 October of 2024.

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 September 2024, following quarterly groundwater sampling activities.

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 October 7, 2024 (**Table 6**) indicate that the analyzed parameters were compliant with permit limits. 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; and is tentatively scheduled for the first quarter of 2024.

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 the pulse reading instrument may be required.

The pump in recovery well RW-3 experienced an electric malfunction on March 3, 2024. The pump was replaced and put back into operation on April 5, 2024.

The PF-2 transfer pump in the OU5 GWTS experienced a malfunction on July 23, 2024, and remained offline and was unable to start through the end of July (pending further electrical troubleshooting). The pump was repaired on August 7, 2024 and is operational.

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 is in the process of selecting a contractor for this work which is tentatively scheduled for 4th Q 2024.

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 October 2024 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 October sampling activities included:

- The October PD data was processed and submitted.
- Monthly system sampling was completed on October 7, 2024.
  Quarterly groundwater elevation monitoring and groundwater sampling via low flow methods and passive diffusion bags (PDBs).

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 October 2024 can be found in **Table 8** following the text of this report.

The October 2024 average pH measurement was 7.06 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 AS 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 October 2024 readings from the AS tower are provided in **Table 10**.

Other routine data collected in October 2024 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. The GAC treatment system was operational from April 25, 2024 through

September 17, 2024. The GAC treatment system was disassembled and removed from the Site on October 3, 2024.

13.1 Extraction (RW) Processes

- The monthly system inspection was completed.
- The vault space heating units will be reactivated in December 2024.
- The recovery well pump system is remotely controlled and monitored, it operates in the auto mode.
- RW-4 pump experienced electrical issues and shut down on May 21, 2024. It has been subsequently placed back online, however, it continues to experience randomized shut downs. Upon further testing, GES plans to replace the motor starter and relay overload at the controls of RW-4.
- Pump flow readouts are transmitted to the plant and the totalizers for pumps RW-3, and RW-4 are fully functional. The local flow meter for RW-5 occasionally stops transmitting.
- Air/Vacuum (A/V) valve at station 33+96 encountered a leak in May 2023 that required the vault to be pumped out and have its air/vacuum valve removed. Currently a stopper has been fitted to the pit that allows water to flow through the system.
- The Air/Vacuum (A/V) valve at station 16+57 and 17+10 remain isolated from the transmission line.
- RW-1 and RW-2 are offline and periodically run for preventative maintenance purposes. Their flow meters are not transmitting through the PLC. When repairs were made at RW-1 in November 2021, stones were removed from the flow meterhousing. There was a thick coating of iron salt deposits on the housing and impeller. Both RW-1 and RW-2 are isolated from the process pipeline throughout the operating period. On a monthly basis, the isolation valves are actuated open and pumps are run for five minutes to rotate the motors. The pumps were tested operational 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.

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.
- One float in ASF wet vault was replaced on October 7, 2024.
- Two floats in ASF wet vault were replaced on November 1, 2024.

13.3 GAC Monitoring

The GAC treatment system was turned off on September 17, 2024, at the completion of the pilot study, and dismantled and subsequently removed from the Site on October 3, 2024

13.4 PD Process

- The plant discharge flow is directed intermittently to Recharge Basin 1 and Recharge Basin 33 based on RB33 liquid level.

- Pump PF-1 was historically taken out of service due to excessive noise and vibration. A full evaluation is required.
- Pump PF-2 experienced operational malfunction on July 23, 2024. The pump was repaired on August 7, 2024 and is operational.
- Pump PF-3 remains fully functional.
- The motors and seals were lubricated as necessary.
- The discharge valve for PFF P3 has failed open.

13.5 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.
- The fire alarm and central monitoring systems are fully functional.

14. GROUNDS

14.1 Plant Perimeter

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

14.2 Well Field

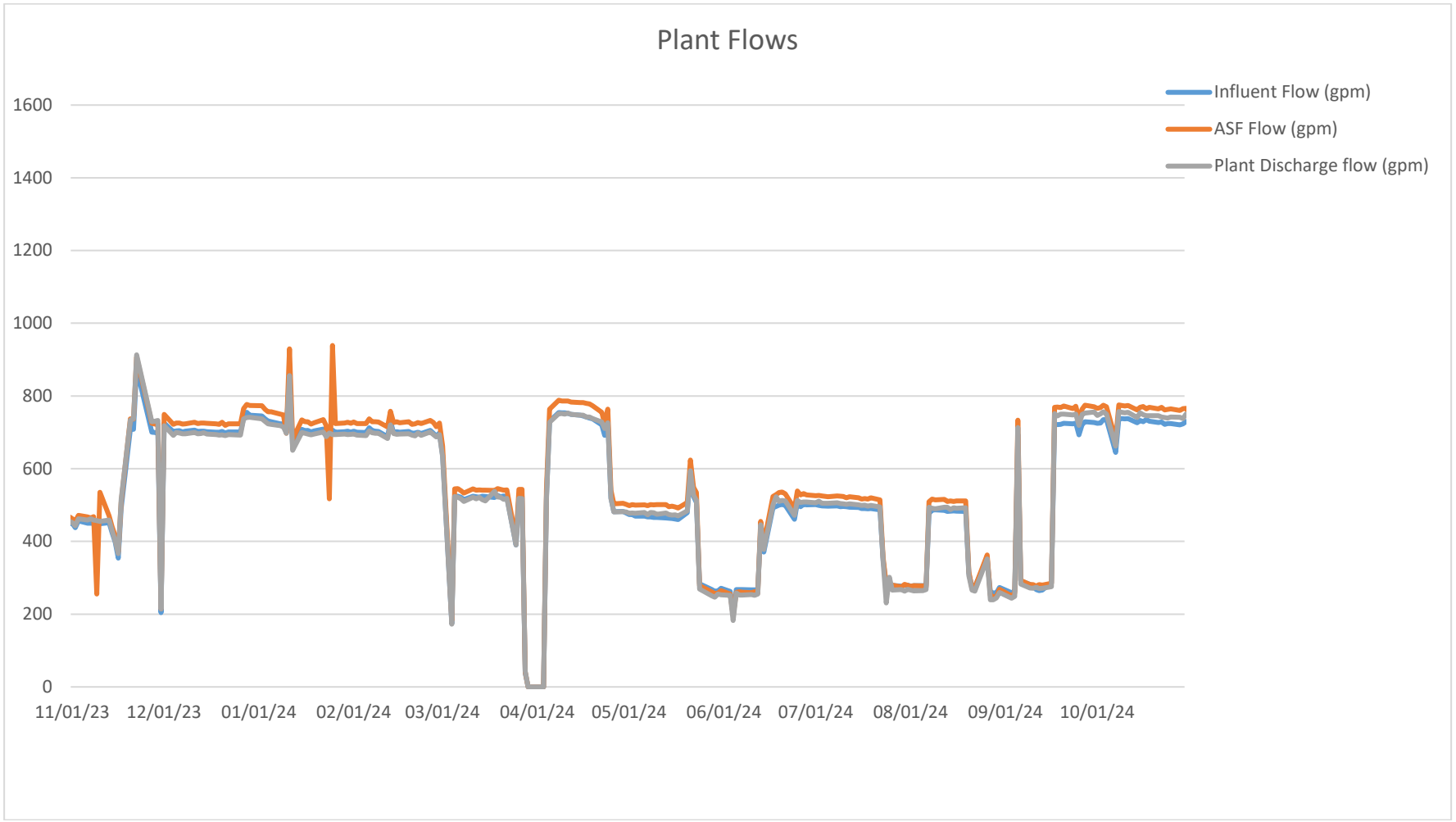
- Well field, and recharge basin inspections continue. Quarterly groundskeeping activities are performed to clear vegetation and poison ivy from around all well fields in anticipation of quarterly groundwater sampling events. In addition, the entrance to Recharge Basin 33 is maintained for ease of access.

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.**	Plant staff and outside contractors	Possible shutdown	May require a Confined Space Entry (CSE)
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

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
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
Several leaks were observed in the plant overhead water supply line	Adjacent to the north door a clam-shell type clamp was applied. The second leak observed above the AS Blower is not readily accessible. It is not problematic. ***Repair work may require evaluation and outside resources. Currently the situation is controlled.***	Outside plumbing contractor	None	Sanitary water may be shut off during repairs
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	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
	past, they were spliced outside the box. The float switches have been replaced and spliced above the sump but there remains a problem with the L2 circuit. 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 P1 has failed PFF P2 has failed	The pump when activated immediately makes a lot of noise, and the pump drop pipe shakes. Smoke/ fumes emanated at the Motor-shaft connection. The motor appears to be good. The pump was removed from service, February 24, 2020. Pump PF-2 has failed and is currently pending electrical troubleshooting. Repaired on August 7, 2024 ***It is recommended that the motor be disconnected, lifted, and the mechanical connection checked.***	Outside contractors	Less water is being treated.	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***	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

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
	equipment and variable frequency controls were discussed.			
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 system needs further investigation to determine if any changes are warranted.**	EE support	To be determined	none
EF-4 is not operable	The fan is controlled through the mezzanine thermostat, but it does not appear to be operating. The fan requires electrical testing. **The system was checked, it appears that the fan is not functioning. 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

Condition to be Corrected	Status and Actions	Resources	Plant Ops Impact	Health & Safety Impacts
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
Plant Electric Heater UH-3 failure and HVAC system performance	During sub-20 deg.F weather, the emergency electric heater failed. The HVAC system struggled to produce heat and the plant temperatures dipped to around mid-30's during that time.	Outside contractor	Water lines freezing	Equipment damage
RW-3 has failed	On March 3, 2024 the pump motor failed and remains offline until replacement activities can occur. Pump and motor were replaced on April 5, 2024.	Plant Operator and Ramboll	Less water is treated	To be determined
RW-4 has failed	On May 21, 2024 the pump motor experience unexpected shut downs. The pump was tested to be operational, but full electrical testing is needed.	Outside contractor	Less water is treated	To be determined
RW-5 has failed	On May 28, 2024 the pump motor controls experienced electrical issues. Electric motor starter and relay overload were replaced on June 18, 2024 and the pump was placed online.	GES Mechanical Support	Less water is treated	Electrical shock
GAC Treatment increased operational pressures	The primary GAC vessels is operating at elevated backpressure and requires blowback due to sediment accumulation.	Plant Operator and outside contractor	Less water is treated through GAC	To be determined

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 appear to have failed/burnt out. The second bank of lights 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
October 2024	750	949,742	29,442,000	5,457	39,246

Acronyms: gal – gallons gpm – gallons per minute,

System was shut down between October 4 through October 7, 2024 and October 31 through November 1, 2024 for ASF vault draining and float switch replacement inside the ASF wet well.

Table 3

Plant Daily Totalizer Readings

October 2024 Flows	Plant Influent		Plant Discharge		RW Discharge	
Date	Volume	Avg. Flow	Volume	Avg. Flow	Volume	Avg. Flow
10/01/24	-	770	-	756	-	727
10/02/24	1,103,000	766	1,075,000	747	1,044,000	725
10/03/24	1,106,000	768	1,081,000	751	1,045,000	726
10/04/24	1,115,000	774	1,090,000	757	1,058,000	735
10/07/24	191,000	1384	183,000	1326	183,000	1326
10/08/24	978,000	679	953,000	662	929,000	645
10/09/24	1,116,000	775	1,091,000	758	1,062,000	738
10/10/24	1,114,000	774	1,087,000	755	1,063,000	738
10/11/24	1,112,000	772	1,085,000	753	1,061,000	737
10/14/24	3,342,000	774	3,262,000	755	3,189,000	738
10/15/24	1,097,000	762	1,067,000	741	1,046,000	726
10/16/24	1,107,000	769	1,085,000	753	1,055,000	733
10/17/24	1,110,000	771	1,078,000	749	1,050,000	729
10/18/24	1,101,000	765	1,074,000	746	1,059,000	735
10/21/24	3,320,000	769	3,223,000	746	3,155,000	730
10/22/24	1,101,000	765	1,074,000	746	1,047,000	727
10/23/24	1,107,000	769	1,069,000	742	1,049,000	728
10/24/24	1,097,000	762	1,067,000	741	1,040,000	722
10/25/24	1,099,000	763	1,065,000	740	1,043,000	724
10/28/24	3,302,000	764	3,206,000	742	3,127,000	724
10/29/24	1,095,000	760	1,068,000	742	1,038,000	721
10/30/24	1,102,000	765	1,062,000	738	1,042,000	724
10/31/24	1,103,000	766	1,080,000	750	1,051,000	730
11/01/24	323,000	1417	317,000	1390	308,000	1351
October Total Plant **Influent** (Gal)				30,241,000		
October Total Plant **Effluent** (Gal)				29,442,000		
October Total **RW Discharge** (Gal)				28,744,000		

Acronyms: gal - gallons gpm – gallons per minute

Table 4
Pump System Flow Readings

October	On-Time Minutes (actual)	Avg. Flow (gpm)	Avg. Flow (gpd)	Total Flow (gal)
RW-1*	0	0	0	0
RW-2*	5	0	0	~1,045
RW-3	39,246	247	312,161	9,677,000
RW-4	39,246	259	327,871	10,164,000
RW-5	39,246	240	304,323	9,434,000
RW Totals	39,246	732	927,226	28,744,000
Plant Influent	39,246	771	975,516	30,241,000
Plant Effluent	39,246	750	949,742	29,442,000

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

The treatment process was online 31 days during this period with 5,457 minutes of downtime due to multiple ASF wet well float signal issues as described below:

The GWTS system was shut down between October 4 through October 7, 2024 for ASF wet well draining and float switch replacement. The GWTS system was shut down between October 31 through November 1, 2024 for ASF wet well draining and float switch replacement.

* Offline aside from monthly process equipment test to check their functionality. There are no average gallons per day.

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
October 7, 2024

Parameters	Discharge Limitations (SPDES)	Units	Results
pH (range)	*6.5 – 8.5*	*su*	*7.06*
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
October 7, 2024

Parameters	Guidance Values	Units	Influent Results	Effluent Results
PFOA	6.7[1]	ng/l	37	36
PFOS	2.7[1]	ng/l	16	16
1,4-Dioxane	0.35[1]	ug/l	16	15

J – Estimated value **U** – Analyzed but not detected **ug/l** – micrograms per liter **ng/l** – nanograms per liter **x / x** – indicates primary/duplicate results **PFOA** - Perfluorooctanoic acid **PFOS** - Perfluorooctanesulfonic acid

[1] NYSDEC - 2023 Addendum to June 1998 Division of Water Technical and Operational Guidance Series (TOGS) N0. 1.1.1.

Table 8
Effluent pH and Temperature Readings

Date	pH (su)	Temp (°C)
10/02/24	6.96	15.1
10/09/24	7.05	17.0
10/16/24	6.95	16.5
10/23/24	7.12	15.5
10/30/24	7.22	18.0
October Average	**7.06 su**	**16.4 °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

Plant Discharge Monthly Average pH Reading

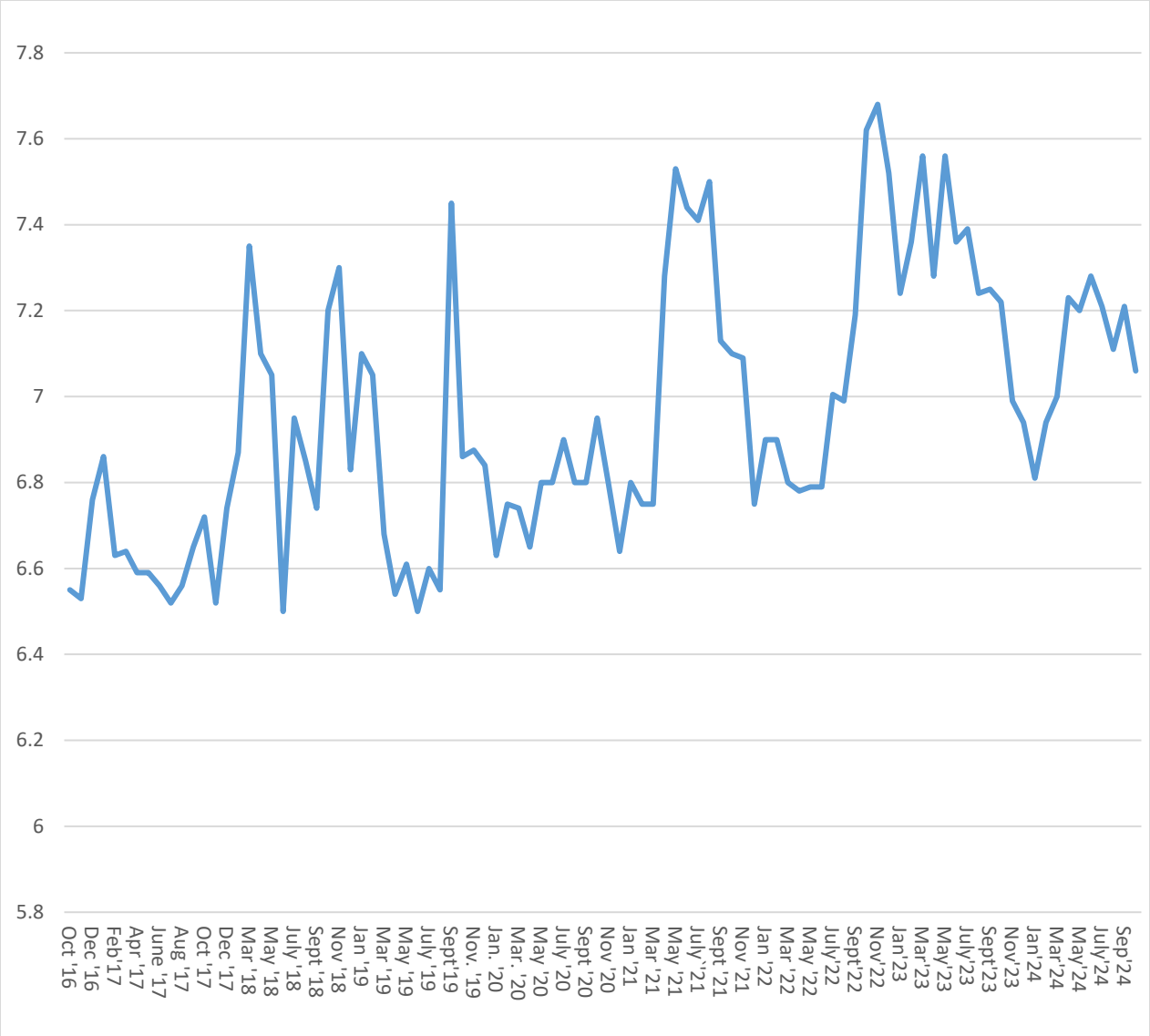


Table 10
AS Tower Air Monitoring Readings

Recorded Date	Port B (ppm)
10/02/24	0.0
10/09/24	0.0
10/14/24	0.0
10/23/24	0.0
10/30/24	0.1

ATTACHMENT 1
MONTHLY O&M SAMPLING ANALYTICAL RESULTS –OCTOBER 7, 2024

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

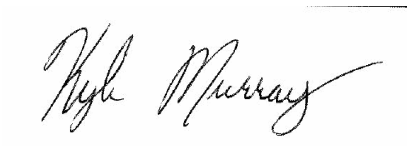
November 6, 2024

Payson Long
NYDEC_Ramboll US Consulting, Inc. - Syracuse
333 West Washington Street, PO Box 4873
Syracuse, NY 13221

Project Location: Old Bethpage, NY
Client Job Number:
Project Number: 130015
Laboratory Work Order Number: 24J1565

Enclosed are results of analyses for samples as received by the laboratory on October 9, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle A. Murray
Project Manager

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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 13221
ATTN: Payson Long

REPORT DATE: 11/6/2024

PURCHASE ORDER NUMBER: 151811

PROJECT NUMBER: 130015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J1565

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

PROJECT LOCATION: Old Bethpage, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PD-CP-00-100724	24J1565-01	Ground Water		Draft Method 1633	
				SW-846 8260D	
				SW-846 8270E	
PD-CP-01-100724	24J1565-02	Ground Water		Draft Method 1633	
				SW-846 8260D	
				SW-846 8270E	
ASF-CP-00-100724	24J1565-03	Ground Water		Draft Method 1633	
				SW-846 8270E	
ASF-CP-01-100724	24J1565-04	Ground Water		Draft Method 1633	
				SW-846 8270E	
TB-100724	24J1565-05	Trip Blank Water		SW-846 8260D	

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CASE NARRATIVE SUMMARY

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

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

Draft Method 1633

Qualifications:

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:

2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FT
24J1565-01[PD-CP-00-100724], 24J1565-02[PD-CP-01-100724], 24J1565-03[ASF-CP-00-100724], 24J1565-04[ASF-CP-01-100724], B390657-BLK1, B390657-BS1, B390657-MRL1, S113414-CCV1

3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTC
24J1565-01[PD-CP-00-100724], 24J1565-02[PD-CP-01-100724], 24J1565-03[ASF-CP-00-100724], 24J1565-04[ASF-CP-01-100724], B390657-BLK1, B390657-BS1, B390657-MRL1, S113414-CCV1

SW-846 8260D

Qualifications:

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:

Chloromethane
24J1565-01[PD-CP-00-100724], 24J1565-02[PD-CP-01-100724], 24J1565-05[TB-100724], B389185-BLK1, B389185-BS1, B389185-BSD1, B389185-MS1, B389185-MSD1, S112168-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:

Hexachlorobutadiene
24J1565-01[PD-CP-00-100724], 24J1565-02[PD-CP-01-100724], B389149-BLK1, B389149-BS1, B389149-BSD1

L-07

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

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine
B389149-BSD1

Atrazine
B389149-BS1

Hexachloroethane
B389149-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:

2,4-Dinitrophenol
B389149-BSD1

4,6-Dinitro-2-methylphenol
B389149-BSD1

Caprolactam
B389149-BSD1

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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:

2,2'-oxybis(1-Chloropropane)
B389149-BS1, B389149-BSD1

2,3,4,6-Tetrachlorophenol
B389149-BS1, B389149-BSD1

2,4,5-Trichlorophenol
B389149-BS1, B389149-BSD1

2,4,6-Trichlorophenol
B389149-BS1, B389149-BSD1

2,4-Dichlorophenol
B389149-BS1, B389149-BSD1

2,4-Dinitrophenol
B389149-BS1

2-Chlorophenol
B389149-BS1, B389149-BSD1

2-Methylphenol
B389149-BS1, B389149-BSD1

2-Nitrophenol
B389149-BS1, B389149-BSD1

3/4-Methylphenol
B389149-BS1, B389149-BSD1

4,6-Dinitro-2-methylphenol
B389149-BS1

4-Chloro-3-methylphenol
B389149-BS1, B389149-BSD1

4-Nitroaniline
B389149-BS1, B389149-BSD1

4-Nitrophenol
B389149-BS1, B389149-BSD1

Acetophenone
B389149-BS1, B389149-BSD1

Benzaldehyde
B389149-BS1, B389149-BSD1

Benzo(g,h,i)perylene
B389149-BS1, B389149-BSD1

Caprolactam
B389149-BS1

Dibenz(a,h)anthracene
B389149-BS1, B389149-BSD1

N-Nitrosodi-n-propylamine
B389149-BS1, B389149-BSD1

Pentachlorophenol
B389149-BS1, B389149-BSD1

Phenol
B389149-BS1, B389149-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:

Di-n-octylphthalate
24J1565-01[PD-CP-00-100724], 24J1565-02[PD-CP-01-100724], B389149-BLK1, B389149-BS1, B389149-BSD1, S112255-CCV1

V-05

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

Analyte & Samples(s) Qualified:

Aniline
24J1565-01[PD-CP-00-100724], 24J1565-02[PD-CP-01-100724], B389149-BLK1, B389149-BS1, B389149-BSD1, S112255-CCV1

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V-06

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

Analyte & Samples(s) Qualified:

Caprolactam

24J1565-01[PD-CP-00-100724], S112255-CCV2

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:

4-Nitrophenol

S112255-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:

Pyridine

24J1565-01[PD-CP-00-100724], 24J1565-02[PD-CP-01-100724], B389149-BLK1, B389149-BS1, B389149-BSD1, S111864-ICV1, S112255-CCV1

V-35

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

Analyte & Samples(s) Qualified:

2,2'-oxybis(1-Chloropropane)

24J1565-01[PD-CP-00-100724], 24J1565-02[PD-CP-01-100724], B389149-BLK1, B389149-BS1, B389149-BSD1, S111864-ICV1, S112255-CCV1

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

Lisa A. Worthington
Technical Representative

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

Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: PD-CP-00-100724 | Sampled: 10/7/2024 14:00

Sample ID: 24J1565-01

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	10/14/24	10/15/24 1:51	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: PD-CP-00-100724 | Sampled: 10/7/2024 14:00

Sample ID: 24J1565-01

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	10/14/24	10/15/24 1:51	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 1:51	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.1	70-130		10/15/24 1:51
Toluene-d8	99.6	70-130		10/15/24 1:51
4-Bromofluorobenzene	102	70-130		10/15/24 1:51

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: PD-CP-00-100724 | Sampled: 10/7/2024 14:00

Sample ID: 24J1565-01

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	10/12/24	10/15/24 13:37	BGL
Atrazine	ND	18	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Benzaldehyde	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Biphenyl	ND	18	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Caprolactam	ND	9.1	µg/L	1	V-06	SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Acenaphthene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Acenaphthylene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Acetophenone	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Aniline	ND	18	µg/L	1	V-05	SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Anthracene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Benzo(a)anthracene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Benzo(a)pyrene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Benzo(b)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Benzo(g,h,i)perylene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Benzo(k)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Bis(2-chloroethoxy)methane	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Bis(2-chloroethyl)ether	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.1	µg/L	1	V-35	SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
4-Bromophenylphenylether	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Butylbenzylphthalate	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Carbazole	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
4-Chloroaniline	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
4-Chloro-3-methylphenol	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
2-Chloronaphthalene	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
2-Chlorophenol	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
4-Chlorophenylphenylether	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Chrysene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Dibenz(a,h)anthracene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Dibenzofuran	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Di-n-butylphthalate	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
3,3-Dichlorobenzidine	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
2,4-Dichlorophenol	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Diethylphthalate	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
2,4-Dimethylphenol	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Dimethylphthalate	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
4,6-Dinitro-2-methylphenol	ND	18	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
2,4-Dinitrophenol	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
2,4-Dinitrotoluene	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
2,6-Dinitrotoluene	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Di-n-octylphthalate	ND	9.1	µg/L	1	V-04	SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Fluorene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Hexachlorobenzene	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: PD-CP-00-100724 | Sampled: 10/7/2024 14:00

Sample ID: 24J1565-01

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	9.1	µg/L	1	L-04	SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Hexachlorocyclopentadiene	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Hexachloroethane	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Isophorone	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
1-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
2-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
2-Methylphenol	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
3/4-Methylphenol	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Naphthalene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
2-Nitroaniline	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
3-Nitroaniline	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
4-Nitroaniline	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Nitrobenzene	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
2-Nitrophenol	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
4-Nitrophenol	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
N-Nitrosodi-n-propylamine	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Pentachlorophenol	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Phenanthrene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Phenol	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Pyrene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
Pyridine	ND	18	µg/L	1	V-34	SW-846 8270E	10/12/24	10/15/24 13:37	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
2,4,5-Trichlorophenol	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL
2,4,6-Trichlorophenol	ND	9.1	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:37	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	49.4	15-110		10/15/24 13:37
Phenol-d6	31.4	15-110		10/15/24 13:37
Nitrobenzene-d5	71.8	30-130		10/15/24 13:37
2-Fluorobiphenyl	64.6	30-130		10/15/24 13:37
2,4,6-Tribromophenol	85.0	15-110		10/15/24 13:37
p-Terphenyl-d14	77.3	30-130		10/15/24 13:37

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: PD-CP-00-100724 | Sampled: 10/7/2024 14:00

Sample ID: 24J1565-01

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	15	0.19	µg/L	1		SW-846 8270E	10/11/24	10/15/24 17:34	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	24.2	15-110		10/15/24 17:34

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: PD-CP-00-100724 | Sampled: 10/7/2024 14:00

Sample ID: 24J1565-01

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)	26	3.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluoropentanoic acid (PFPeA)	20	1.9	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluorohexanoic acid (PFHxA)	24	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluoroheptanoic acid (PFHpA)	12	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluorooctanoic acid (PFOA)	35	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluorononanoic acid (PFNA)	26	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluorodecanoic acid (PFDA)	ND	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluorododecanoic acid (PFDoA)	ND	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluorobutanesulfonic acid (PFBS)	3.6	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluoropentanesulfonic acid (PFPeS)	2.7	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluorohexanesulfonic acid (PFHxS)	7.7	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluorooctanesulfonic acid (PFOS)	16	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
N-MeFOSAA (NMeFOSAA)	ND	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
N-EtFOSAA (NEtFOSAA)	2.1	0.93	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.3	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.3	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
9Cl-PF3ONS (F53B Minor)	ND	3.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
11Cl-PF3OUdS (F53B Major)	ND	3.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.3	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	46	ng/L	1	V-05	Draft Method 1633	11/4/24	11/6/24 6:28	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	46	ng/L	1	V-05	Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: PD-CP-00-100724 | Sampled: 10/7/2024 14:00

Sample ID: 24J1565-01

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	1.9	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:28	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	57.2	10-130		11/6/24 6:28
13C5-PFPeA	74.9	35-150		11/6/24 6:28
13C5-PFHxA	75.6	55-150		11/6/24 6:28
13C4-PFHpA	70.8	55-150		11/6/24 6:28
13C8-PFOA	79.0	60-140		11/6/24 6:28
13C9-PFNA	71.6	55-140		11/6/24 6:28
13C6-PFDA	80.8	50-140		11/6/24 6:28
13C7-PFUnA	73.8	30-140		11/6/24 6:28
13C2-PFDoA	72.3	10-150		11/6/24 6:28
13C2-PFTeDA	67.5	10-130		11/6/24 6:28
13C3-PFBS	90.7	55-150		11/6/24 6:28
13C3-PFHxS	80.4	55-150		11/6/24 6:28
13C8-PFOS	74.1	45-140		11/6/24 6:28
13C2-4:2FTS	160	60-200		11/6/24 6:28
13C2-6:2FTS	95.6	60-200		11/6/24 6:28
13C2-8:2FTS	80.7	50-200		11/6/24 6:28
13C8-PFOSA	66.3	30-130		11/6/24 6:28
D3-NMeFOSA	51.2	15-130		11/6/24 6:28
D5-NEtFOSA	53.1	10-130		11/6/24 6:28
D3-NMeFOSAA	82.0	45-200		11/6/24 6:28
D5-NEtFOSAA	73.7	10-200		11/6/24 6:28
D7-NMeFOSE	54.2	10-150		11/6/24 6:28
D9-NEtFOSE	55.1	10-150		11/6/24 6:28
13C3-HFPO-DA	86.8	25-160		11/6/24 6:28

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: PD-CP-00-100724 | Sampled: 10/7/2024 14:00

Sample ID: 24J1565-01

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	630	10	mg/L	1		Draft Method 1633	10/11/24	10/11/24 10:05	LL

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: PD-CP-01-100724 | Sampled: 10/7/2024 14:00

Sample ID: 24J1565-02

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	10/14/24	10/15/24 2:17	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: PD-CP-01-100724 | Sampled: 10/7/2024 14:00

Sample ID: 24J1565-02

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	10/14/24	10/15/24 2:17	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/15/24 2:17	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.1	70-130		10/15/24 2:17
Toluene-d8	98.8	70-130		10/15/24 2:17
4-Bromofluorobenzene	101	70-130		10/15/24 2:17

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: PD-CP-01-100724 | Sampled: 10/7/2024 14:00

Sample ID: 24J1565-02

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	18	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Atrazine	ND	18	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Benzaldehyde	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Biphenyl	ND	18	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Caprolactam	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Acenaphthene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Acenaphthylene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Acetophenone	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Aniline	ND	18	µg/L	1	V-05	SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Anthracene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Benzo(a)anthracene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Benzo(a)pyrene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Benzo(b)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Benzo(g,h,i)perylene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Benzo(k)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Bis(2-chloroethoxy)methane	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Bis(2-chloroethyl)ether	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
2,2'-oxybis(1-Chloropropane)	ND	9.0	µg/L	1	V-35	SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
4-Bromophenylphenylether	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Butylbenzylphthalate	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Carbazole	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
4-Chloroaniline	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
4-Chloro-3-methylphenol	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
2-Chloronaphthalene	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
2-Chlorophenol	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
4-Chlorophenylphenylether	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Chrysene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Dibenz(a,h)anthracene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Dibenzofuran	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Di-n-butylphthalate	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
3,3-Dichlorobenzidine	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
2,4-Dichlorophenol	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Diethylphthalate	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
2,4-Dimethylphenol	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Dimethylphthalate	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
4,6-Dinitro-2-methylphenol	ND	18	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
2,4-Dinitrophenol	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
2,4-Dinitrotoluene	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
2,6-Dinitrotoluene	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Di-n-octylphthalate	ND	9.0	µg/L	1	V-04	SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Fluorene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Hexachlorobenzene	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: PD-CP-01-100724 | Sampled: 10/7/2024 14:00

Sample ID: 24J1565-02

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	9.0	µg/L	1	L-04	SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Hexachlorocyclopentadiene	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Hexachloroethane	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Isophorone	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
1-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
2-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
2-Methylphenol	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
3/4-Methylphenol	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Naphthalene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
2-Nitroaniline	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
3-Nitroaniline	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
4-Nitroaniline	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Nitrobenzene	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
2-Nitrophenol	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
4-Nitrophenol	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
N-Nitrosodi-n-propylamine	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Pentachlorophenol	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Phenanthrene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Phenol	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Pyrene	ND	4.5	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
Pyridine	ND	18	µg/L	1	V-34	SW-846 8270E	10/12/24	10/15/24 13:58	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
2,4,5-Trichlorophenol	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL
2,4,6-Trichlorophenol	ND	9.0	µg/L	1		SW-846 8270E	10/12/24	10/15/24 13:58	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	50.6	15-110		10/15/24 13:58
Phenol-d6	33.5	15-110		10/15/24 13:58
Nitrobenzene-d5	66.9	30-130		10/15/24 13:58
2-Fluorobiphenyl	60.5	30-130		10/15/24 13:58
2,4,6-Tribromophenol	92.4	15-110		10/15/24 13:58
p-Terphenyl-d14	71.5	30-130		10/15/24 13:58

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: PD-CP-01-100724 | Sampled: 10/7/2024 14:00

Sample ID: 24J1565-02

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	15	0.19	µg/L	1		SW-846 8270E	10/11/24	10/15/24 17:55	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	22.9	15-110		10/15/24 17:55

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: PD-CP-01-100724 | Sampled: 10/7/2024 14:00

Sample ID: 24J1565-02

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)	24	3.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluoropentanoic acid (PFPeA)	20	1.8	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluorohexanoic acid (PFHxA)	24	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluoroheptanoic acid (PFHpA)	12	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluorooctanoic acid (PFOA)	36	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluorononanoic acid (PFNA)	25	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluorodecanoic acid (PFDA)	ND	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluorododecanoic acid (PFDoA)	ND	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluorobutanesulfonic acid (PFBS)	4.2	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluoropentanesulfonic acid (PFPeS)	2.8	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluorohexanesulfonic acid (PFHxS)	7.8	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluorooctanesulfonic acid (PFOS)	14	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
N-MeFOSAA (NMeFOSAA)	ND	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
N-EtFOSAA (NEtFOSAA)	2.1	0.92	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.2	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.2	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
9Cl-PF3ONS (F53B Minor)	ND	3.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
11Cl-PF3OUdS (F53B Major)	ND	3.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.2	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	46	ng/L	1	V-05	Draft Method 1633	11/4/24	11/6/24 6:43	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	46	ng/L	1	V-05	Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: PD-CP-01-100724 | Sampled: 10/7/2024 14:00

Sample ID: 24J1565-02

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	1.8	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:43	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	72.6	10-130		11/6/24 6:43
13C5-PFPeA	72.7	35-150		11/6/24 6:43
13C5-PFHxA	76.1	55-150		11/6/24 6:43
13C4-PFHpA	70.4	55-150		11/6/24 6:43
13C8-PFOA	78.7	60-140		11/6/24 6:43
13C9-PFNA	77.9	55-140		11/6/24 6:43
13C6-PFDA	76.8	50-140		11/6/24 6:43
13C7-PFUnA	65.4	30-140		11/6/24 6:43
13C2-PFDoA	62.7	10-150		11/6/24 6:43
13C2-PFTeDA	59.4	10-130		11/6/24 6:43
13C3-PFBS	91.9	55-150		11/6/24 6:43
13C3-PFHxS	80.1	55-150		11/6/24 6:43
13C8-PFOS	76.5	45-140		11/6/24 6:43
13C2-4:2FTS	174	60-200		11/6/24 6:43
13C2-6:2FTS	112	60-200		11/6/24 6:43
13C2-8:2FTS	75.7	50-200		11/6/24 6:43
13C8-PFOSA	65.6	30-130		11/6/24 6:43
D3-NMeFOSA	51.3	15-130		11/6/24 6:43
D5-NEtFOSA	53.3	10-130		11/6/24 6:43
D3-NMeFOSAA	75.8	45-200		11/6/24 6:43
D5-NEtFOSAA	73.6	10-200		11/6/24 6:43
D7-NMeFOSE	52.8	10-150		11/6/24 6:43
D9-NEtFOSE	54.0	10-150		11/6/24 6:43
13C3-HFPO-DA	81.1	25-160		11/6/24 6:43

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: PD-CP-01-100724 | Sampled: 10/7/2024 14:00

Sample ID: 24J1565-02

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	110	10	mg/L	1		Draft Method 1633	10/11/24	10/11/24 10:05	LL

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: ASF-CP-00-100724 | Sampled: 10/7/2024 13:30

Sample ID: 24J1565-03

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	16	0.19	µg/L	1		SW-846 8270E	10/11/24	10/15/24 18:16	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	23.4	15-110		10/15/24 18:16

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: ASF-CP-00-100724 | Sampled: 10/7/2024 13:30

Sample ID: 24J1565-03

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)	24	3.5	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluoropentanoic acid (PFPeA)	21	1.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluorohexanoic acid (PFHxA)	25	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluoroheptanoic acid (PFHpA)	13	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluorooctanoic acid (PFOA)	37	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluorononanoic acid (PFNA)	26	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluorodecanoic acid (PFDA)	ND	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluorododecanoic acid (PFDoA)	ND	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluorobutanesulfonic acid (PFBS)	3.3	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluoropentanesulfonic acid (PFPeS)	2.7	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluorohexanesulfonic acid (PFHxS)	7.9	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluorooctanesulfonic acid (PFOS)	16	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.5	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.5	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.5	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
N-MeFOSAA (NMeFOSAA)	ND	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
N-EtFOSAA (NEtFOSAA)	2.0	0.86	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	8.6	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	8.6	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.5	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.5	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
9Cl-PF3ONS (F53B Minor)	ND	3.5	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
11Cl-PF3OUdS (F53B Major)	ND	3.5	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.6	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	43	ng/L	1	V-05	Draft Method 1633	11/4/24	11/6/24 6:59	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	43	ng/L	1	V-05	Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: ASF-CP-00-100724 | Sampled: 10/7/2024 13:30

Sample ID: 24J1565-03

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	1.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7	ng/L	1		Draft Method 1633	11/4/24	11/6/24 6:59	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	87.4	10-130		11/6/24 6:59
13C5-PFPeA	69.9	35-150		11/6/24 6:59
13C5-PFHxA	73.0	55-150		11/6/24 6:59
13C4-PFHpA	65.2	55-150		11/6/24 6:59
13C8-PFOA	76.0	60-140		11/6/24 6:59
13C9-PFNA	67.5	55-140		11/6/24 6:59
13C6-PFDA	67.6	50-140		11/6/24 6:59
13C7-PFUnA	63.4	30-140		11/6/24 6:59
13C2-PFDoA	60.7	10-150		11/6/24 6:59
13C2-PFTeDA	55.4	10-130		11/6/24 6:59
13C3-PFBS	90.3	55-150		11/6/24 6:59
13C3-PFHxS	76.0	55-150		11/6/24 6:59
13C8-PFOS	67.5	45-140		11/6/24 6:59
13C2-4:2FTS	168	60-200		11/6/24 6:59
13C2-6:2FTS	104	60-200		11/6/24 6:59
13C2-8:2FTS	75.1	50-200		11/6/24 6:59
13C8-PFOSA	55.2	30-130		11/6/24 6:59
D3-NMeFOSA	42.5	15-130		11/6/24 6:59
D5-NEtFOSA	46.2	10-130		11/6/24 6:59
D3-NMeFOSAA	75.1	45-200		11/6/24 6:59
D5-NEtFOSAA	64.4	10-200		11/6/24 6:59
D7-NMeFOSE	49.3	10-150		11/6/24 6:59
D9-NEtFOSE	48.0	10-150		11/6/24 6:59
13C3-HFPO-DA	78.0	25-160		11/6/24 6:59

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: ASF-CP-00-100724 | Sampled: 10/7/2024 13:30

Sample ID: 24J1565-03

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	30	10	mg/L	1		Draft Method 1633	10/11/24	10/11/24 10:05	LL

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: ASF-CP-01-100724 | Sampled: 10/7/2024 13:30

Sample ID: 24J1565-04

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	14	0.19	µg/L	1		SW-846 8270E	10/11/24	10/18/24 13:17	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	28.1	15-110		10/18/24 13:17

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: ASF-CP-01-100724 | Sampled: 10/7/2024 13:30

Sample ID: 24J1565-04

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)	24	3.5	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluoropentanoic acid (PFPeA)	21	1.8	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluorohexanoic acid (PFHxA)	25	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluoroheptanoic acid (PFHpA)	12	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluorooctanoic acid (PFOA)	34	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluorononanoic acid (PFNA)	26	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluorodecanoic acid (PFDA)	ND	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluoroundecanoic acid (PFUnA)	ND	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluorododecanoic acid (PFDoA)	ND	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluorotridecanoic acid (PFTrDA)	ND	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluorotetradecanoic acid (PFTeDA)	ND	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluorobutanesulfonic acid (PFBS)	3.6	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluoropentanesulfonic acid (PFPeS)	3.0	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluorohexanesulfonic acid (PFHxS)	8.4	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluorooctanesulfonic acid (PFOS)	15	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluorononanesulfonic acid (PFNS)	ND	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluorodecanesulfonic acid (PFDS)	ND	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluorododecanesulfonic acid (PFDoS)	ND	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.5	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.5	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.5	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluorooctanesulfonamide (PFOSA)	ND	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
N-MeFOSAA (NMeFOSAA)	ND	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
N-EtFOSAA (NEtFOSAA)	1.9	0.89	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	8.9	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	8.9	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.5	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.5	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
9Cl-PF3ONS (F53B Minor)	ND	3.5	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
11Cl-PF3OUdS (F53B Major)	ND	3.5	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.9	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	44	ng/L	1	V-05	Draft Method 1633	11/4/24	11/6/24 7:15	AB
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	44	ng/L	1	V-05	Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: ASF-CP-01-100724 | Sampled: 10/7/2024 13:30

Sample ID: 24J1565-04

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	1.8	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	ng/L	1		Draft Method 1633	11/4/24	11/6/24 7:15	AB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	87.0	10-130		11/6/24 7:15
13C5-PFPeA	70.6	35-150		11/6/24 7:15
13C5-PFHxA	71.6	55-150		11/6/24 7:15
13C4-PFHpA	66.9	55-150		11/6/24 7:15
13C8-PFOA	72.0	60-140		11/6/24 7:15
13C9-PFNA	68.9	55-140		11/6/24 7:15
13C6-PFDA	67.6	50-140		11/6/24 7:15
13C7-PFUnA	63.5	30-140		11/6/24 7:15
13C2-PFDoA	60.7	10-150		11/6/24 7:15
13C2-PFTeDA	56.2	10-130		11/6/24 7:15
13C3-PFBS	90.7	55-150		11/6/24 7:15
13C3-PFHxS	74.5	55-150		11/6/24 7:15
13C8-PFOS	70.5	45-140		11/6/24 7:15
13C2-4:2FTS	170	60-200		11/6/24 7:15
13C2-6:2FTS	105	60-200		11/6/24 7:15
13C2-8:2FTS	73.9	50-200		11/6/24 7:15
13C8-PFOSA	59.2	30-130		11/6/24 7:15
D3-NMeFOSA	52.0	15-130		11/6/24 7:15
D5-NEtFOSA	54.6	10-130		11/6/24 7:15
D3-NMeFOSAA	73.8	45-200		11/6/24 7:15
D5-NEtFOSAA	68.2	10-200		11/6/24 7:15
D7-NMeFOSE	55.4	10-150		11/6/24 7:15
D9-NEtFOSE	53.2	10-150		11/6/24 7:15
13C3-HFPO-DA	80.0	25-160		11/6/24 7:15

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: ASF-CP-01-100724 | Sampled: 10/7/2024 13:30

Sample ID: 24J1565-04

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	10/11/24	10/11/24 10:05	LL

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: TB-100724 | Sampled: 10/7/2024 09:00

Sample ID: 24J1565-05

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	10/14/24	10/14/24 21:36	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Bromoform	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Chloromethane	ND	2.0	µg/L	1	V-05	SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24J1565

Date Received: 10/9/2024

Field Sample #: TB-100724 | Sampled: 10/7/2024 09:00

Sample ID: 24J1565-05

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	10/14/24	10/14/24 21:36	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	10/14/24	10/14/24 21:36	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.3	70-130		10/14/24 21:36
Toluene-d8	101	70-130		10/14/24 21:36
4-Bromofluorobenzene	98.3	70-130		10/14/24 21:36

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Sample Extraction Data

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
24J1565-01 [PD-CP-00-100724]	B389019	50.0	10/11/24
24J1565-02 [PD-CP-01-100724]	B389019	50.0	10/11/24
24J1565-03 [ASF-CP-00-100724]	B389019	50.0	10/11/24
24J1565-04 [ASF-CP-01-100724]	B389019	50.0	10/11/24

Prep Method:Draft Method 1633 Analytical Method:Draft Method 1633 Leachates were extracted on 10/11/2024 per NO PREP in Batch B389019

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J1565-01 [PD-CP-00-100724]	B390657	539	5.00	11/04/24
24J1565-02 [PD-CP-01-100724]	B390657	541	5.00	11/04/24
24J1565-03 [ASF-CP-00-100724]	B390657	578	5.00	11/04/24
24J1565-04 [ASF-CP-01-100724]	B390657	564	5.00	11/04/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J1565-01 [PD-CP-00-100724]	B389185	5	5.00	10/14/24
24J1565-02 [PD-CP-01-100724]	B389185	5	5.00	10/14/24
24J1565-05 [TB-100724]	B389185	5	5.00	10/14/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J1565-01 [PD-CP-00-100724]	B389100	1040	1.00	10/11/24
24J1565-02 [PD-CP-01-100724]	B389100	1040	1.00	10/11/24
24J1565-03 [ASF-CP-00-100724]	B389100	1040	1.00	10/11/24
24J1565-04 [ASF-CP-01-100724]	B389100	1040	1.00	10/11/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24J1565-01 [PD-CP-00-100724]	B389149	110	1.00	10/12/24
24J1565-02 [PD-CP-01-100724]	B389149	111	1.00	10/12/24

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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 B389185 - SW-846 5030B										
Blank (B389185-BLK1)				Prepared & Analyzed: 10/14/24						
Acetone	ND	50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							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 B389185 - SW-846 5030B											
Blank (B389185-BLK1)				Prepared & Analyzed: 10/14/24							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*24.4*		µg/L	25.00		97.8	70-130				
Surrogate: Toluene-d8	*24.9*		µg/L	25.00		99.7	70-130				
Surrogate: 4-Bromofluorobenzene	*24.6*		µg/L	25.00		98.3	70-130				
LCS (B389185-BS1)				Prepared & Analyzed: 10/14/24							
Acetone	97.7	50	µg/L	100.0		97.7	70-160				†
Benzene	10.7	1.0	µg/L	10.00		107	70-130				
Bromochloromethane	11.0	1.0	µg/L	10.00		110	70-130				
Bromodichloromethane	10.9	0.50	µg/L	10.00		109	70-130				
Bromoform	10.5	1.0	µg/L	10.00		105	70-130				
Bromomethane	10.2	2.0	µg/L	10.00		102	40-160				†
2-Butanone (MEK)	86.3	20	µg/L	100.0		86.3	40-160				†
n-Butylbenzene	10.3	1.0	µg/L	10.00		103	70-130				
sec-Butylbenzene	10.3	1.0	µg/L	10.00		103	70-130				
tert-Butylbenzene	10.4	1.0	µg/L	10.00		104	70-130				
Carbon Disulfide	111	5.0	µg/L	100.0		111	70-130				
Carbon Tetrachloride	10.9	5.0	µg/L	10.00		109	70-130				
Chlorobenzene	11.0	1.0	µg/L	10.00		110	70-130				
Chlorodibromomethane	11.2	0.50	µg/L	10.00		112	70-130				
Chloroethane	9.11	2.0	µg/L	10.00		91.1	70-130				
Chloroform	10.2	2.0	µg/L	10.00		102	70-130				
Chloromethane	8.90	2.0	µg/L	10.00		89.0	40-160			V-05	†
Cyclohexane	10.0	5.0	µg/L	10.00		100	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	9.54	5.0	µg/L	10.00		95.4	70-130				
1,2-Dibromoethane (EDB)	11.1	0.50	µg/L	10.00		111	70-130				
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.00		108	70-130				
1,3-Dichlorobenzene	10.7	1.0	µg/L	10.00		107	70-130				
1,4-Dichlorobenzene	10.7	1.0	µg/L	10.00		107	70-130				
Dichlorodifluoromethane (Freon 12)	9.96	2.0	µg/L	10.00		99.6	40-160				†
1,1-Dichloroethane	10.9	1.0	µg/L	10.00		109	70-130				
1,2-Dichloroethane	9.55	1.0	µg/L	10.00		95.5	70-130				
1,1-Dichloroethylene	10.6	1.0	µg/L	10.00		106	70-130				
cis-1,2-Dichloroethylene	10.7	1.0	µg/L	10.00		107	70-130				
trans-1,2-Dichloroethylene	10.5	1.0	µg/L	10.00		105	70-130				
1,2-Dichloropropane	10.3	1.0	µg/L	10.00		103	70-130				
cis-1,3-Dichloropropene	10.8	0.50	µg/L	10.00		108	70-130				
trans-1,3-Dichloropropene	10.6	0.50	µg/L	10.00		106	70-130				
Ethylbenzene	10.6	1.0	µg/L	10.00		106	70-130				
2-Hexanone (MBK)	106	10	µg/L	100.0		106	70-160				†
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.00		108	70-130				
p-Isopropyltoluene (p-Cymene)	10.5	1.0	µg/L	10.00		105	70-130				
Methyl Acetate	9.22	1.0	µg/L	10.00		92.2	70-130				
Methyl tert-Butyl Ether (MTBE)	10.4	1.0	µg/L	10.00		104	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 B389185 - SW-846 5030B											
LCS (B389185-BS1)				Prepared & Analyzed: 10/14/24							
Methyl Cyclohexane	9.87	1.0	µg/L	10.00		98.7	70-130				
Methylene Chloride	10.5	5.0	µg/L	10.00		105	70-130				
4-Methyl-2-pentanone (MIBK)	105	10	µg/L	100.0		105	70-160				†
Naphthalene	9.90	2.0	µg/L	10.00		99.0	40-130				†
n-Propylbenzene	10.7	1.0	µg/L	10.00		107	70-130				
Styrene	11.0	1.0	µg/L	10.00		110	70-130				
1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.00		106	70-130				
Tetrachloroethylene	10.8	1.0	µg/L	10.00		108	70-130				
Toluene	11.1	1.0	µg/L	10.00		111	70-130				
1,2,3-Trichlorobenzene	10.7	5.0	µg/L	10.00		107	70-130				
1,2,4-Trichlorobenzene	10.6	1.0	µg/L	10.00		106	70-130				
1,1,1-Trichloroethane	11.0	1.0	µg/L	10.00		110	70-130				
1,1,2-Trichloroethane	10.6	1.0	µg/L	10.00		106	70-130				
Trichloroethylene	10.9	1.0	µg/L	10.00		109	70-130				
Trichlorofluoromethane (Freon 11)	10.6	2.0	µg/L	10.00		106	70-130				
1,2,3-Trichloropropane	10.4	2.0	µg/L	10.00		104	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2	1.0	µg/L	10.00		102	70-130				
1,2,4-Trimethylbenzene	10.5	1.0	µg/L	10.00		105	70-130				
1,3,5-Trimethylbenzene	10.8	1.0	µg/L	10.00		108	70-130				
Vinyl Chloride	10.1	2.0	µg/L	10.00		101	40-160				†
m+p Xylene	21.8	2.0	µg/L	20.00		109	70-130				
o-Xylene	11.1	1.0	µg/L	10.00		111	70-130				
Xylenes (total)	32.9	1.0	µg/L	30.00		110	0-200				
Surrogate: 1,2-Dichloroethane-d4	*24.9*		µg/L	25.00		99.6	70-130				
Surrogate: Toluene-d8	*24.6*		µg/L	25.00		98.6	70-130				
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.00		101	70-130				
LCS Dup (B389185-BSD1)				Prepared & Analyzed: 10/14/24							
Acetone	96.9	50	µg/L	100.0		96.9	70-160	0.843	25		†
Benzene	10.9	1.0	µg/L	10.00		109	70-130	1.57	25		
Bromochloromethane	11.0	1.0	µg/L	10.00		110	70-130	0.0908	25		
Bromodichloromethane	10.8	0.50	µg/L	10.00		108	70-130	0.737	25		
Bromoform	10.9	1.0	µg/L	10.00		109	70-130	3.65	25		
Bromomethane	10.2	2.0	µg/L	10.00		102	40-160	0.196	25		†
2-Butanone (MEK)	87.2	20	µg/L	100.0		87.2	40-160	1.06	25		†
n-Butylbenzene	10.1	1.0	µg/L	10.00		101	70-130	1.97	25		
sec-Butylbenzene	10.2	1.0	µg/L	10.00		102	70-130	1.08	25		
tert-Butylbenzene	10.2	1.0	µg/L	10.00		102	70-130	1.85	25		
Carbon Disulfide	112	5.0	µg/L	100.0		112	70-130	0.323	25		
Carbon Tetrachloride	11.0	5.0	µg/L	10.00		110	70-130	1.01	25		
Chlorobenzene	10.8	1.0	µg/L	10.00		108	70-130	2.48	25		
Chlorodibromomethane	11.2	0.50	µg/L	10.00		112	70-130	0.269	25		
Chloroethane	9.06	2.0	µg/L	10.00		90.6	70-130	0.550	25		
Chloroform	10.2	2.0	µg/L	10.00		102	70-130	0.294	25		
Chloromethane	8.93	2.0	µg/L	10.00		89.3	40-160	0.337	25	V-05	†
Cyclohexane	9.44	5.0	µg/L	10.00		94.4	70-130	5.96	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.08	5.0	µg/L	10.00		90.8	70-130	4.94	25		
1,2-Dibromoethane (EDB)	11.4	0.50	µg/L	10.00		114	70-130	2.85	25		
1,2-Dichlorobenzene	10.9	1.0	µg/L	10.00		109	70-130	1.01	25		
1,3-Dichlorobenzene	10.4	1.0	µg/L	10.00		104	70-130	2.75	25		
1,4-Dichlorobenzene	10.6	1.0	µg/L	10.00		106	70-130	1.03	25		
Dichlorodifluoromethane (Freon 12)	9.39	2.0	µg/L	10.00		93.9	40-160	5.89	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 B389185 - SW-846 5030B										
LCS Dup (B389185-BSD1)				Prepared & Analyzed: 10/14/24						
1,1-Dichloroethane	10.8	1.0	µg/L	10.00		108	70-130	0.368	25	
1,2-Dichloroethane	9.73	1.0	µg/L	10.00		97.3	70-130	1.87	25	
1,1-Dichloroethylene	10.7	1.0	µg/L	10.00		107	70-130	1.03	25	
cis-1,2-Dichloroethylene	10.7	1.0	µg/L	10.00		107	70-130	0.0932	25	
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.00		106	70-130	1.04	25	
1,2-Dichloropropane	10.5	1.0	µg/L	10.00		105	70-130	1.54	25	
cis-1,3-Dichloropropene	10.7	0.50	µg/L	10.00		107	70-130	0.745	25	
trans-1,3-Dichloropropene	11.0	0.50	µg/L	10.00		110	70-130	3.43	25	
Ethylbenzene	10.7	1.0	µg/L	10.00		107	70-130	0.188	25	
2-Hexanone (MBK)	106	10	µg/L	100.0		106	70-160	0.341	25	†
Isopropylbenzene (Cumene)	10.5	1.0	µg/L	10.00		105	70-130	2.44	25	
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.00		102	70-130	3.20	25	
Methyl Acetate	9.34	1.0	µg/L	10.00		93.4	70-130	1.29	25	
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	µg/L	10.00		102	70-130	1.65	25	
Methyl Cyclohexane	9.31	1.0	µg/L	10.00		93.1	70-130	5.84	25	
Methylene Chloride	10.7	5.0	µg/L	10.00		107	70-130	2.64	25	
4-Methyl-2-pentanone (MIBK)	106	10	µg/L	100.0		106	70-160	0.114	25	†
Naphthalene	9.81	2.0	µg/L	10.00		98.1	40-130	0.913	25	†
n-Propylbenzene	10.7	1.0	µg/L	10.00		107	70-130	0.560	25	
Styrene	11.1	1.0	µg/L	10.00		111	70-130	0.271	25	
1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.00		106	70-130	0.189	25	
Tetrachloroethylene	11.0	1.0	µg/L	10.00		110	70-130	2.30	25	
Toluene	10.8	1.0	µg/L	10.00		108	70-130	2.37	25	
1,2,3-Trichlorobenzene	10.2	5.0	µg/L	10.00		102	70-130	5.08	25	
1,2,4-Trichlorobenzene	10.3	1.0	µg/L	10.00		103	70-130	2.39	25	
1,1,1-Trichloroethane	10.8	1.0	µg/L	10.00		108	70-130	1.10	25	
1,1,2-Trichloroethane	10.6	1.0	µg/L	10.00		106	70-130	0.284	25	
Trichloroethylene	10.8	1.0	µg/L	10.00		108	70-130	0.552	25	
Trichlorofluoromethane (Freon 11)	10.2	2.0	µg/L	10.00		102	70-130	3.85	25	
1,2,3-Trichloropropane	10.2	2.0	µg/L	10.00		102	70-130	2.53	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.78	1.0	µg/L	10.00		97.8	70-130	4.20	25	
1,2,4-Trimethylbenzene	10.4	1.0	µg/L	10.00		104	70-130	0.575	25	
1,3,5-Trimethylbenzene	10.7	1.0	µg/L	10.00		107	70-130	0.838	25	
Vinyl Chloride	9.93	2.0	µg/L	10.00		99.3	40-160	1.30	25	†
m+p Xylene	21.5	2.0	µg/L	20.00		108	70-130	1.20	25	
o-Xylene	10.9	1.0	µg/L	10.00		109	70-130	2.00	25	
Xylenes (total)	32.4	1.0	µg/L	30.00		108	0-200	1.47		
Surrogate: 1,2-Dichloroethane-d4	*25.0*		µg/L	25.00		100	70-130			
Surrogate: Toluene-d8	*24.8*		µg/L	25.00		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	*24.4*		µg/L	25.00		97.4	70-130			
Matrix Spike (B389185-MS1)		**Source: 24J1565-01**		Prepared: 10/14/24 Analyzed: 10/15/24						
Acetone	101	50	µg/L	100.0	ND	101	70-130			
Benzene	10.3	1.0	µg/L	10.00	ND	103	70-130			
Bromochloromethane	10.4	1.0	µg/L	10.00	ND	104	70-130			
Bromodichloromethane	9.86	0.50	µg/L	10.00	ND	98.6	70-130			
Bromoform	9.48	1.0	µg/L	10.00	ND	94.8	70-130			
Bromomethane	8.70	2.0	µg/L	10.00	ND	87.0	70-130			
2-Butanone (MEK)	94.4	20	µg/L	100.0	ND	94.4	70-130			
n-Butylbenzene	9.53	1.0	µg/L	10.00	ND	95.3	70-130			
sec-Butylbenzene	9.85	1.0	µg/L	10.00	ND	98.5	70-130			
tert-Butylbenzene	9.70	1.0	µg/L	10.00	ND	97.0	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 B389185 - SW-846 5030B										
Matrix Spike (B389185-MS1)	**Source: 24J1565-01**			Prepared: 10/14/24 Analyzed: 10/15/24						
Carbon Disulfide	99.3	5.0	µg/L	100.0	ND	99.3	70-130			
Carbon Tetrachloride	10.8	5.0	µg/L	10.00	ND	108	70-130			
Chlorobenzene	10.0	1.0	µg/L	10.00	ND	100	70-130			
Chlorodibromomethane	10.1	0.50	µg/L	10.00	ND	101	70-130			
Chloroethane	8.50	2.0	µg/L	10.00	ND	85.0	70-130			
Chloroform	9.46	2.0	µg/L	10.00	ND	94.6	70-130			
Chloromethane	9.08	2.0	µg/L	10.00	ND	90.8	70-130			V-05
Cyclohexane	10.0	5.0	µg/L	10.00	ND	100	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.08	5.0	µg/L	10.00	ND	80.8	70-130			
1,2-Dibromoethane (EDB)	10.0	0.50	µg/L	10.00	ND	100	70-130			
1,2-Dichlorobenzene	10.0	1.0	µg/L	10.00	ND	100	70-130			
1,3-Dichlorobenzene	9.73	1.0	µg/L	10.00	ND	97.3	70-130			
1,4-Dichlorobenzene	9.63	1.0	µg/L	10.00	ND	96.3	70-130			
Dichlorodifluoromethane (Freon 12)	9.12	2.0	µg/L	10.00	ND	91.2	70-130			
1,1-Dichloroethane	10.4	1.0	µg/L	10.00	ND	104	70-130			
1,2-Dichloroethane	9.11	1.0	µg/L	10.00	ND	91.1	70-130			
1,1-Dichloroethylene	10.5	1.0	µg/L	10.00	ND	105	70-130			
cis-1,2-Dichloroethylene	10.1	1.0	µg/L	10.00	ND	101	70-130			
trans-1,2-Dichloroethylene	10.3	1.0	µg/L	10.00	ND	103	70-130			
1,2-Dichloropropane	9.83	1.0	µg/L	10.00	ND	98.3	70-130			
cis-1,3-Dichloropropene	9.72	0.50	µg/L	10.00	ND	97.2	70-130			
trans-1,3-Dichloropropene	9.35	0.50	µg/L	10.00	ND	93.5	70-130			
Ethylbenzene	10.3	1.0	µg/L	10.00	ND	103	70-130			
2-Hexanone (MBK)	110	10	µg/L	100.0	ND	110	70-130			
Isopropylbenzene (Cumene)	10.3	1.0	µg/L	10.00	ND	103	70-130			
p-Isopropyltoluene (p-Cymene)	9.45	1.0	µg/L	10.00	ND	94.5	70-130			
Methyl Acetate	8.09	1.0	µg/L	10.00	ND	80.9	70-130			
Methyl tert-Butyl Ether (MTBE)	9.30	1.0	µg/L	10.00	ND	93.0	70-130			
Methyl Cyclohexane	9.93	1.0	µg/L	10.00	ND	99.3	70-130			
Methylene Chloride	10.0	5.0	µg/L	10.00	ND	100	70-130			
4-Methyl-2-pentanone (MIBK)	112	10	µg/L	100.0	ND	112	70-130			
Naphthalene	9.06	2.0	µg/L	10.00	0.410	86.5	70-130			
n-Propylbenzene	10.2	1.0	µg/L	10.00	ND	102	70-130			
Styrene	10.1	1.0	µg/L	10.00	ND	101	70-130			
1,1,2,2-Tetrachloroethane	9.58	0.50	µg/L	10.00	ND	95.8	70-130			
Tetrachloroethylene	10.4	1.0	µg/L	10.00	ND	104	70-130			
Toluene	10.6	1.0	µg/L	10.00	ND	106	70-130			
1,2,3-Trichlorobenzene	9.44	5.0	µg/L	10.00	ND	94.4	70-130			
1,2,4-Trichlorobenzene	9.26	1.0	µg/L	10.00	ND	92.6	70-130			
1,1,1-Trichloroethane	10.6	1.0	µg/L	10.00	ND	106	70-130			
1,1,2-Trichloroethane	10.2	1.0	µg/L	10.00	ND	102	70-130			
Trichloroethylene	10.8	1.0	µg/L	10.00	ND	108	70-130			
Trichlorofluoromethane (Freon 11)	10.5	2.0	µg/L	10.00	ND	105	70-130			
1,2,3-Trichloropropane	9.54	2.0	µg/L	10.00	ND	95.4	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4	1.0	µg/L	10.00	ND	104	70-130			
1,2,4-Trimethylbenzene	9.69	1.0	µg/L	10.00	ND	96.9	70-130			
1,3,5-Trimethylbenzene	10.1	1.0	µg/L	10.00	ND	101	70-130			
Vinyl Chloride	9.78	2.0	µg/L	10.00	ND	97.8	70-130			
m+p Xylene	20.7	2.0	µg/L	20.00	ND	104	70-130			
o-Xylene	10.3	1.0	µg/L	10.00	ND	103	70-130			
Xylenes (total)	31.0	1.0	µg/L	30.00	ND	103	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 B389185 - SW-846 5030B										
Matrix Spike (B389185-MS1)	**Source: 24J1565-01**			Prepared: 10/14/24 Analyzed: 10/15/24						
Surrogate: 1,2-Dichloroethane-d4	*23.6*		µg/L	25.00		94.6	70-130			
Surrogate: Toluene-d8	*24.9*		µg/L	25.00		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	*25.2*		µg/L	25.00		101	70-130			
Matrix Spike Dup (B389185-MSD1)	**Source: 24J1565-01**			Prepared: 10/14/24 Analyzed: 10/15/24						
Acetone	102	50	µg/L	100.0	ND	102	70-130	0.612	30	
Benzene	10.5	1.0	µg/L	10.00	ND	105	70-130	2.02	30	
Bromochloromethane	10.2	1.0	µg/L	10.00	ND	102	70-130	1.65	30	
Bromodichloromethane	10.1	0.50	µg/L	10.00	ND	101	70-130	2.31	30	
Bromoform	9.58	1.0	µg/L	10.00	ND	95.8	70-130	1.05	30	
Bromomethane	9.22	2.0	µg/L	10.00	ND	92.2	70-130	5.80	30	
2-Butanone (MEK)	92.6	20	µg/L	100.0	ND	92.6	70-130	1.88	30	
n-Butylbenzene	9.93	1.0	µg/L	10.00	ND	99.3	70-130	4.11	30	
sec-Butylbenzene	9.83	1.0	µg/L	10.00	ND	98.3	70-130	0.203	30	
tert-Butylbenzene	10.1	1.0	µg/L	10.00	ND	101	70-130	3.64	30	
Carbon Disulfide	102	5.0	µg/L	100.0	ND	102	70-130	2.42	30	
Carbon Tetrachloride	11.1	5.0	µg/L	10.00	ND	111	70-130	2.55	30	
Chlorobenzene	10.6	1.0	µg/L	10.00	ND	106	70-130	5.54	30	
Chlorodibromomethane	9.77	0.50	µg/L	10.00	ND	97.7	70-130	3.52	30	
Chloroethane	8.73	2.0	µg/L	10.00	ND	87.3	70-130	2.67	30	
Chloroform	9.64	2.0	µg/L	10.00	ND	96.4	70-130	1.88	30	
Chloromethane	8.56	2.0	µg/L	10.00	ND	85.6	70-130	5.90	30	V-05
Cyclohexane	10.2	5.0	µg/L	10.00	ND	102	70-130	1.59	30	
1,2-Dibromo-3-chloropropane (DBCP)	8.42	5.0	µg/L	10.00	ND	84.2	70-130	4.12	30	
1,2-Dibromoethane (EDB)	9.85	0.50	µg/L	10.00	ND	98.5	70-130	1.71	30	
1,2-Dichlorobenzene	9.89	1.0	µg/L	10.00	ND	98.9	70-130	1.60	30	
1,3-Dichlorobenzene	9.63	1.0	µg/L	10.00	ND	96.3	70-130	1.03	30	
1,4-Dichlorobenzene	9.70	1.0	µg/L	10.00	ND	97.0	70-130	0.724	30	
Dichlorodifluoromethane (Freon 12)	9.51	2.0	µg/L	10.00	ND	95.1	70-130	4.19	30	
1,1-Dichloroethane	10.6	1.0	µg/L	10.00	ND	106	70-130	2.38	30	
1,2-Dichloroethane	9.09	1.0	µg/L	10.00	ND	90.9	70-130	0.220	30	
1,1-Dichloroethylene	10.7	1.0	µg/L	10.00	ND	107	70-130	2.07	30	
cis-1,2-Dichloroethylene	10.4	1.0	µg/L	10.00	ND	104	70-130	2.92	30	
trans-1,2-Dichloroethylene	10.6	1.0	µg/L	10.00	ND	106	70-130	2.39	30	
1,2-Dichloropropane	9.63	1.0	µg/L	10.00	ND	96.3	70-130	2.06	30	
cis-1,3-Dichloropropene	9.22	0.50	µg/L	10.00	ND	92.2	70-130	5.28	30	
trans-1,3-Dichloropropene	8.92	0.50	µg/L	10.00	ND	89.2	70-130	4.71	30	
Ethylbenzene	10.6	1.0	µg/L	10.00	ND	106	70-130	3.34	30	
2-Hexanone (MBK)	106	10	µg/L	100.0	ND	106	70-130	3.63	30	
Isopropylbenzene (Cumene)	10.4	1.0	µg/L	10.00	ND	104	70-130	1.07	30	
p-Isopropyltoluene (p-Cymene)	9.84	1.0	µg/L	10.00	ND	98.4	70-130	4.04	30	
Methyl Acetate	8.28	1.0	µg/L	10.00	ND	82.8	70-130	2.32	30	
Methyl tert-Butyl Ether (MTBE)	9.49	1.0	µg/L	10.00	ND	94.9	70-130	2.02	30	
Methyl Cyclohexane	9.87	1.0	µg/L	10.00	ND	98.7	70-130	0.606	30	
Methylene Chloride	9.96	5.0	µg/L	10.00	ND	99.6	70-130	0.800	30	
4-Methyl-2-pentanone (MIBK)	109	10	µg/L	100.0	ND	109	70-130	3.11	30	
Naphthalene	9.48	2.0	µg/L	10.00	0.410	90.7	70-130	4.53	30	
n-Propylbenzene	10.6	1.0	µg/L	10.00	ND	106	70-130	3.18	30	
Styrene	10.5	1.0	µg/L	10.00	ND	105	70-130	3.11	30	
1,1,2,2-Tetrachloroethane	9.93	0.50	µg/L	10.00	ND	99.3	70-130	3.59	30	
Tetrachloroethylene	10.8	1.0	µg/L	10.00	ND	108	70-130	3.50	30	
Toluene	10.2	1.0	µg/L	10.00	ND	102	70-130	3.67	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 B389185 - SW-846 5030B										
Matrix Spike Dup (B389185-MSD1)	**Source: 24J1565-01**			Prepared: 10/14/24 Analyzed: 10/15/24						
1,2,3-Trichlorobenzene	9.33	5.0	µg/L	10.00	ND	93.3	70-130	1.17	30	
1,2,4-Trichlorobenzene	9.68	1.0	µg/L	10.00	ND	96.8	70-130	4.44	30	
1,1,1-Trichloroethane	11.1	1.0	µg/L	10.00	ND	111	70-130	4.99	30	
1,1,2-Trichloroethane	9.53	1.0	µg/L	10.00	ND	95.3	70-130	6.40	30	
Trichloroethylene	10.6	1.0	µg/L	10.00	ND	106	70-130	1.22	30	
Trichlorofluoromethane (Freon 11)	10.8	2.0	µg/L	10.00	ND	108	70-130	2.91	30	
1,2,3-Trichloropropane	9.70	2.0	µg/L	10.00	ND	97.0	70-130	1.66	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4	1.0	µg/L	10.00	ND	104	70-130	0.769	30	
1,2,4-Trimethylbenzene	9.92	1.0	µg/L	10.00	ND	99.2	70-130	2.35	30	
1,3,5-Trimethylbenzene	10.3	1.0	µg/L	10.00	ND	103	70-130	1.47	30	
Vinyl Chloride	9.93	2.0	µg/L	10.00	ND	99.3	70-130	1.52	30	
m+p Xylene	21.3	2.0	µg/L	20.00	ND	106	70-130	2.86	20	
o-Xylene	10.7	1.0	µg/L	10.00	ND	107	70-130	3.91	30	
Xylenes (total)	32.0	1.0	µg/L	30.00	ND	107	0-200	3.21		
Surrogate: 1,2-Dichloroethane-d4	*24.8*		µg/L	25.00		99.1	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.00		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	*24.9*		µg/L	25.00		99.5	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 B389149 - SW-846 3510C										
Blank (B389149-BLK1)				Prepared: 10/12/24 Analyzed: 10/15/24						
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							
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	20	µg/L							V-05
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
2,2'-oxybis(1-Chloropropane)	ND	10	µg/L							V-35
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							
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							
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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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 B389149 - SW-846 3510C											
Blank (B389149-BLK1)				Prepared: 10/12/24 Analyzed: 10/15/24							
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								
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								V-34
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	*110*		µg/L	400.0		27.4		15-110			
Surrogate: Phenol-d6	*90.3*		µg/L	400.0		22.6		15-110			
Surrogate: Nitrobenzene-d5	*146*		µg/L	200.0		72.9		30-130			
Surrogate: 2-Fluorobiphenyl	*129*		µg/L	200.0		64.3		30-130			
Surrogate: 2,4,6-Tribromophenol	*195*		µg/L	400.0		48.9		15-110			
Surrogate: p-Terphenyl-d14	*157*		µg/L	200.0		78.6		30-130			
LCS (B389149-BS1)				Prepared: 10/12/24 Analyzed: 10/15/24							
2,3,4,6-Tetrachlorophenol	97.0	20	µg/L	100.0		97.0		40-140			R-05
Atrazine	141	20	µg/L	100.0		**141**	*	40-140			L-07
Benzaldehyde	104	10	µg/L	100.0		104		40-140			R-05
Biphenyl	79.1	20	µg/L	100.0		79.1		40-140			
Caprolactam	48.7	10	µg/L	100.0		48.7		40-140			R-05
Acenaphthene	68.8	5.0	µg/L	100.0		68.8		40-140			
Acenaphthylene	75.6	5.0	µg/L	100.0		75.6		40-140			
Acetophenone	99.3	10	µg/L	100.0		99.3		40-140			R-05
Aniline	59.5	20	µg/L	100.0		59.5		40-140			V-05
Anthracene	78.7	5.0	µg/L	100.0		78.7		40-140			
Benzo(a)anthracene	79.5	5.0	µg/L	100.0		79.5		40-140			
Benzo(a)pyrene	82.3	5.0	µg/L	100.0		82.3		40-140			
Benzo(b)fluoranthene	81.4	5.0	µg/L	100.0		81.4		40-140			
Benzo(g,h,i)perylene	96.8	5.0	µg/L	100.0		96.8		40-140			R-05
Benzo(k)fluoranthene	81.4	5.0	µg/L	100.0		81.4		40-140			
Bis(2-chloroethoxy)methane	82.9	10	µg/L	100.0		82.9		40-140			
Bis(2-chloroethyl)ether	71.3	10	µg/L	100.0		71.3		40-140			
2,2'-oxybis(1-Chloropropane)	95.7	10	µg/L	100.0		95.7		40-140			R-05, V-35
Bis(2-Ethylhexyl)phthalate	86.3	10	µg/L	100.0		86.3		40-140			
4-Bromophenylphenylether	70.7	10	µg/L	100.0		70.7		40-140			
Butylbenzylphthalate	86.6	10	µg/L	100.0		86.6		40-140			
Carbazole	83.8	10	µg/L	100.0		83.8		40-140			
4-Chloroaniline	82.1	10	µg/L	100.0		82.1		40-140			
4-Chloro-3-methylphenol	87.8	10	µg/L	100.0		87.8		30-130			R-05
2-Chloronaphthalene	57.5	10	µg/L	100.0		57.5		40-140			
2-Chlorophenol	70.0	10	µg/L	100.0		70.0		30-130			R-05

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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 B389149 - SW-846 3510C												
LCS (B389149-BS1)				Prepared: 10/12/24 Analyzed: 10/15/24								
4-Chlorophenylphenylether	79.2	10	µg/L	100.0		79.2		40-140				
Chrysene	75.7	5.0	µg/L	100.0		75.7		40-140				
Dibenz(a,h)anthracene	96.8	5.0	µg/L	100.0		96.8		40-140			R-05	
Dibenzofuran	76.4	5.0	µg/L	100.0		76.4		40-140				
Di-n-butylphthalate	84.4	10	µg/L	100.0		84.4		40-140				
3,3-Dichlorobenzidine	43.7	10	µg/L	100.0		43.7		40-140				
2,4-Dichlorophenol	77.5	10	µg/L	100.0		77.5		30-130			R-05	
Diethylphthalate	85.9	10	µg/L	100.0		85.9		40-140				
2,4-Dimethylphenol	81.4	10	µg/L	100.0		81.4		30-130				
Dimethylphthalate	84.6	10	µg/L	100.0		84.6		40-140				
4,6-Dinitro-2-methylphenol	69.0	20	µg/L	100.0		69.0		30-130			R-05	
2,4-Dinitrophenol	64.5	10	µg/L	100.0		64.5		30-130			R-05	
2,4-Dinitrotoluene	92.2	10	µg/L	100.0		92.2		40-140				
2,6-Dinitrotoluene	87.2	10	µg/L	100.0		87.2		40-140				
Di-n-octylphthalate	83.1	10	µg/L	100.0		83.1		40-140			V-04	
Fluoranthene	86.9	5.0	µg/L	100.0		86.9		40-140				
Fluorene	81.2	5.0	µg/L	100.0		81.2		40-140				
Hexachlorobenzene	73.3	10	µg/L	100.0		73.3		40-140				
Hexachlorobutadiene	36.6	10	µg/L	100.0		**36.6**	*	40-140			L-04	
Hexachlorocyclopentadiene	41.2	10	µg/L	100.0		41.2		30-140				†
Hexachloroethane	40.0	10	µg/L	100.0		40.0		40-140				
Indeno(1,2,3-cd)pyrene	88.2	5.0	µg/L	100.0		88.2		40-140				
Isophorone	94.3	10	µg/L	100.0		94.3		40-140				
1-Methylnaphthalene	60.3	5.0	µg/L	100.0		60.3		40-140				
2-Methylnaphthalene	56.2	5.0	µg/L	100.0		56.2		40-140				
2-Methylphenol	71.6	10	µg/L	100.0		71.6		30-130			R-05	
3/4-Methylphenol	71.7	10	µg/L	100.0		71.7		30-130			R-05	
Naphthalene	53.0	5.0	µg/L	100.0		53.0		40-140				
2-Nitroaniline	104	10	µg/L	100.0		104		40-140				
3-Nitroaniline	87.3	10	µg/L	100.0		87.3		40-140				
4-Nitroaniline	93.8	10	µg/L	100.0		93.8		40-140			R-05	
Nitrobenzene	75.1	10	µg/L	100.0		75.1		40-140				
2-Nitrophenol	65.3	10	µg/L	100.0		65.3		30-130			R-05	
4-Nitrophenol	59.0	10	µg/L	100.0		59.0		10-130			R-05	†
N-Nitrosodiphenylamine/Diphenylamine	72.2	10	µg/L	100.0		72.2		40-140				
N-Nitrosodi-n-propylamine	82.4	10	µg/L	100.0		82.4		40-140			R-05	
Pentachlorophenol	80.0	10	µg/L	100.0		80.0		30-130			R-05	
Phenanthrene	77.2	5.0	µg/L	100.0		77.2		40-140				
Phenol	42.9	10	µg/L	100.0		42.9		20-130			R-05	†
Pyrene	71.7	5.0	µg/L	100.0		71.7		40-140				
Pyridine	21.9	20	µg/L	100.0		21.9		10-140			V-34	†
1,2,4,5-Tetrachlorobenzene	67.5	10	µg/L	100.0		67.5		40-140				
2,4,5-Trichlorophenol	75.4	10	µg/L	100.0		75.4		30-130			R-05	
2,4,6-Trichlorophenol	73.9	10	µg/L	100.0		73.9		30-130			R-05	
Surrogate: 2-Fluorophenol	*260*		µg/L	400.0		65.0		15-110				
Surrogate: Phenol-d6	*188*		µg/L	400.0		46.9		15-110				
Surrogate: Nitrobenzene-d5	*170*		µg/L	200.0		84.8		30-130				
Surrogate: 2-Fluorobiphenyl	*152*		µg/L	200.0		76.0		30-130				
Surrogate: 2,4,6-Tribromophenol	*419*		µg/L	400.0		105		15-110				
Surrogate: p-Terphenyl-d14	*159*		µg/L	200.0		79.4		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 B389149 - SW-846 3510C													
LCS Dup (B389149-BSD1)				Prepared: 10/12/24 Analyzed: 10/15/24									
2,3,4,6-Tetrachlorophenol	43.5	20	µg/L	100.0		43.5		40-140	**76.2**	*	20	R-05	
Atrazine	117	20	µg/L	100.0		117		40-140	18.5		20		
Benzaldehyde	83.4	10	µg/L	100.0		83.4		40-140	**21.6**	*	20	R-05	
Biphenyl	69.9	20	µg/L	100.0		69.9		40-140	12.4		20		
Caprolactam	37.3	10	µg/L	100.0		**37.3**	*	40-140	**26.5**	*	20	L-07A	
Acenaphthene	57.9	5.0	µg/L	100.0		57.9		40-140	17.2		20		
Acenaphthylene	66.0	5.0	µg/L	100.0		66.0		40-140	13.5		20		
Acetophenone	80.0	10	µg/L	100.0		80.0		40-140	**21.5**	*	20	R-05	
Aniline	54.4	20	µg/L	100.0		54.4		40-140	8.80		50	V-05	‡
Anthracene	69.7	5.0	µg/L	100.0		69.7		40-140	12.1		20		
Benzo(a)anthracene	71.3	5.0	µg/L	100.0		71.3		40-140	10.8		20		
Benzo(a)pyrene	73.6	5.0	µg/L	100.0		73.6		40-140	11.3		20		
Benzo(b)fluoranthene	75.5	5.0	µg/L	100.0		75.5		40-140	7.61		20		
Benzo(g,h,i)perylene	76.7	5.0	µg/L	100.0		76.7		40-140	**23.2**	*	20	R-05	
Benzo(k)fluoranthene	75.0	5.0	µg/L	100.0		75.0		40-140	8.16		20		
Bis(2-chloroethoxy)methane	69.9	10	µg/L	100.0		69.9		40-140	17.1		20		
Bis(2-chloroethyl)ether	58.5	10	µg/L	100.0		58.5		40-140	19.6		20		
2,2'-oxybis(1-Chloropropane)	77.7	10	µg/L	100.0		77.7		40-140	**20.8**	*	20	R-05, V-35	
Bis(2-Ethylhexyl)phthalate	74.1	10	µg/L	100.0		74.1		40-140	15.1		20		
4-Bromophenylphenylether	63.9	10	µg/L	100.0		63.9		40-140	10.2		20		
Butylbenzylphthalate	78.7	10	µg/L	100.0		78.7		40-140	9.59		20		
Carbazole	71.4	10	µg/L	100.0		71.4		40-140	16.0		20		
4-Chloroaniline	71.6	10	µg/L	100.0		71.6		40-140	13.7		20		
4-Chloro-3-methylphenol	69.0	10	µg/L	100.0		69.0		30-130	**24.0**	*	20	R-05	
2-Chloronaphthalene	50.7	10	µg/L	100.0		50.7		40-140	12.6		20		
2-Chlorophenol	37.7	10	µg/L	100.0		37.7		30-130	**59.9**	*	20	R-05	
4-Chlorophenylphenylether	70.2	10	µg/L	100.0		70.2		40-140	12.1		20		
Chrysene	67.8	5.0	µg/L	100.0		67.8		40-140	11.0		20		
Dibenz(a,h)anthracene	78.4	5.0	µg/L	100.0		78.4		40-140	**21.0**	*	20	R-05	
Dibenzofuran	67.2	5.0	µg/L	100.0		67.2		40-140	12.8		20		
Di-n-butylphthalate	71.8	10	µg/L	100.0		71.8		40-140	16.1		20		
3,3-Dichlorobenzidine	38.1	10	µg/L	100.0		**38.1**	*	40-140	13.9		20	L-07	
2,4-Dichlorophenol	45.1	10	µg/L	100.0		45.1		30-130	**52.8**	*	20	R-05	
Diethylphthalate	72.5	10	µg/L	100.0		72.5		40-140	17.0		20		
2,4-Dimethylphenol	69.4	10	µg/L	100.0		69.4		30-130	16.0		20		
Dimethylphthalate	72.9	10	µg/L	100.0		72.9		40-140	14.9		50		‡
4,6-Dinitro-2-methylphenol	28.3	20	µg/L	100.0		**28.3**	*	30-130	**83.8**	*	50	L-07A	‡
2,4-Dinitrophenol	24.9	10	µg/L	100.0		**24.9**	*	30-130	**88.6**	*	50	L-07A	‡
2,4-Dinitrotoluene	78.2	10	µg/L	100.0		78.2		40-140	16.4		20		
2,6-Dinitrotoluene	75.2	10	µg/L	100.0		75.2		40-140	14.8		20		
Di-n-octylphthalate	75.2	10	µg/L	100.0		75.2		40-140	10.1		20	V-04	
Fluoranthene	72.4	5.0	µg/L	100.0		72.4		40-140	18.2		20		
Fluorene	71.6	5.0	µg/L	100.0		71.6		40-140	12.6		20		
Hexachlorobenzene	67.8	10	µg/L	100.0		67.8		40-140	7.80		20		
Hexachlorobutadiene	30.5	10	µg/L	100.0		**30.5**	*	40-140	18.2		20	L-04	
Hexachlorocyclopentadiene	36.9	10	µg/L	100.0		36.9		30-140	11.0		50		† ‡
Hexachloroethane	31.5	10	µg/L	100.0		**31.5**	*	40-140	23.7		50	L-07	‡
Indeno(1,2,3-cd)pyrene	72.2	5.0	µg/L	100.0		72.2		40-140	20.1		50		‡
Isophorone	79.6	10	µg/L	100.0		79.6		40-140	16.9		20		
1-Methylnaphthalene	52.0	5.0	µg/L	100.0		52.0		40-140	14.9		20		
2-Methylnaphthalene	49.9	5.0	µg/L	100.0		49.9		40-140	12.0		20		
2-Methylphenol	54.0	10	µg/L	100.0		54.0		30-130	**28.1**	*	20	R-05	

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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 B389149 - SW-846 3510C												
LCS Dup (B389149-BSD1)				Prepared: 10/12/24 Analyzed: 10/15/24								
3/4-Methylphenol	53.0	10	µg/L	100.0		53.0	30-130	**30.0**	*	20	R-05	
Naphthalene	45.2	5.0	µg/L	100.0		45.2	40-140	15.9		20		
2-Nitroaniline	92.5	10	µg/L	100.0		92.5	40-140	11.6		20		
3-Nitroaniline	73.8	10	µg/L	100.0		73.8	40-140	16.8		20		
4-Nitroaniline	76.2	10	µg/L	100.0		76.2	40-140	**20.7**	*	20	R-05	
Nitrobenzene	64.3	10	µg/L	100.0		64.3	40-140	15.5		20		
2-Nitrophenol	34.9	10	µg/L	100.0		34.9	30-130	**60.8**	*	20	R-05	
4-Nitrophenol	22.1	10	µg/L	100.0		22.1	10-130	**90.9**	*	50	R-05	† ‡
N-Nitrosodiphenylamine/Diphenylamine	65.4	10	µg/L	100.0		65.4	40-140	9.89		20		
N-Nitrosodi-n-propylamine	66.9	10	µg/L	100.0		66.9	40-140	**20.7**	*	20	R-05	
Pentachlorophenol	35.0	10	µg/L	100.0		35.0	30-130	**78.2**	*	50	R-05	‡
Phenanthrene	67.7	5.0	µg/L	100.0		67.7	40-140	13.2		20		
Phenol	25.9	10	µg/L	100.0		25.9	20-130	**49.4**	*	20	R-05	†
Pyrene	69.8	5.0	µg/L	100.0		69.8	40-140	2.72		20		
Pyridine	24.2	20	µg/L	100.0		24.2	10-140	10.1		50	V-34	† ‡
1,2,4,5-Tetrachlorobenzene	61.0	10	µg/L	100.0		61.0	40-140	10.1		20		
2,4,5-Trichlorophenol	39.4	10	µg/L	100.0		39.4	30-130	**62.7**	*	20	R-05	
2,4,6-Trichlorophenol	34.2	10	µg/L	100.0		34.2	30-130	**73.4**	*	50	R-05	‡
Surrogate: 2-Fluorophenol	*110*		µg/L	400.0		27.5	15-110					
Surrogate: Phenol-d6	*111*		µg/L	400.0		27.7	15-110					
Surrogate: Nitrobenzene-d5	*135*		µg/L	200.0		67.7	30-130					
Surrogate: 2-Fluorobiphenyl	*129*		µg/L	200.0		64.6	30-130					
Surrogate: 2,4,6-Tribromophenol	*197*		µg/L	400.0		49.3	15-110					
Surrogate: p-Terphenyl-d14	*143*		µg/L	200.0		71.5	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 B389100 - SW-846 3510C										
Blank (B389100-BLK1)				Prepared: 10/11/24 Analyzed: 10/15/24						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.74*		µg/L	10.00		27.4	15-110			
LCS (B389100-BS1)				Prepared: 10/11/24 Analyzed: 10/15/24						
1,4-Dioxane	8.81	0.20	µg/L	10.00		88.1	40-140			
Surrogate: 1,4-Dioxane-d8	*2.88*		µg/L	10.00		28.8	15-110			
LCS Dup (B389100-BSD1)				Prepared: 10/11/24 Analyzed: 10/15/24						
1,4-Dioxane	9.13	0.20	µg/L	10.00		91.3	40-140	3.61	30	
Surrogate: 1,4-Dioxane-d8	*2.82*		µg/L	10.00		28.2	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 B390657 - Draft Method 1633										
Blank (B390657-BLK1)				Prepared: 11/04/24 Analyzed: 11/06/24						
Perfluorobutanoic acid (PFBA)	ND	4.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	0.99	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	0.99	ng/L							
Perfluorooctanoic acid (PFOA)	ND	0.99	ng/L							
Perfluorononanoic acid (PFNA)	ND	0.99	ng/L							
Perfluorodecanoic acid (PFDA)	ND	0.99	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	0.99	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	0.99	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	0.99	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.99	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	0.99	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.99	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.99	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.99	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	0.99	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	0.99	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	0.99	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.99	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.0	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.0	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.0	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	0.99	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.99	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.99	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	0.99	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	0.99	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	9.9	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.9	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.0	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	4.0	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	4.0	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	4.0	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.9	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	50	ng/L							V-05
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	50	ng/L							V-05
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Surrogate: 13C4-PFBA	*97.9*		ng/L	99.20		98.7	10-130			

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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 B390657 - Draft Method 1633										
Blank (B390657-BLK1)				Prepared: 11/04/24 Analyzed: 11/06/24						
Surrogate: 13C5-PFPeA	*41.4*		ng/L	49.60		83.5	35-150			
Surrogate: 13C5-PFHxA	*20.0*		ng/L	24.80		80.8	55-150			
Surrogate: 13C4-PFHpA	*18.2*		ng/L	24.80		73.3	55-150			
Surrogate: 13C8-PFOA	*20.9*		ng/L	24.80		84.1	60-140			
Surrogate: 13C9-PFNA	*10.2*		ng/L	12.40		82.6	55-140			
Surrogate: 13C6-PFDA	*10.3*		ng/L	12.40		82.9	50-140			
Surrogate: 13C7-PFUnA	*10.1*		ng/L	12.40		81.3	30-140			
Surrogate: 13C2-PFDoA	*9.45*		ng/L	12.40		76.2	10-150			
Surrogate: 13C2-PFTeDA	*9.02*		ng/L	12.40		72.8	10-130			
Surrogate: 13C3-PFBS	*25.5*		ng/L	24.80		103	55-150			
Surrogate: 13C3-PFHxS	*21.9*		ng/L	24.80		88.5	55-150			
Surrogate: 13C8-PFOS	*21.3*		ng/L	24.80		86.0	45-140			
Surrogate: 13C2-4:2FTS	*54.8*		ng/L	49.60		110	60-200			
Surrogate: 13C2-6:2FTS	*47.9*		ng/L	49.60		96.6	60-200			
Surrogate: 13C2-8:2FTS	*43.1*		ng/L	49.60		86.9	50-200			
Surrogate: 13C8-PFOSA	*17.7*		ng/L	24.80		71.4	30-130			
Surrogate: D3-NMeFOSA	*16.6*		ng/L	24.80		67.0	15-130			
Surrogate: D5-NEtFOSA	*17.0*		ng/L	24.80		68.5	10-130			
Surrogate: D3-NMeFOSAA	*46.7*		ng/L	49.60		94.2	45-200			
Surrogate: D5-NEtFOSAA	*46.0*		ng/L	49.60		92.6	10-200			
Surrogate: D7-NMeFOSE	*177*		ng/L	248.0		71.4	10-150			
Surrogate: D9-NEtFOSE	*177*		ng/L	248.0		71.3	10-150			
Surrogate: 13C3-HFPO-DA	*94.4*		ng/L	99.20		95.2	25-160			
LCS (B390657-BS1)				Prepared: 11/04/24 Analyzed: 11/06/24						
Perfluorobutanoic acid (PFBA)	91.4	3.9	ng/L	93.70		97.5	58-148			
Perfluoropentanoic acid (PFPeA)	44.3	2.0	ng/L	46.85		94.6	54-152			
Perfluorohexanoic acid (PFHxA)	22.8	0.98	ng/L	23.42		97.4	55-152			
Perfluoroheptanoic acid (PFHpA)	22.4	0.98	ng/L	23.42		95.5	54-154			
Perfluorooctanoic acid (PFOA)	23.1	0.98	ng/L	23.42		98.4	52-161			
Perfluorononanoic acid (PFNA)	22.4	0.98	ng/L	23.42		95.8	59-149			
Perfluorodecanoic acid (PFDA)	21.7	0.98	ng/L	23.42		92.8	52-147			
Perfluoroundecanoic acid (PFUnA)	22.0	0.98	ng/L	23.42		93.8	48-159			
Perfluorododecanoic acid (PFDoA)	22.6	0.98	ng/L	23.42		96.5	64-142			
Perfluorotridecanoic acid (PFTrDA)	22.1	0.98	ng/L	23.42		94.4	49-148			
Perfluorotetradecanoic acid (PFTeDA)	22.3	0.98	ng/L	23.42		95.2	47-161			
Perfluorobutanesulfonic acid (PFBS)	19.3	0.98	ng/L	20.78		92.8	62-144			
Perfluoropentanesulfonic acid (PFPeS)	22.4	0.98	ng/L	22.04		102	59-151			
Perfluorohexanesulfonic acid (PFHxS)	19.4	0.98	ng/L	21.41		90.7	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	21.7	0.98	ng/L	22.32		97.0	55-152			
Perfluorooctanesulfonic acid (PFOS)	19.5	0.98	ng/L	21.74		89.7	58-149			
Perfluorononanesulfonic acid (PFNS)	20.6	0.98	ng/L	22.53		91.3	52-148			
Perfluorodecanesulfonic acid (PFDS)	20.7	0.98	ng/L	22.60		91.7	51-147			
Perfluorododecanesulfonic acid (PFDoS)	20.0	0.98	ng/L	22.72		88.0	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	95.7	3.9	ng/L	87.84		109	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	99.1	3.9	ng/L	89.01		111	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	99.7	3.9	ng/L	89.95		111	63-152			
Perfluorooctanesulfonamide (PFOSA)	22.7	0.98	ng/L	23.42		97.1	61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	22.9	0.98	ng/L	23.42		97.8	63-145			

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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 B390657 - Draft Method 1633										
LCS (B390657-BS1)				Prepared: 11/04/24 Analyzed: 11/06/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	22.7	0.98	ng/L	23.42		96.9	65-139			
N-MeFOSAA (NMeFOSAA)	20.8	0.98	ng/L	23.42		88.6	58-144			
N-EtFOSAA (NEtFOSAA)	21.1	0.98	ng/L	23.42		89.9	59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	232	9.8	ng/L	234.2		99.2	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	239	9.8	ng/L	234.2		102	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	85.5	3.9	ng/L	93.70		91.3	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	67.0	3.9	ng/L	88.54		75.7	68-146			
9Cl-PF3ONS (F53B Minor)	63.2	3.9	ng/L	87.61		72.2	56-156			
11Cl-PF3OUdS (F53B Major)	64.7	3.9	ng/L	88.54		73.1	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	188	9.8	ng/L	234.2		80.3	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	920	49	ng/L	1171		78.6	63-134			V-05
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	783	49	ng/L	1171		66.8	50-138			V-05
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	40.5	2.0	ng/L	41.70		97.3	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	41.8	2.0	ng/L	46.85		89.3	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	44.0	2.0	ng/L	46.85		93.9	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	53.3	2.0	ng/L	46.85		114	48-161			
Surrogate: 13C4-PFBA	*91.7*		ng/L	97.60		94.0	10-130			
Surrogate: 13C5-PFPeA	*41.0*		ng/L	48.80		84.0	35-150			
Surrogate: 13C5-PFHxA	*19.6*		ng/L	24.40		80.4	55-150			
Surrogate: 13C4-PFHpA	*18.4*		ng/L	24.40		75.5	55-150			
Surrogate: 13C8-PFOA	*20.0*		ng/L	24.40		81.9	60-140			
Surrogate: 13C9-PFNA	*9.67*		ng/L	12.20		79.3	55-140			
Surrogate: 13C6-PFDA	*10.0*		ng/L	12.20		82.2	50-140			
Surrogate: 13C7-PFUnA	*9.24*		ng/L	12.20		75.7	30-140			
Surrogate: 13C2-PFDoA	*9.10*		ng/L	12.20		74.6	10-150			
Surrogate: 13C2-PFTeDA	*8.58*		ng/L	12.20		70.4	10-130			
Surrogate: 13C3-PFBS	*23.4*		ng/L	24.40		95.8	55-150			
Surrogate: 13C3-PFHxS	*20.3*		ng/L	24.40		83.2	55-150			
Surrogate: 13C8-PFOS	*21.0*		ng/L	24.40		86.0	45-140			
Surrogate: 13C2-4:2FTS	*45.6*		ng/L	48.80		93.4	60-200			
Surrogate: 13C2-6:2FTS	*42.0*		ng/L	48.80		86.1	60-200			
Surrogate: 13C2-8:2FTS	*40.6*		ng/L	48.80		83.3	50-200			
Surrogate: 13C8-PFOSA	*16.5*		ng/L	24.40		67.6	30-130			
Surrogate: D3-NMeFOSA	*12.1*		ng/L	24.40		49.5	15-130			
Surrogate: D5-NEtFOSA	*12.4*		ng/L	24.40		50.8	10-130			
Surrogate: D3-NMeFOSAA	*44.5*		ng/L	48.80		91.2	45-200			
Surrogate: D5-NEtFOSAA	*42.4*		ng/L	48.80		86.8	10-200			
Surrogate: D7-NMeFOSE	*153*		ng/L	244.0		62.7	10-150			
Surrogate: D9-NEtFOSE	*151*		ng/L	244.0		62.0	10-150			
Surrogate: 13C3-HFPO-DA	*90.7*		ng/L	97.60		92.9	25-160			
MRL Check (B390657-MRL1)				Prepared: 11/04/24 Analyzed: 11/06/24						
Perfluorobutanoic acid (PFBA)	7.99	4.0	ng/L	7.942		101	44-157			
Perfluoropentanoic acid (PFPeA)	4.05	2.0	ng/L	3.971		102	57-148			

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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 B390657 - Draft Method 1633										
MRL Check (B390657-MRL1)				Prepared: 11/04/24 Analyzed: 11/06/24						
Perfluorohexanoic acid (PFHxA)	2.14	0.99	ng/L	1.986		108	62-149			
Perfluoroheptanoic acid (PFHpA)	2.01	0.99	ng/L	1.986		101	56-150			
Perfluorooctanoic acid (PFOA)	2.13	0.99	ng/L	1.986		107	57-161			
Perfluorononanoic acid (PFNA)	1.96	0.99	ng/L	1.986		98.5	53-157			
Perfluorodecanoic acid (PFDA)	2.10	0.99	ng/L	1.986		106	43-158			
Perfluoroundecanoic acid (PFUnA)	2.01	0.99	ng/L	1.986		101	50-155			
Perfluorododecanoic acid (PFDoA)	2.06	0.99	ng/L	1.986		104	60-141			
Perfluorotridecanoic acid (PFTrDA)	1.94	0.99	ng/L	1.986		97.6	52-140			
Perfluorotetradecanoic acid (PFTeDA)	2.15	0.99	ng/L	1.986		108	52-156			
Perfluorobutanesulfonic acid (PFBS)	1.78	0.99	ng/L	1.761		101	63-145			
Perfluoropentanesulfonic acid (PFPeS)	2.11	0.99	ng/L	1.868		113	58-144			
Perfluorohexanesulfonic acid (PFHxS)	1.82	0.99	ng/L	1.815		100	44-158			
Perfluoroheptanesulfonic acid (PFHpS)	2.00	0.99	ng/L	1.892		105	51-150			
Perfluorooctanesulfonic acid (PFOS)	2.02	0.99	ng/L	1.843		110	43-162			
Perfluorononanesulfonic acid (PFNS)	1.84	0.99	ng/L	1.910		96.4	46-151			
Perfluorodecanesulfonic acid (PFDS)	1.89	0.99	ng/L	1.916		98.4	50-144			
Perfluorododecanesulfonic acid (PFDoS)	2.05	0.99	ng/L	1.926		106	30-138			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.38	4.0	ng/L	7.446		113	52-158			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.91	4.0	ng/L	7.545		105	48-158			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	9.39	4.0	ng/L	7.625		123	46-165			
Perfluorooctanesulfonamide (PFOSA)	2.05	0.99	ng/L	1.986		103	47-163			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.07	0.99	ng/L	1.986		104	54-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.92	0.99	ng/L	1.986		96.9	49-156			
N-MeFOSAA (NMeFOSAA)	1.77	0.99	ng/L	1.986		89.0	32-160			
N-EtFOSAA (NEtFOSAA)	1.93	0.99	ng/L	1.986		97.0	51-154			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	21.4	9.9	ng/L	19.86		108	56-151			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	21.4	9.9	ng/L	19.86		108	60-147			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.67	4.0	ng/L	7.942		96.5	58-154			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.37	4.0	ng/L	7.506		71.6	61-148			
9Cl-PF3ONS (F53B Minor)	5.33	4.0	ng/L	7.426		71.7	44-167			
11Cl-PF3OUdS (F53B Major)	5.70	4.0	ng/L	7.506		76.0	36-158			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	15.4	9.9	ng/L	19.86		77.3	32-161			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	72.7	50	ng/L	99.28		73.2	39-156			V-05
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	61.9	50	ng/L	99.28		62.3	36-149			V-05
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.38	2.0	ng/L	3.534		95.7	56-144			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.58	2.0	ng/L	3.971		90.0	48-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.48	2.0	ng/L	3.971		87.6	49-154			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.63	2.0	ng/L	3.971		117	47-160			
Surrogate: 13C4-PFBA	*86.0*		ng/L	99.28		86.6	10-130			
Surrogate: 13C5-PFPeA	*38.7*		ng/L	49.64		77.9	35-150			
Surrogate: 13C5-PFHxA	*18.5*		ng/L	24.82		74.6	55-150			

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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 B390657 - Draft Method 1633										
MRL Check (B390657-MRL1)				Prepared: 11/04/24 Analyzed: 11/06/24						
Surrogate: 13C4-PFHpA	*16.9*		ng/L	24.82		68.0	55-150			
Surrogate: 13C8-PFOA	*18.8*		ng/L	24.82		75.6	60-140			
Surrogate: 13C9-PFNA	*9.70*		ng/L	12.41		78.2	55-140			
Surrogate: 13C6-PFDA	*9.48*		ng/L	12.41		76.4	50-140			
Surrogate: 13C7-PFUnA	*8.79*		ng/L	12.41		70.8	30-140			
Surrogate: 13C2-PFDoA	*8.82*		ng/L	12.41		71.0	10-150			
Surrogate: 13C2-PFTeDA	*8.11*		ng/L	12.41		65.3	10-130			
Surrogate: 13C3-PFBS	*22.4*		ng/L	24.82		90.1	55-150			
Surrogate: 13C3-PFHxS	*18.7*		ng/L	24.82		75.1	55-150			
Surrogate: 13C8-PFOS	*19.5*		ng/L	24.82		78.7	45-140			
Surrogate: 13C2-4:2FTS	*47.5*		ng/L	49.64		95.8	60-200			
Surrogate: 13C2-6:2FTS	*43.8*		ng/L	49.64		88.3	60-200			
Surrogate: 13C2-8:2FTS	*38.4*		ng/L	49.64		77.3	50-200			
Surrogate: 13C8-PFOSA	*17.0*		ng/L	24.82		68.3	30-130			
Surrogate: D3-NMeFOSA	*15.1*		ng/L	24.82		61.0	15-130			
Surrogate: D5-NEtFOSA	*16.4*		ng/L	24.82		65.9	10-130			
Surrogate: D3-NMeFOSAA	*43.8*		ng/L	49.64		88.2	45-200			
Surrogate: D5-NEtFOSAA	*42.5*		ng/L	49.64		85.7	10-200			
Surrogate: D7-NMeFOSE	*169*		ng/L	248.2		67.9	10-150			
Surrogate: D9-NEtFOSE	*168*		ng/L	248.2		67.6	10-150			
Surrogate: 13C3-HFPO-DA	*89.2*		ng/L	99.28		89.8	25-160			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B389019 - Draft Method 1633										
Blank (B389019-BLK1)				Prepared & Analyzed: 10/11/24						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B389019-BS1)				Prepared & Analyzed: 10/11/24						
Total Suspended Solids	182	2.5	mg/L	200.0		91.0	51.5-130			

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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-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
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.
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-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high 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.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high 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	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV,CT
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV,CT
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV,CT
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV,CT
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV,CT
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV,CT
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV,CT
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV,CT
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV,CT
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV,CT
Perfluorotetradecanoic acid (PFTeDA)	NH-P,NY,PA,WV,CT
Perfluorobutanesulfonic acid (PFBS)	NH-P,NY,PA,WV,CT
Perfluoropentanesulfonic acid (PFPeS)	NH-P,NY,PA,WV,CT
Perfluorohexanesulfonic acid (PFHxS)	NH-P,NY,PA,WV,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV,CT
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV,CT
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV,CT
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,NY,PA,WV,CT
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV,CT
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV,CT
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV,CT
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV,CT
N-EtFOSAA (NEtFOSAA)	NH-P,NY,PA,WV,CT
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV,CT
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,NY,PA,WV,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,NY,PA,WV,CT
9Cl-PF3ONS (F53B Minor)	NH-P,NY,PA,WV,CT
11Cl-PF3OUdS (F53B Major)	NH-P,NY,PA,WV,CT
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV,CT
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV,CT
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,NY,PA,WV,CT
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,NY,PA,WV,CT
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV,CT
SW-846 8260D in Water	
Acetone	CT,ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

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

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Analyte	Certifications
SW-846 8260D in Water	
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	ME,NY
SW-846 8270E in Water	
1,4-Dioxane	NY,NH
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
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
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

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

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2025
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
RI	Rhode Island Department of Health	LAO00373	12/30/2024
NC	North Carolina Div. of Water Quality	652	12/31/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
WV	West Virginia DEP Division of Water and Waste Management	419	08/31/2025

Chain of Custody / Analysis Report

RAMBOLL

Page 1 of 1

Sampler(s): Brian Dunn (Signature)

24D1665 KAM

Laboratory Use Only

Project Number:

Job Number:

Laboratory ID:

Lab Sample ID:

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 Q3 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

Analysis Required

Preservatives: (see key at bottom)

Sample Identification										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)	1	0	2		0	0	0	3	8	0	4		0	0	0		
										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	TSS(PFAS 1633)	8270D SIM: 1,4-dioxane		
1	PD-CP-00-100724	PD	10/7/2024	1400	N	WG	10	G	N	X	X											X	X	X		
2	PD-CP-01-100724	PD	10/7/2024	1400	FD	WG	10	G	N	X	X											X	X	X		
3	PD-CP-MS-100724	PD	10/7/2024	1400	MS	WG	3	G	N	X																
4	PD-CP-MSD-100724	PD	10/7/2024	1400	MSD	WG	3	G	N	X																
5	ASF-CP-00-100724	N	10/7/2024	1330	N	WG	5	G	N													X	X	X		
6	ASF-CP-01-100724	FD	10/7/2024	1330	FD	WG	5	G	N													X	X	X		
7	TB-100724		10/7/2024	0900	TB	WQ	2		N	X																
8																										
9																										
10																										
11																										
12																										
13																										
14																										

Special Instructions: *OU-5 October 2024 Monthly System Samples*

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

Relinquished by: Brian Dunn	*Date:* 10/8/24	*Courier Name:* FedEx MSMA(AAL)	*Date:* 10/8
Of: GES, Inc.	*Time:* 1400	*Tracking #:*	*Time:* 1930
Relinquished by:	*Date:* 10/8/24	*Courier Name:*	*Date:*
Of: ASF PACE LI	*Time:* 18:00	*Tracking #:*	*Time:*
Courier Name: FedEx MSMA(AAL)	*Date:* 10/8	*Received By:* ASF PACE LI	*Date:* 10/8/24
Tracking #:	*Time:* 2004	*Of:*	*Time:* 15:43

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

T: 0.7

Anthony Green OCT 0 8 2024 2250

1 of 2 COOLERS

10/9/24 0045 Rel: 10/9/24 0045 Rec:

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Table of Contents

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

Log In Back-Sheet

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

Client Ramboll

Project NY DEC Claremont Polychemical 9103

MCP/RCP Required

Deliverable Package Requirement Level 2 & Level 3

Location Old Bethpage, NY

PWSID# (When Applicable)

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time LUIS 10-10-28 @ 8:20

Back-Sheet By / Date / Time ELI 10-10-24 @ 15:21

Temperature Method Gun #6

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

Temp < 6° C Actual Temperature 3.8; 4.0

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

	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) ☐ ☐

Notes regarding Samples/COC outside of SOP:

Additional Container Notes

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

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

Effective Date: 06/11/2024

Sample			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
16oz Amb/Clear	(Circle Amb/Clear)	Soils Jars																				
8oz Amb/Clear																						
4oz Amb/Clear																						
2oz Amb/Clear																						
Unpreserved	1 Liter	Ambers	2	2	2	2																
HCL																						
Sulfuric																						
Sulfuric	250mL																					
Phosphoric																						
HCl																						
Unpreserved	100mL		2	2																		
Unpreserved	1 Liter	Plastics																				
Sulfuric																						
Unpreserved	500mL		2	2	2	2																
Sulfuric																						
Unpreserved	250mL																					
Trizma																						
Sulfuric																						
Nitric																						
NaOH																						
Ammonium Acetate																						
NaOH/Zinc																						
Unpreserved		VOA Vials																				
HCl			9	3			2															
MeOH																						
D.I. Water																						
BiSulfate																						
Col/Bact		Other/Fill in																				
125mL plastic			1	1	1	1																

Qualtrax ID: 120836