NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

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

Document type
Report

Date
December 2024

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

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

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MONTHLY REPORT OF THE OPERATIONS & MAINTENANCE ACTIVITIES (NOVEMBER 2024) CLAREMONT POLYCHEMICAL OPERABLE UNIT 5 GROUND WATER TREATMENT SYSTEM, OLD BETHPAGE, NY

Project name	**Claremont Polychemical Corporation Site**
Project no.	**1087815.1940101703**
Recipient	**New York State Department of Environmental Conservation**
Document type	**Report**
Version	**[1]**
Date	**December 11, 2024**
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LIST OF ACRONYMS AND ABBRIEVIATIONS

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

1. OPERATION AND MAINTENANCE ACTIVITIES

On behalf of Ramboll Americas Engineering Solutions, Inc. (Ramboll), Groundwater & Environmental Services, Inc. (GES) continued the daily operation and maintenance (O&M) of the Claremont Polychemical (CPC) Superfund Site Groundwater Treatment System (GWTS) Operable Unit 5 (OU5) during the month of November 2024. In addition, former Operable Unit (OU4) was inspected once per month to ensure security and building code compliance. For this report every time plant is mentioned it refers to OU5. OU4 will be referred to as such whenever discussed. This report covers the O&M activities for the system during the period defined as beginning at approximately 0800 hours, November 1, 2024, through approximately 0800 hours, December 2, 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 no downtime.
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-4 and RW-5 recovery wells were functional and fully operational during the month of November. RW-3 pump motor controls malfunctioned between November 1 through November 17, and were subsequently replaced.

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

Maintenance and project activities undertaken during the November period included:

- Routine and general maintenance tasks were conducted at the plant, on the grounds, and in the well fields.
- Single Air Stripper Feed (ASF) pumps were placed into hand mode and frequently switched to cycle their activity.
- The monthly process equipment tests were conducted.
- The Operable Unit 4 (OU4) comprehensive inspections were completed.
- The monthly Process/Recovery Well (RW) system inspection was completed.
- Basin 33 was inspected.
- Basin 1 was inspected.
- The ASF pumps were lubricated, and the seals tightened.
- The OU5 comprehensive inspections were completed.
- The PFF pumps were lubricated, and the seals tightened.
- The fire alarm system components were inspected.
- The monthly electrical device survey was completed.
- The SUNY wellfield was inspected.
- The motor controls at RW-3 pump house were replaced.

1.3 Maintenance Logs

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

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

2. TECHNICAL SUPPORT ACTIVITIES

2.1 GES/Ramboll Personnel

- GES maintained the system throughout the period.

2.2 NYSDEC Personnel, Sub - contractors, and Other Visitors

- No visitors during November reporting period.

2.3 Deliveries

- No deliveries during November 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.

4. PLANNED ACTIVITIES AND SCHEDULES

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

Upcoming tasks include:

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

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 November 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 November 2024, recovery wells RW-4 through RW-5 operated normally. RW-3 pump was shut down between November 1 through 18, 2024 due to malfunctioning motor starter. A replacement unit was taken from RW-2 and installed at RW-3 control panel on November 18, 2024. The pump has been fully operational since then.

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

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

The total volume of treated water discharged from ~0800 hours November 1, 2024 to ~0800 hours December 2, 2024 was approximately 29,183,000 gallons. The data in **Table 2** is a summary of plant discharge flows.

A graphic representation of the system's daily plant discharge output is provided in **Figure 1** and the daily plant totalizer readings for November 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 November 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 November 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 November 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 November 5, 2024 indicate that the analyzed parameters were compliant with permit limits (**Table 6**). Monthly system sampling analytical results are provided in **Attachment 1**.

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

10. PENDING ISSUES AND CONSIDERATIONS

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

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

The 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 motor controls malfunctioned on November 1, 2024 and were subsequently replaced on November 18, 2024. The pump has been fully operational since then.

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 2025.

11. PLANT DOCUMENTS

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

12. MONITORING RESULTS

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

12.1 Off-site Analytical Data Results

Monthly Plant Discharge (PD) samples are taken for organic analysis in compliance with the NYSDEC discharge permit. Quarterly groundwater samples are taken for organic analysis, and quarterly process water (PW) samples are taken for organic, inorganic, and generic analysis. At the direction of the NYSDEC in an August 17, 2022 email, analysis of Per- and polyfluoroalkyl substances (PFAS) and 1,4-dioxane were added to monthly sampling for both influent and

effluent for the foreseeable future. The November 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 November sampling activities included:

- The November PD data was processed and submitted.
- Monthly system sampling was completed on November 5, 2024.

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

The November 2024 average pH measurement was 7.01 standard units (su). The NYSDEC discharge permit requires the plant discharge to have an average monthly pH between 6.5 and 8.5 su. The results for this month meet this requirement. Data showing the plant discharge's monthly average pH trend over several months is provided in **Table 9** following the text of this report.

12.2.2 Air Stripper (AS) Tower Air Monitoring

Using a calibrated photoionization detector (PID), the vapor discharge from the air stripper tower was monitored weekly for volatile organic compounds (VOCs). The measurements were taken from the tower's effluent air stream through Port B when the treatment system is online. The November 2024 readings from the AS tower are provided in **Table 10**.

Other routine data collected in November 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 system was operational from April 25, 2024 through September 17, 2024. The entire GAC system was fully disassembled and removed offsite 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.
- The pump at RW-3 stopped working on March 3, 2024 due to a suspected electrical or mechanical issue. The pump, pump motor and down well wiring were replaced on April 5, 2024. The RW-3 motor controls malfunctioned on November 1, 2024 and were subsequently replaced with RW-2 motor controls (motor starter and relay overload) on November 18, 2024. The pump has been fully operational since then.
- RW-4 pump experienced electrical issues and shut down on May 21, 2024. It has been subsequently placed back online, however, it continues to experience randomized shut downs. Upon further testing, GES plans to replace the motor starter and relay overload at the controls of RW-4.
- Pump flow readouts are transmitted to the plant and the totalizers for pumps RW-3, and RW-4 are fully functional. The local flow meter for RW-5 occasionally stops transmitting.
- Air/Vacuum (A/V) valve at station 33+96 encountered a leak in May 2023 that required the vault to be pumped out and have its air/vacuum valve removed. Currently a stopper has been fitted to the pit that allows water to flow through the system.
- The Air/Vacuum (A/V) valve at station 16+57 and 17+10 remain isolated from the transmission line.
- RW-1 and RW-2 are offline and periodically run for preventative maintenance purposes. Their flow meters are not transmitting through the PLC. When repairs were made at RW-1 in November 2021, stones were removed from the flow meterhousing. There was a thick coating of iron salt deposits on the housing and impeller. Both RW-1 and RW-2 are isolated from the process pipeline throughout the operating period. On a monthly basis, the isolation valves are actuated open and pumps are run for five minutes to rotate the motors. The RW-1 pump was tested operational last as of June 2024. The motor controls (motor starter with relay overload) were taken from RW-1 and installed at RW-5 on June 18, 2024 due to these parts being obsolete. RW-1 will remain offline and inoperative until suitable replacement can be obtained.
- RW-2 pump was last tested operational in November 2024. The motor starter and relay overload were removed on November 18, 2024 and installed at RW-3. RW-2 will remain offline and inoperative until suitable replacemen parts can be obtained.

13.2 AS Process

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

13.3 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 and PF-3 remain fully functional.
- The motors and seals were lubricated as necessary.
- The discharge valve for PFF P-3 has failed open.

13.5 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.

14. GROUNDS

14.1 Plant Perimeter

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

14.2 Well Field

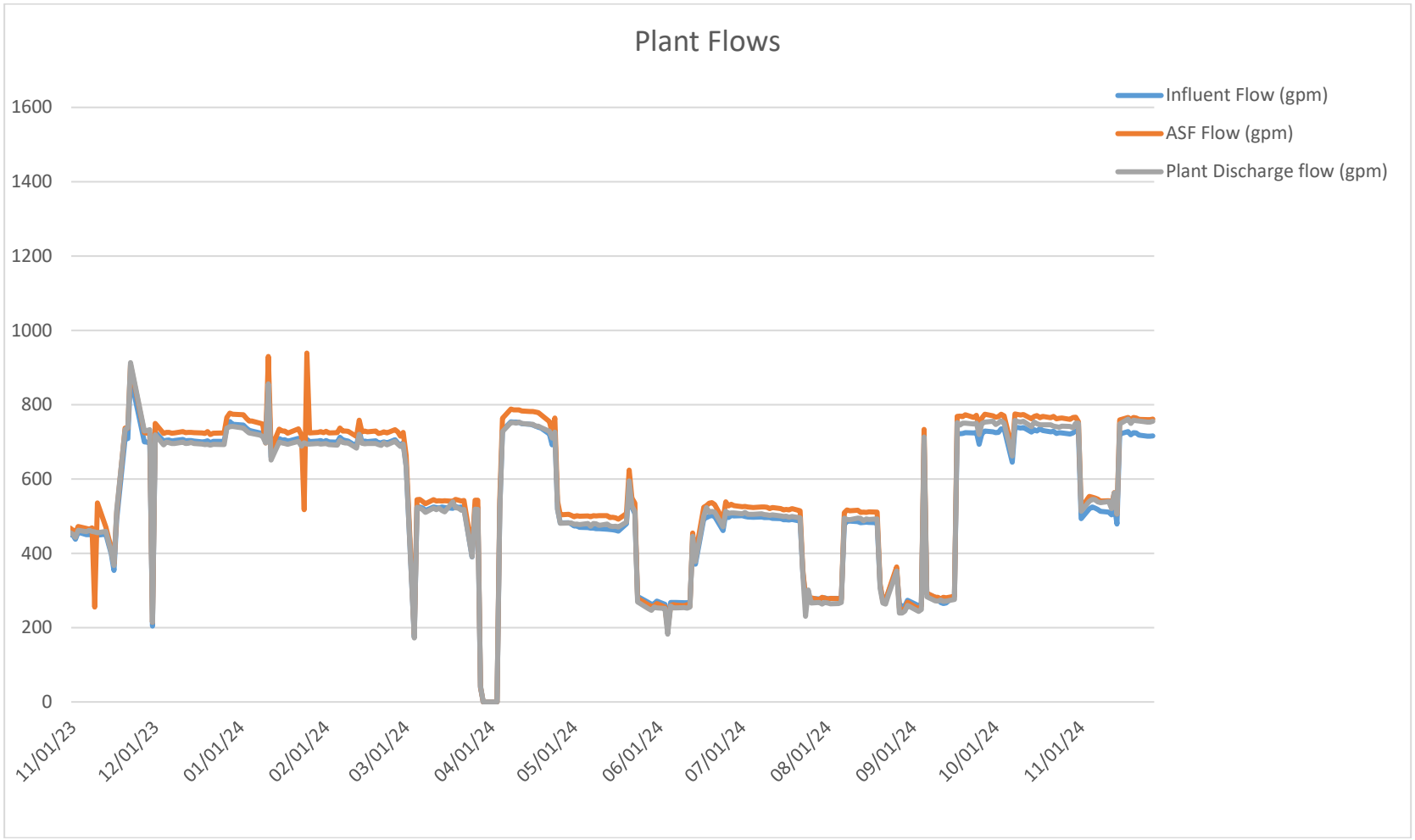
- Well field, and recharge basin inspections continue. Quarterly groundskeeping activities are performed to clear vegetation and poison ivy from around all well fields in anticipation of quarterly groundwater sampling events. In addition, the entrance to Recharge Basin 33 is maintained for ease of access.

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. Motor Starter malfunction occurred on November 1 and the unit was replaced on November 18, 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

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
November 2024	654	941,387	29,183,000	0	44,640

Acronyms: gal – gallons gpm – gallons per minute,

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

RW-3 pump motor controls malfunctioned on November 1, 2024. Pump was offline until repairs were made on November 18, 2024 and remained online for the remainder of the period.

Table 3
Plant Daily Totalizer Readings

November 2024 Flows	Plant Influent		Plant Discharge		RW Discharge	
Date	Volume	Avg. Flow	Volume	Avg. Flow	Volume	Avg. Flow
11/01/24	-	1417	-	1390	-	1351
11/04/24	2,256,000	522	2,216,000	513	2,132,000	494
11/05/24	796,000	553	778,000	540	748,000	519
11/06/24	793,000	551	785,000	545	755,000	524
11/07/24	790,000	549	784,000	544	751,000	522
11/08/24	786,000	546	776,000	539	746,000	518
11/11/24	2,337,000	541	2,316,000	536	2,216,000	513
11/12/24	780,000	542	777,000	540	736,000	511
11/13/24	761,000	528	749,000	520	725,000	503
11/14/24	811,000	563	810,000	563	765,000	531
11/15/24	728,000	506	728,000	506	689,000	478
11/18/24	3,279,000	759	3,232,000	748	3,114,000	721
11/19/24	1,102,000	765	1,096,000	761	1,048,000	728
11/20/24	1,095,000	760	1,079,000	749	1,035,000	719
11/21/24	1,102,000	765	1,092,000	758	1,044,000	725
11/22/24	1,100,000	764	1,090,000	757	1,042,000	724
11/25/24	3,284,000	760	3,265,000	756	3,103,000	718
11/26/24	1,098,000	763	1,088,000	756	1,037,000	720
11/27/24	1,094,000	760	1,084,000	753	1,030,000	715
12/02/24	5,483,000	762	5,438,000	755	5,154,000	716
November Total Plant **Influent** (Gal)				29,475,000		
November Total Plant **Effluent** (Gal)				29,183,000		
November Total **RW Discharge** (Gal)				27,870,000		

Acronyms: gal - gallons gpm – gallons per minute

Table 4
Pump System Flow Readings

November	On-Time Minutes (actual)	Avg. Flow (gpm)	Avg. Flow (gpd)	Total Flow (gal)
RW-1*	0	NR	0	0
RW-2*	5	NR	0	~1,045
RW-3	20,160	300	194,871	6,041,000
RW-4	44,640	261	376,226	11,663,000
RW-5	44,640	241	347,387	10,769,000
RW Totals	44,640	624	899,032	27,870,000
Plant Influent	44,640	660	950,806	29,475,000
Plant Effluent	44,640	654	941,387	29,183,000

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

The treatment process was online 31 days during this period with 0 minutes of downtime.

The treatment system processed less water due to RW-3 motor controls failure, which resulted in RW-3 pump being offline between November 1 through November 18, 2024.

* 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
November 5, 2024

Parameters	Discharge Limitations (SPDES)	Units	Results
pH (range)	*6.5 – 8.5*	*su*	*7.01*
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
November 5, 2024

Parameters	Guidance Values	Units	Influent Results	Effluent Results
PFOA	6.7[1]	ng/l	47	45
PFOS	2.7[1]	ng/l	16	15
1,4-Dioxane	0.35[1]	ug/l	14	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)
11/08/24	7.01	15.7
11/12/24	7.10	14.5
11/19/24	6.98	16.9
11/27/24	6.95	16.4
November Average	**7.01 su**	**15.9 °C**

Table 9
Plant Discharge Monthly Average pH

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

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

Plant Discharge Monthly Average pH Reading

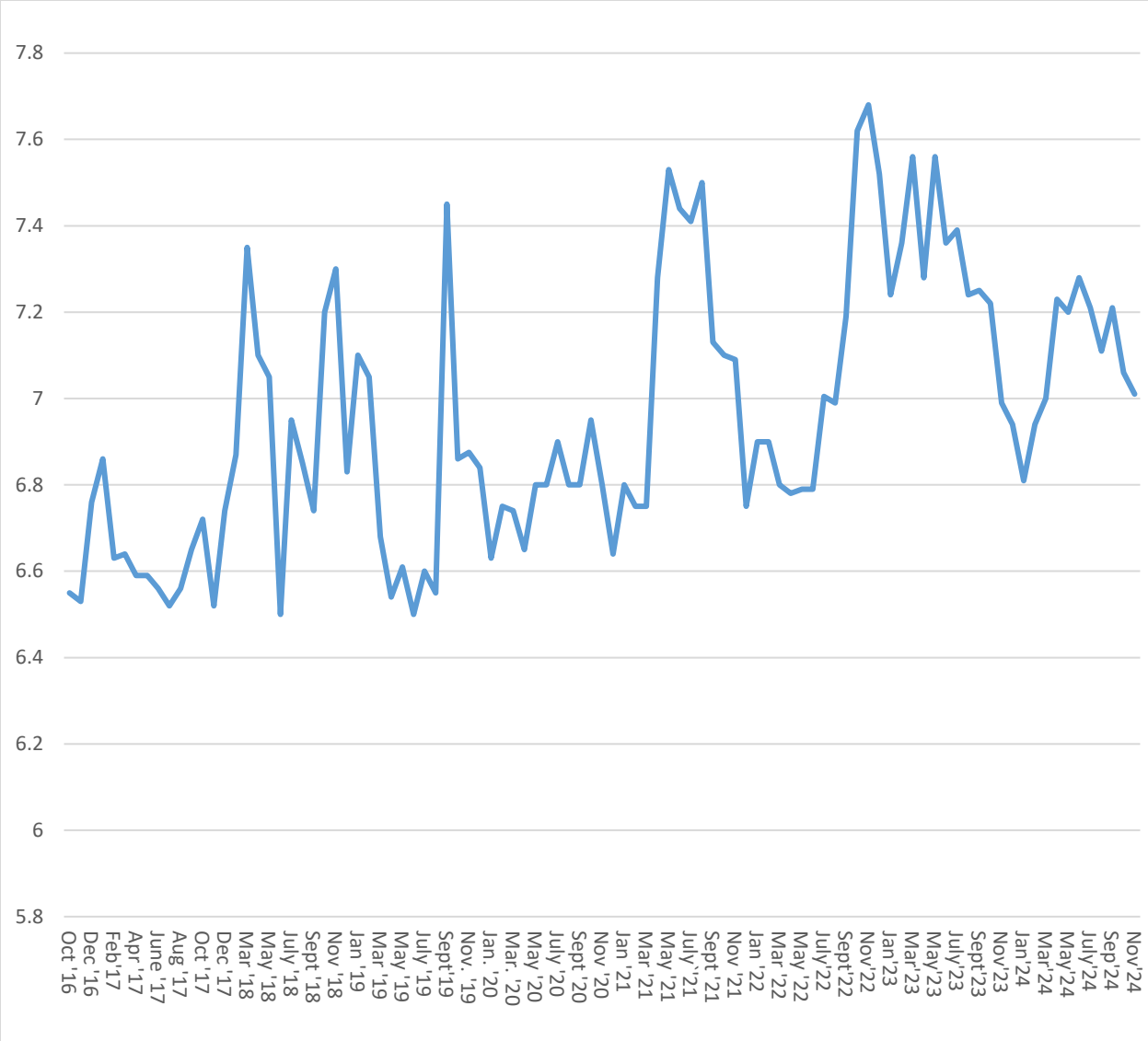


Table 10
AS Tower Air Monitoring Readings

Recorded Date	Port B (ppm)
11/08/24	0.0
11/12/24	0.0
11/19/24	0.0
11/27/24	0.0

ATTACHMENT 1
MONTHLY O&M SAMPLING ANALYTICAL RESULTS –NOVEMBER 5, 2024

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

December 4, 2024

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

Project Location: Old Bethpage, NY
Client Job Number:
Project Number: 130015
Laboratory Work Order Number: 24K0480

Enclosed are results of analyses for samples as received by the laboratory on November 6, 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 13202
ATTN: Payson Long

REPORT DATE: 12/4/2024

PURCHASE ORDER NUMBER: 151811

PROJECT NUMBER: 130015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24K0480

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-00-110524	24K0480-01	Ground Water		Draft Method 1633	
				SW-846 8260D	
				SW-846 8270E	
PD-CP-01-110524	24K0480-02	Ground Water		Draft Method 1633	
				SW-846 8260D	
				SW-846 8270E	
ASF-CP-00-110524	24K0480-03	Ground Water		Draft Method 1633	
				SW-846 8270E	
ASF-CP-01-110524	24K0480-04	Ground Water		Draft Method 1633	
				SW-846 8270E	
TB-110524	24K0480-05	Trip Blank Water		SW-846 8260D	

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

CASE NARRATIVE SUMMARY

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

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

Draft Method 1633

Qualifications:

PF-17

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

Analyte & Samples(s) Qualified:

D7-NMeFOSE
S114844-CCB5

D9-NEtFOSE
S114844-CCB5

N-ethylperfluorooctanesulfonamidoethanol (NEtFO
S114844-CCB5

N-methylperfluorooctanesulfonamidoethanol(NMeF
S114844-CCB5

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

D3-NMeFOSAA
24K0480-04RE1[ASF-CP-01-110524]

N-MeFOSAA (NMeFOSAA)
24K0480-04RE1[ASF-CP-01-110524]

Z-01

Extracted internal standard is outside of control limits, matrix interference suspected. Reanalysis yielded similar extracted internal standard non-conformance.

Analyte & Samples(s) Qualified:

D7-NMeFOSE
S114844-CCV5

D9-NEtFOSE
S114844-CCV5

N-ethylperfluorooctanesulfonamidoethanol (NEtFO
S114844-CCV5

N-methylperfluorooctanesulfonamidoethanol(NMeF
S114844-CCV5

SW-846 8260D

Qualifications:

L-02

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

Analyte & Samples(s) Qualified:

Methyl Acetate
B391682-BS1, B391682-BSD1, B391682-MS1, B391682-MSD1

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene
24K0480-01[PD-CP-00-110524], B391682-MS1, B391682-MSD1

Naphthalene
24K0480-01[PD-CP-00-110524], B391682-MS1, B391682-MSD1

MS-24

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

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
B391682-MSD1

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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:

Bromoform
24K0480-01[PD-CP-00-110524], 24K0480-02[PD-CP-01-110524], 24K0480-05[TB-110524], B391682-BLK1, B391682-BS1, B391682-BSD1, B391682-MS1, B391682-MSD1, S113641-CCV1

Naphthalene
24K0480-01[PD-CP-00-110524], 24K0480-02[PD-CP-01-110524], 24K0480-05[TB-110524], B391682-BLK1, B391682-BS1, B391682-BSD1, B391682-MS1, B391682-MSD1, S113641-CCV1

V-20

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

Analyte & Samples(s) Qualified:

Bromomethane
B391682-BS1, B391682-BSD1, B391682-MS1, B391682-MSD1, S113641-CCV1

Methyl Acetate
B391682-BS1, B391682-BSD1, B391682-MS1, B391682-MSD1, S113641-CCV1

SW-846 8270E

Qualifications:

B

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:

1,4-Dioxane
24K0480-01[PD-CP-00-110524], 24K0480-02[PD-CP-01-110524], 24K0480-03[ASF-CP-00-110524], 24K0480-04[ASF-CP-01-110524], B391943-BLK1, B391943-BS1, B391943-BSD1

B-07

Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:

1,4-Dioxane
24K0480-01[PD-CP-00-110524], 24K0480-02[PD-CP-01-110524], 24K0480-03[ASF-CP-00-110524], 24K0480-04[ASF-CP-01-110524]

L-04

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

Analyte & Samples(s) Qualified:

Caprolactam
24K0480-01[PD-CP-00-110524], 24K0480-02[PD-CP-01-110524], B391693-BLK1, B391693-BS1, B391693-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:

Hexachloroethane
B391693-BSD1

S-07

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol
B391693-BLK1, B391693-BS1

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V-04

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
24K0480-01[PD-CP-00-110524], 24K0480-02[PD-CP-01-110524], B391693-BLK1, B391693-BS1, B391693-BSD1, S113594-CCV1, S113934-CCV1

Dibenz(a,h)anthracene
24K0480-01[PD-CP-00-110524], 24K0480-02[PD-CP-01-110524], B391693-BLK1, B391693-BS1, B391693-BSD1, S113594-CCV1, S113934-CCV1

Di-n-octylphthalate
24K0480-01[PD-CP-00-110524], 24K0480-02[PD-CP-01-110524], B391693-BLK1, B391693-BS1, B391693-BSD1, S113594-CCV1, S113934-CCV1

Indeno(1,2,3-cd)pyrene
24K0480-01[PD-CP-00-110524], 24K0480-02[PD-CP-01-110524], B391693-BLK1, B391693-BS1, B391693-BSD1, S113594-CCV1, S113934-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:

2,4-Dinitrophenol
24K0480-01[PD-CP-00-110524], 24K0480-02[PD-CP-01-110524], B391693-BLK1, B391693-BS1, B391693-BSD1, S113594-CCV1, S113934-CCV1

4-Nitrophenol
24K0480-01[PD-CP-00-110524], 24K0480-02[PD-CP-01-110524], S113934-CCV1

Aniline
24K0480-01[PD-CP-00-110524], 24K0480-02[PD-CP-01-110524], B391693-BLK1, B391693-BS1, B391693-BSD1, S113594-CCV1, S113934-CCV1

Pyridine
24K0480-01[PD-CP-00-110524], 24K0480-02[PD-CP-01-110524], S113934-CCV1

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:

Pyrene
24K0480-01[PD-CP-00-110524], 24K0480-02[PD-CP-01-110524], S113934-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
24K0480-01[PD-CP-00-110524], 24K0480-02[PD-CP-01-110524], B391693-BLK1, B391693-BS1, B391693-BSD1, S113334-ICV1, S113594-CCV1, S113934-CCV1, S114725-ICV1

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: 24K0480

Date Received: 11/6/2024

Field Sample #: PD-CP-00-110524 | Sampled: 11/5/2024 09:30

Sample ID: 24K0480-01

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	11/7/24	11/8/24 13:18	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Bromoform	ND	1.0	µg/L	1	V-05	SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Naphthalene	ND	2.0	µg/L	1	V-05, MS-09	SW-846 8260D	11/7/24	11/8/24 13:18	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: PD-CP-00-110524 | Sampled: 11/5/2024 09:30

Sample ID: 24K0480-01

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	11/7/24	11/8/24 13:18	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	MS-09	SW-846 8260D	11/7/24	11/8/24 13:18	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:18	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		11/8/24 13:18
Toluene-d8	96.4	70-130		11/8/24 13:18
4-Bromofluorobenzene	86.1	70-130		11/8/24 13:18

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: PD-CP-00-110524 | Sampled: 11/5/2024 09:30

Sample ID: 24K0480-01

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	11/7/24	11/14/24 10:20	BGL
Atrazine	ND	18	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Benzaldehyde	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Biphenyl	ND	18	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Caprolactam	ND	8.9	µg/L	1	L-04	SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Acenaphthene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Acenaphthylene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Acetophenone	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Aniline	ND	18	µg/L	1	V-05	SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Anthracene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Benzo(a)anthracene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Benzo(a)pyrene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Benzo(b)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Benzo(g,h,i)perylene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Benzo(k)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Bis(2-chloroethoxy)methane	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Bis(2-chloroethyl)ether	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
2,2'-oxybis(1-Chloropropane)	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Bis(2-Ethylhexyl)phthalate	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
4-Bromophenylphenylether	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Butylbenzylphthalate	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Carbazole	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
4-Chloroaniline	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
4-Chloro-3-methylphenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
2-Chloronaphthalene	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
2-Chlorophenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
4-Chlorophenylphenylether	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Chrysene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Dibenz(a,h)anthracene	ND	4.5	µg/L	1	V-04	SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Dibenzofuran	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Di-n-butylphthalate	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
3,3-Dichlorobenzidine	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
2,4-Dichlorophenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Diethylphthalate	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
2,4-Dimethylphenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Dimethylphthalate	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
4,6-Dinitro-2-methylphenol	ND	18	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
2,4-Dinitrophenol	ND	8.9	µg/L	1	V-04, V-05	SW-846 8270E	11/7/24	11/14/24 10:20	BGL
2,4-Dinitrotoluene	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
2,6-Dinitrotoluene	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Di-n-octylphthalate	ND	8.9	µg/L	1	V-04	SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Fluorene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Hexachlorobenzene	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: PD-CP-00-110524 | Sampled: 11/5/2024 09:30

Sample ID: 24K0480-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Hexachlorocyclopentadiene	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Hexachloroethane	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	µg/L	1	V-04	SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Isophorone	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
1-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
2-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
2-Methylphenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
3/4-Methylphenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Naphthalene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
2-Nitroaniline	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
3-Nitroaniline	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
4-Nitroaniline	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Nitrobenzene	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
2-Nitrophenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
4-Nitrophenol	ND	8.9	µg/L	1	V-05	SW-846 8270E	11/7/24	11/14/24 10:20	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
N-Nitrosodi-n-propylamine	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Pentachlorophenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Phenanthrene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Phenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Pyrene	ND	4.5	µg/L	1	V-06	SW-846 8270E	11/7/24	11/14/24 10:20	BGL
Pyridine	ND	18	µg/L	1	V-05, V-34	SW-846 8270E	11/7/24	11/14/24 10:20	BGL
1,2,4,5-Tetrachlorobenzene	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
2,4,5-Trichlorophenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL
2,4,6-Trichlorophenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:20	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	38.7	15-110		11/14/24 10:20
Phenol-d6	26.2	15-110		11/14/24 10:20
Nitrobenzene-d5	73.8	30-130		11/14/24 10:20
2-Fluorobiphenyl	66.2	30-130		11/14/24 10:20
2,4,6-Tribromophenol	70.3	15-110		11/14/24 10:20
p-Terphenyl-d14	90.6	30-130		11/14/24 10:20

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: PD-CP-00-110524 | Sampled: 11/5/2024 09:30

Sample ID: 24K0480-01

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	B-07, B	SW-846 8270E	11/11/24	11/14/24 6:33	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
1,4-Dioxane-d8	20.6	15-110					11/14/24 6:33	

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: PD-CP-00-110524 | Sampled: 11/5/2024 09:30

Sample ID: 24K0480-01

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)	35	5.7	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluoropentanoic acid (PFPeA)	23	2.8	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluorohexanoic acid (PFHxA)	22	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluoroheptanoic acid (PFHpA)	12	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluorooctanoic acid (PFOA)	45	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluorononanoic acid (PFNA)	42	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluorodecanoic acid (PFDA)	ND	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluorobutanesulfonic acid (PFBS)	2.6	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluoropentanesulfonic acid (PFPeS)	2.2	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluorohexanesulfonic acid (PFHxS)	7.1	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluorooctanesulfonic acid (PFOS)	14	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	5.7	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	5.7	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	5.7	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.4	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	14	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	14	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	5.7	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	5.7	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
9Cl-PF3ONS (F53B Minor)	ND	5.7	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
11Cl-PF3OUdS (F53B Major)	ND	5.7	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.1	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	35	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	35	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.8	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.8	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: PD-CP-00-110524 | Sampled: 11/5/2024 09:30

Sample ID: 24K0480-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.8	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.8	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:21	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	72.1	5-130		11/27/24 14:21
13C5-PFPeA	72.0	40-130		11/27/24 14:21
13C5-PFHxA	73.8	40-130		11/27/24 14:21
13C4-PFHpA	70.0	40-130		11/27/24 14:21
13C8-PFOA	81.0	40-130		11/27/24 14:21
13C9-PFNA	66.5	40-130		11/27/24 14:21
13C6-PFDA	69.2	40-130		11/27/24 14:21
13C7-PFUnA	65.1	30-130		11/27/24 14:21
13C2-PFDoA	65.4	10-130		11/27/24 14:21
13C2-PFTeDA	60.6	10-130		11/27/24 14:21
13C3-PFBS	77.4	40-135		11/27/24 14:21
13C3-PFHxS	76.2	40-130		11/27/24 14:21
13C8-PFOS	71.0	40-130		11/27/24 14:21
13C2-4:2FTS	163	40-200		11/27/24 14:21
13C2-6:2FTS	91.9	40-200		11/27/24 14:21
13C2-8:2FTS	73.1	40-300		11/27/24 14:21
13C8-PFOSA	58.7	40-130		11/27/24 14:21
D3-NMeFOSA	43.4	10-130		11/27/24 14:21
D5-NEtFOSA	42.1	10-130		11/27/24 14:21
D3-NMeFOSAA	54.7	40-170		11/27/24 14:21
D5-NEtFOSAA	58.0	25-135		11/27/24 14:21
D7-NMeFOSE	51.7	10-130		11/27/24 14:21
D9-NEtFOSE	51.6	10-130		11/27/24 14:21
13C3-HFPO-DA	70.6	40-130		11/27/24 14:21

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: PD-CP-01-110524 | Sampled: 11/5/2024 09:30

Sample ID: 24K0480-02

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	11/7/24	11/8/24 13:45	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Bromoform	ND	1.0	µg/L	1	V-05	SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	11/7/24	11/8/24 13:45	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: PD-CP-01-110524 | Sampled: 11/5/2024 09:30

Sample ID: 24K0480-02

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	11/7/24	11/8/24 13:45	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 13:45	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		11/8/24 13:45
Toluene-d8	96.4	70-130		11/8/24 13:45
4-Bromofluorobenzene	83.4	70-130		11/8/24 13:45

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: PD-CP-01-110524 | Sampled: 11/5/2024 09:30

Sample ID: 24K0480-02

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	11/7/24	11/14/24 10:41	BGL
Atrazine	ND	18	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Benzaldehyde	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Biphenyl	ND	18	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Caprolactam	ND	8.9	µg/L	1	L-04	SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Acenaphthene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Acenaphthylene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Acetophenone	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Aniline	ND	18	µg/L	1	V-05	SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Anthracene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Benzo(a)anthracene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Benzo(a)pyrene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Benzo(b)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Benzo(g,h,i)perylene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Benzo(k)fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Bis(2-chloroethoxy)methane	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Bis(2-chloroethyl)ether	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
2,2'-oxybis(1-Chloropropane)	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Bis(2-Ethylhexyl)phthalate	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
4-Bromophenylphenylether	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Butylbenzylphthalate	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Carbazole	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
4-Chloroaniline	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
4-Chloro-3-methylphenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
2-Chloronaphthalene	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
2-Chlorophenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
4-Chlorophenylphenylether	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Chrysene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Dibenz(a,h)anthracene	ND	4.5	µg/L	1	V-04	SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Dibenzofuran	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Di-n-butylphthalate	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
3,3-Dichlorobenzidine	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
2,4-Dichlorophenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Diethylphthalate	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
2,4-Dimethylphenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Dimethylphthalate	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
4,6-Dinitro-2-methylphenol	ND	18	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
2,4-Dinitrophenol	ND	8.9	µg/L	1	V-04, V-05	SW-846 8270E	11/7/24	11/14/24 10:41	BGL
2,4-Dinitrotoluene	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
2,6-Dinitrotoluene	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Di-n-octylphthalate	ND	8.9	µg/L	1	V-04	SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Fluoranthene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Fluorene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Hexachlorobenzene	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: PD-CP-01-110524 | Sampled: 11/5/2024 09:30

Sample ID: 24K0480-02

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	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Hexachlorocyclopentadiene	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Hexachloroethane	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	µg/L	1	V-04	SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Isophorone	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
1-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
2-Methylnaphthalene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
2-Methylphenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
3/4-Methylphenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Naphthalene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
2-Nitroaniline	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
3-Nitroaniline	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
4-Nitroaniline	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Nitrobenzene	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
2-Nitrophenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
4-Nitrophenol	ND	8.9	µg/L	1	V-05	SW-846 8270E	11/7/24	11/14/24 10:41	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
N-Nitrosodi-n-propylamine	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Pentachlorophenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Phenanthrene	ND	4.5	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Phenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Pyrene	ND	4.5	µg/L	1	V-06	SW-846 8270E	11/7/24	11/14/24 10:41	BGL
Pyridine	ND	18	µg/L	1	V-05, V-34	SW-846 8270E	11/7/24	11/14/24 10:41	BGL
1,2,4,5-Tetrachlorobenzene	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
2,4,5-Trichlorophenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL
2,4,6-Trichlorophenol	ND	8.9	µg/L	1		SW-846 8270E	11/7/24	11/14/24 10:41	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	53.5	15-110		11/14/24 10:41
Phenol-d6	33.6	15-110		11/14/24 10:41
Nitrobenzene-d5	88.8	30-130		11/14/24 10:41
2-Fluorobiphenyl	76.1	30-130		11/14/24 10:41
2,4,6-Tribromophenol	89.7	15-110		11/14/24 10:41
p-Terphenyl-d14	94.1	30-130		11/14/24 10:41

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: PD-CP-01-110524 | Sampled: 11/5/2024 09:30

Sample ID: 24K0480-02

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	14	0.19	µg/L	1	B, B-07	SW-846 8270E	11/11/24	11/14/24 6:53	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
1,4-Dioxane-d8	19.0	15-110						11/14/24 6:53

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: PD-CP-01-110524 | Sampled: 11/5/2024 09:30

Sample ID: 24K0480-02

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)	34	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluoropentanoic acid (PFPeA)	24	3.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluorohexanoic acid (PFHxA)	22	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluoroheptanoic acid (PFHpA)	12	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluorooctanoic acid (PFOA)	45	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluorononanoic acid (PFNA)	41	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluorodecanoic acid (PFDA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluorobutanesulfonic acid (PFBS)	2.7	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluoropentanesulfonic acid (PFPeS)	2.4	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluorohexanesulfonic acid (PFHxS)	7.3	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluorooctanesulfonic acid (PFOS)	15	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	15	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
11Cl-PF3OUdS (F53B Major)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	38	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	38	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: PD-CP-01-110524 | Sampled: 11/5/2024 09:30

Sample ID: 24K0480-02

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	3.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:30	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	79.1	5-130		11/27/24 14:30
13C5-PFPeA	77.0	40-130		11/27/24 14:30
13C5-PFHxA	80.1	40-130		11/27/24 14:30
13C4-PFHpA	70.9	40-130		11/27/24 14:30
13C8-PFOA	81.2	40-130		11/27/24 14:30
13C9-PFNA	75.1	40-130		11/27/24 14:30
13C6-PFDA	71.6	40-130		11/27/24 14:30
13C7-PFUnA	68.2	30-130		11/27/24 14:30
13C2-PFDoA	67.9	10-130		11/27/24 14:30
13C2-PFTeDA	64.1	10-130		11/27/24 14:30
13C3-PFBS	78.3	40-135		11/27/24 14:30
13C3-PFHxS	76.6	40-130		11/27/24 14:30
13C8-PFOS	77.4	40-130		11/27/24 14:30
13C2-4:2FTS	165	40-200		11/27/24 14:30
13C2-6:2FTS	90.1	40-200		11/27/24 14:30
13C2-8:2FTS	75.4	40-300		11/27/24 14:30
13C8-PFOSA	63.9	40-130		11/27/24 14:30
D3-NMeFOSA	46.8	10-130		11/27/24 14:30
D5-NEtFOSA	43.8	10-130		11/27/24 14:30
D3-NMeFOSAA	62.9	40-170		11/27/24 14:30
D5-NEtFOSAA	58.0	25-135		11/27/24 14:30
D7-NMeFOSE	56.5	10-130		11/27/24 14:30
D9-NEtFOSE	55.7	10-130		11/27/24 14:30
13C3-HFPO-DA	75.6	40-130		11/27/24 14:30

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: ASF-CP-00-110524 | Sampled: 11/5/2024 09:00

Sample ID: 24K0480-03

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	14	0.19	µg/L	1	B, B-07	SW-846 8270E	11/11/24	11/14/24 7:12	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
1,4-Dioxane-d8	23.6	15-110						11/14/24 7:12

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: ASF-CP-00-110524 | Sampled: 11/5/2024 09:00

Sample ID: 24K0480-03

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)	33	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluoropentanoic acid (PFPeA)	22	3.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluorohexanoic acid (PFHxA)	22	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluoroheptanoic acid (PFHpA)	12	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluorooctanoic acid (PFOA)	47	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluorononanoic acid (PFNA)	43	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluorodecanoic acid (PFDA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluorobutanesulfonic acid (PFBS)	2.6	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluoropentanesulfonic acid (PFPeS)	2.0	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluorohexanesulfonic acid (PFHxS)	7.3	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluorooctanesulfonic acid (PFOS)	14	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	15	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
11Cl-PF3OUdS (F53B Major)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	37	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	37	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: ASF-CP-00-110524 | Sampled: 11/5/2024 09:00

Sample ID: 24K0480-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:40	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	68.7	5-130		11/27/24 14:40
13C5-PFPeA	67.4	40-130		11/27/24 14:40
13C5-PFHxA	68.0	40-130		11/27/24 14:40
13C4-PFHpA	63.2	40-130		11/27/24 14:40
13C8-PFOA	71.3	40-130		11/27/24 14:40
13C9-PFNA	65.8	40-130		11/27/24 14:40
13C6-PFDA	67.4	40-130		11/27/24 14:40
13C7-PFUnA	61.4	30-130		11/27/24 14:40
13C2-PFDoA	54.3	10-130		11/27/24 14:40
13C2-PFTeDA	48.2	10-130		11/27/24 14:40
13C3-PFBS	72.3	40-135		11/27/24 14:40
13C3-PFHxS	71.5	40-130		11/27/24 14:40
13C8-PFOS	68.0	40-130		11/27/24 14:40
13C2-4:2FTS	139	40-200		11/27/24 14:40
13C2-6:2FTS	82.4	40-200		11/27/24 14:40
13C2-8:2FTS	64.2	40-300		11/27/24 14:40
13C8-PFOSA	52.3	40-130		11/27/24 14:40
D3-NMeFOSA	37.3	10-130		11/27/24 14:40
D5-NEtFOSA	37.2	10-130		11/27/24 14:40
D3-NMeFOSAA	47.2	40-170		11/27/24 14:40
D5-NEtFOSAA	45.2	25-135		11/27/24 14:40
D7-NMeFOSE	44.8	10-130		11/27/24 14:40
D9-NEtFOSE	41.7	10-130		11/27/24 14:40
13C3-HFPO-DA	70.3	40-130		11/27/24 14:40

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: ASF-CP-01-110524 | Sampled: 11/5/2024 09:00

Sample ID: 24K0480-04

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	B, B-07	SW-846 8270E	11/11/24	11/14/24 7:32	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
1,4-Dioxane-d8	23.8	15-110					11/14/24 7:32	

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: ASF-CP-01-110524 | Sampled: 11/5/2024 09:00

Sample ID: 24K0480-04

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)	34	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluoropentanoic acid (PFPeA)	20	3.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluorohexanoic acid (PFHxA)	23	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluoroheptanoic acid (PFHpA)	12	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluorooctanoic acid (PFOA)	47	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluorononanoic acid (PFNA)	42	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluorodecanoic acid (PFDA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluorobutanesulfonic acid (PFBS)	2.7	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluoropentanesulfonic acid (PFPeS)	1.8	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluorohexanesulfonic acid (PFHxS)	7.5	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluorooctanesulfonic acid (PFOS)	16	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.5	ng/L	1	S-29	Draft Method 1633	11/26/24	11/27/24 14:49	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	15	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	15	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
9Cl-PF3ONS (F53B Minor)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
11Cl-PF3OUdS (F53B Major)	ND	6.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.5	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	38	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	38	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: ASF-CP-01-110524 | Sampled: 11/5/2024 09:00

Sample ID: 24K0480-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.0	ng/L	1		Draft Method 1633	11/26/24	11/27/24 14:49	AMS

Surrogates	% Recovery		Recovery Limits	Flag/Qual		
13C4-PFBA	71.1		5-130		11/27/24	14:49
13C5-PFPeA	71.4		40-130		11/27/24	14:49
13C5-PFHxA	71.6		40-130		11/27/24	14:49
13C4-PFHpA	67.0		40-130		11/27/24	14:49
13C8-PFOA	74.8		40-130		11/27/24	14:49
13C9-PFNA	69.0		40-130		11/27/24	14:49
13C6-PFDA	62.1		40-130		11/27/24	14:49
13C7-PFUnA	50.3		30-130		11/27/24	14:49
13C2-PFDoA	41.5		10-130		11/27/24	14:49
13C2-PFTeDA	28.1		10-130		11/27/24	14:49
13C3-PFBS	76.0		40-135		11/27/24	14:49
13C3-PFHxS	74.3		40-130		11/27/24	14:49
13C8-PFOS	64.8		40-130		11/27/24	14:49
13C2-4:2FTS	138		40-200		11/27/24	14:49
13C2-6:2FTS	71.9		40-200		11/27/24	14:49
13C2-8:2FTS	59.4		40-300		11/27/24	14:49
13C8-PFOSA	49.0		40-130		11/27/24	14:49
D3-NMeFOSA	36.8		10-130		11/27/24	14:49
D5-NEtFOSA	32.2		10-130		11/27/24	14:49
D3-NMeFOSAA	**37.5**	*	40-170	S-29	11/27/24	14:49
D5-NEtFOSAA	36.5		25-135		11/27/24	14:49
D7-NMeFOSE	29.0		10-130		11/27/24	14:49
D9-NEtFOSE	24.1		10-130		11/27/24	14:49
13C3-HFPO-DA	69.3		40-130		11/27/24	14:49

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: TB-110524 | Sampled: 11/5/2024 00:00

Sample ID: 24K0480-05

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	11/7/24	11/8/24 11:58	MFF
Benzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Bromoform	ND	1.0	µg/L	1	V-05	SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Bromomethane	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Chloroethane	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Chloroform	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Chloromethane	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Cyclohexane	ND	5.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Methyl Acetate	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Naphthalene	ND	2.0	µg/L	1	V-05	SW-846 8260D	11/7/24	11/8/24 11:58	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF

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Project Location: Old Bethpage, NY | Sample Description: | Work Order: 24K0480

Date Received: 11/6/2024

Field Sample #: TB-110524 | Sampled: 11/5/2024 00:00

Sample ID: 24K0480-05

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	11/7/24	11/8/24 11:58	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF
Xylenes (total)	ND	1.0	µg/L	1		SW-846 8260D	11/7/24	11/8/24 11:58	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		11/8/24 11:58
Toluene-d8	96.8	70-130		11/8/24 11:58
4-Bromofluorobenzene	84.8	70-130		11/8/24 11:58

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0480-01RE1 [PD-CP-00-110524]	B393054	566	4.00	11/26/24
24K0480-02RE1 [PD-CP-01-110524]	B393054	530	4.00	11/26/24
24K0480-03RE1 [ASF-CP-00-110524]	B393054	534	4.00	11/26/24
24K0480-04RE1 [ASF-CP-01-110524]	B393054	533	4.00	11/26/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0480-01 [PD-CP-00-110524]	B391682	5	5.00	11/07/24
24K0480-02 [PD-CP-01-110524]	B391682	5	5.00	11/07/24
24K0480-05 [TB-110524]	B391682	5	5.00	11/07/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0480-01 [PD-CP-00-110524]	B391693	112	1.00	11/07/24
24K0480-02 [PD-CP-01-110524]	B391693	112	1.00	11/07/24

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24K0480-01 [PD-CP-00-110524]	B391943	1040	1.00	11/11/24
24K0480-02 [PD-CP-01-110524]	B391943	1040	1.00	11/11/24
24K0480-03 [ASF-CP-00-110524]	B391943	1040	1.00	11/11/24
24K0480-04 [ASF-CP-01-110524]	B391943	1040	1.00	11/11/24

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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 B391682 - SW-846 5030B										
Blank (B391682-BLK1)				Prepared: 11/07/24 Analyzed: 11/08/24						
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							V-05
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
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							V-05
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 B391682 - SW-846 5030B											
Blank (B391682-BLK1)				Prepared: 11/07/24 Analyzed: 11/08/24							
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	*24.7*		µg/L	25.00		98.7	70-130				
Surrogate: Toluene-d8	*23.6*		µg/L	25.00		94.5	70-130				
Surrogate: 4-Bromofluorobenzene	*21.4*		µg/L	25.00		85.4	70-130				
LCS (B391682-BS1)				Prepared: 11/07/24 Analyzed: 11/08/24							
Acetone	95.9	50	µg/L	100.0		95.9	70-160				†
Benzene	11.0	1.0	µg/L	10.00		110	70-130				
Bromochloromethane	12.0	1.0	µg/L	10.00		120	70-130				
Bromodichloromethane	10.4	0.50	µg/L	10.00		104	70-130				
Bromoform	8.66	1.0	µg/L	10.00		86.6	70-130			V-05	
Bromomethane	13.6	2.0	µg/L	10.00		136	40-160			V-20	†
2-Butanone (MEK)	103	20	µg/L	100.0		103	40-160				†
n-Butylbenzene	9.62	1.0	µg/L	10.00		96.2	70-130				
sec-Butylbenzene	9.59	1.0	µg/L	10.00		95.9	70-130				
tert-Butylbenzene	9.41	1.0	µg/L	10.00		94.1	70-130				
Carbon Disulfide	93.6	5.0	µg/L	100.0		93.6	70-130				
Carbon Tetrachloride	9.99	5.0	µg/L	10.00		99.9	70-130				
Chlorobenzene	11.2	1.0	µg/L	10.00		112	70-130				
Chlorodibromomethane	9.73	0.50	µg/L	10.00		97.3	70-130				
Chloroethane	9.95	2.0	µg/L	10.00		99.5	70-130				
Chloroform	10.3	2.0	µg/L	10.00		103	70-130				
Chloromethane	10.2	2.0	µg/L	10.00		102	40-160				†
Cyclohexane	10.4	5.0	µg/L	10.00		104	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.19	5.0	µg/L	10.00		81.9	70-130				
1,2-Dibromoethane (EDB)	9.78	0.50	µg/L	10.00		97.8	70-130				
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.00		108	70-130				
1,3-Dichlorobenzene	10.5	1.0	µg/L	10.00		105	70-130				
1,4-Dichlorobenzene	9.33	1.0	µg/L	10.00		93.3	70-130				
Dichlorodifluoromethane (Freon 12)	9.50	2.0	µg/L	10.00		95.0	40-160				†
1,1-Dichloroethane	10.3	1.0	µg/L	10.00		103	70-130				
1,2-Dichloroethane	11.4	1.0	µg/L	10.00		114	70-130				
1,1-Dichloroethylene	10.2	1.0	µg/L	10.00		102	70-130				
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.00		105	70-130				
trans-1,2-Dichloroethylene	10.1	1.0	µg/L	10.00		101	70-130				
1,2-Dichloropropane	10.4	1.0	µg/L	10.00		104	70-130				
cis-1,3-Dichloropropene	9.97	0.50	µg/L	10.00		99.7	70-130				
trans-1,3-Dichloropropene	9.30	0.50	µg/L	10.00		93.0	70-130				
Ethylbenzene	10.8	1.0	µg/L	10.00		108	70-130				
2-Hexanone (MBK)	86.0	10	µg/L	100.0		86.0	70-160				†
Isopropylbenzene (Cumene)	10.2	1.0	µg/L	10.00		102	70-130				
p-Isopropyltoluene (p-Cymene)	9.67	1.0	µg/L	10.00		96.7	70-130				
Methyl Acetate	13.6	1.0	µg/L	10.00		**136**	70-130	*		L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	9.49	1.0	µg/L	10.00		94.9	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 B391682 - SW-846 5030B											
LCS (B391682-BS1)				Prepared: 11/07/24 Analyzed: 11/08/24							
Methyl Cyclohexane	10.3	1.0	µg/L	10.00		103	70-130				
Methylene Chloride	9.89	5.0	µg/L	10.00		98.9	70-130				
4-Methyl-2-pentanone (MIBK)	96.8	10	µg/L	100.0		96.8	70-160				†
Naphthalene	6.81	2.0	µg/L	10.00		68.1	40-130			V-05	†
n-Propylbenzene	10.2	1.0	µg/L	10.00		102	70-130				
Styrene	9.94	1.0	µg/L	10.00		99.4	70-130				
1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.00		104	70-130				
Tetrachloroethylene	11.4	1.0	µg/L	10.00		114	70-130				
Toluene	10.9	1.0	µg/L	10.00		109	70-130				
1,2,3-Trichlorobenzene	10.1	5.0	µg/L	10.00		101	70-130				
1,2,4-Trichlorobenzene	9.49	1.0	µg/L	10.00		94.9	70-130				
1,1,1-Trichloroethane	10.0	1.0	µg/L	10.00		100	70-130				
1,1,2-Trichloroethane	10.6	1.0	µg/L	10.00		106	70-130				
Trichloroethylene	10.8	1.0	µg/L	10.00		108	70-130				
Trichlorofluoromethane (Freon 11)	10.4	2.0	µg/L	10.00		104	70-130				
1,2,3-Trichloropropane	10.9	2.0	µg/L	10.00		109	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.65	1.0	µg/L	10.00		96.5	70-130				
1,2,4-Trimethylbenzene	9.87	1.0	µg/L	10.00		98.7	70-130				
1,3,5-Trimethylbenzene	10.6	1.0	µg/L	10.00		106	70-130				
Vinyl Chloride	10.2	2.0	µg/L	10.00		102	40-160				†
m+p Xylene	21.3	2.0	µg/L	20.00		107	70-130				
o-Xylene	10.1	1.0	µg/L	10.00		101	70-130				
Xylenes (total)	31.4	1.0	µg/L	30.00		105	0-200				
Surrogate: 1,2-Dichloroethane-d4	*25.0*		µg/L	25.00		100	70-130				
Surrogate: Toluene-d8	*24.9*		µg/L	25.00		99.8	70-130				
Surrogate: 4-Bromofluorobenzene	*24.2*		µg/L	25.00		96.6	70-130				
LCS Dup (B391682-BSD1)				Prepared: 11/07/24 Analyzed: 11/08/24							
Acetone	104	50	µg/L	100.0		104	70-160	7.85	25		†
Benzene	10.5	1.0	µg/L	10.00		105	70-130	3.82	25		
Bromochloromethane	11.8	1.0	µg/L	10.00		118	70-130	1.85	25		
Bromodichloromethane	10.6	0.50	µg/L	10.00		106	70-130	2.00	25		
Bromoform	8.40	1.0	µg/L	10.00		84.0	70-130	3.05	25	V-05	
Bromomethane	15.2	2.0	µg/L	10.00		152	40-160	11.4	25	V-20	†
2-Butanone (MEK)	111	20	µg/L	100.0		111	40-160	7.89	25		†
n-Butylbenzene	9.32	1.0	µg/L	10.00		93.2	70-130	3.17	25		
sec-Butylbenzene	10.1	1.0	µg/L	10.00		101	70-130	5.48	25		
tert-Butylbenzene	9.68	1.0	µg/L	10.00		96.8	70-130	2.83	25		
Carbon Disulfide	104	5.0	µg/L	100.0		104	70-130	10.5	25		
Carbon Tetrachloride	9.99	5.0	µg/L	10.00		99.9	70-130	0.00	25		
Chlorobenzene	11.2	1.0	µg/L	10.00		112	70-130	0.0895	25		
Chlorodibromomethane	10.3	0.50	µg/L	10.00		103	70-130	5.50	25		
Chloroethane	11.0	2.0	µg/L	10.00		110	70-130	10.3	25		
Chloroform	10.3	2.0	µg/L	10.00		103	70-130	0.389	25		
Chloromethane	11.5	2.0	µg/L	10.00		115	40-160	11.9	25		†
Cyclohexane	9.85	5.0	µg/L	10.00		98.5	70-130	5.53	25		
1,2-Dibromo-3-chloropropane (DBCP)	8.22	5.0	µg/L	10.00		82.2	70-130	0.366	25		
1,2-Dibromoethane (EDB)	9.99	0.50	µg/L	10.00		99.9	70-130	2.12	25		
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.00		106	70-130	1.49	25		
1,3-Dichlorobenzene	11.0	1.0	µg/L	10.00		110	70-130	4.67	25		
1,4-Dichlorobenzene	10.9	1.0	µg/L	10.00		109	70-130	15.3	25		
Dichlorodifluoromethane (Freon 12)	10.2	2.0	µg/L	10.00		102	40-160	7.20	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 B391682 - SW-846 5030B												
LCS Dup (B391682-BSD1)				Prepared: 11/07/24 Analyzed: 11/08/24								
1,1-Dichloroethane	11.5	1.0	µg/L	10.00		115		70-130	11.5	25		
1,2-Dichloroethane	11.2	1.0	µg/L	10.00		112		70-130	2.48	25		
1,1-Dichloroethylene	11.2	1.0	µg/L	10.00		112		70-130	9.10	25		
cis-1,2-Dichloroethylene	12.0	1.0	µg/L	10.00		120		70-130	13.2	25		
trans-1,2-Dichloroethylene	11.1	1.0	µg/L	10.00		111		70-130	9.34	25		
1,2-Dichloropropane	11.0	1.0	µg/L	10.00		110		70-130	5.33	25		
cis-1,3-Dichloropropene	10.2	0.50	µg/L	10.00		102		70-130	1.89	25		
trans-1,3-Dichloropropene	9.85	0.50	µg/L	10.00		98.5		70-130	5.74	25		
Ethylbenzene	10.7	1.0	µg/L	10.00		107		70-130	0.745	25		
2-Hexanone (MBK)	91.8	10	µg/L	100.0		91.8		70-160	6.48	25		†
Isopropylbenzene (Cumene)	10.1	1.0	µg/L	10.00		101		70-130	0.592	25		
p-Isopropyltoluene (p-Cymene)	10.1	1.0	µg/L	10.00		101		70-130	4.75	25		
Methyl Acetate	14.6	1.0	µg/L	10.00		**146**	*	70-130	7.52	25	L-02, V-20	
Methyl tert-Butyl Ether (MTBE)	10.5	1.0	µg/L	10.00		105		70-130	10.2	25		
Methyl Cyclohexane	10.9	1.0	µg/L	10.00		109		70-130	5.38	25		
Methylene Chloride	11.4	5.0	µg/L	10.00		114		70-130	14.3	25		
4-Methyl-2-pentanone (MIBK)	96.3	10	µg/L	100.0		96.3		70-160	0.487	25		†
Naphthalene	6.27	2.0	µg/L	10.00		62.7		40-130	8.26	25	V-05	†
n-Propylbenzene	10.2	1.0	µg/L	10.00		102		70-130	0.195	25		
Styrene	9.96	1.0	µg/L	10.00		99.6		70-130	0.201	25		
1,1,2,2-Tetrachloroethane	9.87	0.50	µg/L	10.00		98.7		70-130	5.71	25		
Tetrachloroethylene	11.2	1.0	µg/L	10.00		112		70-130	1.24	25		
Toluene	11.0	1.0	µg/L	10.00		110		70-130	0.640	25		
1,2,3-Trichlorobenzene	9.41	5.0	µg/L	10.00		94.1		70-130	7.37	25		
1,2,4-Trichlorobenzene	8.86	1.0	µg/L	10.00		88.6		70-130	6.87	25		
1,1,1-Trichloroethane	10.3	1.0	µg/L	10.00		103		70-130	2.17	25		
1,1,2-Trichloroethane	11.0	1.0	µg/L	10.00		110		70-130	3.60	25		
Trichloroethylene	10.7	1.0	µg/L	10.00		107		70-130	1.21	25		
Trichlorofluoromethane (Freon 11)	11.4	2.0	µg/L	10.00		114		70-130	8.99	25		
1,2,3-Trichloropropane	11.0	2.0	µg/L	10.00		110		70-130	0.0914	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.7	1.0	µg/L	10.00		107		70-130	10.4	25		
1,2,4-Trimethylbenzene	9.86	1.0	µg/L	10.00		98.6		70-130	0.101	25		
1,3,5-Trimethylbenzene	10.4	1.0	µg/L	10.00		104		70-130	1.62	25		
Vinyl Chloride	10.7	2.0	µg/L	10.00		107		40-160	4.68	25		†
m+p Xylene	20.6	2.0	µg/L	20.00		103		70-130	3.43	25		
o-Xylene	10.1	1.0	µg/L	10.00		101		70-130	0.0990	25		
Xylenes (total)	30.7	1.0	µg/L	30.00		102		0-200	2.35			
Surrogate: 1,2-Dichloroethane-d4	*25.2*		µg/L	25.00		101		70-130				
Surrogate: Toluene-d8	*25.9*		µg/L	25.00		104		70-130				
Surrogate: 4-Bromofluorobenzene	*23.4*		µg/L	25.00		93.6		70-130				
Matrix Spike (B391682-MS1)		**Source: 24K0480-01**		Prepared: 11/07/24 Analyzed: 11/08/24								
Acetone	83.6	50	µg/L	100.0	2.35	81.3		70-130				
Benzene	9.76	1.0	µg/L	10.00	ND	97.6		70-130				
Bromochloromethane	10.2	1.0	µg/L	10.00	ND	102		70-130				
Bromodichloromethane	8.89	0.50	µg/L	10.00	ND	88.9		70-130				
Bromoform	7.19	1.0	µg/L	10.00	ND	71.9		70-130			V-05	
Bromomethane	12.9	2.0	µg/L	10.00	ND	129		70-130			V-20	
2-Butanone (MEK)	89.7	20	µg/L	100.0	ND	89.7		70-130				
n-Butylbenzene	7.41	1.0	µg/L	10.00	ND	74.1		70-130				
sec-Butylbenzene	8.17	1.0	µg/L	10.00	ND	81.7		70-130				
tert-Butylbenzene	7.98	1.0	µg/L	10.00	ND	79.8		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 B391682 - SW-846 5030B											
Matrix Spike (B391682-MS1)	**Source: 24K0480-01**			Prepared: 11/07/24 Analyzed: 11/08/24							
Carbon Disulfide	82.6	5.0	µg/L	100.0	ND	82.6		70-130			
Carbon Tetrachloride	9.01	5.0	µg/L	10.00	ND	90.1		70-130			
Chlorobenzene	9.56	1.0	µg/L	10.00	ND	95.6		70-130			
Chlorodibromomethane	8.24	0.50	µg/L	10.00	ND	82.4		70-130			
Chloroethane	8.93	2.0	µg/L	10.00	ND	89.3		70-130			
Chloroform	9.22	2.0	µg/L	10.00	ND	92.2		70-130			
Chloromethane	9.66	2.0	µg/L	10.00	ND	96.6		70-130			
Cyclohexane	9.30	5.0	µg/L	10.00	ND	93.0		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.15	5.0	µg/L	10.00	ND	71.5		70-130			
1,2-Dibromoethane (EDB)	8.34	0.50	µg/L	10.00	ND	83.4		70-130			
1,2-Dichlorobenzene	8.90	1.0	µg/L	10.00	ND	89.0		70-130			
1,3-Dichlorobenzene	8.98	1.0	µg/L	10.00	ND	89.8		70-130			
1,4-Dichlorobenzene	8.78	1.0	µg/L	10.00	ND	87.8		70-130			
Dichlorodifluoromethane (Freon 12)	8.33	2.0	µg/L	10.00	ND	83.3		70-130			
1,1-Dichloroethane	9.06	1.0	µg/L	10.00	ND	90.6		70-130			
1,2-Dichloroethane	10.1	1.0	µg/L	10.00	ND	101		70-130			
1,1-Dichloroethylene	8.94	1.0	µg/L	10.00	ND	89.4		70-130			
cis-1,2-Dichloroethylene	9.25	1.0	µg/L	10.00	ND	92.5		70-130			
trans-1,2-Dichloroethylene	8.94	1.0	µg/L	10.00	ND	89.4		70-130			
1,2-Dichloropropane	8.63	1.0	µg/L	10.00	ND	86.3		70-130			
cis-1,3-Dichloropropene	7.61	0.50	µg/L	10.00	ND	76.1		70-130			
trans-1,3-Dichloropropene	7.39	0.50	µg/L	10.00	ND	73.9		70-130			
Ethylbenzene	9.08	1.0	µg/L	10.00	ND	90.8		70-130			
2-Hexanone (MBK)	76.2	10	µg/L	100.0	ND	76.2		70-130			
Isopropylbenzene (Cumene)	8.32	1.0	µg/L	10.00	ND	83.2		70-130			
p-Isopropyltoluene (p-Cymene)	8.11	1.0	µg/L	10.00	ND	81.1		70-130			
Methyl Acetate	8.65	1.0	µg/L	10.00	ND	86.5		70-130			L-02, V-20
Methyl tert-Butyl Ether (MTBE)	8.07	1.0	µg/L	10.00	ND	80.7		70-130			
Methyl Cyclohexane	9.06	1.0	µg/L	10.00	ND	90.6		70-130			
Methylene Chloride	9.02	5.0	µg/L	10.00	ND	90.2		70-130			
4-Methyl-2-pentanone (MIBK)	80.7	10	µg/L	100.0	ND	80.7		70-130			
Naphthalene	3.89	2.0	µg/L	10.00	ND	**38.9**	*	70-130			MS-09, V-05
n-Propylbenzene	8.52	1.0	µg/L	10.00	ND	85.2		70-130			
Styrene	8.11	1.0	µg/L	10.00	ND	81.1		70-130			
1,1,2,2-Tetrachloroethane	8.89	0.50	µg/L	10.00	ND	88.9		70-130			
Tetrachloroethylene	9.61	1.0	µg/L	10.00	ND	96.1		70-130			
Toluene	9.12	1.0	µg/L	10.00	ND	91.2		70-130			
1,2,3-Trichlorobenzene	7.17	5.0	µg/L	10.00	ND	71.7		70-130			
1,2,4-Trichlorobenzene	6.45	1.0	µg/L	10.00	ND	**64.5**	*	70-130			MS-09
1,1,1-Trichloroethane	9.30	1.0	µg/L	10.00	ND	93.0		70-130			
1,1,2-Trichloroethane	8.70	1.0	µg/L	10.00	ND	87.0		70-130			
Trichloroethylene	9.64	1.0	µg/L	10.00	ND	96.4		70-130			
Trichlorofluoromethane (Freon 11)	9.79	2.0	µg/L	10.00	ND	97.9		70-130			
1,2,3-Trichloropropane	9.45	2.0	µg/L	10.00	ND	94.5		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.01	1.0	µg/L	10.00	ND	90.1		70-130			
1,2,4-Trimethylbenzene	8.08	1.0	µg/L	10.00	ND	80.8		70-130			
1,3,5-Trimethylbenzene	8.57	1.0	µg/L	10.00	ND	85.7		70-130			
Vinyl Chloride	8.89	2.0	µg/L	10.00	ND	88.9		70-130			
m+p Xylene	18.0	2.0	µg/L	20.00	ND	89.8		70-130			
o-Xylene	8.49	1.0	µg/L	10.00	ND	84.9		70-130			
Xylenes (total)	26.5	1.0	µg/L	30.00	ND	88.2		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 B391682 - SW-846 5030B											
Matrix Spike (B391682-MS1)	**Source: 24K0480-01**			Prepared: 11/07/24 Analyzed: 11/08/24							
Surrogate: 1,2-Dichloroethane-d4	*25.7*		µg/L	25.00		103		70-130			
Surrogate: Toluene-d8	*24.5*		µg/L	25.00		97.8		70-130			
Surrogate: 4-Bromofluorobenzene	*23.2*		µg/L	25.00		93.0		70-130			
Matrix Spike Dup (B391682-MSD1)	**Source: 24K0480-01**			Prepared: 11/07/24 Analyzed: 11/08/24							
Acetone	90.6	50	µg/L	100.0	2.35	88.3		70-130	8.03	30	
Benzene	9.15	1.0	µg/L	10.00	ND	91.5		70-130	6.45	30	
Bromochloromethane	10.3	1.0	µg/L	10.00	ND	103		70-130	1.07	30	
Bromodichloromethane	9.12	0.50	µg/L	10.00	ND	91.2		70-130	2.55	30	
Bromoform	7.08	1.0	µg/L	10.00	ND	70.8		70-130	1.54	30	V-05
Bromomethane	12.6	2.0	µg/L	10.00	ND	126		70-130	2.59	30	V-20
2-Butanone (MEK)	98.3	20	µg/L	100.0	ND	98.3		70-130	9.21	30	
n-Butylbenzene	7.96	1.0	µg/L	10.00	ND	79.6		70-130	7.16	30	
sec-Butylbenzene	8.32	1.0	µg/L	10.00	ND	83.2		70-130	1.82	30	
tert-Butylbenzene	8.22	1.0	µg/L	10.00	ND	82.2		70-130	2.96	30	
Carbon Disulfide	91.8	5.0	µg/L	100.0	ND	91.8		70-130	10.5	30	
Carbon Tetrachloride	9.26	5.0	µg/L	10.00	ND	92.6		70-130	2.74	30	
Chlorobenzene	9.24	1.0	µg/L	10.00	ND	92.4		70-130	3.40	30	
Chlorodibromomethane	8.29	0.50	µg/L	10.00	ND	82.9		70-130	0.605	30	
Chloroethane	10.2	2.0	µg/L	10.00	ND	102		70-130	13.1	30	
Chloroform	9.23	2.0	µg/L	10.00	ND	92.3		70-130	0.108	30	
Chloromethane	10.1	2.0	µg/L	10.00	ND	101		70-130	4.16	30	
Cyclohexane	8.79	5.0	µg/L	10.00	ND	87.9		70-130	5.64	30	
1,2-Dibromo-3-chloropropane (DBCP)	7.46	5.0	µg/L	10.00	ND	74.6		70-130	4.24	30	
1,2-Dibromoethane (EDB)	8.16	0.50	µg/L	10.00	ND	81.6		70-130	2.18	30	
1,2-Dichlorobenzene	8.91	1.0	µg/L	10.00	ND	89.1		70-130	0.112	30	
1,3-Dichlorobenzene	9.17	1.0	µg/L	10.00	ND	91.7		70-130	2.09	30	
1,4-Dichlorobenzene	8.16	1.0	µg/L	10.00	ND	81.6		70-130	7.32	30	
Dichlorodifluoromethane (Freon 12)	9.02	2.0	µg/L	10.00	ND	90.2		70-130	7.95	30	
1,1-Dichloroethane	9.84	1.0	µg/L	10.00	ND	98.4		70-130	8.25	30	
1,2-Dichloroethane	9.42	1.0	µg/L	10.00	ND	94.2		70-130	6.67	30	
1,1-Dichloroethylene	9.92	1.0	µg/L	10.00	ND	99.2		70-130	10.4	30	
cis-1,2-Dichloroethylene	10.2	1.0	µg/L	10.00	ND	102		70-130	9.38	30	
trans-1,2-Dichloroethylene	9.69	1.0	µg/L	10.00	ND	96.9		70-130	8.05	30	
1,2-Dichloropropane	8.90	1.0	µg/L	10.00	ND	89.0		70-130	3.08	30	
cis-1,3-Dichloropropene	7.56	0.50	µg/L	10.00	ND	75.6		70-130	0.659	30	
trans-1,3-Dichloropropene	7.22	0.50	µg/L	10.00	ND	72.2		70-130	2.33	30	
Ethylbenzene	8.78	1.0	µg/L	10.00	ND	87.8		70-130	3.36	30	
2-Hexanone (MBK)	74.6	10	µg/L	100.0	ND	74.6		70-130	2.07	30	
Isopropylbenzene (Cumene)	8.21	1.0	µg/L	10.00	ND	82.1		70-130	1.33	30	
p-Isopropyltoluene (p-Cymene)	8.28	1.0	µg/L	10.00	ND	82.8		70-130	2.07	30	
Methyl Acetate	9.74	1.0	µg/L	10.00	ND	97.4		70-130	11.9	30	L-02, V-20
Methyl tert-Butyl Ether (MTBE)	8.86	1.0	µg/L	10.00	ND	88.6		70-130	9.33	30	
Methyl Cyclohexane	9.40	1.0	µg/L	10.00	ND	94.0		70-130	3.68	30	
Methylene Chloride	9.87	5.0	µg/L	10.00	ND	98.7		70-130	9.00	30	
4-Methyl-2-pentanone (MIBK)	80.6	10	µg/L	100.0	ND	80.6		70-130	0.124	30	
Naphthalene	3.94	2.0	µg/L	10.00	ND	**39.4**	*	70-130	1.28	30	MS-09, V-05
n-Propylbenzene	8.44	1.0	µg/L	10.00	ND	84.4		70-130	0.943	30	
Styrene	7.97	1.0	µg/L	10.00	ND	79.7		70-130	1.74	30	
1,1,2,2-Tetrachloroethane	8.37	0.50	µg/L	10.00	ND	83.7		70-130	6.03	30	
Tetrachloroethylene	9.98	1.0	µg/L	10.00	ND	99.8		70-130	3.78	30	
Toluene	9.31	1.0	µg/L	10.00	ND	93.1		70-130	2.06	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 B391682 - SW-846 5030B											
Matrix Spike Dup (B391682-MSD1)	**Source: 24K0480-01**			Prepared: 11/07/24 Analyzed: 11/08/24							
1,2,3-Trichlorobenzene	6.96	5.0	µg/L	10.00	ND	**69.6**	*	70-130	2.97	30	MS-24
1,2,4-Trichlorobenzene	5.98	1.0	µg/L	10.00	ND	**59.8**	*	70-130	7.56	30	MS-09
1,1,1-Trichloroethane	8.95	1.0	µg/L	10.00	ND	89.5		70-130	3.84	30	
1,1,2-Trichloroethane	9.16	1.0	µg/L	10.00	ND	91.6		70-130	5.15	30	
Trichloroethylene	9.50	1.0	µg/L	10.00	ND	95.0		70-130	1.46	30	
Trichlorofluoromethane (Freon 11)	10.7	2.0	µg/L	10.00	ND	107		70-130	8.70	30	
1,2,3-Trichloropropane	9.01	2.0	µg/L	10.00	ND	90.1		70-130	4.77	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.1	1.0	µg/L	10.00	ND	101		70-130	11.3	30	
1,2,4-Trimethylbenzene	8.43	1.0	µg/L	10.00	ND	84.3		70-130	4.24	30	
1,3,5-Trimethylbenzene	8.43	1.0	µg/L	10.00	ND	84.3		70-130	1.65	30	
Vinyl Chloride	9.57	2.0	µg/L	10.00	ND	95.7		70-130	7.37	30	
m+p Xylene	17.5	2.0	µg/L	20.00	ND	87.5		70-130	2.65	20	
o-Xylene	8.37	1.0	µg/L	10.00	ND	83.7		70-130	1.42	30	
Xylenes (total)	25.9	1.0	µg/L	30.00	ND	86.2		0-200	2.25		
Surrogate: 1,2-Dichloroethane-d4	*26.1*		µg/L	25.00		104		70-130			
Surrogate: Toluene-d8	*25.7*		µg/L	25.00		103		70-130			
Surrogate: 4-Bromofluorobenzene	*23.2*		µg/L	25.00		92.9		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 B391693 - SW-846 3510C										
Blank (B391693-BLK1)				Prepared: 11/07/24 Analyzed: 11/08/24						
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							L-04
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	20	µg/L							V-05
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
2,2'-oxybis(1-Chloropropane)	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
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							V-04
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	20	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-04, V-05
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							V-04
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							V-04
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 B391693 - SW-846 3510C											
Blank (B391693-BLK1)				Prepared: 11/07/24 Analyzed: 11/08/24							
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	*273*		µg/L	400.0		68.3		15-110			
Surrogate: Phenol-d6	*180*		µg/L	400.0		45.0		15-110			
Surrogate: Nitrobenzene-d5	*212*		µg/L	200.0		106		30-130			
Surrogate: 2-Fluorobiphenyl	*162*		µg/L	200.0		81.0		30-130			
Surrogate: 2,4,6-Tribromophenol	*464*		µg/L	400.0		**116**	*	15-110			S-07
Surrogate: p-Terphenyl-d14	*214*		µg/L	200.0		107		30-130			
LCS (B391693-BS1)				Prepared: 11/07/24 Analyzed: 11/08/24							
2,3,4,6-Tetrachlorophenol	101	20	µg/L	100.0		101		40-140			
Atrazine	107	20	µg/L	100.0		107		40-140			
Benzaldehyde	89.0	10	µg/L	100.0		89.0		40-140			
Biphenyl	86.9	20	µg/L	100.0		86.9		40-140			
Caprolactam	27.6	10	µg/L	100.0		**27.6**	*	40-140			L-04
Acenaphthene	87.4	5.0	µg/L	100.0		87.4		40-140			
Acenaphthylene	93.7	5.0	µg/L	100.0		93.7		40-140			
Acetophenone	88.0	10	µg/L	100.0		88.0		40-140			
Aniline	74.6	20	µg/L	100.0		74.6		40-140			V-05
Anthracene	92.3	5.0	µg/L	100.0		92.3		40-140			
Benzo(a)anthracene	91.0	5.0	µg/L	100.0		91.0		40-140			
Benzo(a)pyrene	91.8	5.0	µg/L	100.0		91.8		40-140			
Benzo(b)fluoranthene	94.5	5.0	µg/L	100.0		94.5		40-140			
Benzo(g,h,i)perylene	93.5	5.0	µg/L	100.0		93.5		40-140			
Benzo(k)fluoranthene	94.2	5.0	µg/L	100.0		94.2		40-140			
Bis(2-chloroethoxy)methane	90.7	10	µg/L	100.0		90.7		40-140			
Bis(2-chloroethyl)ether	86.3	10	µg/L	100.0		86.3		40-140			
2,2'-oxybis(1-Chloropropane)	88.7	10	µg/L	100.0		88.7		40-140			
Bis(2-Ethylhexyl)phthalate	87.1	10	µg/L	100.0		87.1		40-140			
4-Bromophenylphenylether	89.8	10	µg/L	100.0		89.8		40-140			
Butylbenzylphthalate	91.0	10	µg/L	100.0		91.0		40-140			
Carbazole	93.4	10	µg/L	100.0		93.4		40-140			
4-Chloroaniline	94.9	10	µg/L	100.0		94.9		40-140			
4-Chloro-3-methylphenol	94.7	10	µg/L	100.0		94.7		30-130			
2-Chloronaphthalene	82.0	10	µg/L	100.0		82.0		40-140			
2-Chlorophenol	84.0	10	µg/L	100.0		84.0		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 B391693 - SW-846 3510C											
LCS (B391693-BS1)				Prepared: 11/07/24 Analyzed: 11/08/24							
4-Chlorophenylphenylether	93.9	10	µg/L	100.0		93.9	40-140				
Chrysene	89.1	5.0	µg/L	100.0		89.1	40-140				
Dibenz(a,h)anthracene	87.8	5.0	µg/L	100.0		87.8	40-140			V-04	
Dibenzofuran	94.5	5.0	µg/L	100.0		94.5	40-140				
Di-n-butylphthalate	85.8	10	µg/L	100.0		85.8	40-140				
3,3-Dichlorobenzidine	94.0	10	µg/L	100.0		94.0	40-140				
2,4-Dichlorophenol	94.1	10	µg/L	100.0		94.1	30-130				
Diethylphthalate	90.3	10	µg/L	100.0		90.3	40-140				
2,4-Dimethylphenol	81.6	10	µg/L	100.0		81.6	30-130				
Dimethylphthalate	95.0	10	µg/L	100.0		95.0	40-140				
4,6-Dinitro-2-methylphenol	80.8	20	µg/L	100.0		80.8	30-130				
2,4-Dinitrophenol	56.1	10	µg/L	100.0		56.1	30-130			V-04, V-05	
2,4-Dinitrotoluene	98.3	10	µg/L	100.0		98.3	40-140				
2,6-Dinitrotoluene	97.7	10	µg/L	100.0		97.7	40-140				
Di-n-octylphthalate	85.2	10	µg/L	100.0		85.2	40-140			V-04	
Fluoranthene	95.2	5.0	µg/L	100.0		95.2	40-140				
Fluorene	95.1	5.0	µg/L	100.0		95.1	40-140				
Hexachlorobenzene	95.8	10	µg/L	100.0		95.8	40-140				
Hexachlorobutadiene	66.3	10	µg/L	100.0		66.3	40-140				
Hexachlorocyclopentadiene	75.9	10	µg/L	100.0		75.9	30-140				†
Hexachloroethane	45.3	10	µg/L	100.0		45.3	40-140				
Indeno(1,2,3-cd)pyrene	91.6	5.0	µg/L	100.0		91.6	40-140			V-04	
Isophorone	94.2	10	µg/L	100.0		94.2	40-140				
1-Methylnaphthalene	83.6	5.0	µg/L	100.0		83.6	40-140				
2-Methylnaphthalene	81.2	5.0	µg/L	100.0		81.2	40-140				
2-Methylphenol	79.5	10	µg/L	100.0		79.5	30-130				
3/4-Methylphenol	82.5	10	µg/L	100.0		82.5	30-130				
Naphthalene	74.0	5.0	µg/L	100.0		74.0	40-140				
2-Nitroaniline	106	10	µg/L	100.0		106	40-140				
3-Nitroaniline	94.8	10	µg/L	100.0		94.8	40-140				
4-Nitroaniline	91.6	10	µg/L	100.0		91.6	40-140				
Nitrobenzene	87.4	10	µg/L	100.0		87.4	40-140				
2-Nitrophenol	84.4	10	µg/L	100.0		84.4	30-130				
4-Nitrophenol	50.3	10	µg/L	100.0		50.3	10-130				†
N-Nitrosodiphenylamine/Diphenylamine	88.4	10	µg/L	100.0		88.4	40-140				
N-Nitrosodi-n-propylamine	86.5	10	µg/L	100.0		86.5	40-140				
Pentachlorophenol	83.5	10	µg/L	100.0		83.5	30-130				
Phenanthrene	90.7	5.0	µg/L	100.0		90.7	40-140				
Phenol	46.4	10	µg/L	100.0		46.4	20-130				†
Pyrene	91.8	5.0	µg/L	100.0		91.8	40-140				
Pyridine	15.8	20	µg/L	100.0		15.8	10-140			V-34	†
1,2,4,5-Tetrachlorobenzene	87.4	10	µg/L	100.0		87.4	40-140				
2,4,5-Trichlorophenol	93.8	10	µg/L	100.0		93.8	30-130				
2,4,6-Trichlorophenol	92.6	10	µg/L	100.0		92.6	30-130				
Surrogate: 2-Fluorophenol	*260*		µg/L	400.0		65.1	15-110				
Surrogate: Phenol-d6	*199*		µg/L	400.0		49.8	15-110				
Surrogate: Nitrobenzene-d5	*192*		µg/L	200.0		96.2	30-130				
Surrogate: 2-Fluorobiphenyl	*164*		µg/L	200.0		82.2	30-130				
Surrogate: 2,4,6-Tribromophenol	*465*		µg/L	400.0		**116**	* 15-110			S-07	
Surrogate: p-Terphenyl-d14	*197*		µg/L	200.0		98.5	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 B391693 - SW-846 3510C												
LCS Dup (B391693-BSD1)				Prepared: 11/07/24 Analyzed: 11/08/24								
2,3,4,6-Tetrachlorophenol	82.7	20	µg/L	100.0		82.7		40-140	19.5	20		
Atrazine	99.6	20	µg/L	100.0		99.6		40-140	6.71	20		
Benzaldehyde	82.8	10	µg/L	100.0		82.8		40-140	7.22	20		
Biphenyl	80.5	20	µg/L	100.0		80.5		40-140	7.64	20		
Caprolactam	25.7	10	µg/L	100.0		**25.7**	*	40-140	7.12	20	L-04	
Acenaphthene	81.8	5.0	µg/L	100.0		81.8		40-140	6.67	20		
Acenaphthylene	87.4	5.0	µg/L	100.0		87.4		40-140	6.95	20		
Acetophenone	82.5	10	µg/L	100.0		82.5		40-140	6.38	20		
Aniline	76.6	20	µg/L	100.0		76.6		40-140	2.70	50	V-05	‡
Anthracene	89.5	5.0	µg/L	100.0		89.5		40-140	3.08	20		
Benzo(a)anthracene	88.7	5.0	µg/L	100.0		88.7		40-140	2.62	20		
Benzo(a)pyrene	88.9	5.0	µg/L	100.0		88.9		40-140	3.18	20		
Benzo(b)fluoranthene	90.3	5.0	µg/L	100.0		90.3		40-140	4.56	20		
Benzo(g,h,i)perylene	90.0	5.0	µg/L	100.0		90.0		40-140	3.86	20		
Benzo(k)fluoranthene	89.0	5.0	µg/L	100.0		89.0		40-140	5.66	20		
Bis(2-chloroethoxy)methane	87.3	10	µg/L	100.0		87.3		40-140	3.81	20		
Bis(2-chloroethyl)ether	82.6	10	µg/L	100.0		82.6		40-140	4.33	20		
2,2'-oxybis(1-Chloropropane)	79.8	10	µg/L	100.0		79.8		40-140	10.5	20		
Bis(2-Ethylhexyl)phthalate	84.8	10	µg/L	100.0		84.8		40-140	2.63	20		
4-Bromophenylphenylether	90.5	10	µg/L	100.0		90.5		40-140	0.798	20		
Butylbenzylphthalate	88.3	10	µg/L	100.0		88.3		40-140	2.93	20		
Carbazole	88.7	10	µg/L	100.0		88.7		40-140	5.17	20		
4-Chloroaniline	87.6	10	µg/L	100.0		87.6		40-140	7.98	20		
4-Chloro-3-methylphenol	89.5	10	µg/L	100.0		89.5		30-130	5.72	20		
2-Chloronaphthalene	72.5	10	µg/L	100.0		72.5		40-140	12.3	20		
2-Chlorophenol	73.0	10	µg/L	100.0		73.0		30-130	14.0	20		
4-Chlorophenylphenylether	88.6	10	µg/L	100.0		88.6		40-140	5.75	20		
Chrysene	85.4	5.0	µg/L	100.0		85.4		40-140	4.23	20		
Dibenz(a,h)anthracene	84.7	5.0	µg/L	100.0		84.7		40-140	3.60	20	V-04	
Dibenzofuran	89.4	5.0	µg/L	100.0		89.4		40-140	5.50	20		
Di-n-butylphthalate	83.0	10	µg/L	100.0		83.0		40-140	3.28	20		
3,3-Dichlorobenzidine	92.4	10	µg/L	100.0		92.4		40-140	1.80	20		
2,4-Dichlorophenol	84.1	10	µg/L	100.0		84.1		30-130	11.1	20		
Diethylphthalate	84.0	10	µg/L	100.0		84.0		40-140	7.31	20		
2,4-Dimethylphenol	77.1	10	µg/L	100.0		77.1		30-130	5.70	20		
Dimethylphthalate	89.3	10	µg/L	100.0		89.3		40-140	6.14	50		‡
4,6-Dinitro-2-methylphenol	69.2	20	µg/L	100.0		69.2		30-130	15.4	50		‡
2,4-Dinitrophenol	39.7	10	µg/L	100.0		39.7		30-130	34.1	50	V-04, V-05	‡
2,4-Dinitrotoluene	91.0	10	µg/L	100.0		91.0		40-140	7.80	20		
2,6-Dinitrotoluene	91.3	10	µg/L	100.0		91.3		40-140	6.76	20		
Di-n-octylphthalate	84.0	10	µg/L	100.0		84.0		40-140	1.47	20	V-04	
Fluoranthene	92.0	5.0	µg/L	100.0		92.0		40-140	3.47	20		
Fluorene	89.4	5.0	µg/L	100.0		89.4		40-140	6.14	20		
Hexachlorobenzene	93.5	10	µg/L	100.0		93.5		40-140	2.42	20		
Hexachlorobutadiene	56.6	10	µg/L	100.0		56.6		40-140	15.9	20		
Hexachlorocyclopentadiene	72.1	10	µg/L	100.0		72.1		30-140	5.24	50		† ‡
Hexachloroethane	38.1	10	µg/L	100.0		**38.1**	*	40-140	17.4	50	L-07	‡
Indeno(1,2,3-cd)pyrene	91.2	5.0	µg/L	100.0		91.2		40-140	0.405	50	V-04	‡
Isophorone	89.2	10	µg/L	100.0		89.2		40-140	5.42	20		
1-Methylnaphthalene	78.3	5.0	µg/L	100.0		78.3		40-140	6.51	20		
2-Methylnaphthalene	78.7	5.0	µg/L	100.0		78.7		40-140	3.18	20		
2-Methylphenol	76.2	10	µg/L	100.0		76.2		30-130	4.34	20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B391693 - SW-846 3510C											
LCS Dup (B391693-BSD1)				Prepared: 11/07/24 Analyzed: 11/08/24							
3/4-Methylphenol	74.4	10	µg/L	100.0		74.4	30-130	10.3	20		
Naphthalene	69.4	5.0	µg/L	100.0		69.4	40-140	6.32	20		
2-Nitroaniline	99.4	10	µg/L	100.0		99.4	40-140	6.50	20		
3-Nitroaniline	87.1	10	µg/L	100.0		87.1	40-140	8.42	20		
4-Nitroaniline	85.0	10	µg/L	100.0		85.0	40-140	7.53	20		
Nitrobenzene	80.5	10	µg/L	100.0		80.5	40-140	8.16	20		
2-Nitrophenol	74.5	10	µg/L	100.0		74.5	30-130	12.4	20		
4-Nitrophenol	35.9	10	µg/L	100.0		35.9	10-130	33.5	50		† ‡
N-Nitrosodiphenylamine/Diphenylamine	85.9	10	µg/L	100.0		85.9	40-140	2.85	20		
N-Nitrosodi-n-propylamine	79.1	10	µg/L	100.0		79.1	40-140	8.91	20		
Pentachlorophenol	62.9	10	µg/L	100.0		62.9	30-130	28.1	50		‡
Phenanthrene	88.8	5.0	µg/L	100.0		88.8	40-140	2.13	20		
Phenol	41.2	10	µg/L	100.0		41.2	20-130	11.9	20		†
Pyrene	86.9	5.0	µg/L	100.0		86.9	40-140	5.48	20		
Pyridine	20.5	20	µg/L	100.0		20.5	10-140	25.5	50	V-34	† ‡
1,2,4,5-Tetrachlorobenzene	81.6	10	µg/L	100.0		81.6	40-140	6.89	20		
2,4,5-Trichlorophenol	80.4	10	µg/L	100.0		80.4	30-130	15.4	20		
2,4,6-Trichlorophenol	74.0	10	µg/L	100.0		74.0	30-130	22.4	50		‡
Surrogate: 2-Fluorophenol	*213*		µg/L	400.0		53.2	15-110				
Surrogate: Phenol-d6	*164*		µg/L	400.0		40.9	15-110				
Surrogate: Nitrobenzene-d5	*172*		µg/L	200.0		86.0	30-130				
Surrogate: 2-Fluorobiphenyl	*148*		µg/L	200.0		73.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*372*		µg/L	400.0		93.0	15-110				
Surrogate: p-Terphenyl-d14	*178*		µg/L	200.0		88.8	30-130				

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B391943 - SW-846 3510C										
Blank (B391943-BLK1)				Prepared: 11/11/24 Analyzed: 11/13/24						
1,4-Dioxane	0.92	0.20	µg/L							B
Surrogate: 1,4-Dioxane-d8	*2.42*		µg/L	10.00		24.2	15-110			
LCS (B391943-BS1)				Prepared: 11/11/24 Analyzed: 11/13/24						
1,4-Dioxane	11.1	0.20	µg/L	10.00		111	40-140			B
Surrogate: 1,4-Dioxane-d8	*2.50*		µg/L	10.00		25.0	15-110			
LCS Dup (B391943-BSD1)				Prepared: 11/11/24 Analyzed: 11/13/24						
1,4-Dioxane	12.0	0.20	µg/L	10.00		120	40-140	7.74	30	B
Surrogate: 1,4-Dioxane-d8	*2.50*		µg/L	10.00		25.0	15-110			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393054 - EPA 1633										
Blank (B393054-BLK1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Perfluorobutanoic acid (PFBA)	ND	6.3	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	3.1	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.6	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.6	ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.6	ng/L							
Perfluorononanoic acid (PFNA)	ND	1.6	ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.6	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.6	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.6	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	1.6	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	1.6	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.6	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.6	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.6	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.6	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.6	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	1.6	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	1.6	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	1.6	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	6.3	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	6.3	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	1.6	ng/L							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	1.6	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.6	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	1.6	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	1.6	ng/L							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	16	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	16	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	6.3	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	6.3	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	6.3	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	6.3	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	7.9	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	39	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	39	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.1	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	3.1	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	3.1	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.1	ng/L							
Surrogate: 13C4-PFBA	*68.7*		ng/L	78.53		87.4	5-130			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393054 - EPA 1633										
Blank (B393054-BLK1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Surrogate: 13C5-PFPeA	*33.9*		ng/L	39.27		86.4	40-130			
Surrogate: 13C5-PFHxA	*16.6*		ng/L	19.63		84.3	40-130			
Surrogate: 13C4-PFHpA	*15.5*		ng/L	19.63		79.0	40-130			
Surrogate: 13C8-PFOA	*17.3*		ng/L	19.63		87.9	40-130			
Surrogate: 13C9-PFNA	*7.84*		ng/L	9.817		79.9	40-130			
Surrogate: 13C6-PFDA	*7.73*		ng/L	9.817		78.8	40-130			
Surrogate: 13C7-PFUnA	*7.59*		ng/L	9.817		77.4	30-130			
Surrogate: 13C2-PFDoA	*7.19*		ng/L	9.817		73.3	10-130			
Surrogate: 13C2-PFTeDA	*6.71*		ng/L	9.817		68.3	10-130			
Surrogate: 13C3-PFBS	*16.2*		ng/L	19.63		82.4	40-135			
Surrogate: 13C3-PFHxS	*16.0*		ng/L	19.63		81.6	40-130			
Surrogate: 13C8-PFOS	*16.5*		ng/L	19.63		83.9	40-130			
Surrogate: 13C2-4:2FTS	*36.9*		ng/L	39.27		94.1	40-200			
Surrogate: 13C2-6:2FTS	*31.3*		ng/L	39.27		79.7	40-200			
Surrogate: 13C2-8:2FTS	*32.2*		ng/L	39.27		82.0	40-300			
Surrogate: 13C8-PFOSA	*13.2*		ng/L	19.63		67.5	40-130			
Surrogate: D3-NMeFOSA	*10.2*		ng/L	19.63		52.1	10-130			
Surrogate: D5-NEtFOSA	*9.64*		ng/L	19.63		49.1	10-130			
Surrogate: D3-NMeFOSAA	*25.0*		ng/L	39.27		63.6	40-170			
Surrogate: D5-NEtFOSAA	*26.2*		ng/L	39.27		66.8	25-135			
Surrogate: D7-NMeFOSE	*126*		ng/L	196.3		64.1	10-130			
Surrogate: D9-NEtFOSE	*118*		ng/L	196.3		60.3	10-130			
Surrogate: 13C3-HFPO-DA	*68.9*		ng/L	78.53		87.7	40-130			
LCS (B393054-BS1)				Prepared: 11/26/24 Analyzed: 11/27/24						
Perfluorobutanoic acid (PFBA)	73.2	6.3	ng/L	78.27		93.5	70-140			
Perfluoropentanoic acid (PFPeA)	38.7	3.1	ng/L	39.13		98.9	65-135			
Perfluorohexanoic acid (PFHxA)	19.2	1.6	ng/L	19.57		98.1	70-145			
Perfluoroheptanoic acid (PFHpA)	18.4	1.6	ng/L	19.57		94.1	70-150			
Perfluorooctanoic acid (PFOA)	18.6	1.6	ng/L	19.57		95.2	70-150			
Perfluorononanoic acid (PFNA)	19.7	1.6	ng/L	19.57		101	70-150			
Perfluorodecanoic acid (PFDA)	19.4	1.6	ng/L	19.57		98.9	70-140			
Perfluoroundecanoic acid (PFUnA)	20.0	1.6	ng/L	19.57		102	70-145			
Perfluorododecanoic acid (PFDoA)	20.9	1.6	ng/L	19.57		107	70-140			
Perfluorotridecanoic acid (PFTrDA)	18.6	1.6	ng/L	19.57		95.2	65-140			
Perfluorotetradecanoic acid (PFTeDA)	20.4	1.6	ng/L	19.57		104	60-140			
Perfluorobutanesulfonic acid (PFBS)	16.5	1.6	ng/L	17.38		94.8	60-145			
Perfluoropentanesulfonic acid (PFPeS)	17.9	1.6	ng/L	18.39		97.1	65-140			
Perfluorohexanesulfonic acid (PFHxS)	16.6	1.6	ng/L	17.85		92.8	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	18.3	1.6	ng/L	18.63		98.2	70-150			
Perfluorooctanesulfonic acid (PFOS)	18.2	1.6	ng/L	18.16		100	55-150			
Perfluorononanesulfonic acid (PFNS)	18.2	1.6	ng/L	18.78		96.9	65-145			
Perfluorodecanesulfonic acid (PFDS)	17.3	1.6	ng/L	18.86		91.6	60-145			
Perfluorododecanesulfonic acid (PFDoS)	15.8	1.6	ng/L	18.94		83.5	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	77.3	6.3	ng/L	73.34		105	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	76.9	6.3	ng/L	74.43		103	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	80.5	6.3	ng/L	75.14		107	60-150			
Perfluorooctanesulfonamide (PFOSA)	19.2	1.6	ng/L	19.57		98.3	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	22.3	1.6	ng/L	19.57		114	60-150			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393054 - EPA 1633										
LCS (B393054-BS1)				Prepared: 11/26/24 Analyzed: 11/27/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	22.3	1.6	ng/L	19.57		114	65-145			
N-MeFOSAA (NMeFOSAA)	18.4	1.6	ng/L	19.57		93.9	50-140			
N-EtFOSAA (NEtFOSAA)	19.0	1.6	ng/L	19.57		97.0	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	192	16	ng/L	195.7		97.9	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	190	16	ng/L	195.7		97.2	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	78.5	6.3	ng/L	78.27		100	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	76.9	6.3	ng/L	73.96		104	65-145			
9Cl-PF3ONS (F53B Minor)	69.0	6.3	ng/L	73.02		94.5	70-155			
11Cl-PF3OUdS (F53B Major)	69.0	6.3	ng/L	73.81		93.4	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	86.7	7.8	ng/L	97.84		88.6	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	440	39	ng/L	489.2		89.9	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	441	39	ng/L	489.2		90.1	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	34.8	3.1	ng/L	34.91		99.6	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	35.6	3.1	ng/L	39.13		91.1	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	37.8	3.1	ng/L	39.13		96.5	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	38.3	3.1	ng/L	39.13		97.8	50-150			
Surrogate: 13C4-PFBA	*60.0*		ng/L	78.27		76.7	5-130			
Surrogate: 13C5-PFPeA	*30.0*		ng/L	39.13		76.7	40-130			
Surrogate: 13C5-PFHxA	*14.7*		ng/L	19.57		75.2	40-130			
Surrogate: 13C4-PFHpA	*13.4*		ng/L	19.57		68.5	40-130			
Surrogate: 13C8-PFOA	*14.9*		ng/L	19.57		76.1	40-130			
Surrogate: 13C9-PFNA	*6.92*		ng/L	9.784		70.8	40-130			
Surrogate: 13C6-PFDA	*7.12*		ng/L	9.784		72.7	40-130			
Surrogate: 13C7-PFUnA	*7.14*		ng/L	9.784		73.0	30-130			
Surrogate: 13C2-PFDoA	*6.60*		ng/L	9.784		67.5	10-130			
Surrogate: 13C2-PFTeDA	*6.21*		ng/L	9.784		63.5	10-130			
Surrogate: 13C3-PFBS	*14.1*		ng/L	19.57		72.2	40-135			
Surrogate: 13C3-PFHxS	*14.2*		ng/L	19.57		72.3	40-130			
Surrogate: 13C8-PFOS	*13.9*		ng/L	19.57		70.9	40-130			
Surrogate: 13C2-4:2FTS	*29.7*		ng/L	39.13		75.9	40-200			
Surrogate: 13C2-6:2FTS	*25.4*		ng/L	39.13		65.0	40-200			
Surrogate: 13C2-8:2FTS	*26.2*		ng/L	39.13		67.0	40-300			
Surrogate: 13C8-PFOSA	*12.2*		ng/L	19.57		62.3	40-130			
Surrogate: D3-NMeFOSA	*9.15*		ng/L	19.57		46.7	10-130			
Surrogate: D5-NEtFOSA	*9.09*		ng/L	19.57		46.5	10-130			
Surrogate: D3-NMeFOSAA	*23.2*		ng/L	39.13		59.2	40-170			
Surrogate: D5-NEtFOSAA	*22.5*		ng/L	39.13		57.4	25-135			
Surrogate: D7-NMeFOSE	*121*		ng/L	195.7		62.0	10-130			
Surrogate: D9-NEtFOSE	*119*		ng/L	195.7		60.8	10-130			
Surrogate: 13C3-HFPO-DA	*59.9*		ng/L	78.27		76.5	40-130			
MRL Check (B393054-MRL1)				Prepared: 11/26/24 Analyzed: 12/03/24						
Perfluorobutanoic acid (PFBA)	6.22	6.3	ng/L	6.320		98.4	70-140			
Perfluoropentanoic acid (PFPeA)	2.97	3.2	ng/L	3.160		94.0	65-135			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393054 - EPA 1633										
MRL Check (B393054-MRL1)				Prepared: 11/26/24 Analyzed: 12/03/24						
Perfluorohexanoic acid (PFHxA)	1.51	1.6	ng/L	1.580		95.9	70-145			
Perfluoroheptanoic acid (PFHpA)	1.62	1.6	ng/L	1.580		102	70-150			
Perfluorooctanoic acid (PFOA)	1.28	1.6	ng/L	1.580		80.9	70-150			
Perfluorononanoic acid (PFNA)	1.35	1.6	ng/L	1.580		85.3	70-150			
Perfluorodecanoic acid (PFDA)	1.70	1.6	ng/L	1.580		108	70-140			
Perfluoroundecanoic acid (PFUnA)	1.46	1.6	ng/L	1.580		92.4	70-145			
Perfluorododecanoic acid (PFDoA)	1.45	1.6	ng/L	1.580		92.0	70-140			
Perfluorotridecanoic acid (PFTrDA)	1.58	1.6	ng/L	1.580		100	65-140			
Perfluorotetradecanoic acid (PFTeDA)	1.70	1.6	ng/L	1.580		107	60-140			
Perfluorobutanesulfonic acid (PFBS)	1.38	1.6	ng/L	1.403		98.6	60-145			
Perfluoropentanesulfonic acid (PFPeS)	1.38	1.6	ng/L	1.485		93.1	65-140			
Perfluorohexanesulfonic acid (PFHxS)	1.51	1.6	ng/L	1.441		104	65-145			
Perfluoroheptanesulfonic acid (PFHpS)	1.59	1.6	ng/L	1.504		106	70-150			
Perfluorooctanesulfonic acid (PFOS)	1.40	1.6	ng/L	1.466		95.5	55-150			
Perfluorononanesulfonic acid (PFNS)	1.44	1.6	ng/L	1.517		95.2	65-145			
Perfluorodecanesulfonic acid (PFDS)	1.41	1.6	ng/L	1.523		92.9	60-145			
Perfluorododecanesulfonic acid (PFDoS)	1.28	1.6	ng/L	1.529		83.5	50-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	5.48	6.3	ng/L	5.922		92.6	70-145			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	6.09	6.3	ng/L	6.010		101	65-155			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	5.47	6.3	ng/L	6.067		90.2	60-150			
Perfluorooctanesulfonamide (PFOSA)	1.55	1.6	ng/L	1.580		98.1	70-145			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	1.59	1.6	ng/L	1.580		100	60-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.86	1.6	ng/L	1.580		118	65-145			
N-MeFOSAA (NMeFOSAA)	1.22	1.6	ng/L	1.580		77.5	50-140			
N-EtFOSAA (NEtFOSAA)	1.59	1.6	ng/L	1.580		100	70-145			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	14.9	16	ng/L	15.80		94.2	70-145			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	15.0	16	ng/L	15.80		94.7	70-135			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	5.97	6.3	ng/L	6.320		94.5	70-140			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	5.60	6.3	ng/L	5.973		93.8	65-145			
9Cl-PF3ONS (F53B Minor)	5.90	6.3	ng/L	5.897		100	70-155			
11Cl-PF3OUdS (F53B Major)	5.31	6.3	ng/L	5.960		89.1	55-160			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	6.78	7.9	ng/L	7.900		85.8	65-130			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	34.7	40	ng/L	39.50		87.9	70-135			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	31.3	40	ng/L	39.50		79.2	50-145			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	2.91	3.2	ng/L	2.819		103	70-140			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.63	3.2	ng/L	3.160		115	55-140			
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.98	3.2	ng/L	3.160		94.2	60-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.27	3.2	ng/L	3.160		103	50-150			
Surrogate: 13C4-PFBA	*69.7*		ng/L	79.00		88.2	5-130			
Surrogate: 13C5-PFPeA	*34.9*		ng/L	39.50		88.4	40-130			
Surrogate: 13C5-PFHxA	*17.1*		ng/L	19.75		86.4	40-130			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B393054 - EPA 1633										
MRL Check (B393054-MRL1)				Prepared: 11/26/24 Analyzed: 12/03/24						
Surrogate: 13C4-PFHpA	*16.5*		ng/L	19.75		83.4	40-130			
Surrogate: 13C8-PFOA	*16.2*		ng/L	19.75		82.3	40-130			
Surrogate: 13C9-PFNA	*8.63*		ng/L	9.875		87.4	40-130			
Surrogate: 13C6-PFDA	*7.45*		ng/L	9.875		75.5	40-130			
Surrogate: 13C7-PFUnA	*7.75*		ng/L	9.875		78.5	30-130			
Surrogate: 13C2-PFDoA	*6.88*		ng/L	9.875		69.7	10-130			
Surrogate: 13C2-PFTeDA	*5.94*		ng/L	9.875		60.1	10-130			
Surrogate: 13C3-PFBS	*16.4*		ng/L	19.75		83.0	40-135			
Surrogate: 13C3-PFHxS	*16.5*		ng/L	19.75		83.6	40-130			
Surrogate: 13C8-PFOS	*15.6*		ng/L	19.75		79.0	40-130			
Surrogate: 13C2-4:2FTS	*39.7*		ng/L	39.50		101	40-200			
Surrogate: 13C2-6:2FTS	*35.3*		ng/L	39.50		89.5	40-200			
Surrogate: 13C2-8:2FTS	*34.5*		ng/L	39.50		87.4	40-300			
Surrogate: 13C8-PFOSA	*14.4*		ng/L	19.75		72.8	40-130			
Surrogate: D3-NMeFOSA	*10.1*		ng/L	19.75		50.9	10-130			
Surrogate: D5-NEtFOSA	*9.86*		ng/L	19.75		49.9	10-130			
Surrogate: D3-NMeFOSAA	*28.7*		ng/L	39.50		72.6	40-170			
Surrogate: D5-NEtFOSAA	*26.8*		ng/L	39.50		67.7	25-135			
Surrogate: D7-NMeFOSE	*133*		ng/L	197.5		67.2	10-130			
Surrogate: D9-NEtFOSE	*124*		ng/L	197.5		63.0	10-130			
Surrogate: 13C3-HFPO-DA	*69.2*		ng/L	79.00		87.7	40-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated laboratory blank as well as in the sample.
B-07	Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
S-29	Extracted Internal Standard is outside of control limits.
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.
Z-01	Extracted internal standard is outside of control limits, matrix interference suspected. Reanalysis yielded similar extracted internal standard non-conformance.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Water	
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
Bromoform	CT,ME,NH,VA,NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
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
1,1,1-Trichloroethane	CT,ME,NH,VA,NY

con-test®
A Pace Analytical® Laboratory

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Water	
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
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
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
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
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

RAMBOLL

Chain of Custody / Analysis Report

24K0480 KAM

Sampler(s): Brian Dunn (Signature)

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 Q4 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)																					
										Preservatives: (see key at bottom)																				
										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-00-110524	PD	11/5/2024	0930	N	WG	10	G	N	X	X											X	X	X						
2	PD-CP-01-110524	PD	11/5/2024	0930	FD	WG	10	G	N	X	X											X	X	X						
3	PD-CP-MS-110524	PD	11/5/2024	0931	MS	WG	3	G	N	X																				
4	PD-CP-MSD-110524	PD	11/5/2024	0932	MSD	WG	3	G	N	X																				
5	ASF-CP-00-110524	N	11/5/2024	0900	N	WG	5	G	N													X	X	X						
6	ASF-CP-01-110524	FD	11/5/2024	0900	FD	WG	5	G	N													X	X	X						
7	TB-110524		11/5/2024		TB	WQ	2		N	X																				
8																														
9																														
10																														
11																														
12																														
13																														
14																														

1 2 1 1 3 4 5

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

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

Relinquished by: BRIAN J. DUNN	Date: 11/6/24	Courier Name: FedEx MSMA(AA)	Date: 11/5	Condition:
Of: GES, Inc.	Time: 1500	Tracking #:	Time: 1930	
Relinquished by: PACE LI 2.2 (W)	Date: 11/5/24	Courier Name: MSMA(AA)	Date: 11/5	Custody Seals Intact? *(if so, indicate the #, date, and time of the seal)*
Of:	Time: 1521	Tracking #:	Time: 2000	
Courier Name: FedEx PACE LI	Date: 11/5/21	Received By: Anthony Green	Date: NOV 05 2024	Cooler Temperature:
Tracking #:	Time: 1800	Of:	Time: 2250	

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

Anthony Green 11/6/24 0045 RCD: 11/6/24 0050 RCD: 11/6/24 0430

PACE 11/6/24 0550 PACE 11/6/24 0720 1 OF 2 COOLERS

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

Client NYSDEC Ramboll

Project NYSDEC Claremont Polychemical site Q4 SYS Samples

MCP/RCP Required N/A

Deliverable Package Requirement CAT A

Location 010 Bethpage, NY

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☒ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time RL 11/6/24 0720

Back-Sheet By / Date / Time STM 11/6/24 1734

Temperature Method Gun # 6

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

Temp ☒ < 6° C Actual Temperature 0.4, 0.8, 1.0

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

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

	True	False
Received on Ice	☒	☐
Received in Cooler	☒	☐
Custody Seal: DATE TIME	☐	☒
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Splitting Samples Required	☐	☒
MS/MSD	☒	☐
Trip Blanks	☒	☐
Lab to Filters	☐	☒
COC Legible	☒	☐

COC Included: (Check all included)

Client ☒ Analysis ☒ Sampler Name ☒

Project ☒ IDs ☒ Collection Date/Time ☒

All Samples Proper pH: N/A ☒ ☐

Notes regarding Samples/COC outside of SOP:

Additional Container Notes

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

Sample	Soils Jars (Circle Amb/Clear)					Ambers								Plastics														Other / Fill in				
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	1 Liter Unpreserved	1 Liter HCL	1 Liter Sulfuric	250mL Sulfuric	250mL Phosphoric	250mL HCl	100mL Unpreserved	1 Liter Unpreserved	1 Liter Sulfuric	500mL Unpreserved	500mL Sulfuric	250mL Unpreserved	250mL Trizma	250mL Sulfuric	250mL Nitric	250mL NaOH	250mL Ammonium Acetate	250mL NaOH/Zinc	VOA Vials Unpreserved	VOA Vials HCl	VOA Vials MeOH	VOA Vials D.I. Water	VOA Vials Bisulfate	Col/Bact	125 Plastic			
1					2						2			2									4	2					-			
2					2						2			2									3	2					-			
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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
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